

Table 1C
2013 Pediatric Nutrition Surveillance (1)
Michigan
Summary of Demographic Indicators (2,3)
Children Aged < 5 Years

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Run Date: 03/18/2014

| Total Records | Number |
|----------------------------|---------|
| Individual Children | 253,913 |
| Total Records (All Visits) | 406,563 |

| Source of Data | Number | % |
|-------------------|---------|-------|
| WIC | 253,913 | 100.0 |
| EPSDT | 0 | 0.0 |
| Child Health-MCH | 0 | 0.0 |
| Child Health-HMO | 0 | 0.0 |
| HeadStart | 0 | 0.0 |
| School Health | 0 | 0.0 |
| Other | 0 | 0.0 |
| Total | 253,913 | 100.0 |
| Excluded Unknown: | 0 | 0.0 |

| Race/Ethnic Distribution | Number | % |
|-------------------------------|---------|-------|
| White, Not Hispanic | 126133 | 49.7 |
| Black, Not Hispanic | 68058 | 26.8 |
| Hispanic | 34537 | 13.6 |
| American Indian/Alaska Native | 703 | 0.3 |
| Asian/Pacific Islander | 4185 | 1.6 |
| Multiple Races | 20029 | 7.9 |
| All Other | 49 | 0.0 |
| Total | 253,694 | 100.0 |
| Excluded Unknown: | 219 | 0.1 |

| Age Distribution (4) | Number | % |
|----------------------|---------|-------|
| 0 - 5 Months | 44,932 | 17.7 |
| 6 - 11 Months | 34,582 | 13.6 |
| 12 - 23 Months | 60,432 | 23.8 |
| 24 - 35 Months | 41,227 | 16.2 |
| 3 - 4 Years | 72,740 | 28.6 |
| Total | 253,913 | 100.0 |

| % of Poverty Level | Number | % |
|------------------------|---------|-------|
| 0 - 50 | 87,642 | 37.9 |
| 51 - 100 | 64,700 | 27.9 |
| 101 - 130 | 23,308 | 10.1 |
| 131 - 150 | 10,971 | 4.7 |
| 151 - 185 | 12,617 | 5.4 |
| 186 - 200 | 2,877 | 1.2 |
| Over 200 | 4,770 | 2.1 |
| Adjunctive Eligibility | 24,647 | 10.6 |
| Total | 231,532 | 100.0 |
| Excluded Unknown: | 22,381 | 8.8 |

| Program Participation | Number | % |
|-----------------------|---------|-------|
| WIC | 253,913 | 100.0 |
| SNAP | 252,734 | 59.2 |
| Medicaid | 250,854 | 80.3 |
| Tanf | 252,895 | 9.2 |
| Excluded Unknown | | |
| WIC | 0 | 0.0 |
| SNAP | 1,179 | 0.5 |
| Medicaid | 3,059 | 1.2 |
| Tanf | 1,018 | 0.4 |

| Migrant Status | Number | % |
|-------------------|---------|-------|
| Yes | 1,988 | 0.8 |
| No | 251,925 | 99.2 |
| Total | 253,913 | 100.0 |
| Excluded Unknown: | 0 | 0.0 |

(1) Reporting period is January 1 through December 31

(2) Analyses based on one record per child

(3) Excludes records with unknown data errors.

(4) Records rejected if date of birth and date of visit unknown

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

Table 2C
2013 Pediatric Nutrition Surveillance (1)
Michigan
Summary of Health Indicators (2)
Children Aged < 5 Years

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Run Date: 03/18/2014

| Summary of Health Indicators (3) | | | | |
|----------------------------------|------------------------|------|--|------|
| | Michigan Prevalance | | National Prevalance (Prior Year) | |
| | Number | % | Number | % |
| Birthweight | | | | |
| Low | 58,430 | 9.6 | 129,513 | 9.2 |
| High | 58,430 | 6.9 | 129,513 | 7.0 |
| Height and Weight (5,6) (3) | | | | |
| < 5 Yrs Short Stature | 247,265 | 5.7 | 249,036 | 5.8 |
| < 5 Yrs Underweight | 247,265 | 2.4 | 249,036 | 2.9 |
| < 5 Yrs Obese | 247,265 | 11.0 | 249,036 | 10.7 |
| >= 2 Yrs Overweight | 109,600 | 16.8 | 112,234 | 16.4 |
| >=2 Yrs Obese | 109,600 | 14.1 | 112,234 | 13.8 |
| Anemia (7) | | | | |
| Low Hb | 163,675 | 17.5 | 330,739 | 14.7 |
| Low Hct | 41 | * | 347 | 10.1 |
| Low Hb/Hct | 163,703 | 17.5 | 330,815 | 14.8 |
| Breastfeeding (8) | | | | |
| Ever Brestfed | 59,096 | 62.3 | 123,543 | 65.6 |
| Breastfed At Least 6 Months | 46,002 | 17.7 | 63,950 | 24.9 |
| Breastfed At Least 12 Months | 40,663 | 9.2 | 70,117 | 12.0 |
| Smoking in Household | 251,786 | 5.2 | 521,885 | 12.2 |
| <= 2 Hours TV Viewing/ Day (9) | 121,357 | 84.4 | 235,671 | 81.6 |

(1) Reporting period is January 1 through December 31.
(2) Analyses based on one record per child.
(3) Excludes records with unknown data or errors.
(4) Infants born during the reporting period included in the analysis. Low birthweight is defined as < 2500 grams and high birthweight is defined as > 4000 grams.
(5) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age <= 2.3rd percentile, underweight is defined as weight-for-length <= 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as >= 97.7th percentile.
(6) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age >= 85th to < 95th percentile, and obesity is defined as >= 95th percentile.
(7) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.
(8) Infants born during the reporting period included in the Ever Breastfed analysis. Infants who turned 6 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 6 Months analysis. Children who turned 12 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 12 Months analysis.
(9) Children aged 2 years and older included in the analysis.
* Percentages are not calculated if < 100 records are available for analysis after exclusions.

Table 3C
2013 Pediatric Nutrition Surveillance (1)
Michigan
Summary of Breastfeeding Indicators (2)
Children Aged < 5 Years

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Run Date: 04/24/2014

| | Michigan Prevalance | | National Prevalance (Prior Year) | |
|---|------------------------|------|--|------|
| | Number | % | Number | % |
| Bareastfeeding Duration (4,5) | | | | |
| Ever Brestfed | 59,096 | 62.3 | 123,543 | 65.6 |
| Breastfed 1+ Weeks | 50,859 | 58.0 | 105,293 | 63.3 |
| Breastfed 2+ Weeks | 41,781 | 53.1 | 80,856 | 63.7 |
| Breastfed 3+ Weeks | 37,444 | 47.5 | 67,767 | 61.6 |
| Breastfed 4+ Weeks | 35,634 | 42.9 | 60,909 | 58.6 |
| Breastfed 6+ Weeks | 34,997 | 35.2 | 52,756 | 51.0 |
| Breastfed 2+ Months | 36,470 | 31.5 | 49,479 | 45.8 |
| Breastfed 3+ Months | 40,367 | 25.6 | 52,731 | 37.7 |
| Breastfed 4+ Months | 44,658 | 21.7 | 58,820 | 31.3 |
| Breastfed 5+ Months | 49,274 | 19.2 | 64,885 | 27.0 |
| Breastfed 6+ Months | 46,002 | 17.7 | 63,950 | 24.9 |
| Breastfed 9+ Months | 35,332 | 12.6 | 60,845 | 18.1 |
| Breastfed 12+ Months | 40,663 | 9.2 | 70,117 | 12.0 |
| Breastfed 18+ Months | 27,875 | 3.9 | 46,665 | 5.1 |
| Exclusive Breastfeeding (6) | | | | |
| Exclusively Breastfed at Least 3 Months | 38,235 | 12.7 | 44,475 | 20.0 |
| Exclusively Breastfed at Least 6 Months | 42,178 | 6.7 | 54,601 | 11.0 |

(1) Reporting period is January 1 through December 31.
(2) Analyses based on one record per child.
(3) Excludes records with unknown data or errors.
(4) Infants born during the reporting period included in the Ever Breastfed analysis. For each breastfeeding duration category, the analysis includes only children who turned that age during the reporting period by/on their date of visit. For example, infants who turned 9 months old during the reporting period by/on their date of visit are included in the 9+ months analysis.
(5) It is possible the analysis will show that slightly more infants are breastfed at older ages, e.g. 1+ week of age, than at younger ages, e.g. at birth (ever breastfed), due to variation in infants included in each breastfeeding analysis category.
(6) The analysis includes infants who were ever breastfed and who turned that age during the reporting period by/on their date of visit.
* Percentages are not calculated if < 100 records are available for analysis after exclusions.

| Comparison of Racial and Ethnic Distribution | | | | | | | | |
|--|-----------------------------------|---------------------------------|---------------------------------|-------------------|--|------------------------------------|-------------------------|---------------------------------|
| | Number Included in Analysis | White, Not Hispanic % | Black, Not Hispanic % | Hispanic % | American Indian/Alaska Native % | Asian/Pacific Islander % | Multiple Races % | All Other / Unknown % |
| Michigan | 253,913 | 49.7 | 26.8 | 13.6 | 0.3 | 1.6 | 7.9 | 0.1 |
| Nation (Prior Year) | 553,966 | 50.8 | 21.8 | 17.8 | 0.5 | 2.5 | 6.6 | 0.0 |

(1) Reporting period is January 1 through December 31.
(2) Analyses based on one record per child.
(3) Excludes records with errors.
* Percentages are not calculated if < 100 records are available for analysis after exclusions.

Table 5C
2013 Pediatric Nutrition Surveillance (1)
Michigan
Comparison of Age Distribution by Contributor to Nation
Children Aged < 5 Years (2)

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| Comparison of Age Distribution | | | | |
|--------------------------------|--------------------------------------|--------------------|---------------------|---------------------|
| Contributor | Number Included in Analysis (3,4) | 0 - 11 Months % | 12 - 23 Months % | 24 - 59 Months % |
| Michigan | 253,913 | 31.3 | 23.8 | 44.9 |
| Nation (Prior Year) | 553,966 | 32.8 | 21.0 | 46.2 |

(1) Reporting period is January 1 through December 31.
(2) Analyses based on one record per child.
(3) Excludes records with unknown data or errors.
(4) Records rejected if date of birth and date of visit unknown.
* Percentages are not calculated if < 100 records are available for analysis after exclusions.

Table 6C
2013 Pediatric Nutrition Surveillance (1)
Michigan
Comparison of Growth and Anemia Indicators by Contributor to Nation
Children Aged < 5 Years (2)

| Comparison of Growth and Anemia Indicators by Contributor to Nation (3) | | | | | | | | | | | | |
|---|------------------|--------------|--------------|-------------------------|------------------|-------|-------------------------------------|---------|-----------------|------------|-----------------------------|------|
| | Birth Weight (4) | | | Height and Weight (5,6) | | | | | | | Anemia Low Hb/Hct (7) | |
| | Low | High | | Short Stature | Under- Weight | Obese | >= 2 Yrs Overweight and obese | | | | | |
| | Number | % <2500 g | % >4000 g | Number | % | % | % | Number | % Overweight | % Obese | Number | % |
| Michigan | 58,430 | 9.6 | 6.9 | 247,265 | 5.7 | 2.4 | 11.0 | 109,600 | 16.8 | 14.1 | 163,703 | 17.5 |
| Nation (Prior Year) | 129,513 | 9.2 | 7.0 | 249,036 | 5.8 | 2.9 | 10.7 | 112,234 | 16.4 | 13.8 | 330,815 | 14.8 |

(1) Reporting period is January 1 through December 31.
(2) Analyses based on one record per child.
(3) Excludes records with unknown data or errors.
(4) Infants born during the reporting period included in the analysis.
(5) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age <= 2.3rd percentile, underweight is defined as weight-for-length <= 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as >= 97.7th percentile.
(6) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age >= 85th to < 95th percentile, and obesity is defined as >= 95th percentile.
(7) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.
* Percentages and ranks are not calculated if < 100 records are available for analysis after exclusions.

Table 7C
2013 Pediatric Nutrition Surveillance ⁽¹⁾
Michigan

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Comparison of Breastfeeding, TV Viewing, and Smoking in Household by Contributor to Nation ⁽²⁾
Children Aged < 5 Years ⁽³⁾

| Comparison of Breastfeeding, TV Viewing, and Smoking in Household (4) | | | | | | | | | | | | | | |
|---|-------------------|-------------------------|--------|---|--------|---|-----------------------------|---|--------|--|------------------------------|------|----------------------|------|
| | Breastfeeding (5) | | | | | | Exclusive Breastfeeding (6) | | | | >=2 Hours TV Viewing/Day (7) | | Smoking in Household | |
| Contributor | Number | % Ever Breastfeed | Number | % Breastfeed At Least 6 Months | Number | % Breastsfeed At Least 12 Months | Number | % Breastfeed At Least 3 Months | Number | % Breatfeed At Least 6 Months | Number | % | Number | % |
| Michigan | 59,096 | 62.3 | 46,002 | 17.7 | 40,663 | 9.2 | 38,235 | 12.7 | 42,178 | 6.7 | 121,357 | 84.4 | 251,786 | 5.2 |
| Nation (Prior Year) | 123,543 | 65.6 | 63,950 | 24.9 | 70,117 | 12.0 | 44,475 | 20.0 | 54,601 | 11.0 | 235,671 | 81.6 | 521,885 | 12.2 |

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

(2) TV Viewing and Smoking in Household data are not reported by all contributors.

(3) Analyses based on one record per child.

(4) Excludes records with unknown data or errors.

(5) Infants born during the reporting period included in the Ever Breastfed analysis. Infants who turned 6 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 6 Months analysis. Children who turned 12 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 12 Months analysis.

(6) The analysis includes infants who were ever breastfed and who turned that age during the reporting period by/on their date of visit.

(7) Children aged 2 years and older included in the analyses.

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

Table 8C
2013 Pediatric Nutrition Surveillance (1)
Michigan
Growth and Anemia Indicators by Race/Ethnicity or Age
Children Aged < 5 Years (2)

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Run Date: 03/18/2014

| Growth and Anemia Indicators by Race/Ethnicity or Age (3) | | | | | | | | | | | | |
|---|-----------------|--------------|--------------|-------------------------|------------------|------------------|-------|---------|------------------------------------|-----------------------------|---------|------|
| | Birthweight (4) | | | Height and Weight (5,6) | | | | | | Anemia Low Hb/Hct (7) | | |
| | | Low | High | | Short Stature | Under- weight | Obese | | >=2 Yrs Overweight and Obese | | | |
| | Number | % <2500 g | % >4000 g | Number | % | % | % | Number | % Overweight | % Obese | Number | % |
| Race Ethnicity | | | | | | | | | | | | |
| White, Not Hispanic | 28,825 | 8.2 | 8.6 | 123,080 | 5.7 | 2.1 | 10.7 | 54,015 | 17.3 | 13.6 | 81,396 | 12.8 |
| Black, Not Hispanic | 17,015 | 13.1 | 3.7 | 66,248 | 6.0 | 3.2 | 9.5 | 28,266 | 14.7 | 11.6 | 42,502 | 28.3 |
| Hispanic | 6,946 | 7.3 | 8.0 | 33,472 | 5.6 | 1.6 | 14.8 | 16,229 | 19.2 | 19.5 | 23,502 | 15.1 |
| American Indian/Alaska Native | 157 | 5.1 | 12.7 | 673 | 5.2 | 2.2 | 18.3 | 292 | 21.9 | 22.9 | 419 | 17.7 |
| Asian/Pacific Islander | 957 | 9.4 | 3.9 | 4,052 | 6.0 | 3.6 | 8.7 | 1,831 | 13.0 | 12.4 | 2,777 | 15.7 |
| Multiple Races | 4,427 | 9.2 | 7.6 | 19,489 | 5.1 | 2.1 | 12.2 | 8,910 | 17.4 | 15.4 | 13,026 | 16.4 |
| All Other | 13 | * | * | 48 | * | * | * | 24 | * | * | 33 | * |
| Total | 58,430 | 9.6 | 6.9 | 247,265 | 5.7 | 2.4 | 11.0 | 109,600 | 16.8 | 14.1 | 163,703 | 17.5 |
| Age | | | | | | | | | | | | |
| 0 - 11 Months | 0 | * | * | 77,596 | 8.8 | 3.4 | 6.8 | 0 | * | * | 10,318 | 22.7 |
| 12 - 23 Months | 0 | * | * | 60,058 | 6.0 | 0.5 | 12.1 | 0 | * | * | 58,116 | 20.1 |
| 24 - 35 Months | 0 | * | * | 40,435 | 3.6 | 2.6 | 11.6 | 40,426 | 16.2 | 12.0 | 36,061 | 18.2 |
| 36 - 47 Months | 0 | * | * | 34,696 | 3.2 | 2.8 | 13.8 | 34,694 | 16.8 | 14.6 | 32,684 | 14.6 |
| 48 - 59 Months | 0 | * | * | 34,480 | 3.1 | 2.5 | 15.0 | 34,480 | 17.6 | 16.0 | 26,524 | 12.5 |
| Total | 0 | * | * | 247,265 | 5.7 | 2.4 | 11.0 | 109,600 | 16.8 | 14.1 | 163,703 | 17.5 |

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

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Infants born during the reporting period included in the analysis.

(5) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age <= 2.3rd percentile, underweight is defined as weight-for-length <= 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as >= 97.7th percentile.

(6) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age >= 85th to < 95th percentile, and obesity is defined as >= 95th percentile.

(7) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

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

Table 9C
2013 Pediatric Nutrition Surveillance (1)
Michigan

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Run Date: 03/27/2014

Breastfeeding, TV Viewing, and Smoking in Household by Race/Ethnicity or Age (2)
Children Aged < 5 Years (3)

| Breastfeeding, TV Viewing, and Smoking in Household by Race/Ethnicity or Age ⁽⁴⁾ | | | | | | | | | | |
|---|------------------------------|-------------------|---------------|--------------------------------|---------------|---|----------------|----------------------|----------------|------------|
| | Breastfeeding ⁽⁵⁾ | | | | | >=2 Hours TV Viewing/Day ⁽⁶⁾ | | Smoking in Household | | |
| | Number | % Ever Breastfeed | Number | % Breastfeed At Least 6 Months | Number | % Breatsfeed At Least 12 Months | Number | % | Number | % |
| Race/Ethnicity | | | | | | | | | | |
| White, Not Hispanic | 29,213 | 68.5 | 23,527 | 21.1 | 21,049 | 11.1 | 59,944 | 89.3 | 125,115 | 4.7 |
| Black, Not Hispanic | 17,129 | 49.2 | 12,439 | 11.0 | 10,252 | 4.8 | 30,975 | 74.2 | 67,430 | 7.3 |
| Hispanic | 7,043 | 67.2 | 5,607 | 17.6 | 5,422 | 9.4 | 18,155 | 85.3 | 34,285 | 2.3 |
| American Indian/Alaska Native | 165 | 58.8 | 123 | 23.6 | 112 | 12.5 | 325 | 85.2 | 687 | 8.4 |
| Asian/Pacific Islander | 972 | 72.2 | 738 | 35.5 | 682 | 24.6 | 2,027 | 82.3 | 4,161 | 1.0 |
| Multiple Races | 4,452 | 61.9 | 3,453 | 14.4 | 3,130 | 7.5 | 9,872 | 85.7 | 19,864 | 6.4 |
| All Other | 13 | * | 6 | * | 7 | * | 28 | * | 46 | * |
| Total | 59,096 | 62.3 | 46,002 | 17.7 | 40,663 | 9.2 | 121,357 | 84.4 | 251,786 | 5.2 |
| Age | | | | | | | | | | |
| 0 - 11 Months | 0 | * | 0 | * | 0 | * | 0 | * | 77,671 | 4.4 |
| 12 - 23 Months | 0 | * | 0 | * | 0 | * | 0 | * | 60,343 | 4.9 |
| 24 - 35 Months | 0 | * | 0 | * | 0 | * | 40,732 | 86.8 | 41,179 | 5.3 |
| 36 - 47 Months | 0 | * | 0 | * | 0 | * | 37,133 | 83.3 | 37,272 | 6.0 |
| 48 - 59 Months | 0 | * | 0 | * | 0 | * | 35,090 | 81.7 | 35,321 | 6.1 |
| Total | 59,096 | 62.3 | 46,002 | 17.7 | 40,663 | 9.2 | 121,357 | 84.4 | 251,786 | 5.2 |

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

(2) TV Viewing and Smoking in Household are not reported by all contributors.

(3) Analyses based on one record per child.

(4) Excludes records with unknown data or errors.

(5) Infants born during the reporting period included in the Ever Breastfed analysis. Infants who turned 6 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 6 Months analysis. Children who turned 12 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 12 Months analysis.

(6) Children aged 2 years and older included in the analysis

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

Table 10C
2013 Pediatric Nutrition Surveillance (1)
Michigan
Summary of Trends in Racial and Ethnic Distribution
Children Aged < 5 Years (2)

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Run Date: 03/18/2014

| Summary of Trends in Racial and Ethnic Distribution | | | | | | | | |
|---|-----------------------------------|---------------------------------|---------------------------------|-------------------|--|------------------------------------|----------------------------|----------------------------|
| Year | Number Included in Analysis | White, Not Hispanic % | Black, Not Hispanic % | Hispanic % | American Indian/Alaska Native % | Asian/Pacific Islander % | Multiple Races % | All Other/Unknown % |
| 2013 | 253,913 | 49.7 | 26.8 | 13.6 | 0.3 | 1.6 | 7.9 | 0.1 |
| 2012 | 257,024 | 50.4 | 26.2 | 13.7 | 0.3 | 1.6 | 7.8 | 0.1 |
| 2011 | 257,910 | 51.0 | 25.7 | 14.0 | 0.3 | 1.5 | 7.5 | 0.1 |
| 2010 | 259,641 | 51.5 | 25.4 | 14.2 | 0.2 | 1.4 | 7.2 | 0.1 |

(1) Reporting period is January 1 through December 31.
(2) Analyses based on one record per child.
(3) Excludes records with errors.
* Percentages are not calculated if < 100 records are available for analysis after exclusions.

Table 11C
2013 Pediatric Nutrition Surveillance (1)
Michigan
Summary of Trends in Age Distribution
Children Aged < 5 Years (2)

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| Summary of Trends in Age Distribution (3) | | | | |
|---|-----------------------------|--------------------|---------------------|---------------------|
| Year | Number Included in Analysis | 0 - 11 Months % | 12 - 23 Months % | 24 - 59 Months % |
| 2013 | 253,913 | 31.3 | 23.8 | 44.9 |
| 2012 | 257,024 | 33.4 | 21.0 | 45.6 |
| 2011 | 257,910 | 29.7 | 22.0 | 48.3 |
| 2010 | 259,641 | 29.9 | 22.8 | 47.3 |

(1) Reporting period is January 1 through December 31.
(2) Analyses based on one record per child.
(3) Records rejected if date of birth and date of visit unknown.
(4) Excludes records with unknown data or errors.
* Percentages are not calculated if < 100 records are available for analysis after exclusions.

Table 12C
2013 Pediatric Nutrition Surveillance (1)
Michigan
Summary of Trends in Growth and Anemia Indicators
Children Aged < 5 Years (2)

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Run Date: 03/18/2014

| Summary of Trends in Growth and Anemia Indicators (3) | | | | | | | | | | | | |
|---|-----------------|------|-----|-------------------------|------------------|-------|-------------------------------------|---------|-----------------|------------|-----------------------------|------|
| Year | Birthweight (4) | | | Height and Weight (5,6) | | | | | | | Anemia Low Hb/Hct (7) | |
| | Low | High | | Short Stature | Under- Weight | Obese | >= 2 Yrs Overweight and obese | | | | | |
| | Number | % | % | Number | % | % | % | Number | % Overweight | % Obese | Number | % |
| 2013 | 58,430 | 9.6 | 6.9 | 247,265 | 5.7 | 2.4 | 11.0 | 109,600 | 16.8 | 14.1 | 163,703 | 17.5 |
| 2012 | 58,707 | 9.7 | 7.1 | 249,036 | 5.8 | 2.9 | 10.7 | 112,234 | 16.4 | 13.8 | 164,326 | 16.1 |
| 2011 | 59,577 | 9.4 | 6.9 | 253,759 | 6.0 | 3.0 | 10.5 | 109,357 | 16.5 | 14.1 | 166,673 | 16.4 |
| 2010 | 59,684 | 9.4 | 6.9 | 254,272 | 5.9 | 3.2 | 10.9 | 109,884 | 16.5 | 14.2 | 146,487 | 15.1 |

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

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Infants born during the reporting period included in the analysis.

(5) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age <= 2.3rd percentile, underweight is defined as weight-for-length <= 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as >= 97.7th percentile.

(6) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age >= 85th to < 95th percentile, and obesity is defined as >= 95th percentile.

(7) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

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

Table 13C
2013 Pediatric Nutrition Surveillance (1)
Michigan
Summary of Trends in Breastfeeding
Children Aged < 5 Years (2)

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| Summary of Trends in Breastfeeding (3) | | | | | | |
|--|-------------------|-------------------|--------|--------------------------------|--------|---------------------------------|
| Year | Breastfeeding (4) | | | | | |
| | Number | % Ever Breastfeed | Number | % Breastfeed At Least 6 Months | Number | % Breatsfeed At Least 12 Months |
| 2013 | 59,096 | 62.3 | 46,002 | 17.7 | 40,663 | 9.2 |
| 2012 | 59,352 | 60.9 | 42,948 | 19.1 | 39,324 | 9.5 |
| 2011 | 60,153 | 59.5 | 46,409 | 18.4 | 41,436 | 8.5 |
| 2010 | 60,362 | 56.1 | 40,557 | 18.9 | 34,172 | 9.1 |

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

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Infants born during the reporting period included in the Ever Breastfed analysis. Infants who turned 6 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 6 Months analysis. Children who turned 12 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 12 Months analysis.

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

Growth Indicators by Race/Ethnicity or Age

Childer Aged <5 Years (2)

| Growth Indicators by Race/Ethnicity and Age (3) | | | | | | | | |
|---|---------------------|------------|-------------------|------------|----------------|-------------|-------------------------------------|---------------------------------|
| | Short Stature (4,5) | | Underweight (4,5) | | Obese (4,5) | | >= 2 Yrs Overweight and obese (4,5) | |
| | Number | % | Number | % | Number | % | Number | % Overweight % Obese |
| White, Not Hispanic | | | | | | | | |
| 0 - 11 Months | 38,736 | 8.4 | 38,736 | 3.2 | 38,736 | 6.6 | 0 | * * |
| 12 - 23 Months | 30,329 | 5.7 | 30,329 | 0.4 | 30,329 | 11.8 | 0 | * * |
| 24 - 59 Months | 53,601 | 3.7 | 53,601 | 2.3 | 53,601 | 13.0 | 53,601 | 17.3 13.6 |
| Total | 122,666 | 5.7 | 122,666 | 2.1 | 122,666 | 10.7 | 53,601 | 17.3 13.6 |
| Black, Not Hispanic | | | | | | | | |
| 0 - 11 Months | 22,941 | 9.9 | 22,941 | 4.2 | 22,941 | 6.6 | 0 | * * |
| 12 - 23 Months | 15,041 | 6.2 | 15,041 | 0.7 | 15,041 | 10.9 | 0 | * * |
| 24 - 59 Months | 28,032 | 2.7 | 28,032 | 3.8 | 28,032 | 11.0 | 28,032 | 14.7 11.6 |
| Total | 66,014 | 6.0 | 66,014 | 3.2 | 66,014 | 9.4 | 28,032 | 14.7 11.6 |
| Hispanic | | | | | | | | |
| 0 - 11 Months | 9,257 | 8.2 | 9,257 | 2.8 | 9,257 | 8.6 | 0 | * * |
| 12 - 23 Months | 7,986 | 6.9 | 7,986 | 0.3 | 7,986 | 15.3 | 0 | * * |
| 24 - 59 Months | 16,097 | 3.5 | 16,097 | 1.5 | 16,097 | 18.1 | 16,097 | 19.2 19.4 |
| Total | 33,340 | 5.6 | 33,340 | 1.6 | 33,340 | 14.8 | 16,097 | 19.2 19.4 |
| American Indian/Alaska Native | | | | | | | | |
| 0 - 11 Months | 216 | 7.9 | 216 | 3.2 | 216 | 7.9 | 0 | * * |
| 12 - 23 Months | 165 | 7.3 | 165 | 0.6 | 165 | 24.2 | 0 | * * |
| 24 - 59 Months | 288 | 2.1 | 288 | 2.4 | 288 | 22.6 | 288 | 21.9 22.9 |
| Total | 669 | 5.2 | 669 | 2.2 | 669 | 18.2 | 288 | 21.9 22.9 |

(1) Reporting period is January 1 through December 31.
(2) Analyses based on one record per child.
(3) Excludes records with unknown data or errors.
(4) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age <= 2.3rd percentile, underweight is defined as weight-for-length <= 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as >= 97.7th percentile.
(5) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age >= 85th to < 95th percentile, and obesity is defined as >= 95th percentile.
* Percentages are not calculated if < 100 records are available for analysis after exclusions.

Table 16C
2013 Pediatric Nutrition Surveillance (1)
Michigan

Growth Indicators by Race/Ethnicity or Age

Childer Aged <5 Years (2)

| Growth Indicators by Race/Ethnicity and Age (3) | | | | | | | | | |
|--|------------------------|------------|----------------------|------------|----------------|-------------|--|-----------------|-------------|
| | Short Stature (4,5) | | Underweight (4,5) | | Obese (4,5) | | >= 2 Yrs Overweight and obese (4,5) | | |
| | Number | % | Number | % | Number | % | Number | % Overweight | % Obese |
| Asian/Pacific Islander | | | | | | | | | |
| 0 - 11 Months | 1,278 | 8.2 | 1,278 | 3.6 | 1,278 | 5.9 | 0 | * | * |
| 12 - 23 Months | 943 | 5.8 | 943 | 1.0 | 943 | 6.7 | 0 | * | * |
| 24 - 59 Months | 1,818 | 4.6 | 1,818 | 5.0 | 1,818 | 11.7 | 1,835 | 12.9 | 12.3 |
| Total | 4,039 | 6.0 | 4,039 | 3.6 | 4,039 | 8.7 | 1,818 | 13.0 | 12.4 |
| Multiple Races | | | | | | | | | |
| 0 - 11 Months | 5,875 | 8.6 | 5,875 | 2.8 | 5,875 | 7.5 | 0 | * | * |
| 12 - 23 Months | 4,704 | 5.4 | 4,704 | 0.4 | 4,704 | 13.6 | 0 | * | * |
| 24 - 59 Months | 8,839 | 2.5 | 8,839 | 2.5 | 8,839 | 14.5 | 8,839 | 0.2 | 15.3 |
| Total | 19,418 | 5.1 | 19,418 | 2.1 | 19,418 | 12.2 | 8,839 | 0.2 | 15.3 |
| All Other/Unknown | | | | | | | | | |
| 0 - 11 Months | 13 | * | 13 | * | 13 | * | 0 | * | * |
| 12 - 23 Months | 11 | * | 11 | * | 11 | * | 0 | * | * |
| 24 - 59 Months | 24 | * | 24 | * | 24 | * | 24 | * | * |
| Total | 48 | * | 48 | * | 48 | * | 24 | * | * |
| Total All Race/Ethnic Groups | | | | | | | | | |
| 0 - 11 Months | 78,470 | 8.8 | 78,470 | 3.4 | 78,470 | 6.9 | 0 | * | * |
| 12 - 23 Months | 59,195 | 6.0 | 59,195 | 0.5 | 59,195 | 12.1 | 0 | * | * |
| 24 - 59 Months | 108,732 | 3.3 | 108,732 | 2.6 | 108,732 | 13.4 | 108,732 | 16.8 | 14.1 |
| Total | 246,397 | 5.7 | 246,397 | 2.4 | 246,397 | 11.0 | 108,732 | 16.8 | 14.1 |

(1) Reporting period is January 1 through December 31.
(2) Analyses based on one record per child.
(3) Excludes records with unknown data or errors.
(4) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age <= 2.3rd percentile, underweight is defined as weight-for-length <= 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as >= 97.7th percentile.
(5) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age >= 85th to < 95th percentile, and obesity is defined as >= 95th percentile.
* Percentages are not calculated if < 100 records are available for analysis after exclusions.

Table 17C
2013 Pediatric Nutrition Surveillance (1)
Michigan
Anemia Indicators by Race/Ethnicity and Age (2)
Children Aged < 5 Years

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| Anemia Indicators by Race/Ethnicity and Age (3,4) | | | | | |
|---|---------------|---------------------------|------------------------------|----------------|---------------------------|
| | Number | Anemia Low Hb/Hct % | | Number | Anemia Low Hb/Hct % |
| White, Not Hispanic | | | Asian/Pacific Islander | | |
| 6 - 11 Months | 4,715 | 18.0 | 6 - 11 Months | 193 | 23.8 |
| 12 - 17 Months | 18,961 | 17.5 | 12 - 17 Months | 577 | 20.6 |
| 18 - 23 Months | 10,883 | 12.9 | 18 - 23 Months | 346 | 15.9 |
| 24 - 35 Months | 17,909 | 12.5 | 24 - 35 Months | 613 | 14.8 |
| 36 - 59 Months | 28,907 | 9.1 | 36 - 59 Months | 1,047 | 11.7 |
| Total | 81,375 | 12.8 | Total | 2,776 | 15.6 |
| Black, Not Hispanic | | | Multiple Races | | |
| 6 - 11 Months | 3,327 | 30.7 | 6 - 11 Months | 750 | 21.2 |
| 12 - 17 Months | 8,902 | 31.2 | 12 - 17 Months | 2,837 | 19.4 |
| 18 - 23 Months | 5,710 | 29.4 | 18 - 23 Months | 1,802 | 17.7 |
| 24 - 35 Months | 9,306 | 31.2 | 24 - 35 Months | 2,873 | 16.5 |
| 36 - 59 Months | 15,246 | 23.9 | 36 - 59 Months | 4,760 | 13.2 |
| Total | 42,491 | 28.3 | Total | 13,022 | 16.4 |
| Hispanic | | | All Other/Unknown | | |
| 6 - 11 Months | 1,263 | 19.7 | 0 - 11 Months | 4 | * |
| 12 - 17 Months | 4,850 | 19.7 | 12 - 17 Months | 10 | * |
| 18 - 23 Months | 3,059 | 16.0 | 18 - 23 Months | 17 | * |
| 24 - 35 Months | 5,246 | 15.7 | 24 - 35 Months | 22 | * |
| 36 - 59 Months | 9,078 | 11.3 | 36 - 59 Months | 28 | * |
| Total | 23,496 | 15.1 | Total | 81 | * |
| American Indian/Alaska Native | | | Total All Race/Ethnic Groups | | |
| 6 - 11 Months | 22 | * | 6 - 11 Months | 10,274 | 22.7 |
| 12 - 17 Months | 107 | 21.5 | 12 - 17 Months | 36,244 | 21.4 |
| 18 - 23 Months | 55 | * | 18 - 23 Months | 21,872 | 18.1 |
| 24 - 35 Months | 92 | * | 24 - 35 Months | 36,061 | 18.2 |
| 36 - 59 Months | 142 | 14.1 | 36 - 59 Months | 59,208 | 13.6 |
| Total | 418 | 17.7 | Total | 163,659 | 17.5 |

(1) Reporting period is January 1 through December 31.
(2) Analyses based on one record per child.
(3) Excludes records with unknown data or errors.
(4) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.
* Percentages are not calculated if < 100 records are available for analysis after exclusions

Table 18C
2013 Pediatric Nutrition Surveillance (1)
Michigan

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Summary Trends in Growth and Anemia Indicators by Race/Ethnicity
Children Aged < 5 Years (2)

| Summary Trends in Growth and Anemia Indicators by Race/Ethnicity (3) | | | | | | | | | | | | | |
|--|------|-----------------|------|------|-------------------------|-----|------------------|-------|------------------------------------|------|------|-----------------------------|------|
| Race/Ethnicity and Year | | Birthweight (4) | | | Height and Weight (5,6) | | | | | | | Anemia Low Hb/Hct (7) | |
| | | Low | | High | Short Stature | | Under- weight | Obese | >=2 Yrs Overweight and Obese | | | | |
| | | Number | % | % | Number | % | % | % | Number | % | % | Number | % |
| White, Not Hispanic | 2013 | 28,825 | 8.2 | 8.6 | 123,080 | 5.7 | 2.1 | 10.7 | 54,015 | 17.3 | 13.6 | 81,396 | 12.8 |
| | 2012 | 29,775 | 8.2 | 8.8 | 125,896 | 5.6 | 2.6 | 10.2 | 56,207 | 16.8 | 13.2 | 82,408 | 11.7 |
| | 2011 | 30,433 | 7.8 | 8.4 | 129,736 | 5.8 | 2.7 | 10.0 | 55,921 | 16.9 | 13.5 | 84,905 | 12.0 |
| | 2010 | 30,392 | 7.7 | 8.5 | 131,192 | 5.7 | 2.9 | 10.2 | 56,688 | 16.8 | 13.2 | 73,483 | 11.1 |
| Black, Not Hispanic | 2013 | 17,015 | 13.1 | 3.7 | 66,248 | 6.0 | 3.2 | 9.5 | 28,266 | 14.7 | 11.6 | 42,502 | 28.3 |
| | 2012 | 16,431 | 13.6 | 3.7 | 65,053 | 6.4 | 4.0 | 9.2 | 28,218 | 14.2 | 11.2 | 41,753 | 26.0 |
| | 2011 | 16,626 | 13.6 | 4.0 | 64,892 | 6.8 | 4.1 | 9.2 | 26,359 | 13.9 | 11.3 | 41,189 | 26.7 |
| | 2010 | 16,599 | 13.6 | 3.8 | 64,332 | 6.9 | 4.3 | 9.9 | 26,065 | 13.9 | 11.8 | 37,174 | 24.2 |

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

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Infants born during the reporting period included in the analysis.

(5) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age <= 2.3rd percentile, underweight is defined as weight-for-length <= 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as >= 97.7th percentile.

(6) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age >= 85th to < 95th percentile, and obesity is defined as >= 95th percentile.

(7) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

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

Table 18C
2013 Pediatric Nutrition Surveillance (1)
Michigan
Summary Trends in Growth and Anemia Indicators by Race/Ethnicity
Children Aged < 5 Years (2)

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| Summary Trends in Growth and Anemia Indicators by Race/Ethnicity (3) | | | | | | | | | | | | | |
|--|------|-----------------|-----|------|-------------------------|-----|------------------|-------|------------------------------------|------|------|-----------------------------|------|
| Race/Ethnicity and Year | | Birthweight (4) | | | Height and Weight (5,6) | | | | | | | Anemia Low Hb/Hct (7) | |
| | | Low | | High | Short Stature | | Under- weight | Obese | >=2 Yrs Overweight and Obese | | | | |
| | | Number | % | % | Number | % | % | % | Number | % | % | Number | % |
| Hispanic | 2013 | 6,946 | 7.3 | 8.0 | 33,472 | 5.6 | 1.6 | 14.8 | 16,229 | 19.2 | 19.5 | 23,502 | 15.1 |
| | 2012 | 7,156 | 7.2 | 8.0 | 34,008 | 5.6 | 1.9 | 14.5 | 16,744 | 18.5 | 19.7 | 24,009 | 14.4 |
| | 2011 | 7,286 | 7.3 | 7.5 | 35,522 | 5.4 | 2.0 | 14.6 | 16,759 | 19.2 | 20.0 | 24,943 | 14.8 |
| | 2010 | 7,399 | 7.2 | 7.3 | 36,104 | 5.2 | 2.3 | 14.6 | 17,424 | 19.0 | 20.0 | 22,724 | 13.3 |
| American Indian/Alaska Native | 2013 | 157 | 5.1 | 12.7 | 673 | 5.2 | 2.2 | 18.3 | 292 | 21.9 | 22.9 | 419 | 17.7 |
| | 2012 | 159 | 6.3 | 15.7 | 701 | 5.0 | 2.4 | 15.0 | 300 | 22.0 | 17.3 | 415 | 14.5 |
| | 2011 | 153 | 5.2 | 13.1 | 695 | 4.2 | 1.6 | 16.1 | 317 | 21.8 | 22.1 | 420 | 16.0 |
| | 2010 | 160 | 5.6 | 11.9 | 608 | 6.6 | 2.5 | 17.6 | 246 | 20.3 | 20.7 | 307 | 11.4 |

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

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Infants born during the reporting period included in the analysis.

(5) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age <= 2.3rd percentile, underweight is defined as weight-for-length <= 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as >= 97.7th percentile.

(6) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age >= 85th to < 95th percentile, and obesity is defined as >= 95th percentile.

(7) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

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

Table 18C
2013 Pediatric Nutrition Surveillance (1)
Michigan

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Summary Trends in Growth and Anemia Indicators by Race/Ethnicity
Children Aged < 5 Years (2)

| Summary Trends in Growth and Anemia Indicators by Race/Ethnicity (3) | | | | | | | | | | | | | |
|--|------|-----------------|------|------|-------------------------|-----|------------------|-------|------------------------------------|------|------|-----------------------------|------|
| Race/Ethnicity and Year | | Birthweight (4) | | | Height and Weight (5,6) | | | | | | | Anemia Low Hb/Hct (7) | |
| | | Low | | High | Short Stature | | Under- weight | Obese | >=2 Yrs Overweight and Obese | | | | |
| | | Number | % | % | Number | % | % | % | Number | % | % | Number | % |
| Asian/Pacific Islander | 2013 | 957 | 9.4 | 3.9 | 4,052 | 6.0 | 3.6 | 8.7 | 1,831 | 13.0 | 12.4 | 2,777 | 15.7 |
| | 2012 | 918 | 11.5 | 3.8 | 3,887 | 6.8 | 4.7 | 8.3 | 1,797 | 13.6 | 11.7 | 2,637 | 15.0 |
| | 2011 | 840 | 9.4 | 2.7 | 3,713 | 7.1 | 4.1 | 9.0 | 1,582 | 13.1 | 12.8 | 2,501 | 16.0 |
| | 2010 | 874 | 9.4 | 5.3 | 3,676 | 7.2 | 4.8 | 8.7 | 1,563 | 13.3 | 12.0 | 2,194 | 15.5 |
| Multiple Races | 2013 | 4,427 | 9.2 | 7.6 | 19,489 | 5.1 | 2.1 | 12.2 | 8,910 | 17.4 | 15.4 | 13,026 | 16.4 |
| | 2012 | 4,208 | 9.7 | 7.2 | 19,357 | 5.2 | 2.4 | 12.0 | 8,945 | 17.2 | 15.2 | 13,074 | 14.8 |
| | 2011 | 4,180 | 9.0 | 7.1 | 19,065 | 5.2 | 2.8 | 11.7 | 8,399 | 17.1 | 15.4 | 12,684 | 15.9 |
| | 2010 | 4,205 | 8.7 | 7.2 | 18,225 | 5.3 | 3.0 | 12.7 | 7,877 | 17.0 | 16.0 | 10,575 | 14.4 |

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

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Infants born during the reporting period included in the analysis.

(5) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age <= 2.3rd percentile, underweight is defined as weight-for-length <= 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as >= 97.7th percentile.

(6) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age >= 85th to < 95th percentile, and obesity is defined as >= 95th percentile.

(7) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

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

Table 18C
2013 Pediatric Nutrition Surveillance (1)
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Summary Trends in Growth and Anemia Indicators by Race/Ethnicity
Children Aged < 5 Years (2)

| Summary Trends in Growth and Anemia Indicators by Race/Ethnicity (3) | | | | | | | | | | | | | |
|--|------|-----------------|-----|------|-------------------------|-----|------------------|-------|------------------------------------|------|------|-----------------------------|------|
| Race/Ethnicity and Year | | Birthweight (4) | | | Height and Weight (5,6) | | | | | | | Anemia Low Hb/Hct (7) | |
| | | Low | | High | Short Stature | | Under- weight | Obese | >=2 Yrs Overweight and Obese | | | | |
| | | Number | % | % | Number | % | % | % | Number | % | % | | |
| All Other/Unknown | 2013 | 103 | 9.7 | 9.7 | 251 | 5.6 | 1.6 | 9.2 | 57 | * | * | 81 | * |
| | 2012 | 60 | * | * | 134 | 6.7 | 1.5 | 12.7 | 23 | * | * | 30 | * |
| | 2011 | 59 | * | * | 136 | 8.1 | 1.5 | 12.5 | 20 | * | * | 31 | * |
| | 2010 | 55 | * | * | 135 | 5.2 | 1.5 | 11.1 | 21 | * | * | 30 | * |
| Total All Race/Ethnic Groups | 2013 | 58,430 | 9.6 | 6.9 | 247,265 | 5.7 | 2.4 | 11.0 | 109,600 | 16.8 | 14.1 | 163,703 | 17.5 |
| | 2012 | 58,707 | 9.7 | 7.1 | 249,036 | 5.8 | 2.9 | 10.7 | 112,234 | 16.4 | 13.8 | 164,326 | 16.1 |
| | 2011 | 59,577 | 9.4 | 6.9 | 253,759 | 6.0 | 3.0 | 10.5 | 109,357 | 16.5 | 14.1 | 166,673 | 16.4 |
| | 2010 | 59,684 | 9.4 | 6.9 | 254,272 | 5.9 | 3.2 | 10.9 | 109,884 | 16.5 | 14.2 | 146,487 | 15.1 |

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

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Infants born during the reporting period included in the analysis.

(5) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age <= 2.3rd percentile, underweight is defined as weight-for-length <= 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as >= 97.7th percentile.

(6) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age >= 85th to < 95th percentile, and obesity is defined as >= 95th percentile.

(7) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

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

Table 19C
2013 Pediatric Nutrition Surveillance (1)
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Summary Trends in Breastfeeding Indicators by Race/Ethnicity
Children Aged < 5 Years (2)

| Summary of Trends in Breastfeeding Indicators by Race/Ethnicity (3) | | | | | | | |
|--|------|-------------------|-------------------------|--------|---|--------|--|
| Race/Ethnicity and Year | | Breastfeeding (4) | | | | | |
| | | Number | % Ever Breastfeed | Number | % Breastfeed At Least 6 Months | Number | % Breastfeed At Least 12 Months |
| White, Not Hispanic | 2013 | 29,213 | 68.5 | 23,527 | 21.1 | 21,049 | 11.1 |
| | 2012 | 30,158 | 67.0 | 22,566 | 21.9 | 20,742 | 11.2 |
| | 2011 | 30,747 | 65.7 | 23,717 | 21.0 | 21,506 | 9.8 |
| | 2010 | 30,758 | 61.6 | 20,890 | 21.6 | 17,682 | 10.6 |
| Black, Not Hispanic | 2013 | 17,129 | 49.2 | 12,439 | 11.0 | 10,252 | 4.8 |
| | 2012 | 16,564 | 47.5 | 11,008 | 12.6 | 9,539 | 4.9 |
| | 2011 | 16,740 | 46.3 | 12,627 | 11.9 | 10,329 | 4.6 |
| | 2010 | 16,721 | 43.0 | 10,948 | 12.0 | 8,844 | 5.3 |

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

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Infants born during the reporting period included in the Ever Breastfed analysis. Infants who turned 6 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 6 Months analysis. Children who turned 12 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 12 Months analysis.

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

Table 19C
2013 Pediatric Nutrition Surveillance (1)
Michigan
Summary Trends in Breastfeeding Indicators by Race/Ethnicity
Children Aged < 5 Years (2)

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| Summary of Trends in Breastfeeding Indicators by Race/Ethnicity (3) | | | | | | | |
|---|------|-------------------|-------------------------|--------|---|--------|--|
| Race/Ethnicity and Year | | Breastfeeding (4) | | | | | |
| | | Number | % Ever Breastfeed | Number | % Breastfeed At Least 6 Months | Number | % Breastfeed At Least 12 Months |
| Hispanic | 2013 | 7,043 | 67.2 | 5,607 | 17.6 | 5,422 | 9.4 |
| | 2012 | 7,233 | 64.5 | 5,201 | 20.6 | 5,235 | 10.8 |
| | 2011 | 7,366 | 62.7 | 5,747 | 22.3 | 5,668 | 10.1 |
| | 2010 | 7,527 | 62.6 | 5,097 | 22.8 | 4,611 | 10.9 |
| American Indian/Alaska Native | 2013 | 165 | 58.8 | 123 | 23.6 | 112 | 12.5 |
| | 2012 | 162 | 67.3 | 136 | 16.2 | 106 | 11.3 |
| | 2011 | 167 | 57.5 | 127 | 18.9 | 107 | 10.3 |
| | 2010 | 163 | 57.7 | 101 | 22.8 | 93 | * |

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

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Infants born during the reporting period included in the Ever Breastfed analysis. Infants who turned 6 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 6 Months analysis. Children who turned 12 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 12 Months analysis.

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

Table 19C
2013 Pediatric Nutrition Surveillance (1)
Michigan
Summary Trends in Breastfeeding Indicators by Race/Ethnicity
Children Aged < 5 Years (2)

Page: 23
Run Date: 03/18/2014

| Summary of Trends in Breastfeeding Indicators by Race/Ethnicity (3) | | | | | | | |
|---|------|-------------------|-------------------------|--------|---|--------|--|
| Race/Ethnicity and Year | | Breastfeeding (4) | | | | | |
| | | Number | % Ever Breastfeed | Number | % Breastfeed At Least 6 Months | Number | % Breastfeed At Least 12 Months |
| Asian/Pacific Islander | 2013 | 972 | 72.2 | 738 | 35.5 | 682 | 24.6 |
| | 2012 | 928 | 71.9 | 619 | 37.0 | 595 | 22.7 |
| | 2011 | 868 | 69.4 | 674 | 35.3 | 643 | 22.4 |
| | 2010 | 891 | 62.7 | 592 | 32.9 | 507 | 20.3 |
| Multiple Races | 2013 | 4,452 | 61.9 | 3,453 | 14.4 | 3,130 | 7.5 |
| | 2012 | 4,239 | 60.6 | 3,351 | 15.8 | 3,096 | 7.7 |
| | 2011 | 4,198 | 58.7 | 3,456 | 14.9 | 3,176 | 6.5 |
| | 2010 | 4,233 | 55.2 | 2,874 | 15.5 | 2,424 | 6.6 |

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

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Infants born during the reporting period included in the Ever Breastfed analysis. Infants who turned 6 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 6 Months analysis. Children who turned 12 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 12 Months analysis.

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

Table 19C
2013 Pediatric Nutrition Surveillance (1)
Michigan
Summary Trends in Breastfeeding Indicators by Race/Ethnicity
Children Aged < 5 Years (2)

Page: 24
Run Date: 03/18/2014

| Summary of Trends in Breastfeeding Indicators by Race/Ethnicity (3) | | | | | | | |
|---|------|-------------------|-------------------------|--------|---|--------|--|
| Race/Ethnicity and Year | | Breastfeeding (4) | | | | | |
| | | Number | % Ever Breastfeed | Number | % Breastfeed At Least 6 Months | Number | % Breastfeed At Least 12 Months |
| All Other/Unknown | 2013 | 122 | 72.1 | 115 | 23.5 | 16 | * |
| | 2012 | 68 | * | 67 | * | 11 | * |
| | 2011 | 67 | * | 61 | * | 7 | * |
| | 2010 | 69 | * | 55 | * | 11 | * |
| Total All Race/Ethnic Groups | 2013 | 59,096 | 62.3 | 46,002 | 17.7 | 40,663 | 9.2 |
| | 2012 | 59,352 | 60.9 | 42,948 | 19.1 | 39,324 | 9.5 |
| | 2011 | 60,153 | 59.5 | 46,409 | 18.4 | 41,436 | 8.5 |
| | 2010 | 60,362 | 56.1 | 40,557 | 18.9 | 34,172 | 9.1 |

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

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Infants born during the reporting period included in the Ever Breastfed analysis. Infants who turned 6 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 6 Months analysis. Children who turned 12 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 12 Months analysis.

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

Table 20C
2013 Pediatric Nutrition Surveillance (1)
Michigan
Summary Trends in Growth Indicators by Age
Children Aged < 5 Years (2)

Page: 25
Run Date: 03/18/2014

| Summary of Trends in Growth Indicators by Age (3) | | | | | | | | | | | | | | | | | |
|---|------|----------------------------------|-----|-----|------|------------------------------|--------------|---------|----------------|------|----------------------------------|-----|-----|------|------------------------------|--------------|---------|
| Age and Year | | Height and Weight (4,5) | | | | | | | Age and Year | | Height and Weight (4,5) | | | | | | |
| | | Short Stature Under-weight Obese | | | | >=2 Yrs Overweight and Obese | | | | | Short Stature Under-weight Obese | | | | >=2 Yrs Overweight and Obese | | |
| | | Number | % | % | % | Number | % Overweight | % Obese | | | Number | % | % | % | Number | % Overweight | % Obese |
| 0 - 11 Months | 2013 | 77,596 | 8.8 | 3.4 | 6.8 | 0 | * | * | 24 - 35 Months | 2013 | 40,435 | 3.6 | 2.6 | 11.6 | 40,426 | 45.7 | 12.0 |
| | 2012 | 83,373 | 9.2 | 4.2 | 6.5 | 0 | * | * | | 2012 | 41,102 | 3.6 | 3.2 | 11.1 | 41,079 | 44.8 | 11.5 |
| | 2011 | 74,332 | 9.7 | 5.2 | 5.9 | 0 | * | * | | 2011 | 42,092 | 4.1 | 2.1 | 12.1 | 27,560 | 146.9 | 12.1 |
| | 2010 | 74,954 | 9.6 | 5.9 | 6.2 | 0 | * | * | | 2010 | 44,469 | 3.8 | 2.2 | 12.4 | 31,367 | 136.8 | 12.3 |
| | 2009 | 0 | * | * | * | 0 | * | * | | 2009 | 0 | * | * | * | 0 | * | * |
| | 2008 | 0 | * | * | * | 0 | * | * | | 2008 | 0 | * | * | * | 0 | * | * |
| | 2007 | 0 | * | * | * | 0 | * | * | | 2007 | 0 | * | * | * | 0 | * | * |
| | 2006 | 0 | * | * | * | 0 | * | * | | 2006 | 0 | * | * | * | 0 | * | * |
| | 2005 | 0 | * | * | * | 0 | * | * | | 2005 | 0 | * | * | * | 0 | * | * |
| | 2004 | 0 | * | * | * | 0 | * | * | | 2004 | 0 | * | * | * | 0 | * | * |
| 2003 | 0 | * | * | * | 0 | * | * | 2003 | 0 | * | * | * | 0 | * | * | | |
| 12 - 23 Months | 2013 | 60,058 | 6.0 | 0.5 | 12.1 | 0 | * | * | 36 - 47 Months | 2013 | 34,696 | 3 | 2.8 | 13.8 | 34,694 | 53.2 | 14.6 |
| | 2012 | 53,397 | 5.8 | 0.3 | 12.1 | 0 | * | * | | 2012 | 35,311 | 3 | 3.2 | 13.7 | 35,304 | 52.1 | 14.5 |
| | 2011 | 56,493 | 6.4 | 0.7 | 10.8 | 0 | * | * | | 2011 | 39,177 | 3 | 3.1 | 13.0 | 39,175 | 103.3 | 13.8 |
| | 2010 | 58,919 | 6.3 | 0.7 | 11.7 | 0 | * | * | | 2010 | 38,045 | 3 | 3.2 | 13.4 | 38,035 | 112.9 | 14.2 |
| | 2009 | 0 | * | * | * | 0 | * | * | | 2009 | 0 | * | * | * | 0 | * | * |
| | 2008 | 0 | * | * | * | 0 | * | * | | 2008 | 0 | * | * | * | 0 | * | * |
| | 2007 | 0 | * | * | * | 0 | * | * | | 2007 | 0 | * | * | * | 0 | * | * |
| | 2006 | 0 | * | * | * | 0 | * | * | | 2006 | 0 | * | * | * | 0 | * | * |
| | 2005 | 0 | * | * | * | 0 | * | * | | 2005 | 0 | * | * | * | 0 | * | * |
| | 2004 | 0 | * | * | * | 0 | * | * | | 2004 | 0 | * | * | * | 0 | * | * |
| 2003 | 0 | * | * | * | 0 | * | * | 2003 | 0 | * | * | * | 0 | * | * | | |

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

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age <= 2.3rd percentile, underweight is defined as weight-for-length <= 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as >= 97.7th percentile.

(5) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age >= 85th to < 95th percentile, and obesity is defined as >= 95th percentile.

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

Table 20C
2013 Pediatric Nutrition Surveillance (1)
Michigan
Summary Trends in Growth Indicators by Age
Children Aged < 5 Years (2)

Page: 26

Run Date: 03/18/2014

| Summary of Trends in Growth Indicators by Age (3) | | | | | | | | |
|---|------|-------------------------|--------------|-------|------------------------------|---------|--------------|---------|
| Age and Year | | Height and Weught (4,5) | | | | | | |
| | | Short Stature | Under-weight | Obese | >=2 Yrs Overweight and Obese | | | |
| | | Number | % | % | % | Number | % Overweight | % Obese |
| 48 - 59 Months | 2013 | 34,480 | 3.1 | 2.5 | 15.0 | 34,480 | 53.6 | 16.0 |
| | 2012 | 35,851 | 2.9 | 2.9 | 14.7 | 35,849 | 51.3 | 15.8 |
| | 2011 | 41,665 | 3.2 | 2.9 | 14.7 | 41,665 | 97.1 | 15.9 |
| | 2010 | 37,883 | 3.0 | 3.0 | 14.9 | 37,879 | 113.3 | 15.9 |
| | 2009 | 0 | * | * | * | 0 | * | * |
| | 2008 | 0 | * | * | * | 0 | * | * |
| | 2007 | 0 | * | * | * | 0 | * | * |
| | 2006 | 0 | * | * | * | 0 | * | * |
| | 2005 | 0 | * | * | * | 0 | * | * |
| | 2004 | 0 | * | * | * | 0 | * | * |
| | 2003 | 0 | * | * | * | 0 | * | * |
| | | | | | | | | |
| Total All Age Groups | 2013 | 247,265 | 5.7 | 2.4 | 11.0 | 109,600 | 16.8 | 14.1 |
| | 2012 | 249,034 | 5.8 | 2.9 | 10.7 | 112,232 | 16.4 | 13.8 |
| | 2011 | 253,759 | 6.0 | 3.0 | 10.5 | 109,357 | 37.0 | 14.1 |
| | 2010 | 254,270 | 5.9 | 3.2 | 10.9 | 109,882 | 39.1 | 14.2 |
| | 2009 | 0 | * | * | * | 0 | * | * |
| | 2008 | 0 | * | * | * | 0 | * | * |
| | 2007 | 0 | * | * | * | 0 | * | * |
| | 2006 | 0 | * | * | * | 0 | * | * |
| | 2005 | 0 | * | * | * | 0 | * | * |
| | 2004 | 0 | * | * | * | 0 | * | * |
| | 2003 | 0 | * | * | * | 0 | * | * |
| | | | | | | | | |

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

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age <= 2.3rd percentile, underweight is defined as weight-for-length <= 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as >= 97.7th percentile.

(5) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age >= 85th to < 95th percentile, and obesity is defined as >= 95th percentile.

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

Table 21C
2013 Pediatric Nutrition Surveillance (1)
Michigan
Summary of Trends in Anemia by Age
Children Aged < 5 Years (2)

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Run Date: 05/05/2014

| Summary of Trends in Anemia by Age | | | | | | | | (3) |
|------------------------------------|------|--------------------------|------|--|----------------|------|--------------------------|------|
| Age and Year | | Anemia Low Hb/Hct (4) | | | Age and Year | | Anemia Low Hb/Hct (4) | |
| | | Number | % | | | | Number | % |
| 6 - 11 Months | 2013 | 10,274 | 22.7 | | 18 - 23 Months | 2013 | 21,872 | 18.1 |
| | 2012 | 13,542 | 20.5 | | | 2012 | 22,483 | 17.5 |
| | 2011 | 6,643 | 19.9 | | | 2011 | 21,439 | 18.8 |
| | 2010 | 6,281 | 18.8 | | | 2010 | 23,202 | 16.6 |
| 12 - 17 Months | 2013 | 36,244 | 21.4 | | 24 - 35 Months | 2013 | 36,061 | 18.2 |
| | 2012 | 29,481 | 19.9 | | | 2012 | 36,971 | 17.2 |
| | 2011 | 32,627 | 19.4 | | | 2011 | 37,192 | 18.7 |
| | 2010 | 30,537 | 18.6 | | | 2010 | 32,623 | 16.5 |

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

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States",
altitude adjusted, children 6 months of age and older included in the analysis.

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

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Run Date: 05/05/2014

- (1) Reporting period is January 1 through December 31.
- (2) Analyses based on one record per child.
- (3) Excludes records with unknown data or errors.
- (4) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

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