

WIC PNSS & PedNSS

Table 1C 2020 Pediatric Nutrition Surveillance ⁽¹⁾ Michigan Summary of Demographic Indicators Children Aged < 5 Years ^(2,3)

Total Records	Number
Individual Children	193,486
Total Records (All Visits)	271,227

Source of Data	Number	%
WIC	193,486	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	193,486	100.0
<i>Excluded Unknown</i>	<i>0</i>	<i>0.0 %</i>

Race/Ethnic Distribution	Number	%
White, Not Hispanic	90,197	46.6
Black, Not Hispanic	55,571	28.7
Hispanic	25,565	13.2
American Indian/Alaska Native	556	0.3
Asian/Pacific Islander	4,009	2.1
Multiple Races	17,421	9.0
All Other	86	0.0
Total	193,405	100.0
<i>Excluded Unknown</i>	<i>81</i>	<i>0.0 %</i>

Age Distribution ⁽⁴⁾	Number	%
0 - 5 Months	44,581	23.0
6 - 11 Months	18,459	9.5
12 - 23 Months	41,933	21.7
24 - 35 Months	32,562	16.8
3 - 4 Years	55,951	28.9
Total	193,486	100.0

% of Poverty Level	Number	%
0 - 50	79,815	41.5
51 - 100	54,417	28.3
101 - 130	23,434	12.2
131 - 150	11,701	6.1
151 - 185	13,776	7.2
186 - 200	2,217	1.2
Over 200	6,766	3.5
Adjunctive Eligibility	0	0.0
Total	192,126	100.0
<i>Excluded Unknown</i>	<i>1,360</i>	<i>0.7 %</i>

Program Participation	Number	%
WIC	193,486	100.0
SNAP	183,826	42.3
Medicaid	181,252	84.0
Tanf	184,115	3.4
Excluded Unknown		
WIC	0	0.0
SNAP	9,660	5.0
Medicaid	12,234	6.3
Tanf	9,371	4.8

Migrant Status	Number	%
Yes	1,248	0.6
No	192,238	99.4
Total	193,486	100.0
<i>Excluded Unknown</i>	<i>0</i>	<i>0.0 %</i>

(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

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Table 2C 2020 Pediatric Nutrition Surveillance (1) Michigan Summary of Health Indicators Children Aged < 5 Years (2)

Summary of Health Indicators (3)				
	Michigan Prevalence		National (10) Prevalence (Prior Year)	
	Number	%	Number	%
Birthweight				
Low	43,761	11.8	196,866	11.1
High	43,761	6.0	196,866	6.3
Height and Weight (5,6) (3)				
< 5 Yrs Short Stature	88,881	8.1	814,083	8.0
< 5 Yrs Underweight	88,881	5.3	814,083	2.9
< 5 Yrs Obese	88,881	10.4	814,083	11.1
>= 2 Yrs Overweight	33,397	15.8	345,562	15.9
>=2 Yrs Obese	33,397	14.2	345,562	13.5
Anemia (7)				
Low Hb	33,178	16.4	538,462	14.5
Low Hct	7	*	60	45.0
Low Hb/Hct	33,185	16.4	538,510	14.5
Breastfeeding (8)				
Ever Breastfed	44,718	63.9	203,824	70.1
Breastfed At Least 6 Months	27,565	28.2	107,617	29.6
Breastfed At Least 12 Months	31,867	13.2	104,194	22.6
Smoking in Household	192,304	1.9	681,145	4.2
<= 2 Hours TV Viewing/ Day (9)	91,478	78.9	285,831	82.0

(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 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.

(10) 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 3C 2020 Pediatric Nutrition Surveillance (1) Michigan Summary of Breastfeeding Indicators Children Aged < 5 Years (2)

Summary of Breastfeeding Indicators (3)				
	Michigan Prevalence		National (7) Prevalence (Prior Year)	
	Number	%	Number	%
Breastfeeding Duration (4,5)				
Ever Breastfed	44,718	63.9	203,824	70.1
Breastfed 1+ Weeks	34,289	60.2	167,060	64.6
Breastfed 2+ Weeks	26,647	57.9	132,980	62.0
Breastfed 3+ Weeks	23,197	54.4	111,977	58.1
Breastfed 4+ Weeks	21,243	51.6	101,572	54.7
Breastfed 6+ Weeks	19,710	46.2	91,167	48.1
Breastfed 2+ Months	19,710	43.5	88,707	42.6
Breastfed 3+ Months	21,329	38.9	95,689	37.3
Breastfed 4+ Months	23,833	34.8	104,815	33.7
Breastfed 5+ Months	27,196	31.7	114,684	30.7
Breastfed 6+ Months	27,565	28.2	107,617	29.6
Breastfed 9+ Months	29,133	17.1	101,097	24.7
Breastfed 12+ Months	31,867	13.2	104,194	22.6
Breastfed 18+ Months	15,829	8.7	63,691	17.7
Exclusive Breastfeeding (6)				
Exclusively Breastfed at Least 3 Months	17,815	17.6	78,852	13.7
Exclusively Breastfed at Least 6 Months	23,867	9.3	88,243	6.7

(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+ weeks 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.

(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 4C

2020 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Racial and Ethnic Distribution by Contributor to National ⁽⁴⁾

Children Aged < 5 Years ⁽²⁾

Comparison of Racial and Ethnic Distribution								
Contributor	Number Included in Analysis ⁽³⁾	White, Not Hispanic %	Black, Not Hispanic %	Hispanic %	American Indian/Alaska Native %	Asian/Pacific Islander %	Multiple Races %	All Other/Unknown %
Michigan	193,486	46.6	28.7	13.2	0.3	2.1	9.0	0.1
National (Prior Year)	879,844	40.0	24.2	20.8	1.2	2.6	7.0	4.1

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

(2) Analyses based on one record per child.

(3) Excludes records with errors.

(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.

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Table 5C

2020 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Age Distribution by Contributor to National ⁽⁵⁾

Children Aged < 5 Years ⁽²⁾

Comparison of Age Distribution				
Contributor	Number Included in Analysis (3,4)	0 - 11 Months %	12 - 23 Months %	24 - 59 Months %
Michigan	193,486	32.6	21.7	45.7
National (Prior Year)	879,844	36.5	21.1	42.4

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

(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.

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Table 6C

2020 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Growth and Anemia Indicators by Contributor to National ⁽⁸⁾ Children Aged < 5 Years ⁽²⁾

Comparison of Growth and Anemia Indicators ⁽³⁾												
Contributor	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	43,761	11.8	6.0	88,881	8.1	5.3	10.4	33,397	15.8	14.2	33,185	16.4
National (Prior Year)	196,866	11.1	6.3	814,083	8.0	2.9	11.1	345,562	15.9	13.5	538,510	14.5

(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.

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

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

WIC PNSS & PedNSS

Table 7C

2020 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Breastfeeding, TV Viewing, and Smoking in Household by Contributor to National ^(2,8)

Children Aged < 5 Years ⁽³⁾

Comparison of Breastfeeding, TV Viewing, and Smoking in Household ⁽⁴⁾

Contributor	Breastfeeding ⁽⁵⁾				Exclusive Breastfeeding ⁽⁶⁾				≤ 2 Hours TV Viewing/Day ⁽⁷⁾		Smoking in Household			
	Number	% Ever Breastfed	Number	% Breastfed At Least 6 Months	Number	% Breastfed At Least 12 Months	Number	% Breastfed At Least 3 Months	Number	% Breastfed At Least 6 Months	Number	%		
Michigan	44,718	63.9	27,565	28.2	31,867	13.2	17,815	17.6	23,867	9.3	91,478	78.9	192,304	1.9
National (Prior Year)	203,824	70.1	107,617	29.6	104,194	22.6	78,852	13.7	88,243	6.7	285,831	82.0	681,145	4.2

(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.

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

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

WIC PNSS & PedNSS

Table 8C

2020 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Growth and Anemia Indicators by Race/Ethnicity or Age

Children Aged < 5 Years ⁽²⁾

Growth and Anemia Indicators by Race/Ethnicity or Age ⁽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	%
Race/Ethnicity												
White, Not Hispanic	19,581	9.6	7.4	42,204	7.7	4.8	10.4	16,377	16.7	14.0	15,797	13.0
Black, Not Hispanic	13,731	16.1	3.4	24,161	9.3	6.5	9.0	8,191	13.7	11.5	8,806	23.7
Hispanic	5,681	8.8	7.4	12,217	7.4	4.4	13.0	4,856	17.1	18.3	4,763	15.0
American Indian/Alaska Native	123	8.1	13.0	241	7.5	2.9	17.0	91	*	*	68	*
Asian/Pacific Islander	837	13.5	2.6	1,832	7.4	7.2	9.6	804	10.3	14.3	702	13.2
Multiple Races	3,760	12.0	6.1	8,158	7.7	5.0	11.3	3,060	16.0	15.3	3,028	15.7
All Other	34	*	*	44	*	*	*	9	*	*	12	*
Total	43,761	11.8	6.0	88,881	8.1	5.3	10.4	33,397	15.8	14.2	33,185	16.4
Age												
0 - 11 Months	-	*	*	35,371	10.9	8.5	6.1	-	*	*	1,670	17.1
12 - 23 Months	-	*	*	19,336	9.2	1.4	11.7	-	*	*	12,987	17.6
24 - 35 Months	-	*	*	13,168	5.3	3.9	12.9	12,005	15.4	12.7	7,035	18.1
36 - 47 Months	-	*	*	10,855	4.4	4.3	14.7	10,839	15.9	14.7	6,330	16.0
48 - 59 Months	-	*	*	10,151	3.9	4.1	15.3	10,143	16.3	15.4	5,163	11.1
Total	-	*	*	88,881	8.1	5.3	10.4	33,397	15.8	14.2	33,185	16.4

(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.

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Table 9C

2020 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

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 ⁽⁷⁾		Smoking in Household	
	Number	% Ever Breastfed	Number	% Breastfed At Least 6 Months	Number	% Breastfed At Least 12 Months	Number	%	Number	%
Race/Ethnicity										
White, Not Hispanic	19,974	69.3	12,961	32.4	15,309	15.7	43,677	85.4	89,754	1.9
Black, Not Hispanic	13,998	53.6	8,039	21.3	8,835	8.2	24,908	65.8	55,154	2.3
Hispanic	5,844	69.4	3,409	27.7	4,114	13.6	12,301	81.2	25,392	1.0
American Indian/Alaska Native	125	69.6	86	*	95	*	250	83.2	553	2.4
Asian/Pacific Islander	879	69.7	604	38.1	591	24.0	1,881	79.6	3,976	0.3
Multiple Races	3,841	63.2	2,432	26.6	2,904	12.5	8,409	80.6	17,326	2.2
All Other/Unknown	38	*	11	*	12	*	32	*	85	*
Total	44,718	63.9	27,565	28.2	31,867	13.2	91,478	78.9	192,304	1.9
Age										
0 - 11 Months	-	*	-	*	-	*	-	*	62,524	1.6
12 - 23 Months	-	*	-	*	-	*	-	*	41,789	1.9
24 - 35 Months	-	*	-	*	-	*	31,643	81.6	32,461	2.1
36 - 47 Months	-	*	-	*	-	*	28,088	77.7	28,711	2.1
48 - 59 Months	-	*	-	*	-	*	26,197	76.0	26,819	2.1
Total	44,718	63.9	27,565	28.2	31,867	13.2	91,478	78.9	192,304	1.9

(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.

WIC PNSS & PedNSS

Table 10C

2020 Pediatric Nutrition Surveillance (1)

Michigan

Summary of Trends in Racial and Ethnic Distribution

Children Aged < 5 Years (2)

Summary of Trends in Racial and Ethnic Distribution								
Year	Number Included in Analysis (3)	White, Not Hispanic %	Black, Not Hispanic %	Hispanic %	American Indian/Alaska Native %	Asian/Pacific Islander %	Multiple Races %	All Other/Unknown %
2020	193,486	46.6	28.7	13.2	0.3	2.1	9.0	0.1
2019	205,794	46.9	28.1	13.3	0.3	2.0	9.3	0.1
2018	212,233	47.0	27.6	13.6	0.3	2.0	9.2	0.2
2017	222,478	47.6	27.8	13.5	0.3	2.0	8.6	0.2
2016	231,594	48.5	27.2	13.6	0.3	2.0	8.3	0.2
2015	240,590	49.0	27.1	13.5	0.3	1.9	8.1	0.2
2014	250,091	49.4	26.9	13.4	0.3	1.8	8.1	0.1
2013	253,913	49.6	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

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

(2) Analyses based on one record per child.

(3) Excludes records with errors.

WIC PNSS & PedNSS

Table 11C

2020 Pediatric Nutrition Surveillance (1)

Michigan

Summary of Trends in Age Distribution

Children Aged < 5 Years (2)

Summary of Trends in Age Distribution (3)				
Year	Number Included in Analysis (4)	0 - 11 Months %	12 - 23 Months %	24 - 59 Months %
2020	193,486	32.6	21.7	45.7
2019	205,794	34.0	20.3	45.7
2018	212,233	30.3	21.6	48.1
2017	222,478	33.8	20.7	45.5
2016	231,594	29.8	22.1	48.1
2015	240,590	29.7	22.3	48.0
2014	250,091	29.6	22.0	48.4
2013	253,913	29.3	22.5	48.3
2012	257,024	29.3	22.0	48.7
2011	257,910	29.5	21.9	48.7

(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.

WIC PNSS & PedNSS

Table 12C 2020 Pediatric Nutrition Surveillance ⁽¹⁾ Michigan

Summary of Trends in Growth and Anemia Indicators Children Aged < 5 Years ⁽²⁾

Summary of Trends in Growth and Anemia Indicators ⁽³⁾													
Year	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	%	
2020	43,761	11.8	6.0	88,881	8.1	5.3	10.4	33,397	15.8	14.2	33,185	16.4	
2019	47,554	11.3	6.2	199,797	7.2	2.9	11.1	88,540	16.3	13.7	133,482	16.7	
2018	48,804	11.0	6.6	205,990	7.6	3.2	10.7	85,908	16.3	13.5	136,909	23.4	
2017	51,039	11.2	6.5	216,349	7.1	2.9	10.7	94,830	16.2	13.1	144,328	21.5	
2016	52,567	10.8	6.8	225,134	7.3	3.1	10.4	93,377	16.1	13.1	151,630	21.2	
2015	55,089	10.5	6.8	234,036	6.8	3.0	10.1	97,204	16.3	12.9	157,509	19.6	
2014	57,712	9.8	6.8	243,452	6.5	2.9	10.2	101,840	16.8	13.3	165,162	19.1	
2013	58,430	9.6	6.9	247,235	6.4	3.0	10.3	103,993	16.8	13.2	163,964	19.2	
2012	58,707	9.7	7.1	249,969	6.2	3.1	10.4	105,902	16.4	13.2	167,212	17.9	
2011	59,582	9.4	6.9	251,251	6.1	3.1	10.4	106,051	16.5	13.2	166,650	16.4	

(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.

WIC PNSS & PedNSS

Table 13C 2020 Pediatric Nutrition Surveillance ⁽¹⁾ Michigan Summary of Trends in Breastfeeding Children Aged < 5 Years ⁽²⁾

Summary of Trends in Breastfeeding ⁽³⁾						
Year	Breastfeeding ⁽⁴⁾					
	Number	% Ever Breastfed	Number	% Breastfed At Least 6 Months	Number	% Breastfed At Least 12 Months
2020	44,718	63.9	27,565	28.2	31,867	13.2
2019	48,135	66.7	36,196	31.1	31,898	13.0
2018	49,377	66.8	38,049	31.4	32,543	12.7
2017	51,802	65.8	40,029	29.0	34,283	12.5
2016	53,465	65.3	42,533	19.7	37,529	11.6
2015	55,956	64.3	44,452	18.4	38,816	10.8
2014	58,296	62.9	45,723	18.5	40,540	9.9
2013	59,096	62.2	46,092	17.6	41,082	9.1
2012	59,352	60.7	46,180	17.7	42,029	8.9
2011	60,153	59.5	46,409	18.4	41,436	8.5

(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 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.

WIC PNSS & PedNSS

Table 16C 2020 Pediatric Nutrition Surveillance ⁽¹⁾ Michigan Growth Indicators by Race/Ethnicity and Age Children 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	16,980	10.1	16,980	8.1	16,980	5.6	0	*	*
12 - 23 Months	8,847	8.6	8,847	0.8	8,847	12.8	0	*	*
24 - 59 Months	16,300	4.8	16,300	3.7	16,300	14.0	16,300	16.7	14.0
Total	42,127	7.7	42,127	4.8	42,127	10.4	16,300	16.7	14.0
Black, Not Hispanic									
0 - 11 Months	11,680	13.3	11,680	8.7	11,680	6.2	0	*	*
12 - 23 Months	4,290	9.0	4,290	1.5	4,290	11.6	0	*	*
24 - 59 Months	8,128	4.0	8,128	5.9	8,128	11.5	8,128	13.7	11.5
Total	24,098	9.4	24,098	6.5	24,098	8.9	8,128	13.7	11.5
Hispanic									
0 - 11 Months	5,039	9.3	5,039	7.6	5,039	6.9	0	*	*
12 - 23 Months	2,322	8.3	2,322	0.6	2,322	15.0	0	*	*
24 - 59 Months	4,826	5.0	4,826	2.9	4,826	18.3	4,826	17.2	18.3
Total	12,187	7.4	12,187	4.4	12,187	12.9	4,826	17.2	18.3
American Indian/Alaska Native									
0 - 11 Months	95	*	95	*	95	*	0	*	*
12 - 23 Months	55	*	55	*	55	*	0	*	*
24 - 59 Months	91	*	91	*	91	*	91	*	*
Total	241	7.5	241	2.9	241	17.0	91	*	*

(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.

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Table 16C 2020 Pediatric Nutrition Surveillance ⁽¹⁾ Michigan Growth Indicators by Race/Ethnicity and Age Children 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	655	10.8	655	7.8	655	5.3	0	*	*
12 - 23 Months	373	6.7	373	2.9	373	7.0	0	*	*
24 - 59 Months	801	5.0	801	8.7	801	14.4	815	10.1	14.1
Total	1,829	7.4	1,829	7.2	1,829	9.6	801	10.2	14.4
Multiple Races									
0 - 11 Months	3,454	11.1	3,454	8.5	3,454	7.1	0	*	*
12 - 23 Months	1,644	7.5	1,644	1.0	1,644	12.7	0	*	*
24 - 59 Months	3,048	4.1	3,048	3.3	3,048	15.3	3,048	16.0	16.9
Total	8,146	7.7	8,146	5.0	8,146	11.3	3,048	16.0	15.3
All Other/Unknown									
0 - 11 Months	32	*	32	*	32	*	0	*	*
12 - 23 Months	3	*	3	*	3	*	0	*	*
24 - 59 Months	9	*	9	*	9	*	9	*	*
Total	44	*	44	*	44	*	9	*	*
Total All Race/Ethnic Groups									
0 - 11 Months	37,947	11.1	37,947	8.2	37,947	6.1	0	*	*
12 - 23 Months	17,537	8.5	17,537	1.0	17,537	12.7	0	*	*
24 - 59 Months	33,212	4.5	33,212	4.2	33,212	14.2	33,212	15.8	14.2
Total	88,696	8.1	88,696	5.3	88,696	10.4	33,212	15.8	14.2

(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) 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.

WIC PNSS & PedNSS

Table 17C 2020 Pediatric Nutrition Surveillance ⁽¹⁾ Michigan Anemia Indicators by Race/Ethnicity and Age Children Aged < 5 Years ⁽²⁾

Anemia Indicators by Race/Ethnicity and Age ^(3,4)					
	Anemia Low Hb/Hct			Anemia Low Hb/Hct	
	Number	%		Number	%
White, Not Hispanic			Asian/Pacific Islander		
6 - 11 Months	706	14.2	6 - 11 Months	28	*
12 - 17 Months	3,827	15.8	12 - 17 Months	172	15.7
18 - 23 Months	2,531	13.3	18 - 23 Months	111	11.7
24 - 35 Months	3,273	13.6	24 - 35 Months	134	14.2
36 - 59 Months	5,423	10.3	36 - 59 Months	255	11.4
Total	15,760	13.0	Total	700	13.3
Black, Not Hispanic			Multiple Races		
6 - 11 Months	540	20.7	6 - 11 Months	128	16.4
12 - 17 Months	1,994	22.7	12 - 17 Months	714	17.6
18 - 23 Months	1,366	23.7	18 - 23 Months	485	19.0
24 - 35 Months	1,917	28.3	24 - 35 Months	683	15.7
36 - 59 Months	2,985	22.0	36 - 59 Months	1,012	12.6
Total	8,802	23.7	Total	3,022	15.7
Hispanic			All Other/Unknown		
6 - 11 Months	202	18.3	6 - 11 Months	3	*
12 - 17 Months	1,079	17.6	12 - 17 Months	0	*
18 - 23 Months	682	18.0	18 - 23 Months	3	*
24 - 35 Months	1,007	16.0	24 - 35 Months	2	*
36 - 59 Months	1,782	11.4	36 - 59 Months	13	*
Total	4,752	15.0	Total	21	*
American Indian/Alaska Native			Total All Race/Ethnic Groups		
6 - 11 Months	3	*	6 - 11 Months	1,610	17.2
12 - 17 Months	15	*	12 - 17 Months	7,801	18.0
18 - 23 Months	8	*	18 - 23 Months	5,186	17.1
24 - 35 Months	19	*	24 - 35 Months	7,035	18.1
36 - 59 Months	23	*	36 - 59 Months	11,493	13.8
Total	68	*	Total	33,125	16.4

(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) 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

WIC PNSS & PedNSS

Table 18C

2020 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Summary of Trends in Growth and Anemia Indicators by Race/Ethnicity

Children Aged < 5 Years ⁽²⁾

Summary of Trends in Growth and Anemia Indicators by Race/Ethnicity ⁽³⁾													
Race/Ethnicity	Year	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	%	%	Number	%	%	%	Number	%	%	Number	%
		<2500 g	>4000 g						Overweight	Obese			
White, Not Hispanic	2020	19,581	9.6	7.4	42,204	7.7	4.8	10.4	16,377	16.7	14.0	15,797	13.0
	2019	21,369	9.5	7.9	93,969	7.1	2.5	11.1	42,398	17.2	13.8	63,602	12.6
	2018	22,119	9.0	8.1	97,159	7.5	2.8	10.6	41,027	17.0	13.5	65,413	17.9
	2017	23,268	9.5	8.3	103,212	6.9	2.5	10.9	45,932	16.8	13.2	69,552	16.2
	2016	24,718	9.0	8.8	109,421	7.1	2.6	10.3	45,659	16.9	13.1	74,240	15.9
	2015	26,289	8.8	8.6	114,948	6.7	2.6	9.9	47,623	16.9	12.9	77,714	14.3
	2014	28,393	8.1	8.3	120,575	6.4	2.5	9.9	49,937	17.2	13.0	82,042	14.2
	2013	28,825	8.2	8.6	123,092	6.4	2.7	9.9	51,046	17.2	12.8	81,420	14.2
	2012	29,759	8.2	8.8	126,315	6.0	2.8	9.9	52,887	17.0	12.9	83,708	13.3
	2011	30,418	7.8	8.4	128,453	5.9	2.8	9.9	54,175	16.9	12.6	84,861	12.1
Black, Not Hispanic	2020	13,731	16.1	3.4	24,161	9.3	6.5	9.0	8,191	13.7	11.5	8,806	23.7
	2019	14,878	15.4	3.3	55,966	7.7	3.8	9.3	23,411	14.0	10.8	36,067	25.5
	2018	14,851	15.1	3.6	56,653	8.2	4.2	9.1	22,575	13.9	11.1	36,297	35.3
	2017	15,666	15.1	3.2	59,886	7.5	3.8	9.0	25,056	14.2	10.5	38,566	33.1
	2016	15,331	15.1	3.5	60,949	7.9	4.2	8.7	24,395	13.9	10.4	39,952	33.0
	2015	16,219	14.9	3.4	63,104	7.5	4.1	8.4	25,277	14.0	10.1	41,390	31.6

(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.

(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.

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2020 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Summary of Trends in Growth and Anemia Indicators by Race/Ethnicity

Children Aged < 5 Years ⁽²⁾

Black, Not Hispanic	2014	16,486	13.9	3.7	65,179	7.0	4.0	8.6	26,469	14.7	10.6	43,113	30.3
	2013	17,015	13.1	3.7	65,995	6.8	4.0	8.9	26,866	14.8	10.9	42,551	30.4
	2012	16,431	13.6	3.7	65,159	6.8	4.3	9.0	26,658	13.9	10.4	42,673	28.4
	2011	16,616	13.6	4.0	64,322	7.0	4.2	9.0	25,699	13.9	10.6	41,184	26.5

(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 \leq 2.3rd percentile, underweight is defined as weight-for-length \leq 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as \geq 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 \geq 85th to < 95th percentile, and obesity is defined as \geq 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.

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Table 18C

2020 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Summary of Trends in Growth and Anemia Indicators by Race/Ethnicity

Children Aged < 5 Years ⁽²⁾

Summary of Trends in Growth and Anemia Indicators by Race/Ethnicity ⁽³⁾

Race/Ethnicity	Year	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	%
Hispanic	2020	5,681	8.8	7.4	12,217	7.4	4.4	13.0	4,856	17.1	18.3	4,763	15.0
	2019	6,032	8.5	7.0	26,451	7.0	2.0	13.9	12,114	17.7	18.0	17,948	14.4
	2018	6,171	8.4	7.3	27,928	7.1	2.3	13.5	12,216	18.0	18.1	19,012	20.2
	2017	6,458	8.5	7.3	29,156	6.7	2.2	13.3	13,308	18.4	17.1	20,064	18.5
	2016	6,692	8.5	7.5	30,497	6.8	2.1	13.7	13,337	18.3	17.7	21,198	18.1
	2015	6,913	7.9	8.0	31,467	6.4	2.2	13.6	14,101	18.4	17.4	21,962	16.7
	2014	6,941	7.4	8.0	32,579	6.2	1.9	14.4	14,826	19.2	18.5	23,001	16.6
	2013	6,946	7.3	8.0	33,576	6.0	1.9	13.9	15,510	19.1	18.0	23,582	16.8
	2012	7,159	7.2	8.0	34,292	5.9	2.2	14.1	15,878	18.6	18.4	24,421	16.4
	2011	7,298	7.3	7.5	35,084	5.5	2.1	14.3	16,192	19.2	18.4	24,944	14.9
American Indian/Alaska Native	2020	123	8.1	13.0	241	7.5	2.9	17.0	91	*	*	68	*
	2019	148	9.5	10.8	584	5.8	2.6	16.4	230	19.6	22.6	379	14.2
	2018	182	5.5	10.4	619	8.1	3.4	17.9	233	18.5	23.2	363	22.3
	2017	166	12.0	8.4	660	7.0	2.6	17.7	286	20.6	20.6	422	21.1
	2016	151	10.6	7.3	672	6.7	3.6	18.0	285	21.1	21.1	438	20.5
	2015	185	6.5	9.2	735	6.7	2.4	16.1	294	23.5	19.7	467	16.1

(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.

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Table 18C

2020 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Summary of Trends in Growth and Anemia Indicators by Race/Ethnicity

Children Aged < 5 Years ⁽²⁾

American Indian/Alaska Native	2014	179	11.2	10.1	745	5.6	2.7	16.6	304	21.7	23.4	466	20.4
	2013	157	5.1	12.7	669	5.5	2.7	17.3	276	21.7	22.1	416	19.7
	2012	159	6.3	15.7	695	5.6	2.7	14.5	279	22.6	16.5	420	14.8
	2011	153	5.2	13.1	685	4.1	1.6	15.9	306	21.9	19.0	416	15.4

(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 \leq 2.3rd percentile, underweight is defined as weight-for-length \leq 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as \geq 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 \geq 85th to < 95th percentile, and obesity is defined as \geq 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.

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2020 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Summary of Trends in Growth and Anemia Indicators by Race/Ethnicity

Children Aged < 5 Years ⁽²⁾

Summary of Trends in Growth and Anemia Indicators by Race/Ethnicity ⁽³⁾															
Race/Ethnicity	Year	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	%	%	Number	%	%	%	Number	%	%	Number	%		
		<2500 g	>4000 g					Overweight	Obese						
Asian/Pacific Islander	2020	837	13.5	2.6	1,832	7.4	7.2	9.6	804	10.3	14.3	702	13.2		
	2019	858	10.0	3.3	4,030	6.2	4.7	10.2	1,861	11.1	14.1	2,875	13.6		
	2018	898	11.9	4.2	4,171	7.5	3.8	9.5	1,807	13.2	11.8	2,918	20.7		
	2017	954	11.4	5.6	4,409	6.7	5.4	8.6	2,051	11.8	11.7	3,067	18.8		
	2016	948	11.3	3.8	4,400	6.3	4.5	8.1	1,952	10.9	10.8	3,144	19.9		
	2015	949	10.4	3.4	4,350	6.0	4.2	8.7	1,918	11.0	11.1	3,044	18.5		
	2014	977	10.2	5.2	4,447	6.4	4.0	8.7	1,916	12.4	13.1	3,138	17.2		
	2013	957	9.4	3.9	4,075	6.9	4.0	8.8	1,718	12.8	12.2	2,781	16.9		
	2012	917	11.6	3.8	3,903	6.8	4.2	8.0	1,693	14.1	11.3	2,676	17.2		
	2011	842	9.4	2.7	3,678	7.3	4.3	8.7	1,521	13.3	11.9	2,504	16.3		
Multiple Races	2020	3,760	12.0	6.1	8,158	7.7	5.0	11.3	3,060	16.0	15.3	3,028	15.7		
	2019	4,195	11.0	6.8	18,511	6.7	2.8	12.1	8,434	17.0	14.2	12,472	16.2		
	2018	4,332	10.9	7.8	18,979	7.5	2.9	11.4	7,947	17.1	13.5	12,747	23.0		
	2017	4,438	10.6	7.0	18,685	6.8	2.5	11.6	8,101	16.7	14.3	12,501	21.1		
	2016	4,545	9.9	6.8	18,771	6.9	2.7	11.5	7,660	16.3	14.4	12,509	20.5		
	2015	4,403	9.0	7.2	19,078	6.7	2.6	11.4	7,916	17.0	14.2	12,810	18.8		

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

WIC PNSS & PedNSS

Table 18C

2020 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Summary of Trends in Growth and Anemia Indicators by Race/Ethnicity

Children Aged < 5 Years ⁽²⁾

Multiple Races	2014	4,665	9.5	7.4	19,661	6.4	2.5	11.1	8,307	17.7	14.1	13,289	18.3
	2013	4,427	9.2	7.6	19,581	6.0	2.6	11.4	8,523	17.3	14.3	13,135	18.2
	2012	4,224	9.7	7.2	19,472	5.7	2.6	11.5	8,485	17.0	14.5	13,283	16.6
	2011	4,198	9.0	7.1	18,898	5.4	2.9	11.7	8,139	17.2	14.7	12,711	15.9

(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) 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 \leq 2.3rd percentile, underweight is defined as weight-for-length \leq 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as \geq 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 \geq 85th to < 95th percentile, and obesity is defined as \geq 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.

WIC PNSS & PedNSS

Table 18C

2020 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Summary of Trends in Growth and Anemia Indicators by Race/Ethnicity

Children Aged < 5 Years ⁽²⁾

Summary of Trends in Growth and Anemia Indicators by Race/Ethnicity ⁽³⁾															
Race/Ethnicity	Year	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	%	%	Number	%	%	%	Number	%	%	Number	%		
		<2500 g	>4000 g					Overweight	Obese						
All Other/Unknown	2020	34	*	*	44	*	*	*	9	*	*	12	*		
	2019	15	*	*	62	*	*	*	31	*	*	43	*		
	2018	25	*	*	66	*	*	*	21	*	*	37	*		
	2017	8	*	*	54	*	*	*	23	*	*	44	*		
	2016	18	*	*	56	*	*	*	21	*	*	34	*		
	2015	15	*	*	50	*	*	*	18	*	*	28	*		
	2014	15	*	*	48	*	*	*	21	*	*	31	*		
	2013	13	*	*	45	*	*	*	22	*	*	31	*		
	2012	7	*	*	45	*	*	*	19	*	*	25	*		
	2011	10	*	*	45	*	*	*	17	*	*	28	*		
Total All Race/Ethnic Groups	2020	43,761	11.8	6.0	88,881	8.1	5.3	10.4	33,397	15.8	14.2	33,185	16.4		
	2019	47,554	11.3	6.2	199,797	7.2	2.9	11.1	88,540	16.3	13.7	133,482	16.7		
	2018	48,804	11.0	6.6	205,990	7.6	3.2	10.7	85,908	16.3	13.5	136,909	23.4		
	2017	51,039	11.2	6.5	216,349	7.1	2.9	10.7	94,830	16.2	13.1	144,328	21.5		
	2016	52,567	10.8	6.8	225,134	7.3	3.1	10.4	93,377	16.1	13.1	151,630	21.2		
	2015	55,089	10.5	6.8	234,036	6.8	3.0	10.1	97,204	16.3	12.9	157,509	19.6		

(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.

(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.

WIC PNSS & PedNSS

Table 18C

2020 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Summary of Trends in Growth and Anemia Indicators by Race/Ethnicity

Children Aged < 5 Years ⁽²⁾

Total All Race/Ethnic Groups	2014	57,712	9.8	6.8	243,452	6.5	2.9	10.2	101,840	16.8	13.3	165,162	19.1
	2013	58,430	9.6	6.9	247,235	6.4	3.0	10.3	103,993	16.8	13.2	163,964	19.2
	2012	58,707	9.7	7.1	249,969	6.2	3.1	10.4	105,902	16.4	13.2	167,212	17.9
	2011	59,582	9.4	6.9	251,251	6.1	3.1	10.4	106,051	16.5	13.2	166,650	16.4

(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 \leq 2.3rd percentile, underweight is defined as weight-for-length \leq 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as \geq 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 \geq 85th to < 95th percentile, and obesity is defined as \geq 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.

WIC PNSS & PedNSS

Table 19C

2020 Pediatric Nutrition Surveillance (1)

Michigan

Summary of Trends in Breastfeeding Indicators by Race/Ethnicity

Children Aged < 5 Years (2)

Summary of Trends in Breastfeeding Indicators by Race/Ethnicity (3)							
Race/Ethnicity	Year	Breastfeeding (4)					
		Number	% Ever Breastfed	Number	% Breastfed At Least 6 Months	Number	% Breastfed At Least 12 Months
White, Not Hispanic	2020	19,974	69.3	12,961	32.4	15,309	15.7
	2019	21,603	71.7	16,938	35.2	15,451	15.5
	2018	22,367	71.8	17,658	35.0	15,817	15.1
	2017	23,732	71.3	18,974	33.3	16,943	14.8
	2016	25,269	70.4	20,561	23.1	18,792	14.2
	2015	26,851	69.9	22,041	22.2	19,870	13.1
	2014	28,707	69.0	22,860	22.2	20,845	12.2
	2013	29,213	68.4	23,565	21.0	21,192	11.0
	2012	30,142	66.9	23,888	20.7	21,888	10.6
	2011	30,730	65.7	23,705	21.0	21,483	9.8
Black, Not Hispanic	2020	13,998	53.6	8,039	21.3	8,835	8.2
	2019	15,111	57.3	10,418	24.2	8,526	8.0
	2018	15,051	56.8	11,001	24.8	8,378	7.4
	2017	15,817	54.5	11,392	20.8	8,747	7.1
	2016	15,514	53.5	11,753	12.4	9,661	6.0
	2015	16,379	51.6	12,371	11.1	9,769	5.8
	2014	16,595	49.7	12,610	11.6	10,364	4.8
2013	17,129	49.0	12,468	11.0	10,403	4.7	

(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.

WIC PNSS & PedNSS

Table 19C

2020 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Summary of Trends in Breastfeeding Indicators by Race/Ethnicity

Children Aged < 5 Years ⁽²⁾

Black, Not Hispanic	2012	16,564	47.4	12,264	11.2	10,525	4.4
	2011	16,729	46.3	12,617	11.9	10,329	4.6

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

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WIC PNSS & PedNSS

Table 19C

2020 Pediatric Nutrition Surveillance (1)

Michigan

Summary of Trends in Breastfeeding Indicators by Race/Ethnicity

Children Aged < 5 Years (2)

Summary of Trends in Breastfeeding Indicators by Race/Ethnicity (3)							
Race/Ethnicity	Year	Breastfeeding (4)					
		Number	% Ever Breastfed	Number	% Breastfed At Least 6 Months	Number	% Breastfed At Least 12 Months
Hispanic	2020	5,844	69.4	3,409	27.7	4,114	13.6
	2019	6,089	70.8	4,711	32.5	4,142	13.8
	2018	6,223	70.9	4,931	31.7	4,400	14.1
	2017	6,515	71.4	5,126	30.3	4,630	13.4
	2016	6,768	72.4	5,500	21.4	5,006	12.0
	2015	6,995	70.4	5,364	19.1	5,014	10.5
	2014	7,028	68.2	5,525	18.6	5,174	10.0
	2013	7,043	67.1	5,616	17.5	5,461	9.3
	2012	7,236	64.3	5,580	19.3	5,527	10.2
	2011	7,377	62.7	5,755	22.3	5,676	10.1
American Indian/Alaska Native	2020	125	69.6	86	*	95	*
	2019	152	60.5	104	27.9	95	*
	2018	186	68.8	123	42.3	85	*
	2017	167	75.4	112	26.8	102	16.7
	2016	151	68.9	136	23.5	125	13.6
	2015	188	67.6	127	20.5	135	11.9
	2014	182	60.4	156	19.2	129	10.9
2013	165	58.8	123	23.6	112	12.5	

(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 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.

WIC PNSS & PedNSS

Table 19C

2020 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Summary of Trends in Breastfeeding Indicators by Race/Ethnicity

Children Aged < 5 Years ⁽²⁾

American Indian/Alaska Native	2012	162	67.3	143	14.7	112	9.8
	2011	167	57.5	127	18.9	106	10.4

(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.

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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.

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WIC PNSS & PedNSS

Table 19C

2020 Pediatric Nutrition Surveillance (1)

Michigan

Summary of Trends in Breastfeeding Indicators by Race/Ethnicity

Children Aged < 5 Years (2)

Summary of Trends in Breastfeeding Indicators by Race/Ethnicity (3)							
Race/Ethnicity	Year	Breastfeeding (4)					
		Number	% Ever Breastfed	Number	% Breastfed At Least 6 Months	Number	% Breastfed At Least 12 Months
Asian/Pacific Islander	2020	879	69.7	604	38.1	591	24.0
	2019	862	78.2	681	39.6	663	21.7
	2018	922	78.4	719	42.4	678	24.3
	2017	979	79.8	747	40.2	703	22.9
	2016	975	73.7	801	36.6	724	24.6
	2015	960	77.2	757	38.2	690	26.8
	2014	1,002	72.0	770	35.3	699	25.2
	2013	972	72.1	739	35.5	690	24.3
	2012	927	71.7	646	35.4	629	21.5
	2011	870	69.3	674	35.3	643	22.4
Multiple Races	2020	3,841	63.2	2,432	26.6	2,904	12.5
	2019	4,232	66.5	3,271	27.7	2,988	11.0
	2018	4,372	66.7	3,441	30.3	3,155	10.5
	2017	4,491	65.0	3,555	27.7	3,114	11.0
	2016	4,589	65.4	3,637	18.3	3,180	9.6
	2015	4,440	64.8	3,660	15.1	3,301	8.6
	2014	4,698	62.1	3,708	15.9	3,303	8.3
2013	4,452	61.8	3,466	14.3	3,208	7.3	

(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.

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WIC PNSS & PedNSS

Table 19C

2020 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Summary of Trends in Breastfeeding Indicators by Race/Ethnicity

Children Aged < 5 Years ⁽²⁾

Multiple Races	2012	4,255	60.4	3,594	14.6	3,337	7.2
	2011	4,217	58.7	3,476	14.9	3,191	6.5

(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 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.

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WIC PNSS & PedNSS

Table 19C 2020 Pediatric Nutrition Surveillance ⁽¹⁾ Michigan

Summary of Trends in Breastfeeding Indicators by Race/Ethnicity Children Aged < 5 Years ⁽²⁾

Summary of Trends in Breastfeeding Indicators by Race/Ethnicity ⁽³⁾							
Race/Ethnicity	Year	Breastfeeding ⁽⁴⁾					
		Number	% Ever Breastfed	Number	% Breastfed At Least 6 Months	Number	% Breastfed At Least 12 Months
All Other/Unknown	2020	38	*	11	*	12	*
	2019	15	*	5	*	8	*
	2018	27	*	15	*	5	*
	2017	8	*	14	*	11	*
	2016	18	*	13	*	8	*
	2015	15	*	6	*	9	*
	2014	16	*	9	*	10	*
	2013	13	*	6	*	7	*
	2012	7	*	12	*	11	*
	2011	10	*	8	*	8	*
Total All Race/Ethnic Groups	2020	44,718	63.9	27,565	28.2	31,867	13.2
	2019	48,135	66.7	36,196	31.1	31,898	13.0
	2018	49,377	66.8	38,049	31.4	32,543	12.7
	2017	51,802	65.8	40,029	29.0	34,283	12.5
	2016	53,465	65.3	42,533	19.7	37,529	11.6
	2015	55,956	64.3	44,452	18.4	38,816	10.8
	2014	58,296	62.9	45,723	18.5	40,540	9.9
2013	59,096	62.2	46,092	17.6	41,082	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.

WIC PNSS & PedNSS

Table 19C

2020 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Summary of Trends in Breastfeeding Indicators by Race/Ethnicity

Children Aged < 5 Years ⁽²⁾

Total All Race/Ethnic Groups	2012	59,352	60.7	46,180	17.7	42,029	8.9
	2011	60,153	59.5	46,409	18.4	41,436	8.5

(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.

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WIC PNSS & PedNSS

Table 20C

2020 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Summary of Trends in Growth Indicators by Age

Children Aged < 5 Years ⁽²⁾

Summary of Trends in Growth Indicators by Age ⁽³⁾																	
Age	Year	Height and Weight ^(4,5)							Age	Year	Height and Weight ^(4,5)						
		Short Under- Obese				≥ 2 Yrs					Short Under- Obese				≥ 2 Yrs		
		Stature	Weight	%	%	%	%	%			%	%	Stature	Weight	%	%	%
0 - 11 Months	2020	35,371	10.9	8.5	6.1	0	*	*	24 - 35 Months	2020	13,168	5.3	3.9	12.9	12,005	15.4	12.7
	2019	67,817	11.6	3.8	7.1	0	*	*		2019	33,280	5.0	2.6	12.7	26,924	15.9	12.5
	2018	62,004	12.4	5.4	5.8	0	*	*		2018	35,240	5.2	2.0	12.9	22,746	15.7	12.3
	2017	72,975	11.2	4.0	6.9	0	*	*		2017	34,325	4.6	2.3	12.4	26,647	16.0	12.0
	2016	66,609	12.0	5.2	5.6	0	*	*		2016	39,147	4.6	2.0	12.5	24,917	16.2	11.9
	2015	68,629	11.2	5.2	5.3	0	*	*		2015	40,356	4.4	2.0	12.0	25,567	15.8	11.2
	2014	71,262	10.7	5.4	5.3	0	*	*		2014	42,023	4.5	1.8	12.1	26,576	16.4	11.5
	2013	71,638	10.4	5.7	5.5	0	*	*		2013	42,016	4.2	1.8	12.1	27,183	16.3	11.4
	2012	72,641	10.0	5.9	5.5	0	*	*		2012	42,357	4.4	2.0	11.8	27,135	15.7	11.1
	2011	73,544	10.1	5.6	5.5	0	*	*		2011	42,939	4.1	2.0	12.1	27,397	15.8	11.2
2010	0	*	*	*	0	*	*	2010	0	*	*	*	0	*	*		
12 - 23 Months	2020	19,336	9.2	1.4	11.7	0	*	*	36 - 47 Months	2020	10,855	4.4	4.3	14.7	10,839	15.9	14.7
	2019	41,559	7.2	0.9	11.7	0	*	*		2019	29,249	3.7	3.5	14.0	29,237	16.4	14.0
	2018	45,577	8.7	0.8	11.0	0	*	*		2018	29,802	4.0	3.3	13.4	29,798	16.0	13.4
	2017	45,816	7.2	0.9	11.5	0	*	*		2017	29,431	3.6	3.4	13.3	29,422	15.7	13.3
	2016	50,907	8.2	0.8	10.8	0	*	*		2016	31,951	3.8	3.4	13.2	31,944	15.7	13.2
	2015	53,403	7.8	0.8	10.4	0	*	*		2015	33,528	3.7	3.1	12.6	33,520	15.8	12.6
	2014	54,900	7.3	0.7	10.1	0	*	*		2014	35,083	3.4	2.8	12.8	35,081	16.3	12.8

(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) 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

WIC PNSS & PedNSS

Table 20C

2020 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Summary of Trends in Growth Indicators by Age

Children Aged < 5 Years ⁽²⁾

12 - 23 Months	2013	56,763	7.0	0.8	10.4	0	*	*
	2012	56,190	6.7	0.6	10.5	0	*	*
	2011	56,112	6.5	0.7	10.7	0	*	*
	2010	0	*	*	*	0	*	*
36 - 47 Months	2013	35,462	3.7	2.7	12.7	35,458	16.5	12.7
	2012	36,189	3.6	3.1	13.1	36,177	15.9	13.1
	2011	37,006	3.4	3.1	13.0	37,004	16.3	13.0
	2010	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 \leq 2.3rd percentile, underweight is defined as weight-for-length \leq 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as \geq 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 \geq 85th to < 95th percentile, and obesity is defined as \geq 95th percentile.

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

WIC PNSS & PedNSS

Table 20C

2020 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Summary of Trends in Growth Indicators by Age

Children Aged < 5 Years ⁽²⁾

Summary of Trends in Growth Indicators by Age ⁽³⁾																							
Age	Year	Height and Weight ^(4,5)							Age	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	%	%	%	Number	%	%	Number	%	%	Number	%	%
48 - 59 Months	2020	10,151	3.9	4.1	15.3	10,143	16.3	15.4	Total All Age Groups	2020	88,881	8.1	5.3	10.4	33,397	15.8	14.2						
	2019	27,892	2.9	3.4	14.7	27,886	16.6	14.7		2019	199,797	7.2	2.9	11.1	88,540	16.3	13.7						
	2018	33,367	3.1	3.4	14.5	33,364	16.9	14.5		2018	205,990	7.6	3.2	10.7	85,908	16.3	13.5						
	2017	33,802	3.3	3.3	14.2	33,798	16.8	14.2		2017	216,349	7.1	2.9	10.7	94,830	16.2	13.1						
	2016	36,520	3.3	3.3	14.0	36,516	16.5	14.0		2016	225,134	7.3	3.1	10.4	93,377	16.1	13.1						
	2015	38,120	3.1	2.8	14.3	38,117	17.1	14.3		2015	234,036	6.8	3.0	10.1	97,204	16.3	12.9						
	2014	40,184	3.0	2.6	14.9	40,183	17.6	14.9		2014	243,452	6.5	2.9	10.2	101,840	16.8	13.3						
	2013	41,356	3.1	2.7	14.8	41,352	17.4	14.8		2013	247,235	6.4	3.0	10.3	103,993	16.8	13.2						
	2012	42,590	3.0	2.8	14.7	42,588	17.3	14.7		2012	249,967	6.2	3.1	10.4	105,900	16.4	13.2						
	2011	41,650	3.2	2.9	14.7	41,650	17.3	14.7		2011	251,251	6.1	3.1	10.4	106,051	16.5	13.2						
	2010	0	*	*	*	0	*	*		2010	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

WIC PNSS & PedNSS

Table 21C 2020 Pediatric Nutrition Surveillance (1) Michigan Summary of Trends in Anemia by Age Children Aged < 5 Years (2)

Summary of Trends in Anemia by Age (3)								
Age	Year	Anemia Low Hb/Hct (4)			Age	Year	Anemia Low Hb/Hct (4)	
		Number	%				Number	%
6 - 11 Months	2020	1,610	17.2		18 - 23 Months	2020	5,186	17.1
	2019	11,002	18.2			2019	17,279	18.0
	2018	5,482	27.9			2018	18,483	26.8
	2017	11,622	25.7			2017	19,565	22.2
	2016	6,395	23.7			2016	21,061	23.7
	2015	6,044	23.2			2015	22,073	22.3
	2014	6,109	23.7			2014	22,664	22.1
	2013	5,563	22.2			2013	22,735	22.4
	2012	6,250	21.8			2012	23,054	21.5
	2011	6,120	20.2			2011	23,223	19.6
12 - 17 Months	2020	7,801	18.0		24 - 35 Months	2020	7,035	18.1
	2019	23,239	19.7			2019	30,400	18.0
	2018	26,035	26.4			2018	31,365	25.3
	2017	25,190	25.2			2017	30,918	22.6
	2016	28,711	24.7			2016	34,974	22.6
	2015	29,986	22.6			2015	35,990	21.3
	2014	30,904	22.3			2014	38,199	20.8
	2013	31,997	22.7			2013	37,258	20.4
	2012	31,259	21.6			2012	37,748	19.5
	2011	30,406	19.8			2011	38,033	17.9

(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 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

WIC PNSS & PedNSS

Table 21C 2020 Pediatric Nutrition Surveillance (1) Michigan Summary of Trends in Anemia by Age Children Aged < 5 Years (2)

Summary of Trends in Anemia by Age (3)							
Age	Year	Anemia Low Hb/Hct (4)		Age	Year	Anemia Low Hb/Hct (4)	
		Number	%			Number	%
36 - 59 Months	2020	11,493	13.8	Total All Age Groups	2020	33,185	16.4
	2019	49,441	13.6		2019	133,482	16.7
	2018	55,543	19.3		2018	136,909	23.4
	2017	55,057	18.0		2017	144,328	21.5
	2016	60,489	17.5		2016	151,630	21.2
	2015	63,412	16.1		2015	157,509	19.6
	2014	67,284	15.3		2014	165,162	19.1
	2013	66,409	15.4		2013	163,964	19.2
	2012	68,897	13.9		2012	167,210	17.9
	2011	68,863	12.8		2011	166,650	16.4
All Other/Unknown	2020	0	*				
	2019	0	*				
	2018	0	*				
	2017	0	*				
	2016	0	*				
	2015	0	*				
	2014	0	*				
	2013	0	*				
	2012	2	*				
	2011	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 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