

WIC PNSS & PedNSS

Table 1C

2021 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Summary of Demographic Indicators

Children Aged < 5 Years ^(2,3)

Total Records	Number
Individual Children	188,977
Total Records (All Visits)	277,727

Source of Data	Number	%
WIC	188,977	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	188,977	100.0
<i>Excluded Unknown</i>	<i>0</i>	<i>0.0 %</i>

Race/Ethnic Distribution	Number	%
White, Not Hispanic	86,927	46.0
Black, Not Hispanic	54,943	29.1
Hispanic	25,159	13.3
American Indian/Alaska Native	525	0.3
Asian/Pacific Islander	4,267	2.3
Multiple Races	16,966	9.0
All Other	85	0.0
Total	188,872	100.0
<i>Excluded Unknown</i>	<i>105</i>	<i>0.1 %</i>

Age Distribution ⁽⁴⁾	Number	%
0 - 5 Months	39,778	21.0
6 - 11 Months	16,462	8.7
12 - 23 Months	41,030	21.7
24 - 35 Months	34,011	18.0
3 - 4 Years	57,696	30.5
Total	188,977	100.0

% of Poverty Level	Number	%
0 - 50	71,515	38.1
51 - 100	52,703	28.1
101 - 130	24,838	13.2
131 - 150	13,287	7.1
151 - 185	14,758	7.9
186 - 200	2,542	1.4
Over 200	7,833	4.2
Adjunctive Eligibility	0	0.0
Total	187,476	100.0
<i>Excluded Unknown</i>	<i>1,501</i>	<i>0.8 %</i>

Program Participation	Number	%
WIC	188,977	100.0
SNAP	174,141	43.3
Medicaid	171,522	85.8
Tanf	174,559	2.5
Excluded Unknown		
WIC	0	0.0
SNAP	14,836	7.9
Medicaid	17,455	9.2
Tanf	14,418	7.6

Migrant Status	Number	%
Yes	1,140	0.6
No	187,837	99.4
Total	188,977	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 2021 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	41,412	12.5	132,223	11.8
High	41,412	6.2	132,223	5.8
Height and Weight (5,6) (3)				
< 5 Yrs Short Stature	45,361	9.2	433,338	11.8
< 5 Yrs Underweight	45,361	8.5	433,338	4.7
< 5 Yrs Obese	45,361	10.9	433,338	12.8
>= 2 Yrs Overweight	12,936	14.6	177,451	15.7
>=2 Yrs Obese	12,936	17.9	177,451	14.7
Anemia (7)				
Low Hb	11,630	13.0	117,907	16.2
Low Hct	7	*	7	42.9
Low Hb/Hct	11,637	13.0	117,914	16.2
Breastfeeding (8)				
Ever Breastfed	41,962	62.8	132,310	65.7
Breastfed At Least 6 Months	27,182	28.3	63,488	26.1
Breastfed At Least 12 Months	29,487	13.2	72,112	13.7
Smoking in Household	187,913	1.6	571,316	3.8
<= 2 Hours TV Viewing/ Day (9)	90,944	77.9	205,447	78.2

(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. 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 2021 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	41,962	62.8	132,310	65.7
Breastfed 1+ Weeks	34,042	59.7	109,862	60.1
Breastfed 2+ Weeks	26,959	57.2	83,845	58.7
Breastfed 3+ Weeks	23,510	54.2	70,260	56.0
Breastfed 4+ Weeks	21,826	51.4	62,290	53.5
Breastfed 6+ Weeks	20,496	46.6	54,372	47.4
Breastfed 2+ Months	20,617	44.1	52,021	42.2
Breastfed 3+ Months	22,308	39.3	55,003	36.1
Breastfed 4+ Months	24,823	35.3	61,003	31.5
Breastfed 5+ Months	27,764	32.2	66,416	28.3
Breastfed 6+ Months	27,182	28.3	63,488	26.1
Breastfed 9+ Months	26,516	15.9	62,311	17.3
Breastfed 12+ Months	29,487	13.2	72,112	13.7
Breastfed 18+ Months	17,747	9.4	36,471	10.0
Exclusive Breastfeeding (6)				
Exclusively Breastfed at Least 3 Months	17,060	15.7	50,061	17.9
Exclusively Breastfed at Least 6 Months	22,234	7.7	57,863	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. 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

2021 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	188,977	46.0	29.1	13.3	0.3	2.3	9.0	0.1
National (Prior Year)	665,125	35.3	18.8	20.6	1.0	2.2	5.3	4.0

(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

2021 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	188,977	29.8	21.7	48.5
National (Prior Year)	665,125	31.4	18.7	37.0

(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) 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

2021 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	41,412	12.5	6.2	45,361	9.2	8.5	10.9	12,936	14.6	17.9	11,637	13.0
National (Prior Year)	132,223	11.8	5.8	433,338	11.8	4.7	12.8	177,451	15.7	14.7	117,914	16.2

(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.

(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.

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Table 7C

2021 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	%	Number	%		
Michigan	41,962	62.8	27,182	28.3	29,487	13.2	17,060	15.7	22,234	7.7	90,944	77.9	187,913	1.6
National (Prior Year)	132,310	65.7	63,488	26.1	72,112	13.7	50,061	17.9	57,863	7.3	205,447	78.2	571,316	3.8

(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.

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Table 8C

2021 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	18,526	10.5	7.9	22,281	8.6	8.2	10.7	7,016	14.2	16.7	5,929	11.9
Black, Not Hispanic	12,587	16.7	3.2	10,178	11.5	10.7	9.4	1,913	14.3	18.6	1,464	17.8
Hispanic	5,636	10.3	7.1	7,484	7.7	6.3	13.1	2,372	15.8	20.8	2,756	13.3
American Indian/Alaska Native	92	*	*	143	7.7	6.3	16.8	55	*	*	49	*
Asian/Pacific Islander	841	14.9	3.3	813	10.1	9.3	10.8	304	12.2	17.8	357	11.8
Multiple Races	3,667	10.9	6.7	4,403	9.0	8.9	11.4	1,267	15.4	18.5	1,070	12.7
All Other	31	*	*	32	*	*	*	3	*	*	4	*
Total	41,412	12.5	6.2	45,361	9.2	8.5	10.9	12,936	14.6	17.9	11,637	13.0
Age												
0 - 11 Months	-	*	*	24,016	10.7	12.2	5.7	-	*	*	809	16.7
12 - 23 Months	-	*	*	8,196	9.6	2.5	14.6	-	*	*	3,408	14.6
24 - 35 Months	-	*	*	5,601	6.1	6.2	14.9	5,055	13.3	14.5	2,958	13.8
36 - 47 Months	-	*	*	4,080	6.3	5.0	19.9	4,070	15.5	19.9	2,602	11.8
48 - 59 Months	-	*	*	3,468	6.7	5.2	20.9	3,462	15.6	20.9	1,860	9.2
Total	-	*	*	45,361	9.2	8.5	10.9	12,936	14.6	17.9	11,637	13.0

(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.

(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 9C

2021 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	18,815	68.3	12,660	32.1	13,810	16.1	42,836	85.5	86,475	1.7
Black, Not Hispanic	12,680	53.4	7,847	21.5	8,436	8.3	25,432	62.8	54,617	1.8
Hispanic	5,710	64.4	3,546	29.2	3,861	13.8	12,127	81.3	25,039	0.9
American Indian/Alaska Native	96	*	76	*	81	*	261	82.0	520	2.9
Asian/Pacific Islander	878	72.6	632	40.3	679	19.6	1,974	83.7	4,232	0.3
Multiple Races	3,720	62.5	2,378	26.2	2,601	11.2	8,253	78.7	16,861	2.0
All Other/Unknown	33	*	10	*	9	*	32	*	84	*
Total	41,962	62.8	27,182	28.3	29,487	13.2	90,944	77.9	187,913	1.6
Age										
0 - 11 Months	-	*	-	*	-	*	-	*	55,883	1.3
12 - 23 Months	-	*	-	*	-	*	-	*	40,843	1.7
24 - 35 Months	-	*	-	*	-	*	32,682	80.7	33,889	1.8
36 - 47 Months	-	*	-	*	-	*	28,507	77.4	29,368	1.8
48 - 59 Months	-	*	-	*	-	*	27,126	74.8	27,930	1.8
Total	41,962	62.8	27,182	28.3	29,487	13.2	90,944	77.9	187,913	1.6

(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

2021 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 %
2021	188,977	46.0	29.1	13.3	0.3	2.3	9.0	0.1
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

2021 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 %
2021	188,977	29.8	21.7	48.5
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

2021 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	%
2021	41,412	12.5	6.2	45,361	9.2	8.5	10.9	12,936	14.6	17.9	11,637	13.0
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 2021 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
2021	41,962	62.8	27,182	28.3	29,487	13.2
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 2021 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	11,157	10.0	11,157	11.9	11,157	5.6	0	*	*
12 - 23 Months	4,108	8.8	4,108	1.8	4,108	13.9	0	*	*
24 - 59 Months	6,988	6.3	6,988	5.9	6,988	16.7	6,988	14.2	16.7
Total	22,253	8.6	22,253	8.2	22,253	10.6	6,988	14.2	16.7
Black, Not Hispanic									
0 - 11 Months	7,103	12.9	7,103	12.9	7,103	5.8	0	*	*
12 - 23 Months	1,162	9.6	1,162	2.3	1,162	16.6	0	*	*
24 - 59 Months	1,909	7.6	1,909	7.5	1,909	18.6	1,909	14.2	18.6
Total	10,174	11.5	10,174	10.7	10,174	9.4	1,909	14.2	18.6
Hispanic									
0 - 11 Months	3,792	10.0	3,792	9.9	3,792	7.0	0	*	*
12 - 23 Months	1,320	6.7	1,320	1.1	1,320	16.6	0	*	*
24 - 59 Months	2,361	4.7	2,361	3.4	2,361	20.8	2,361	15.9	20.8
Total	7,473	7.7	7,473	6.3	7,473	13.1	2,361	15.9	20.8
American Indian/Alaska Native									
0 - 11 Months	57	*	57	*	57	*	0	*	*
12 - 23 Months	31	*	31	*	31	*	0	*	*
24 - 59 Months	55	*	55	*	55	*	55	*	*
Total	143	7.7	143	6.3	143	16.8	55	*	*

(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 16C 2021 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	338	12.7	338	11.8	338	4.1	0	*	*
12 - 23 Months	171	9.9	171	5.3	171	11.7	0	*	*
24 - 59 Months	303	7.3	303	8.9	303	17.8	324	11.4	16.7
Total	812	10.1	812	9.4	812	10.8	303	12.2	17.8
Multiple Races									
0 - 11 Months	2,424	10.1	2,424	13.2	2,424	6.1	0	*	*
12 - 23 Months	712	9.4	712	1.3	712	16.9	0	*	*
24 - 59 Months	1,260	6.7	1,260	4.8	1,260	18.5	1,260	15.5	22.0
Total	4,396	9.0	4,396	8.9	4,396	11.4	1,260	15.5	18.5
All Other/Unknown									
0 - 11 Months	26	*	26	*	26	*	0	*	*
12 - 23 Months	3	*	3	*	3	*	0	*	*
24 - 59 Months	3	*	3	*	3	*	3	*	*
Total	32	*	32	*	32	*	3	*	*
Total All Race/Ethnic Groups									
0 - 11 Months	24,916	10.9	24,916	12.0	24,916	5.9	0	*	*
12 - 23 Months	7,509	8.6	7,509	1.8	7,509	15.1	0	*	*
24 - 59 Months	12,885	6.3	12,885	5.7	12,885	17.9	12,885	14.6	17.9
Total	45,310	9.2	45,310	8.5	45,310	10.9	12,885	14.6	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 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 2021 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	393	16.8	6 - 11 Months	32	*
12 - 17 Months	1,047	14.5	12 - 17 Months	58	*
18 - 23 Months	692	12.7	18 - 23 Months	34	*
24 - 35 Months	1,546	11.5	24 - 35 Months	73	*
36 - 59 Months	2,187	9.7	36 - 59 Months	157	6.4
Total	5,865	11.9	Total	354	11.3
Black, Not Hispanic			Multiple Races		
6 - 11 Months	86	*	6 - 11 Months	64	*
12 - 17 Months	292	19.9	12 - 17 Months	186	11.8
18 - 23 Months	145	11.7	18 - 23 Months	114	17.5
24 - 35 Months	355	19.4	24 - 35 Months	260	15.8
36 - 59 Months	575	18.3	36 - 59 Months	438	9.4
Total	1,453	17.9	Total	1,062	12.6
Hispanic			All Other/Unknown		
6 - 11 Months	122	18.0	6 - 11 Months	1	*
12 - 17 Months	505	15.8	12 - 17 Months	3	*
18 - 23 Months	316	13.3	18 - 23 Months	2	*
24 - 35 Months	706	15.4	24 - 35 Months	3	*
36 - 59 Months	1,086	9.9	36 - 59 Months	3	*
Total	2,735	13.2	Total	12	*
American Indian/Alaska Native			Total All Race/Ethnic Groups		
6 - 11 Months	3	*	6 - 11 Months	701	16.3
12 - 17 Months	10	*	12 - 17 Months	2,101	15.6
18 - 23 Months	4	*	18 - 23 Months	1,307	13.2
24 - 35 Months	15	*	24 - 35 Months	2,958	13.8
36 - 59 Months	16	*	36 - 59 Months	4,462	10.7
Total	48	*	Total	11,529	13.0

(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

WIC PNSS & PedNSS

Table 18C

2021 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	2021	18,526	10.5	7.9	22,281	8.6	8.2	10.7	7,016	14.2	16.7	5,929	11.9
	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	2021	12,587	16.7	3.2	10,178	11.5	10.7	9.4	1,913	14.3	18.6	1,464	17.8
	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

(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

2021 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

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

Children Aged < 5 Years ⁽²⁾

Black, Not Hispanic	2016				2015				2014				2013				2012				2011			
	Count	WFL	WFL	WFL	Count	WFL	WFL	WFL	Count	WFL	WFL	WFL	Count	WFL	WFL	WFL	Count	WFL	WFL	WFL	Count	WFL	WFL	WFL
	15,331	15.1	3.5	3.5	60,949	7.9	4.2	8.7	24,395	13.9	10.4	39,952	33.0											
	16,219	14.9	3.4	3.4	63,104	7.5	4.1	8.4	25,277	14.0	10.1	41,390	31.6											
	16,486	13.9	3.7	3.7	65,179	7.0	4.0	8.6	26,469	14.7	10.6	43,113	30.3											
	17,015	13.1	3.7	3.7	65,995	6.8	4.0	8.9	26,866	14.8	10.9	42,551	30.4											
	16,431	13.6	3.7	3.7	65,159	6.8	4.3	9.0	26,658	13.9	10.4	42,673	28.4											
	16,616	13.6	4.0	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.

WIC PNSS & PedNSS

Table 18C

2021 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						
Hispanic	2021	5,636	10.3	7.1	7,484	7.7	6.3	13.1	2,372	15.8	20.8	2,756	13.3		
	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	2021	92	*	*	143	7.7	6.3	16.8	55	*	*	49	*		
	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		

(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

2021 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	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
	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.

WIC PNSS & PedNSS

Table 18C

2021 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										
Asian/Pacific Islander	2021	841	14.9	3.3	813	10.1	9.3	10.8	304	12.2	17.8	357	11.8
	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	2021	3,667	10.9	6.7	4,403	9.0	8.9	11.4	1,267	15.4	18.5	1,070	12.7
	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

(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

2021 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

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

Children Aged < 5 Years ⁽²⁾

Multiple Races	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
	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

2021 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	2021	31	*	*	32	*	*	*	3	*	*	4	*
	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	2021	41,412	12.5	6.2	45,361	9.2	8.5	10.9	12,936	14.6	17.9	11,637	13.0
	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

(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

2021 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	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 \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

2021 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	2021	18,815	68.3	12,660	32.1	13,810	16.1
	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	2021	12,680	53.4	7,847	21.5	8,436	8.3
	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

(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

2021 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Summary of Trends in Breastfeeding Indicators by Race/Ethnicity

Children Aged < 5 Years ⁽²⁾

Black, Not Hispanic	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
	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.

(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

2021 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	2021	5,710	64.4	3,546	29.2	3,861	13.8
	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	2021	96	*	76	*	81	*
	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

(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

2021 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Summary of Trends in Breastfeeding Indicators by Race/Ethnicity

Children Aged < 5 Years ⁽²⁾

American Indian/Alaska Native	2014	182	60.4	156	19.2	129	10.9
	2013	165	58.8	123	23.6	112	12.5
	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.

(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

2021 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	2021	878	72.6	632	40.3	679	19.6
	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	2021	3,720	62.5	2,378	26.2	2,601	11.2
	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

(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

2021 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Summary of Trends in Breastfeeding Indicators by Race/Ethnicity

Children Aged < 5 Years ⁽²⁾

Multiple Races	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
	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.

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WIC PNSS & PedNSS

Table 19C

2021 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	2021	33	*	10	*	9	*
	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	2021	41,962	62.8	27,182	28.3	29,487	13.2
	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

(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

2021 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Summary of Trends in Breastfeeding Indicators by Race/Ethnicity

Children Aged < 5 Years ⁽²⁾

Total All Race/Ethnic Groups	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.

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Table 20C

2021 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	%	%	%	%			Overweight	Obese	Stature	Weight	%	%	%	Overweight
		Number	%	%	%	Number	%	%			Number	%	%	%	Number	%	%
0 - 11 Months	2021	24,016	10.7	12.2	5.7	0	*	*	24 - 35 Months	2021	5,601	6.1	6.2	14.9	5,055	13.3	14.5
	2020	35,371	10.9	8.5	6.1	0	*	*		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		
12 - 23 Months	2021	8,196	9.6	2.5	14.6	0	*	*	36 - 47 Months	2021	4,080	6.3	5.0	19.9	4,070	15.5	19.9
	2020	19,336	9.2	1.4	11.7	0	*	*		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

(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

2021 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Summary of Trends in Growth Indicators by Age

Children Aged < 5 Years ⁽²⁾

12 - 23 Months	2014	54,900	7.3	0.7	10.1	0	*	*
	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	*	*
36 - 47 Months	2014	35,083	3.4	2.8	12.8	35,081	16.3	12.8
	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

(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

2021 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	2021	3,468	6.7	5.2	20.9	3,462	15.6	20.9	Total All Age Groups	2021	45,361	9.2	8.5	10.9	12,936	14.6	17.9						
	2020	10,151	3.9	4.1	15.3	10,143	16.3	15.4		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								

(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

2021 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	2021	701	16.3		18 - 23 Months	2021	1,307	13.2
	2020	1,610	17.2			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	2021	2,101	15.6		24 - 35 Months	2021	2,958	13.8
	2020	7,801	18.0			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

2021 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	2021	4,462	10.7	Total All Age Groups	2021	11,637	13.0
	2020	11,493	13.8		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	2021	0	*				
	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