

WIC PNNS & PedNSS

Table 4B

2018 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Racial and Ethnic Distribution by County

Children Aged < 5 Years ⁽²⁾

Comparison of Racial and Ethnic Distribution								
County	Number Included in Analysis <small>(3,4)</small>	White, Not Hispanic %	Black, Not Hispanic %	Hispanic %	American Indian/Alaska Native %	Asian/Pacific Islander %	Multiple Races %	All Other/Unknown %
Alcona	163	85.3	0.0	8.6	0.0	0.0	6.1	0.0
Alger	129	87.6	0.8	0.8	5.4	0.0	4.7	0.8
Allegan	2,221	71.7	1.5	18.6	0.2	0.0	7.2	0.7
Alpena	685	90.2	0.3	4.7	0.0	0.0	4.8	0.0
Antrim	475	89.1	0.0	3.2	0.6	0.0	7.2	0.0
Arenac	441	90.5	0.7	4.8	0.0	0.0	4.1	0.0
Baraga	205	43.9	0.0	1.5	46.8	0.0	7.8	0.0
Barry	1,058	91.1	0.6	4.8	0.0	0.1	2.8	0.6
Bay	2,360	67.0	2.1	16.7	0.1	0.3	13.3	0.3
Benzie	363	85.1	0.0	6.1	0.8	0.0	8.0	0.0
Berrien	3,483	43.1	37.3	9.7	0.2	0.9	8.0	0.8
Branch	1,314	79.7	0.4	13.0	0.0	0.5	4.8	1.7
Calhoun	4,013	51.0	19.0	8.6	0.1	6.0	15.2	0.0
Cass	1,526	52.0	6.6	29.5	0.2	0.2	10.9	0.7
Charlevoix	614	86.6	0.3	5.5	0.0	0.3	7.2	0.0
Cheboygan	493	82.4	0.0	2.8	0.0	0.0	14.8	0.0
Chippewa	927	43.7	0.2	4.4	18.6	0.3	32.7	0.1
Clare	834	89.6	0.0	5.8	0.1	0.0	4.4	0.1
Clinton	714	75.1	0.4	18.2	0.0	0.1	6.2	0.0
Crawford	326	90.8	0.0	2.8	0.0	0.0	5.2	1.2
Delta	902	75.8	0.0	3.8	0.1	0.2	20.1	0.0

(1) Reporting period is January 1 through December 31

(2) Analyses based on one record per child

(3) Excludes records with unknown data errors.

(4) Prenatal program participation

* 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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County	Number Included in Analysis ^(3,4)	White, Not Hispanic %	Black, Not Hispanic %	Hispanic %	American Indian/Alaska Native %	Asian/Pacific Islander %	Multiple Races %	All Other/Unknown %
Dickinson	616	89.9	0.5	2.9	0.0	0.0	6.3	0.3
Eaton	1,217	75.4	4.4	10.9	0.0	0.4	8.3	0.5
Emmet	754	83.8	0.7	3.2	3.2	0.7	8.4	0.1
Genesee	10,580	39.7	39.5	6.8	0.0	0.2	13.6	0.1
Gladwin	690	92.5	1.0	2.0	0.1	0.0	4.2	0.1
Gogebic	344	82.3	0.9	2.6	7.8	0.0	6.1	0.3
Gr Travers	1,646	78.6	0.9	9.3	0.7	0.5	9.4	0.6
Gratiot	964	77.4	0.0	16.6	0.0	0.0	6.0	0.0
Hillsdale	1,098	87.1	0.2	4.2	0.0	0.0	6.8	1.7
Houghton	790	86.7	1.4	2.8	0.0	1.9	6.8	0.4
Huron	659	90.0	0.8	5.9	0.0	0.0	3.3	0.0
Ingham	6,552	32.3	25.4	20.4	0.1	5.6	16.2	0.1
Ionia	1,525	80.5	0.2	12.5	0.0	0.0	6.9	0.0
Iosco	665	86.2	0.2	5.6	0.0	0.0	8.1	0.0
Iron	256	93.0	0.0	1.6	0.0	0.0	5.5	0.0
Isabella	1,376	74.9	2.5	6.5	2.1	0.4	13.5	0.1
Jackson	4,259	59.3	13.5	8.7	0.0	0.3	18.0	0.0
Kalamazoo	5,624	38.2	33.7	12.0	0.1	0.6	15.3	0.1
Kalkaska	410	90.7	0.0	3.9	0.2	0.0	4.9	0.2
Kent	15,025	27.6	23.8	34.1	0.1	4.8	9.5	0.1
Lake	248	58.5	12.1	9.3	0.0	0.0	20.2	0.0

(1) Reporting period is January 1 through December 31

(2) Analyses based on one record per child

(3) Excludes records with unknown data errors.

(4) Prenatal program participation

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2018 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

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Children Aged < 5 Years ⁽²⁾

Comparison of Racial and Ethnic Distribution								
County	Number Included in Analysis ^(3,4)	White, Not Hispanic %	Black, Not Hispanic %	Hispanic %	American Indian/Alaska Native %	Asian/Pacific Islander %	Multiple Races %	All Other/Unknown %
Lapeer	1,761	74.2	0.4	17.6	0.0	0.2	7.5	0.2
Leelanau	220	49.1	1.4	32.7	6.8	0.0	10.0	0.0
Lenawee	1,870	60.5	1.9	24.8	0.1	0.0	12.0	0.7
Livingston	1,516	87.3	0.6	5.1	0.0	0.5	6.5	0.0
Luce	187	76.5	0.0	3.7	1.6	0.0	18.2	0.0
Mackinac	199	35.2	0.5	2.5	0.5	0.0	61.3	0.0
Macomb	12,504	53.5	24.2	5.7	0.1	5.8	10.4	0.3
Manistee	461	73.8	0.7	9.5	1.7	0.0	14.3	0.0
Marquette	1,115	81.4	0.4	3.7	1.7	0.5	12.3	0.0
Mason	648	76.5	1.1	14.4	0.2	0.3	7.4	0.2
Mecosta	990	82.7	3.2	4.8	0.0	0.1	9.1	0.0
Menominee	382	63.4	0.5	7.1	13.6	0.3	15.2	0.0
Midland	1,409	89.5	0.7	3.5	0.2	0.2	5.9	0.0
Missaukee	309	89.0	0.0	10.4	0.0	0.3	0.3	0.0
Monroe	2,450	72.6	4.6	8.9	0.1	0.4	13.1	0.4
Montcalm	1,402	86.9	0.1	7.2	0.0	0.1	5.4	0.1
Montmorenc	184	93.5	0.0	2.2	1.1	0.0	3.3	0.0
Muskegon	5,537	47.1	25.9	13.6	0.2	0.2	12.9	0.0
Newaygo	1,465	74.7	0.1	18.5	0.0	0.3	6.1	0.3
Oakland	14,700	37.6	37.4	13.6	0.1	2.0	9.2	0.1
Oceana	849	49.4	1.1	44.6	0.0	0.0	4.4	0.6

(1) Reporting period is January 1 through December 31

(2) Analyses based on one record per child

(3) Excludes records with unknown data errors.

(4) Prenatal program participation

* 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 4B

2018 Pediatric Nutrition Surveillance (1)

Michigan

Comparison of Racial and Ethnic Distribution by County

Children Aged < 5 Years (2)

Comparison of Racial and Ethnic Distribution								
County	Number Included in Analysis (3,4)	White, Not Hispanic %	Black, Not Hispanic %	Hispanic %	American Indian/Alaska Native %	Asian/Pacific Islander %	Multiple Races %	All Other/Unknown %
Ogemaw	588	86.9	0.0	6.1	0.0	0.0	7.0	0.0
Ontonagon	64	*	*	*	*	*	*	*
Osceola	595	88.7	1.0	4.2	0.2	0.0	5.9	0.0
Oscoda	227	89.9	0.0	5.3	0.0	0.0	4.8	0.0
Otsego	697	94.4	0.1	2.0	0.0	0.1	3.3	0.0
Ottawa	4,567	51.5	3.6	34.8	0.0	1.5	8.2	0.4
Presque Is	166	88.0	0.6	3.0	0.0	0.0	8.4	0.0
Roscommon	460	86.7	0.2	5.2	0.0	0.0	7.8	0.0
Saginaw	5,272	28.6	39.4	22.6	0.0	0.4	8.8	0.2
Sanilac	824	87.5	0.6	7.3	0.0	0.2	4.1	0.2
Schoolcraf	194	65.5	1.0	1.5	6.7	0.5	24.7	0.0
Shiawassee	1,596	82.0	0.6	8.8	0.1	0.1	8.3	0.2
St Clair	2,922	70.2	4.1	10.7	0.1	0.1	14.5	0.3
St Joseph	1,867	62.6	1.6	25.3	0.1	0.0	10.4	0.1
Tuscola	1,369	87.4	0.7	7.5	0.1	0.1	4.2	0.0
Van Buren	2,085	56.0	3.1	31.4	0.3	0.1	7.7	1.4
Washtenaw	4,267	30.3	37.3	12.7	0.0	2.6	16.6	0.4
Wayne	54,511	26.1	55.1	11.1	0.1	2.7	4.8	0.2
Wexford	1,151	87.1	0.2	6.1	0.0	0.1	6.3	0.3
Michigan	212,233	47.0	27.6	13.6	0.3	2.0	9.2	0.2

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2018 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Racial and Ethnic Distribution by County

Children Aged < 5 Years ⁽²⁾

National (Prior Year)	323,319	46.5	21.0	14.9	2.1	2.2	7.7	5.6
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Table 5B

2018 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Age Distribution by County

Children Aged < 5 Years ⁽²⁾

Comparison of Age Distribution				
County	Number Included in Analysis (3,4)	0 - 11 Months %	12 - 23 Months %	24 - 59 Months %
Alcona	163	28.8	23.3	47.9
Alger	129	31.8	24.8	43.4
Allegan	2,221	25.8	24.1	50.0
Alpena	685	22.6	27.6	49.8
Antrim	475	25.1	19.2	55.8
Arenac	441	26.3	18.6	55.1
Baraga	205	25.9	20.5	53.7
Barry	1,058	30.2	19.8	50.1
Bay	2,360	25.6	25.0	49.4
Benzie	363	28.9	21.2	49.9
Berrien	3,483	33.1	18.9	48.0
Branch	1,314	28.7	21.8	49.5
Calhoun	4,013	27.1	21.9	50.9
Cass	1,526	24.1	21.5	54.4
Charlevoix	614	30.5	19.5	50.0
Cheboygan	493	27.2	23.5	49.3
Chippewa	927	27.2	22.7	50.2
Clare	834	26.7	21.0	52.3
Clinton	714	32.4	21.0	46.6
Crawford	326	25.2	27.0	47.9
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Gogebic	344	25.3	24.4	50.3
Gr Travers	1,646	29.8	25.2	45.0
Gratiot	964	28.9	20.3	50.7
Hillsdale	1,098	27.5	23.3	49.2
Houghton	790	25.3	24.8	49.9
Huron	659	25.2	26.9	48.0
Ingham	6,552	32.4	20.6	46.9
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Lenawee	1,870	30.2	22.6	47.2
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Manistee	461	25.8	27.5	46.6
Marquette	1,115	25.4	22.6	52.0
Mason	648	23.8	23.3	52.9
Mecosta	990	29.2	21.9	48.9
Menominee	382	23.6	26.4	50.0
Midland	1,409	33.2	21.6	45.1
Missaukee	309	25.6	24.9	49.5
Monroe	2,450	29.4	24.2	46.4
Montcalm	1,402	31.3	21.3	47.4
Montmorenc	184	32.1	22.3	45.7
Muskegon	5,537	28.4	23.6	48.0
Newaygo	1,465	25.0	22.7	52.4
Oakland	14,700	31.3	21.1	47.6
Oceana	849	23.2	20.6	56.2

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Children Aged < 5 Years ⁽²⁾

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Ogemaw	588	27.6	20.6	51.9
Ontonagon	64	*	*	*
Osceola	595	25.2	24.2	50.6
Oscoda	227	28.2	19.4	52.4
Otsego	697	27.7	21.8	50.5
Ottawa	4,567	25.7	23.2	51.1
Presque Is	166	28.9	24.1	47.0
Roscommon	460	27.6	22.2	50.2
Saginaw	5,272	32.7	21.1	46.2
Sanilac	824	28.4	22.6	49.0
Schoolcraf	194	32.5	24.7	42.8
Shiawassee	1,596	25.6	22.1	52.4
St Clair	2,922	29.6	20.5	49.9
St Joseph	1,867	31.4	20.1	48.5
Tuscola	1,369	29.4	21.2	49.4
Van Buren	2,085	25.1	21.8	53.1
Washtenaw	4,267	28.9	22.2	48.9
Wayne	54,511	33.7	20.2	46.0
Wexford	1,151	25.1	24.5	50.4
Michigan	212,233	30.3	21.6	48.1

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National (Prior Year)	323,319	29.3	22.1	48.6
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WIC PNNS & PedNSS

Table 6B

2018 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Growth and Anemia Indicators by County

Children Aged < 5 Years ⁽²⁾

Comparison of Growth and Anemia Indicators ^(3,4)

County	Birth Weight ⁽⁵⁾			Height and Weight ^(6,7)						Anemia Low Hb/Hct ⁽⁸⁾		
	Low		High	Short Stature		Under-Weight	Obese	≥ 2 Yrs Overweight and Obese				
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
Alcona	38	*	*	158	8.9 (66)	2.5 (33)	10.1 (22)	71	*	*	108	20.4 (56)
Alger	30	*	*	126	6.3 (18)	2.4 (28)	13.5 (73)	48	*	*	87	*
Allegan	485	9.1 (28)	8.9 (40)	2,158	7.1 (34)	3.4 (54)	11.5 (50)	954	16.1 (18)	13.8 (28)	1,473	29.6 (76)
Alpena	132	4.5 (2)	11.4 (56)	667	9.1 (71)	2.1 (20)	13.0 (67)	287	19.2 (61)	17.4 (62)	490	22.4 (63)
Antrim	94	*	*	465	6.9 (30)	6.0 (78)	10.8 (37)	227	13.7 (4)	13.7 (26)	308	10.4 (14)
Arenac	103	6.8 (13)	9.7 (50)	429	6.1 (13)	2.1 (20)	10.5 (30)	195	17.4 (42)	14.9 (40)	281	13.2 (28)
Baraga	38	*	*	201	6.5 (22)	1.0 (1)	19.4 (81)	96	*	*	136	12.5 (24)
Barry	235	8.1 (21)	11.5 (57)	1,029	6.5 (22)	2.9 (44)	9.0 (7)	434	18.2 (52)	11.1 (3)	667	12.1 (22)
Bay	507	8.5 (26)	8.9 (40)	2,295	8.5 (60)	1.7 (8)	13.1 (68)	956	18.2 (52)	18.6 (69)	1,604	13.7 (30)
Benzie	84	*	*	352	8.0 (50)	3.4 (54)	11.6 (52)	153	17.0 (35)	15.7 (50)	224	21.0 (59)
Berrien	807	9.7 (36)	7.4 (23)	3,386	7.2 (36)	3.6 (60)	10.7 (35)	1,386	16.9 (32)	14.4 (33)	2,314	19.2 (52)
Branch	312	6.4 (11)	6.4 (15)	1,285	9.1 (71)	2.7 (41)	13.2 (69)	552	16.1 (18)	15.2 (43)	811	4.8 (3)
Calhoun	886	9.6 (35)	7.4 (23)	3,889	8.2 (56)	3.4 (54)	13.4 (72)	1,717	16.9 (32)	15.7 (50)	2,714	24.0 (69)

(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) Rank compares one County's rate to other Counties. Rank 1 = best rate.

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

(6) 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.

(7) 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.

(8) 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.

* 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 PNNS & PedNSS

Table 6B

2018 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Growth and Anemia Indicators by County

Children Aged < 5 Years ⁽²⁾

Comparison of Growth and Anemia Indicators ^(3,4)

County	Birth Weight ⁽⁵⁾			Height and Weight ^(6,7)							Anemia Low Hb/Hct ⁽⁸⁾	
	Low	High		Short Stature	Under- Weight	Obese	≥ 2 Yrs Overweight and Obese					
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
Cass	302	9.3 (33)	8.6 (36)	1,488	6.7 (28)	1.7 (8)	12.8 (64)	700	17.7 (45)	18.3 (66)	1,035	23.0 (66)
Charlevoix	121	6.6 (12)	3.3 (1)	600	7.2 (36)	4.3 (73)	10.0 (20)	249	17.7 (45)	15.7 (50)	408	8.8 (7)
Cheboygan	116	10.3 (44)	8.6 (36)	475	5.7 (6)	4.4 (75)	10.1 (22)	206	18.9 (58)	15.5 (47)	322	21.4 (62)
Chippewa	209	3.8 (1)	9.1 (42)	904	6.3 (18)	4.2 (72)	14.7 (78)	394	16.0 (17)	18.0 (65)	582	28.4 (73)
Clare	179	6.1 (8)	9.5 (47)	815	6.1 (13)	3.3 (52)	9.0 (7)	360	20.6 (67)	13.9 (29)	559	14.1 (32)
Clinton	160	10.6 (53)	7.5 (25)	696	9.8 (78)	1.7 (8)	10.6 (33)	269	19.3 (62)	13.4 (21)	476	4.0 (1)
Crawford	69	*	*	301	7.0 (32)	4.0 (66)	11.3 (48)	124	11.3 (1)	17.7 (64)	222	22.5 (64)
Delta	195	9.7 (36)	9.2 (44)	878	9.0 (70)	2.3 (24)	9.0 (7)	393	18.8 (57)	10.7 (2)	601	10.1 (12)
Dickinson	135	8.1 (21)	8.1 (32)	606	6.6 (25)	3.3 (52)	8.6 (6)	258	17.1 (37)	12.4 (12)	397	23.4 (67)
Eaton	255	4.7 (3)	9.4 (46)	1,187	8.3 (57)	2.7 (41)	12.5 (61)	500	24.4 (71)	16.8 (55)	756	11.0 (16)
Emmet	157	10.2 (42)	10.2 (52)	740	8.5 (60)	4.1 (69)	10.1 (22)	337	15.1 (10)	11.3 (4)	517	10.3 (13)
Genesee	2,491	13.3 (62)	5.7 (9)	10,264	9.4 (75)	3.0 (47)	10.9 (39)	4,185	15.9 (15)	12.2 (9)	6,788	24.5 (70)
Gladwin	141	9.9 (39)	9.9 (51)	668	8.5 (60)	1.9 (16)	10.8 (37)	305	17.4 (42)	14.4 (33)	467	11.1 (17)
Gogebic	69	*	*	336	5.7 (6)	2.4 (28)	10.7 (35)	152	13.8 (5)	17.1 (58)	222	9.5 (10)

(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) Rank compares one County's rate to other Counties. Rank 1 = best rate.

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

(6) 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.

(7) 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.

(8) 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.

* 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 PNNS & PedNSS

Table 6B

2018 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Growth and Anemia Indicators by County

Children Aged < 5 Years ⁽²⁾

Comparison of Growth and Anemia Indicators ^(3,4)

County	Birth Weight ⁽⁵⁾			Height and Weight ^(6,7)						Anemia Low Hb/Hct ⁽⁸⁾		
	Low	High		Short Stature	Under-Weight	Obese	≥ 2 Yrs Overweight and Obese					
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
Gr Travers	409	10.3 (44)	11.5 (57)	1,550	4.6 (2)	6.9 (80)	9.1 (10)	644	21.9 (69)	12.0 (8)	985	18.5 (48)
Gratiot	210	11.0 (54)	6.7 (18)	943	7.7 (45)	3.0 (47)	11.0 (42)	402	18.7 (56)	16.9 (57)	658	4.4 (2)
Hillsdale	231	6.1 (8)	6.1 (12)	1,070	9.3 (73)	1.4 (4)	11.7 (53)	448	17.6 (44)	15.0 (41)	691	21.3 (61)
Houghton	166	4.8 (4)	7.2 (22)	760	8.8 (65)	1.8 (12)	8.4 (5)	322	16.5 (27)	9.9 (1)	496	11.9 (20)
Huron	119	7.6 (19)	16.8 (62)	643	8.9 (66)	2.6 (37)	14.0 (74)	260	13.8 (5)	15.8 (53)	468	13.5 (29)
Ingham	1,573	10.4 (49)	6.7 (18)	6,370	8.9 (66)	3.2 (50)	10.3 (27)	2,606	17.2 (40)	13.5 (23)	4,204	15.6 (37)
Ionia	309	9.7 (36)	6.1 (12)	1,492	5.8 (9)	4.3 (73)	11.1 (46)	647	19.0 (59)	13.3 (19)	1,088	12.3 (23)
Iosco	175	9.1 (28)	8.6 (36)	645	8.1 (52)	3.9 (64)	10.5 (30)	260	16.5 (27)	15.4 (46)	423	23.6 (68)
Iron	52	*	*	248	6.0 (12)	4.0 (66)	14.5 (77)	112	19.6 (64)	22.3 (70)	180	11.7 (19)
Isabella	334	7.2 (15)	7.8 (27)	1,347	7.2 (36)	3.5 (58)	11.9 (55)	547	17.0 (35)	17.6 (63)	859	15.4 (35)
Jackson	954	10.3 (44)	6.9 (20)	4,126	5.6 (5)	6.7 (79)	9.6 (15)	1,786	17.7 (45)	15.0 (41)	2,694	21.1 (60)
Kalamazoo	1,245	10.3 (44)	8.0 (29)	5,466	5.7 (6)	3.9 (64)	10.9 (39)	2,345	17.1 (37)	13.4 (21)	3,772	36.6 (78)
Kalkaska	90	*	*	384	8.1 (52)	1.8 (12)	9.1 (10)	175	17.1 (37)	13.1 (16)	271	22.5 (64)
Kent	3,245	11.3 (56)	7.1 (21)	14,630	9.4 (75)	2.3 (24)	10.9 (39)	6,255	15.7 (14)	13.1 (16)	9,884	18.4 (47)

(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) Rank compares one County's rate to other Counties. Rank 1 = best rate.

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

(6) 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.

(7) 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.

(8) 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.

* 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 PNNS & PedNSS

Table 6B 2018 Pediatric Nutrition Surveillance ⁽¹⁾ Michigan

Comparison of Growth and Anemia Indicators by County Children Aged < 5 Years ⁽²⁾

Comparison of Growth and Anemia Indicators ^(3,4)

County	Birth Weight ⁽⁵⁾			Height and Weight ^(6,7)						Anemia Low Hb/Hct ⁽⁸⁾		
	Low	High		Short Stature	Under- Weight	Obese	≥ 2 Yrs Overweight and Obese					
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
Lake	42	*	*	237	7.2 (36)	2.5 (33)	10.1 (22)	102	18.6 (55)	13.7 (26)	186	18.3 (46)
Lapeer	389	10.5 (50)	8.0 (29)	1,720	6.6 (25)	2.0 (19)	10.2 (26)	750	17.9 (49)	16.8 (55)	1,173	13.7 (30)
Leelanau	41	*	*	210	6.2 (17)	5.2 (77)	11.0 (42)	89	*	*	142	6.3 (5)
Lenawee	429	6.3 (10)	8.4 (34)	1,836	7.4 (42)	2.5 (33)	11.8 (54)	759	19.9 (66)	16.7 (54)	1,096	24.9 (71)
Livingston	361	11.9 (58)	10.5 (54)	1,478	8.9 (66)	2.2 (23)	8.2 (3)	623	18.0 (51)	11.4 (5)	978	9.4 (9)
Luce	48	*	*	178	2.8 (1)	7.3 (81)	5.6 (1)	66	*	*	120	16.7 (39)
Mackinac	35	*	*	196	6.1 (13)	4.1 (69)	9.7 (16)	89	*	*	143	7.0 (6)
Macomb	3,033	10.5 (50)	5.0 (6)	12,185	7.4 (42)	2.3 (24)	11.0 (42)	4,796	15.1 (10)	13.3 (19)	8,009	20.2 (55)
Manistee	102	4.9 (5)	15.7 (61)	451	8.0 (50)	1.8 (12)	12.2 (58)	179	16.2 (22)	17.3 (61)	308	16.9 (40)
Marquette	247	10.5 (50)	6.1 (12)	1,030	10.5 (80)	3.2 (50)	12.3 (60)	468	21.6 (68)	14.1 (30)	598	11.9 (20)
Mason	128	9.4 (34)	3.9 (2)	627	7.7 (45)	2.6 (37)	9.7 (16)	285	16.8 (31)	11.9 (6)	443	15.6 (37)
Mecosta	242	10.3 (44)	8.3 (33)	962	9.3 (73)	2.6 (37)	12.0 (56)	416	19.0 (59)	14.2 (31)	646	14.1 (32)
Menominee	71	*	*	371	5.9 (11)	2.4 (28)	14.0 (74)	151	11.9 (2)	17.2 (60)	250	10.8 (15)
Midland	309	7.4 (18)	9.1 (42)	1,379	8.6 (64)	1.9 (16)	14.1 (76)	530	19.6 (64)	14.7 (38)	883	17.6 (41)

(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) Rank compares one County's rate to other Counties. Rank 1 = best rate.

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

(6) 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.

(7) 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.

(8) 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.

* 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 PNNS & PedNSS

Table 6B

2018 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Growth and Anemia Indicators by County

Children Aged < 5 Years ⁽²⁾

Comparison of Growth and Anemia Indicators ^(3,4)

County	Birth Weight ⁽⁵⁾			Height and Weight ^(6,7)						Anemia Low Hb/Hct ⁽⁸⁾		
	Low	High		Short Stature	Under-Weight	Obese	≥ 2 Yrs Overweight and Obese					
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
Missaukee	76	*	*	305	6.9 (30)	1.6 (6)	11.1 (46)	135	16.3 (23)	14.8 (39)	209	12.9 (26)
Monroe	562	7.3 (16)	6.6 (16)	2,376	7.2 (36)	2.6 (37)	10.5 (30)	966	16.9 (32)	15.5 (47)	1,562	18.2 (44)
Montcalm	317	5.7 (6)	6.6 (16)	1,371	9.5 (77)	2.3 (24)	11.5 (50)	553	15.4 (12)	12.7 (13)	947	5.8 (4)
Montmorenc	50	*	*	179	12.3 (81)	2.8 (43)	12.8 (64)	74	*	*	95	*
Muskegon	1,313	11.7 (57)	5.8 (10)	5,338	8.1 (52)	2.5 (33)	12.6 (63)	2,255	17.9 (49)	14.4 (33)	3,683	29.4 (75)
Newaygo	320	9.1 (28)	7.5 (25)	1,424	7.0 (32)	1.5 (5)	11.3 (48)	646	18.3 (54)	13.5 (23)	992	19.1 (50)
Oakland	3,212	12.5 (59)	5.2 (7)	14,281	7.9 (48)	3.0 (47)	9.5 (13)	5,881	15.0 (9)	11.9 (6)	9,616	26.0 (72)
Oceana	169	8.3 (24)	5.3 (8)	813	6.5 (22)	1.6 (6)	12.9 (66)	404	16.3 (23)	18.3 (66)	590	12.9 (26)
Ogemaw	119	10.1 (41)	12.6 (60)	578	6.6 (25)	2.1 (20)	12.1 (57)	254	14.6 (7)	14.6 (36)	397	19.1 (50)
Ontonagon	15	*	*	64	*	*	*	28	*	*	42	*
Osceola	130	9.2 (31)	11.5 (57)	589	7.6 (44)	2.4 (28)	10.4 (28)	254	16.1 (18)	14.6 (36)	414	17.9 (43)
Oscoda	51	*	*	218	7.8 (47)	4.1 (69)	7.3 (2)	93	*	*	148	14.2 (34)
Otsego	109	8.3 (24)	4.6 (3)	676	5.5 (4)	4.4 (75)	13.3 (70)	298	16.4 (25)	17.1 (58)	440	18.2 (44)
Ottawa	1,011	10.0 (40)	9.5 (47)	4,442	5.8 (9)	2.9 (44)	10.0 (20)	1,988	15.6 (13)	12.7 (13)	3,082	41.0 (79)

(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) Rank compares one County's rate to other Counties. Rank 1 = best rate.

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

(6) 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.

(7) 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.

(8) 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.

* 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 PNNS & PedNSS

Table 6B

2018 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Growth and Anemia Indicators by County

Children Aged < 5 Years ⁽²⁾

Comparison of Growth and Anemia Indicators ^(3,4)

County	Birth Weight ⁽⁵⁾			Height and Weight ^(6,7)						Anemia Low Hb/Hct ⁽⁸⁾		
	Low	High		Short Stature	Under- Weight	Obese	≥ 2 Yrs Overweight and Obese					
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
Presque Is	39	*	*	164	7.9 (48)	1.2 (2)	9.8 (18)	64	*	*	108	20.4 (56)
Roscommon	101	6.9 (14)	7.9 (28)	451	6.7 (28)	3.5 (58)	9.5 (13)	191	13.6 (3)	15.2 (43)	293	17.7 (42)
Saginaw	1,271	11.2 (55)	5.8 (10)	5,096	6.1 (13)	4.0 (66)	11.0 (42)	2,072	17.2 (40)	12.7 (13)	3,364	19.6 (54)
Sanilac	175	5.7 (6)	10.3 (53)	782	10.1 (79)	1.2 (2)	16.8 (80)	332	23.5 (70)	24.4 (71)	541	20.7 (58)
Schoolcraf	47	*	*	189	8.5 (60)	3.7 (61)	12.2 (58)	70	*	*	134	9.0 (8)
Shiawassee	325	10.2 (42)	8.0 (29)	1,554	6.3 (18)	3.7 (61)	10.6 (33)	712	17.8 (48)	15.2 (43)	1,105	15.4 (35)
St Clair	677	8.7 (27)	9.3 (45)	2,845	8.3 (57)	1.9 (16)	10.4 (28)	1,212	19.5 (63)	14.3 (32)	1,835	12.6 (25)
St Joseph	428	7.9 (20)	8.4 (34)	1,824	8.1 (52)	1.8 (12)	13.3 (70)	773	16.6 (30)	15.5 (47)	1,239	11.5 (18)
Tuscola	328	7.3 (16)	10.7 (55)	1,342	6.4 (21)	2.4 (28)	9.1 (10)	564	16.5 (27)	13.5 (23)	885	9.9 (11)
Van Buren	406	8.1 (21)	9.6 (49)	2,034	4.9 (3)	2.9 (44)	15.2 (79)	941	15.9 (15)	18.4 (68)	1,432	18.7 (49)
Washtenaw	907	13.0 (60)	4.7 (4)	4,149	7.1 (34)	3.4 (54)	8.2 (3)	1,747	16.4 (25)	12.2 (9)	2,924	28.5 (74)
Wayne	13,435	13.0 (60)	4.9 (5)	52,786	7.3 (41)	3.7 (61)	9.8 (18)	21,266	14.8 (8)	12.2 (9)	33,793	31.5 (77)
Wexford	249	9.2 (31)	8.8 (39)	1,120	8.3 (57)	1.7 (8)	12.5 (61)	491	16.1 (18)	13.2 (18)	792	19.2 (52)

(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) Rank compares one County's rate to other Counties. Rank 1 = best rate.

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

(6) 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.

(7) 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.

(8) 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.

* National includes previous year's data for all participating States and ITOs

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WIC PNNS & PedNSS

Run Date: 6/4/2019

Table 6B

2018 Pediatric Nutrition Surveillance ⁽¹⁾

Page : 17

Michigan

Comparison of Growth and Anemia Indicators by County

Children Aged < 5 Years ⁽²⁾

Michigan	48,804	11.0	6.6	205,990	7.6	3.2	10.7	85,908	16.3	13.5	136,909	23.4
National (Prior Year)	64,446	10.8	7.0	313,489	7.4	2.9	10.9	133,678	16.4	13.4	211,699	19.3

(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) Rank compares one County's rate to other Counties. Rank 1 = best rate.

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

(6) 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.

(7) 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.

(8) 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.

* 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 PNNS & PedNSS

Table 7B

2018 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County ⁽²⁾

Children Aged < 5 Years ⁽³⁾

Comparison of Breastfeeding, TV Viewing, and Smoking in Household ^(4,5)

County	Breastfeeding ⁽⁶⁾				Exclusive Breastfeeding ⁽⁷⁾				≤ 2 Hours TV Viewing/Day ⁽⁸⁾		Smoking in Household			
	Number	% Ever Breastfed (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% (Rank)	Number	% (Rank)		
Alcona	38	*	36	*	30	*	21	*	29	*	77	*	163	3.7 (44)
Alger	30	*	25	*	23	*	14	*	17	*	56	*	129	3.9 (50)
Allegan	488	76.2 (31)	358	35.5 (31)	375	10.9 (48)	227	22.5 (14)	285	10.5 (31)	1,075	89.8 (22)	2,199	2.2 (25)
Alpena	132	69.7 (47)	117	29.1 (49)	138	12.3 (40)	98	*	108	12.0 (25)	340	74.1 (73)	684	5.7 (66)
Antrim	98	*	82	*	68	*	56	*	69	*	264	84.1 (56)	473	6.3 (68)
Arenac	103	68.9 (48)	66	*	61	*	43	*	51	*	242	86.8 (45)	440	8.9 (80)
Baraga	38	*	44	*	32	*	22	*	32	*	98	*	186	2.7 (36)
Barry	241	78.8 (15)	201	40.3 (14)	135	17.8 (16)	136	27.9 (8)	172	12.2 (24)	530	92.5 (9)	1,057	2.0 (23)
Bay	509	71.3 (43)	335	32.8 (38)	398	12.3 (40)	208	21.2 (17)	286	7.0 (46)	1,164	88.4 (35)	2,359	2.2 (25)
Benzie	84	*	62	*	46	*	38	*	46	*	180	88.3 (36)	363	8.0 (76)
Berrien	808	68.4 (50)	551	27.9 (52)	442	12.9 (35)	457	17.3 (32)	476	9.9 (35)	1,656	77.7 (69)	3,473	4.2 (55)
Branch	317	78.9 (14)	216	44.0 (7)	197	13.7 (33)	165	31.5 (4)	178	16.3 (7)	644	80.7 (61)	1,305	3.3 (41)
Calhoun	890	71.2 (44)	615	28.6 (51)	660	12.3 (40)	440	15.9 (34)	502	10.0 (34)	2,025	91.0 (19)	4,004	1.5 (11)

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(4) Excludes records with unknown data or errors.

(5) Rank compares one County's rate to other Counties. Rank 1 = best rate.

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

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WIC PNNS & PedNSS

Table 7B

2018 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County ⁽²⁾

Children Aged < 5 Years ⁽³⁾

Comparison of Breastfeeding, TV Viewing, and Smoking in Household ^(4,5)

County	Breastfeeding ⁽⁶⁾				Exclusive Breastfeeding ⁽⁷⁾				≤ 2 Hours TV Viewing/Day ⁽⁸⁾		Smoking in Household			
	Number	% Ever Breastfed (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% (Rank)	Number	% (Rank)		
Cass	303	77.2 (21)	240	37.9 (20)	249	15.3 (26)	194	24.7 (12)	202	17.8 (5)	819	92.8 (8)	1,514	1.3 (6)
Charlevoix	135	82.2 (8)	100	48.0 (4)	86	*	73	*	84	*	306	86.9 (43)	613	3.3 (41)
Cheboygan	117	82.9 (6)	92	*	101	10.9 (48)	61	*	76	*	243	82.7 (59)	493	5.3 (62)
Chippewa	210	72.4 (39)	153	49.7 (2)	155	20.6 (5)	105	41.0 (2)	132	31.8 (1)	465	91.6 (16)	926	11.4 (81)
Clare	180	68.3 (51)	153	41.2 (10)	143	12.6 (37)	100	19.0 (23)	127	13.4 (16)	436	93.6 (5)	834	4.4 (56)
Clinton	160	83.1 (5)	126	39.7 (17)	96	*	84	*	106	8.5 (40)	324	85.2 (50)	707	1.4 (9)
Crawford	69	*	64	*	72	*	41	*	53	*	156	84.6 (53)	325	4.0 (52)
Delta	196	78.6 (16)	134	29.9 (47)	152	11.2 (45)	105	18.1 (28)	114	6.1 (51)	459	89.5 (24)	900	3.7 (44)
Dickinson	135	71.9 (40)	85	*	92	*	78	*	75	*	310	88.7 (31)	615	1.6 (12)
Eaton	266	84.2 (1)	235	34.9 (33)	190	17.9 (15)	150	15.3 (36)	197	8.6 (39)	604	79.8 (66)	1,212	2.6 (33)
Emmet	161	82.0 (9)	138	46.4 (5)	128	24.2 (3)	81	*	118	23.7 (2)	388	85.8 (47)	752	2.5 (30)
Genesee	2,502	57.4 (60)	1,974	25.4 (56)	1,598	9.2 (51)	1,410	10.8 (41)	1,585	6.2 (50)	4,907	80.7 (61)	10,460	2.6 (33)
Gladwin	143	81.1 (11)	125	37.6 (21)	107	18.7 (13)	77	*	102	12.7 (20)	379	89.2 (27)	688	7.8 (74)

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WIC PNNS & PedNSS

Table 7B

2018 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County ⁽²⁾

Children Aged < 5 Years ⁽³⁾

Comparison of Breastfeeding, TV Viewing, and Smoking in Household ^(4,5)

County	Breastfeeding ⁽⁶⁾				Exclusive Breastfeeding ⁽⁷⁾				≤ 2 Hours TV Viewing/Day ⁽⁸⁾		Smoking in Household			
	Number	% Ever Breastfed (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% (Rank)	Number	% (Rank)		
Gogebic	70	*	57	*	60	*	43	*	53	*	172	80.2 (65)	341	8.2 (77)
Gr Travers	410	84.1 (2)	279	52.7 (1)	305	23.0 (4)	148	41.9 (1)	220	19.1 (4)	737	90.0 (21)	1,640	1.9 (20)
Gratiot	210	76.2 (31)	169	41.4 (9)	129	27.1 (2)	127	32.3 (3)	147	14.3 (11)	484	89.5 (24)	957	1.3 (6)
Hillsdale	232	78.4 (17)	202	36.6 (26)	178	20.2 (8)	134	21.6 (16)	168	14.3 (11)	538	84.2 (54)	1,094	7.1 (72)
Houghton	169	84.0 (3)	150	49.3 (3)	141	31.9 (1)	96	*	135	16.3 (7)	391	89.8 (22)	786	0.8 (3)
Huron	119	80.7 (12)	106	31.1 (45)	118	14.4 (29)	67	*	93	*	313	88.2 (37)	657	4.0 (52)
Ingham	1,585	76.7 (28)	1,162	44.1 (6)	981	18.7 (13)	779	19.1 (22)	910	13.1 (18)	3,040	88.9 (29)	6,409	1.7 (13)
Ionia	310	83.9 (4)	280	36.4 (27)	303	16.5 (22)	170	25.9 (11)	236	15.3 (9)	769	87.0 (42)	1,525	2.5 (30)
Iosco	176	67.6 (52)	116	34.5 (34)	101	11.9 (43)	101	20.8 (19)	101	13.9 (14)	319	94.7 (3)	665	5.0 (60)
Iron	52	*	38	*	40	*	37	*	33	*	137	86.9 (43)	256	7.0 (71)
Isabella	336	71.7 (41)	266	33.8 (35)	223	14.3 (31)	188	22.3 (15)	226	14.6 (10)	644	92.2 (12)	1,373	2.9 (37)
Jackson	958	72.7 (38)	907	35.3 (32)	728	11.1 (47)	504	18.8 (25)	734	12.4 (22)	2,138	79.1 (67)	4,249	3.9 (50)
Kalamazoo	1,258	71.1 (45)	973	33.4 (37)	774	14.0 (32)	681	18.5 (27)	799	8.8 (37)	2,693	77.4 (70)	5,598	2.2 (25)

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WIC PNNS & PedNSS

Table 7B

2018 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County ⁽²⁾

Children Aged < 5 Years ⁽³⁾

Comparison of Breastfeeding, TV Viewing, and Smoking in Household ^(4,5)

County	Breastfeeding ⁽⁶⁾				Exclusive Breastfeeding ⁽⁷⁾				≤ 2 Hours TV Viewing/Day ⁽⁸⁾		Smoking in Household			
	Number	% Ever Breastfed (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% (Rank)	Number	% (Rank)		
Kalkaska	91	*	61	*	65	*	43	*	50	*	203	84.2 (54)	410	6.6 (70)
Kent	3,276	74.9 (36)	3,013	32.5 (39)	2,332	16.9 (20)	2,024	15.9 (34)	2,518	10.2 (32)	7,310	85.1 (52)	14,946	1.8 (16)
Lake	42	*	42	*	53	*	19	*	35	*	129	76.0 (72)	248	8.5 (78)
Lapeer	391	77.0 (26)	295	35.6 (30)	301	15.0 (27)	216	18.1 (28)	258	7.0 (46)	878	89.4 (26)	1,760	0.7 (2)
Leelanau	41	*	30	*	30	*	20	*	26	*	109	85.3 (49)	218	1.8 (16)
Lenawee	432	64.1 (54)	286	36.7 (25)	281	13.5 (34)	229	27.5 (10)	239	13.4 (16)	876	85.6 (48)	1,862	3.8 (49)
Livingston	362	76.5 (30)	294	32.0 (40)	225	19.6 (11)	221	20.4 (20)	257	11.3 (28)	719	91.7 (15)	1,514	1.3 (6)
Luce	48	*	37	*	39	*	24	*	33	*	81	*	187	1.1 (5)
Mackinac	35	*	21	*	42	*	11	*	20	*	110	78.2 (68)	199	3.0 (38)
Macomb	3,059	62.4 (58)	2,230	27.4 (53)	2,122	11.2 (45)	1,653	13.1 (39)	1,850	7.4 (45)	5,568	83.1 (58)	12,463	1.8 (16)
Manistee	102	78.4 (17)	71	*	90	*	61	*	62	*	215	93.5 (6)	459	5.2 (61)
Marquette	248	82.3 (7)	153	38.6 (19)	179	17.3 (18)	94	*	133	12.0 (25)	574	91.6 (16)	1,106	2.5 (30)
Mason	128	75.8 (34)	115	40.0 (15)	121	19.0 (12)	85	*	99	*	343	92.1 (13)	646	1.9 (20)

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WIC PNNS & PedNSS

Table 7B

2018 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County ⁽²⁾

Children Aged < 5 Years ⁽³⁾

Comparison of Breastfeeding, TV Viewing, and Smoking in Household ^(4,5)

County	Breastfeeding ⁽⁶⁾				Exclusive Breastfeeding ⁽⁷⁾				≤ 2 Hours TV Viewing/Day ⁽⁸⁾		Smoking in Household			
	Number	% Ever Breastfed (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% (Rank)	Number	% (Rank)		
Mecosta	242	76.9 (27)	145	29.0 (50)	159	14.5 (28)	113	30.1 (6)	125	12.8 (19)	484	93.2 (7)	987	3.7 (44)
Menominee	71	*	57	*	75	*	42	*	52	*	184	95.7 (1)	373	4.8 (59)
Midland	310	76.1 (33)	270	39.6 (18)	220	20.0 (9)	232	30.6 (5)	236	17.8 (5)	627	92.3 (11)	1,358	1.7 (13)
Missaukee	76	*	43	*	61	*	20	*	41	*	153	88.2 (37)	309	5.5 (64)
Monroe	562	63.7 (56)	446	29.4 (48)	431	10.4 (50)	322	15.2 (37)	387	8.0 (43)	1,130	88.7 (31)	2,441	3.2 (40)
Montcalm	318	76.7 (28)	270	35.9 (29)	197	20.3 (7)	189	20.1 (21)	231	8.2 (42)	662	83.4 (57)	1,399	4.6 (57)
Montmorenc	50	*	30	*	33	*	29	*	23	*	84	*	184	8.7 (79)
Muskegon	1,324	64.4 (53)	960	30.7 (46)	916	8.6 (52)	678	17.7 (31)	764	8.8 (37)	2,606	76.2 (71)	5,533	5.8 (67)
Newaygo	320	77.2 (21)	189	36.0 (28)	252	15.5 (25)	117	29.1 (7)	167	12.6 (21)	759	92.1 (13)	1,462	1.7 (13)
Oakland	3,265	70.8 (46)	2,905	31.8 (41)	2,110	12.4 (39)	2,026	17.2 (33)	2,455	11.0 (30)	6,925	82.7 (59)	14,594	1.4 (9)
Oceana	170	77.1 (25)	131	42.0 (8)	134	17.2 (19)	85	*	112	9.8 (36)	466	88.6 (34)	848	2.4 (29)
Ogemaw	120	62.5 (57)	124	26.6 (54)	88	*	75	*	108	5.6 (52)	305	88.9 (29)	588	6.5 (69)
Ontonagon	15	*	10	*	8	*	3	*	6	*	31	*	63	*

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WIC PNNS & PedNSS

Table 7B

2018 Pediatric Nutrition Surveillance (1)

Michigan

Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County (2)

Children Aged < 5 Years (3)

Comparison of Breastfeeding, TV Viewing, and Smoking in Household (4,5)

County	Breastfeeding (6)				Exclusive Breastfeeding (7)				≤ 2 Hours TV Viewing/Day (8)		Smoking in Household			
	Number	% Ever Breastfed (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% (Rank)	Number	% (Rank)		
Osceola	130	75.4 (35)	102	31.4 (42)	121	15.7 (24)	60	*	90	*	296	86.8 (45)	592	7.9 (75)
Oscoda	51	*	41	*	30	*	27	*	32	*	118	88.1 (39)	227	5.3 (62)
Otsego	141	78.0 (20)	120	37.5 (22)	113	16.8 (21)	85	*	103	19.4 (3)	351	85.2 (50)	693	5.5 (64)
Ottawa	1,027	78.4 (17)	602	37.4 (23)	773	17.7 (17)	348	27.9 (8)	474	13.9 (14)	2,257	91.1 (18)	4,516	0.8 (3)
Presque Is	39	*	31	*	33	*	19	*	24	*	78	*	166	3.6 (43)
Roscommon	101	77.2 (21)	93	*	75	*	56	*	66	*	231	88.7 (31)	460	7.6 (73)
Saginaw	1,268	58.3 (59)	979	26.1 (55)	768	6.6 (55)	725	12.3 (40)	808	8.0 (43)	2,361	80.7 (61)	5,170	2.3 (28)
Sanilac	175	53.7 (62)	159	31.4 (42)	141	7.8 (54)	92	*	129	11.6 (27)	402	93.8 (4)	823	3.0 (38)
Schoolcraf	47	*	28	*	34	*	18	*	25	*	83	*	194	2.6 (33)
Shiawassee	326	74.5 (37)	305	37.4 (23)	272	20.6 (5)	189	14.3 (38)	250	6.4 (48)	765	92.4 (10)	1,593	1.9 (20)
St Clair	682	68.9 (48)	525	31.2 (44)	452	12.6 (37)	363	21.2 (17)	450	12.4 (22)	1,458	80.7 (61)	2,920	4.6 (57)
St Joseph	431	81.7 (10)	330	40.9 (11)	250	12.8 (36)	205	19.0 (23)	245	10.2 (32)	891	88.1 (39)	1,857	2.1 (24)
Tuscola	329	71.7 (41)	274	39.8 (16)	216	14.4 (29)	171	18.7 (26)	218	6.4 (48)	672	89.0 (28)	1,366	3.7 (44)

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WIC PNNS & PedNSS

Table 7B

2018 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County ⁽²⁾

Children Aged < 5 Years ⁽³⁾

Comparison of Breastfeeding, TV Viewing, and Smoking in Household ^(4,5)

County	Breastfeeding ⁽⁶⁾				Exclusive Breastfeeding ⁽⁷⁾				≤ 2 Hours TV Viewing/Day ⁽⁸⁾		Smoking in Household			
	Number	% Ever Breastfed (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% (Rank)		
Van Buren	412	63.8 (55)	358	33.8 (35)	314	11.8 (44)	258	17.8 (30)	295	8.5 (40)	1,090	95.2 (2)	2,061	0.6 (1)
Washtenaw	910	80.1 (13)	800	40.8 (12)	657	19.9 (10)	538	23.4 (13)	665	14.1 (13)	2,062	90.1 (20)	4,221	1.8 (16)
Wayne	13,691	55.5 (61)	9,872	24.3 (57)	7,645	8.0 (53)	7,502	8.9 (42)	8,524	5.0 (53)	24,787	72.4 (74)	54,221	3.7 (44)
Wexford	250	77.2 (21)	156	40.4 (13)	218	16.5 (22)	86	*	135	11.1 (29)	578	88.1 (39)	1,149	4.1 (54)
Michigan	49,377	66.8	38,049	31.4	32,543	12.7	26,949	16.3	31,907	9.2	100,561	82.1	210,908	2.9
National (Prior Year)	64,536	70.2	56,977	28.6	47,523	14.6	45,032	16.4	50,544	8.8	141,591	83.5	295,248	3.4

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WIC PNNS & PedNSS

Table 6B

2016 - 2018 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Growth and Anemia Indicators by County

Children Aged < 5 Years ⁽²⁾

Combined 3 Years

Comparison of Growth and Anemia Indicators ^(3,4)

County	Birth Weight ⁽⁵⁾			Height and Weight ^(6,7)						Anemia Low Hb/Hct ⁽⁸⁾		
	Low	High		Short Stature	Under- Weight	Obese	≥ 2 Yrs Overweight and Obese					
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
Alcona	92	*	*	477	8.0 (64)	2.5 (34)	9.4 (8)	217	13.8 (3)	11.5 (2)	347	20.2 (59)
Alger	79	*	*	357	8.4 (72)	2.2 (25)	11.8 (53)	158	19.0 (68)	17.1 (67)	235	20.9 (62)
Allegan	2,496	9.6 (47)	9.3 (56)	12,168	5.8 (13)	2.7 (41)	11.8 (53)	5,437	17.8 (48)	14.1 (38)	8,592	32.1 (81)
Alpena	417	7.4 (12)	12.0 (74)	2,063	8.4 (72)	1.7 (8)	13.6 (73)	884	17.4 (42)	17.5 (75)	1,501	18.6 (53)
Antrim	266	6.0 (3)	9.0 (52)	1,422	6.8 (30)	5.3 (79)	12.0 (57)	673	13.2 (2)	14.0 (37)	976	12.3 (27)
Arenac	263	7.6 (14)	9.1 (55)	1,321	5.3 (5)	1.7 (8)	11.0 (44)	598	17.7 (46)	16.6 (62)	929	10.5 (19)
Baraga	111	6.3 (6)	9.0 (52)	632	6.5 (24)	1.1 (1)	18.8 (82)	308	22.7 (81)	22.7 (81)	449	15.4 (39)
Barry	627	9.7 (50)	8.9 (50)	3,215	7.0 (36)	2.9 (49)	10.2 (25)	1,413	17.6 (45)	12.0 (11)	2,153	10.3 (17)
Bay	1,467	8.2 (29)	10.0 (63)	7,035	8.1 (67)	1.6 (4)	12.9 (68)	3,021	18.7 (63)	16.7 (66)	5,028	11.0 (21)
Benzie	232	6.5 (8)	7.8 (28)	1,058	6.6 (26)	4.3 (73)	10.3 (27)	442	17.0 (36)	14.5 (40)	712	16.4 (43)
Berrien	2,330	9.4 (43)	7.5 (25)	10,177	7.4 (51)	3.6 (67)	9.9 (22)	4,134	17.2 (38)	12.9 (19)	6,933	17.6 (48)
Branch	819	6.2 (5)	7.8 (28)	3,924	9.1 (78)	2.0 (20)	13.8 (75)	1,733	16.7 (32)	14.8 (44)	2,629	3.4 (1)
Calhoun	2,532	9.9 (54)	7.3 (21)	12,097	7.9 (61)	3.3 (60)	13.1 (70)	5,452	18.0 (52)	15.0 (47)	8,623	26.2 (76)
Cass	896	8.3 (32)	8.9 (50)	4,811	4.9 (3)	2.3 (27)	12.8 (66)	2,330	18.0 (52)	16.0 (57)	3,467	21.8 (65)

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(7) 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.

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

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

WIC PNNS & PedNSS

Table 6B

2016 - 2018 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Growth and Anemia Indicators by County

Children Aged < 5 Years ⁽²⁾

Combined 3 Years

Comparison of Growth and Anemia Indicators ^(3,4)												
County	Birth Weight ⁽⁵⁾			Height and Weight ^(6,7)							Anemia Low Hb/Hct ⁽⁸⁾	
	Low		High	Short Stature		Under- Weight	Obese	≥ 2 Yrs Overweight and Obese				
	Number	%	%	Number	%	%	%	Number	%	%	Number	%
	<2500 g (Rank)	>4000 g (Rank)		(Rank)	(Rank)	(Rank)		(Rank)	(Rank)	(Rank)		(Rank)
Charlevoix	358	8.4 (34)	6.7 (12)	1,881	6.7 (28)	3.8 (71)	9.5 (13)	858	15.9 (17)	13.3 (25)	1,328	7.8 (8)
Cheboygan	321	10.3 (60)	8.4 (40)	1,394	6.2 (19)	4.7 (76)	9.5 (13)	584	19.7 (74)	13.5 (32)	918	17.3 (44)
Chippewa	564	7.8 (18)	11.2 (72)	2,770	6.4 (22)	3.4 (64)	14.0 (77)	1,241	15.9 (17)	16.0 (57)	1,831	23.4 (69)
Clare	536	7.6 (14)	7.1 (19)	2,583	7.5 (53)	2.4 (31)	10.4 (29)	1,147	19.7 (74)	14.6 (42)	1,824	11.9 (22)
Clinton	486	9.5 (45)	9.3 (56)	2,250	9.3 (80)	1.8 (14)	10.4 (29)	913	17.3 (40)	12.6 (17)	1,546	6.3 (5)
Crawford	206	10.7 (65)	12.1 (75)	913	6.5 (24)	3.0 (55)	9.4 (8)	378	17.2 (38)	13.2 (21)	646	20.1 (58)
Delta	567	9.7 (50)	9.3 (56)	2,843	7.0 (36)	2.5 (34)	9.4 (8)	1,275	16.5 (28)	11.2 (1)	1,989	6.2 (4)
Dickinson	388	8.5 (35)	8.5 (41)	1,873	6.8 (30)	2.6 (38)	9.1 (5)	821	16.0 (23)	11.7 (5)	1,264	20.6 (60)
Eaton	750	7.7 (17)	6.9 (15)	3,751	7.9 (61)	3.0 (55)	12.9 (68)	1,614	20.9 (78)	16.6 (62)	2,466	10.1 (16)
Emmet	445	10.1 (55)	11.0 (71)	2,239	7.0 (36)	3.3 (60)	10.3 (27)	1,021	15.9 (17)	11.6 (4)	1,602	12.2 (26)
Genesee	7,284	12.5 (74)	5.3 (3)	30,872	9.1 (78)	2.7 (41)	10.7 (36)	12,645	15.7 (13)	12.3 (13)	20,510	23.7 (73)
Gladwin	372	9.4 (43)	7.0 (18)	1,990	6.4 (22)	2.5 (34)	10.4 (29)	926	15.8 (15)	13.4 (27)	1,443	9.1 (12)
Gogebic	195	8.2 (29)	8.2 (36)	998	6.2 (19)	3.2 (58)	12.3 (61)	437	15.1 (8)	17.2 (69)	673	8.6 (9)
Gr Travers	1,200	10.1 (55)	10.8 (69)	4,756	4.5 (2)	6.5 (81)	8.3 (1)	1,980	18.9 (66)	11.7 (5)	3,044	22.2 (68)

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(7) 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.

(8) 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.

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WIC PNNS & PedNSS

Table 6B

2016 - 2018 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Growth and Anemia Indicators by County

Children Aged < 5 Years ⁽²⁾

Combined 3 Years

Comparison of Growth and Anemia Indicators ^(3,4)

County	Birth Weight ⁽⁵⁾			Height and Weight ^(6,7)						Anemia Low Hb/Hct ⁽⁸⁾		
	Low	High		Short Stature	Under- Weight	Obese	≥ 2 Yrs Overweight and Obese					
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
Gratiot	580	9.7 (50)	7.9 (31)	2,947	7.3 (47)	2.7 (41)	10.7 (36)	1,288	16.5 (28)	14.5 (40)	2,129	4.2 (3)
Hillsdale	720	6.1 (4)	8.8 (48)	3,375	8.6 (75)	1.6 (4)	10.7 (36)	1,443	16.8 (35)	12.3 (13)	2,265	12.5 (28)
Houghton	459	7.8 (18)	8.3 (38)	2,176	8.3 (71)	2.1 (24)	9.8 (20)	931	15.9 (17)	11.9 (7)	1,457	8.7 (11)
Huron	415	8.7 (38)	13.5 (77)	2,001	8.2 (69)	2.0 (20)	14.1 (79)	818	17.8 (48)	15.5 (53)	1,419	12.0 (24)
Ingham	4,459	10.9 (67)	6.5 (11)	19,071	7.7 (59)	3.6 (67)	10.0 (23)	7,897	16.1 (25)	13.3 (25)	12,852	14.5 (35)
Ionia	942	10.2 (58)	7.5 (25)	4,499	5.4 (6)	4.7 (76)	11.2 (48)	1,923	18.2 (58)	14.8 (44)	3,220	11.9 (22)
Iosco	450	7.6 (14)	9.3 (56)	1,888	6.9 (34)	3.3 (60)	12.0 (57)	747	15.0 (7)	16.6 (62)	1,286	23.5 (70)
Iron	160	11.3 (69)	7.5 (25)	780	7.1 (42)	3.3 (60)	14.2 (80)	357	20.2 (77)	19.3 (79)	548	12.0 (24)
Isabella	897	8.1 (26)	8.6 (45)	4,003	7.6 (55)	2.8 (46)	11.3 (50)	1,678	18.1 (56)	16.2 (59)	2,660	13.8 (33)
Jackson	2,650	10.3 (60)	6.9 (15)	12,366	5.6 (11)	5.5 (80)	10.4 (29)	5,472	18.5 (61)	15.8 (56)	8,403	24.2 (74)
Kalamazoo	3,754	10.5 (62)	8.2 (36)	17,407	6.0 (16)	3.6 (67)	10.9 (43)	7,594	17.4 (42)	13.2 (21)	12,247	31.8 (80)
Kalkaska	242	7.4 (12)	7.9 (31)	1,126	6.9 (34)	1.9 (18)	9.4 (8)	495	16.2 (26)	13.5 (32)	797	21.0 (63)
Kent	9,516	11.4 (70)	7.1 (19)	45,803	8.8 (77)	2.3 (27)	10.6 (34)	19,835	15.9 (17)	12.5 (16)	31,491	17.4 (46)
Lake	150	13.3 (77)	4.7 (1)	782	7.5 (53)	2.9 (49)	11.8 (53)	350	17.1 (37)	17.4 (74)	578	21.1 (64)

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(7) 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.

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WIC PNNS & PedNSS

Table 6B

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Michigan

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Children Aged < 5 Years ⁽²⁾

Combined 3 Years

Comparison of Growth and Anemia Indicators ^(3,4)

County	Birth Weight ⁽⁵⁾			Height and Weight ^(6,7)						Anemia Low Hb/Hct ⁽⁸⁾		
	Low	High		Short Stature	Under- Weight	Obese		≥ 2 Yrs Overweight and Obese				
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
Lapeer	1,077	10.1 (55)	7.9 (31)	5,358	7.2 (45)	2.0 (20)	11.1 (46)	2,367	18.1 (56)	17.3 (71)	3,825	12.8 (29)
Leelanau	123	7.3 (11)	13.8 (79)	635	5.4 (6)	4.6 (75)	13.4 (72)	266	18.8 (65)	16.2 (59)	448	9.8 (14)
Lenawee	1,292	8.0 (22)	8.5 (41)	5,703	7.3 (47)	2.6 (38)	11.0 (44)	2,295	19.2 (71)	14.9 (46)	3,474	23.5 (70)
Livingston	967	9.8 (53)	9.0 (52)	4,589	7.6 (55)	1.7 (8)	8.9 (3)	1,996	18.2 (58)	12.0 (11)	3,146	8.6 (9)
Luce	117	8.5 (35)	13.7 (78)	536	4.3 (1)	4.5 (74)	11.4 (51)	238	21.8 (80)	20.2 (80)	383	18.8 (56)
Mackinac	104	6.7 (9)	8.7 (47)	559	5.5 (9)	2.3 (27)	11.1 (46)	244	12.7 (1)	17.2 (69)	411	7.3 (6)
Macomb	8,620	11.8 (71)	5.4 (5)	37,309	7.3 (47)	2.2 (25)	10.7 (36)	14,982	15.1 (8)	13.4 (27)	24,969	21.8 (65)
Manistee	324	10.2 (58)	9.3 (56)	1,348	8.1 (67)	2.7 (41)	12.2 (60)	568	18.7 (63)	17.3 (71)	913	17.5 (47)
Marquette	668	10.6 (64)	8.5 (41)	3,099	10.0 (82)	3.4 (64)	12.6 (65)	1,397	19.3 (72)	13.7 (34)	1,879	9.9 (15)
Mason	407	9.1 (41)	6.9 (15)	1,993	7.2 (45)	1.9 (18)	10.2 (25)	882	15.9 (17)	15.0 (47)	1,427	17.9 (49)
Mecosta	671	8.0 (22)	7.3 (21)	3,011	8.4 (72)	1.8 (14)	12.3 (61)	1,296	19.1 (70)	17.1 (67)	2,081	16.0 (42)
Menominee	247	10.5 (62)	7.3 (21)	1,161	6.7 (28)	2.7 (41)	14.5 (81)	502	15.7 (13)	17.3 (71)	759	9.6 (13)
Midland	1,040	8.2 (29)	9.8 (62)	4,600	8.6 (75)	1.6 (4)	13.7 (74)	1,826	19.6 (73)	14.2 (39)	2,971	14.8 (37)
Missaukee	199	5.0 (2)	12.1 (75)	936	6.2 (19)	1.7 (8)	8.7 (2)	436	17.9 (51)	11.9 (7)	664	13.0 (30)

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(7) 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.

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	Low		High	Short Stature		Under-Weight	Obese	≥ 2 Yrs Overweight and Obese				
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
Monroe	1,669	9.1 (41)	6.8 (13)	7,478	7.6 (55)	2.5 (34)	10.6 (34)	3,103	16.7 (32)	15.1 (49)	5,079	15.7 (40)
Montcalm	887	8.0 (22)	7.3 (21)	4,146	8.0 (64)	2.0 (20)	10.8 (42)	1,703	17.8 (48)	13.4 (27)	2,937	4.1 (2)
Montmorenc	125	12.8 (75)	10.4 (68)	524	8.0 (64)	2.3 (27)	12.8 (66)	223	21.1 (79)	16.6 (62)	329	17.3 (44)
Muskegon	3,768	11.0 (68)	5.6 (7)	16,285	7.8 (60)	2.9 (49)	12.1 (59)	6,999	16.6 (31)	13.8 (36)	11,401	28.3 (78)
Newaygo	886	9.6 (47)	8.8 (48)	4,442	7.3 (47)	1.7 (8)	11.2 (48)	2,097	16.5 (28)	13.1 (20)	3,203	19.1 (57)
Oakland	9,325	13.3 (77)	5.5 (6)	42,950	8.2 (69)	2.9 (49)	9.6 (17)	17,708	14.9 (6)	11.9 (7)	29,524	24.7 (75)
Oceana	479	8.6 (37)	6.3 (10)	2,551	7.6 (55)	1.4 (2)	13.3 (71)	1,206	18.4 (60)	18.4 (78)	1,874	18.7 (54)
Ogemaw	365	9.0 (40)	10.1 (64)	1,765	7.0 (36)	1.8 (14)	11.8 (53)	772	19.0 (68)	15.2 (51)	1,243	20.6 (60)
Ontonagon	41	*	*	205	5.4 (6)	3.4 (64)	9.8 (20)	83	*	*	130	7.7 (7)
Osceola	350	6.9 (10)	10.3 (67)	1,662	7.1 (42)	2.8 (46)	9.7 (19)	755	17.4 (42)	13.4 (27)	1,165	14.7 (36)
Oscoda	131	10.7 (65)	5.3 (3)	672	6.8 (30)	3.0 (55)	9.5 (13)	290	19.7 (74)	13.4 (27)	471	23.6 (72)
Otsego	347	7.8 (18)	8.1 (34)	2,093	5.7 (12)	4.8 (78)	13.8 (75)	876	18.0 (52)	16.3 (61)	1,419	15.8 (41)
Ottawa	1,721	9.6 (47)	10.9 (70)	8,193	6.1 (17)	2.9 (49)	10.0 (23)	3,701	15.2 (10)	11.5 (2)	5,753	33.1 (82)
Presque Is	112	4.5 (1)	11.6 (73)	536	5.8 (13)	2.4 (31)	9.5 (13)	250	14.4 (4)	13.2 (21)	359	18.7 (54)

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(7) 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.

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	Low	High		Short Stature	Under- Weight	Obese	≥ 2 Yrs Overweight and Obese					
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
Roscommon	309	7.8 (18)	6.8 (13)	1,437	6.8 (30)	2.9 (49)	9.4 (8)	621	15.6 (12)	15.1 (49)	993	13.3 (31)
Saginaw	3,722	12.3 (73)	5.7 (8)	15,801	6.1 (17)	3.2 (58)	11.6 (52)	6,650	16.7 (32)	13.2 (21)	10,878	18.5 (51)
Sanilac	529	6.4 (7)	7.8 (28)	2,439	9.4 (81)	1.6 (4)	12.5 (64)	999	18.6 (62)	18.0 (77)	1,666	18.1 (50)
Schoolcraf	148	15.5 (79)	9.5 (61)	607	4.9 (3)	8.4 (82)	9.2 (7)	241	15.8 (15)	15.4 (52)	412	14.1 (34)
Shiawassee	964	9.5 (45)	8.3 (38)	4,876	5.9 (15)	3.7 (70)	10.7 (36)	2,211	18.0 (52)	15.7 (55)	3,509	15.1 (38)
St Clair	1,957	8.3 (32)	8.6 (45)	8,831	7.9 (61)	1.7 (8)	10.5 (33)	3,802	18.9 (66)	15.5 (53)	5,960	13.6 (32)
St Joseph	1,196	8.7 (38)	8.1 (34)	5,590	7.1 (42)	1.8 (14)	12.4 (63)	2,451	16.0 (23)	14.6 (42)	3,958	10.4 (18)
Tuscola	845	8.0 (22)	10.1 (64)	3,999	7.0 (36)	2.4 (31)	9.1 (5)	1,761	15.3 (11)	13.7 (34)	2,833	10.6 (20)
Van Buren	1,229	8.1 (26)	10.1 (64)	6,427	5.5 (9)	2.8 (46)	14.0 (77)	2,969	17.3 (40)	17.8 (76)	4,647	22.1 (67)
Washtenaw	2,828	12.2 (72)	5.7 (8)	13,233	7.4 (51)	2.6 (38)	9.0 (4)	5,601	16.4 (27)	12.7 (18)	9,399	26.4 (77)
Wayne	37,707	12.9 (76)	4.9 (2)	162,303	7.0 (36)	3.8 (71)	9.6 (17)	67,149	14.6 (5)	11.9 (7)	107,336	30.4 (79)
Wexford	720	8.1 (26)	8.5 (41)	3,448	6.6 (26)	1.5 (3)	10.7 (36)	1,514	17.7 (46)	12.4 (15)	2,469	18.5 (51)
Michigan	139,977	11.1	6.6	633,571	7.4	3.1	3.1	268,553	16.2	14.0	431,403	22.4

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(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) Rank compares one County's rate to other Counties. Rank 1 = best rate.

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

(6) 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.

(7) 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.

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

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

WIC PNNS & PedNSS

Table 7B

2016 - 2018 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County ⁽²⁾

Children Aged < 5 Years ⁽³⁾

Combined 3 Years

Comparison of Breastfeeding, TV Viewing, and Smoking in Household ^(4,5)

County	Breastfeeding ⁽⁶⁾				Exclusive Breastfeeding ⁽⁷⁾				≤ 2 Hours TV Viewing/Day ⁽⁸⁾		Smoking in Household			
	Number	% Ever Breastfed (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% (Rank)	Number	% (Rank)		
Alcona	92	*	89	*	78	*	56	*	73	*	256	88.7 (36)	497	3.8 (43)
Alger	79	*	77	*	54	*	53	*	63	*	185	85.4 (58)	370	5.9 (66)
Allegan	2,545	75.6 (39)	1,831	30.6 (42)	2,231	14.4 (37)	1,174	23.2 (31)	1,541	11.2 (39)	6,221	90.1 (26)	12,407	1.9 (10)
Alpena	419	64.0 (70)	350	28.9 (52)	422	11.8 (58)	296	24.7 (24)	323	15.2 (15)	1,074	87.1 (47)	2,122	3.5 (38)
Antrim	283	78.4 (29)	259	35.1 (21)	229	15.7 (27)	178	30.3 (12)	226	13.7 (22)	792	84.3 (61)	1,449	7.8 (74)
Arenac	263	69.2 (58)	232	29.3 (49)	217	10.1 (68)	161	17.4 (54)	197	9.1 (54)	739	88.5 (39)	1,358	8.2 (79)
Baraga	112	77.7 (34)	116	29.3 (49)	106	11.3 (64)	83	*	101	10.9 (43)	345	87.5 (44)	634	3.9 (46)
Barry	653	76.3 (36)	624	32.1 (30)	501	15.0 (31)	411	23.4 (29)	563	13.9 (19)	1,700	92.0 (12)	3,300	2.0 (12)
Bay	1,472	67.3 (64)	1,199	28.2 (55)	1,327	11.4 (62)	913	18.0 (49)	1,058	6.3 (68)	3,614	91.5 (16)	7,189	3.1 (31)
Benzie	233	80.3 (18)	184	35.9 (18)	166	19.3 (11)	127	31.5 (9)	154	12.3 (29)	519	87.1 (47)	1,083	6.6 (71)
Berrien	2,337	69.6 (57)	1,751	25.5 (64)	1,419	14.3 (39)	1,436	15.9 (58)	1,590	10.0 (48)	4,855	81.9 (72)	10,387	4.2 (47)
Branch	837	79.2 (21)	659	36.4 (16)	713	14.0 (43)	514	23.9 (27)	576	13.2 (27)	2,026	80.0 (75)	4,008	3.7 (41)
Calhoun	2,547	70.9 (54)	2,021	25.5 (64)	2,153	12.6 (53)	1,468	14.9 (63)	1,707	7.4 (64)	6,355	88.7 (36)	12,400	2.1 (15)

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

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WIC PNNS & PedNSS

Table 7B

2016 - 2018 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County ⁽²⁾

Children Aged < 5 Years ⁽³⁾

Combined 3 Years

Comparison of Breastfeeding, TV Viewing, and Smoking in Household ^(4,5)

County	Breastfeeding ⁽⁶⁾				Exclusive Breastfeeding ⁽⁷⁾				≤ 2 Hours TV Viewing/Day ⁽⁸⁾		Smoking in Household			
	Number	% Ever Breastfed (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% (Rank)	Number	% (Rank)		
Cass	900	77.8 (32)	778	34.6 (22)	829	17.7 (17)	635	24.3 (26)	677	17.4 (7)	2,707	95.7 (2)	4,883	1.4 (5)
Charlevoix	387	82.4 (10)	309	42.1 (6)	281	18.9 (12)	242	35.5 (4)	275	19.6 (4)	1,020	89.2 (33)	1,917	3.4 (35)
Cheboygan	323	78.3 (30)	296	34.5 (24)	279	11.8 (58)	190	23.7 (28)	253	16.6 (9)	703	82.9 (67)	1,430	6.3 (69)
Chippewa	567	68.1 (60)	530	37.9 (9)	439	19.4 (10)	375	34.4 (6)	477	21.6 (3)	1,466	95.1 (3)	2,865	11.6 (82)
Clare	539	62.7 (72)	465	31.2 (36)	489	12.9 (50)	349	19.5 (41)	418	11.2 (39)	1,389	92.7 (9)	2,650	5.9 (66)
Clinton	490	84.9 (4)	448	37.1 (14)	357	19.9 (8)	327	25.1 (23)	381	13.6 (23)	1,069	86.0 (55)	2,278	2.3 (18)
Crawford	206	79.6 (19)	194	37.1 (14)	199	16.1 (23)	147	29.3 (14)	170	14.7 (17)	460	83.7 (65)	958	4.5 (54)
Delta	569	75.0 (42)	501	24.6 (68)	555	10.6 (67)	388	18.0 (49)	457	9.2 (53)	1,506	88.7 (36)	2,892	3.6 (39)
Dickinson	390	74.4 (48)	335	37.3 (13)	300	20.7 (5)	264	32.2 (7)	305	19.0 (5)	990	92.0 (12)	1,903	1.1 (3)
Eaton	793	82.5 (9)	783	29.9 (48)	654	15.9 (26)	538	16.7 (56)	701	10.0 (48)	1,908	82.4 (70)	3,842	2.5 (21)
Emmet	453	82.6 (8)	423	45.6 (4)	361	26.9 (1)	268	38.1 (2)	362	24.0 (1)	1,209	88.9 (35)	2,287	3.3 (33)
Genesee	7,313	57.4 (78)	6,361	21.1 (74)	4,851	9.1 (73)	4,571	11.0 (69)	5,227	6.8 (66)	14,761	80.4 (74)	31,510	3.3 (33)
Gladwin	376	81.1 (13)	364	34.6 (22)	365	17.5 (18)	230	25.2 (22)	323	13.3 (25)	1,127	92.5 (10)	2,035	7.8 (74)
Gogebic	196	65.3 (66)	163	25.8 (63)	164	12.8 (51)	131	22.1 (35)	151	11.3 (37)	523	85.9 (57)	1,020	5.3 (63)

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WIC PNNS & PedNSS

Table 7B

2016 - 2018 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County ⁽²⁾

Children Aged < 5 Years ⁽³⁾

Combined 3 Years

Comparison of Breastfeeding, TV Viewing, and Smoking in Household ^(4,5)

County	Breastfeeding ⁽⁶⁾				Exclusive Breastfeeding ⁽⁷⁾				≤ 2 Hours TV Viewing/Day ⁽⁸⁾		Smoking in Household			
	Number	% Ever Breastfed (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% (Rank)	Number	% (Rank)		
Gr Travers	1,200	85.6 (2)	867	44.8 (5)	935	22.4 (4)	554	35.2 (5)	743	14.8 (16)	2,312	89.7 (29)	4,962	2.0 (12)
Gratiot	580	79.1 (22)	530	37.9 (9)	429	24.0 (3)	395	29.6 (13)	472	13.8 (21)	1,552	89.5 (31)	3,000	2.5 (21)
Hillsdale	722	78.0 (31)	652	28.2 (55)	535	15.1 (30)	486	22.0 (37)	578	13.3 (25)	1,722	86.0 (55)	3,457	5.7 (65)
Houghton	465	85.2 (3)	417	47.2 (3)	391	26.3 (2)	278	31.7 (8)	373	18.2 (6)	1,138	89.6 (30)	2,245	1.2 (4)
Huron	417	76.0 (38)	383	30.8 (39)	354	14.1 (42)	277	13.0 (67)	351	4.6 (73)	984	88.3 (40)	2,042	4.2 (47)
Ingham	4,517	77.6 (35)	3,551	36.1 (17)	2,982	18.2 (16)	2,485	19.3 (42)	2,973	11.1 (41)	9,267	89.8 (28)	19,296	2.6 (23)
Ionia	947	80.7 (14)	911	30.2 (47)	938	14.8 (33)	634	20.5 (39)	815	12.1 (32)	2,307	86.9 (50)	4,615	3.7 (41)
Iosco	451	64.1 (69)	361	24.7 (67)	327	9.8 (70)	307	17.6 (53)	324	11.1 (41)	927	91.6 (15)	1,941	5.2 (62)
Iron	160	80.6 (15)	130	41.5 (7)	125	16.8 (20)	106	38.7 (1)	108	10.2 (46)	419	88.3 (40)	800	4.4 (51)
Isabella	899	74.1 (50)	738	30.5 (44)	711	14.2 (40)	576	22.4 (34)	657	13.1 (28)	1,978	90.7 (21)	4,089	3.1 (31)
Jackson	2,661	71.9 (53)	2,769	28.9 (52)	2,261	10.7 (66)	1,690	17.9 (52)	2,384	9.0 (55)	6,540	79.8 (76)	12,780	4.5 (54)
Kalamazoo	3,796	69.7 (56)	3,108	26.3 (61)	2,602	13.1 (48)	2,389	18.0 (49)	2,772	8.8 (58)	8,885	77.9 (80)	17,902	2.9 (28)
Kalkaska	244	84.8 (5)	217	47.5 (2)	219	18.7 (13)	155	36.8 (3)	189	23.3 (2)	597	82.2 (71)	1,175	7.8 (74)
Kent	9,605	74.6 (46)	9,372	27.9 (57)	7,433	14.8 (33)	6,653	15.6 (61)	8,186	9.3 (52)	23,326	87.2 (45)	46,662	1.9 (10)

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WIC PNNS & PedNSS

Table 7B

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Michigan

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County	Breastfeeding ⁽⁶⁾				Exclusive Breastfeeding ⁽⁷⁾				≤ 2 Hours TV Viewing/Day ⁽⁸⁾		Smoking in Household			
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Lake	150	79.3 (20)	137	24.8 (66)	160	11.9 (56)	102	13.7 (66)	125	4.8 (72)	413	79.7 (77)	802	8.2 (79)
Lapeer	1,085	74.9 (43)	949	30.3 (46)	1,004	14.9 (32)	740	18.2 (47)	881	7.9 (62)	2,804	91.9 (14)	5,499	0.7 (1)
Leelanau	124	91.1 (1)	113	47.8 (1)	94	*	82	*	95	*	324	84.0 (64)	651	2.2 (17)
Lenawee	1,299	70.2 (55)	1,094	29.0 (51)	965	14.2 (40)	822	22.1 (35)	983	11.4 (35)	2,693	87.0 (49)	5,789	2.7 (24)
Livingston	970	78.6 (27)	922	30.6 (42)	777	16.1 (23)	682	21.3 (38)	827	12.2 (31)	2,328	93.2 (6)	4,703	1.6 (7)
Luce	117	77.8 (32)	103	34.0 (27)	105	17.1 (19)	75	*	94	*	285	90.9 (20)	552	2.9 (28)
Mackinac	104	82.7 (7)	74	*	115	13.9 (45)	39	*	70	*	306	78.4 (79)	570	4.4 (51)
Macomb	8,851	60.5 (76)	7,234	22.4 (73)	6,659	10.0 (69)	5,572	11.9 (68)	6,190	6.2 (69)	17,535	82.8 (68)	38,203	2.0 (12)
Manistee	324	78.7 (25)	213	37.6 (11)	257	19.5 (9)	161	30.4 (11)	191	16.8 (8)	662	90.6 (22)	1,376	3.6 (39)
Marquette	673	80.5 (16)	464	38.1 (8)	620	20.3 (6)	276	31.5 (9)	417	13.9 (19)	1,661	90.5 (24)	3,244	2.8 (27)
Mason	410	76.1 (37)	352	31.3 (35)	392	16.3 (22)	273	26.4 (20)	324	13.6 (23)	1,082	90.6 (22)	2,048	3.4 (35)
Mecosta	671	74.7 (45)	519	31.2 (36)	543	14.4 (37)	410	28.0 (16)	467	16.1 (12)	1,533	90.5 (24)	3,066	4.8 (58)
Menominee	248	61.7 (74)	190	23.7 (70)	221	11.3 (64)	152	16.4 (57)	177	11.3 (37)	590	94.6 (4)	1,182	4.4 (51)
Midland	1,043	75.3 (40)	965	35.6 (20)	731	18.6 (14)	823	27.7 (17)	862	16.4 (11)	2,169	93.8 (5)	4,537	2.4 (19)

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WIC PNNS & PedNSS

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	Number	% Ever Breastfed (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% (Rank)	Number	% (Rank)		
Missaukee	199	82.9 (6)	145	31.7 (32)	174	12.6 (53)	101	26.7 (19)	138	12.3 (29)	511	86.1 (54)	956	6.2 (68)
Monroe	1,673	62.5 (73)	1,436	24.0 (69)	1,405	11.4 (62)	1,148	15.7 (60)	1,313	8.3 (60)	3,677	89.2 (33)	7,665	4.2 (47)
Montcalm	890	81.5 (11)	798	32.3 (29)	651	15.5 (28)	574	23.2 (31)	704	9.4 (51)	2,051	83.5 (66)	4,234	4.9 (59)
Montmorenc	125	68.0 (61)	80	*	96	*	73	*	65	*	261	85.1 (60)	535	9.7 (81)
Muskegon	3,795	65.1 (67)	2,825	25.9 (62)	2,922	9.8 (70)	2,305	15.8 (59)	2,422	8.2 (61)	8,134	79.2 (78)	16,816	5.6 (64)
Newaygo	888	73.6 (51)	653	30.8 (39)	788	16.1 (23)	467	27.4 (18)	585	15.6 (14)	2,476	92.2 (11)	4,554	2.7 (24)
Oakland	9,499	68.8 (59)	8,724	27.0 (59)	6,365	11.9 (56)	6,660	15.2 (62)	7,803	9.9 (50)	20,834	84.1 (62)	43,943	1.8 (9)
Oceana	482	78.8 (24)	452	31.9 (31)	466	15.5 (28)	334	18.6 (44)	410	7.8 (63)	1,429	86.5 (53)	2,631	2.7 (24)
Ogemaw	366	64.2 (68)	339	23.6 (71)	302	11.6 (61)	242	14.5 (64)	304	6.6 (67)	937	89.3 (32)	1,808	7.2 (73)
Ontonagon	41	*	36	*	42	*	24	*	30	*	97	*	208	3.4 (35)
Osceola	350	78.6 (27)	305	30.5 (44)	314	13.7 (46)	228	24.6 (25)	277	10.8 (44)	881	86.7 (52)	1,697	6.7 (72)
Oscoda	131	74.8 (44)	128	28.9 (52)	111	12.6 (53)	79	*	105	8.6 (59)	358	87.7 (43)	693	8.1 (78)
Otsego	433	75.1 (41)	380	30.8 (39)	354	14.7 (36)	289	25.3 (21)	339	16.5 (10)	1,045	87.8 (42)	2,135	5.0 (61)
Ottawa	1,755	78.7 (25)	1,166	35.8 (19)	1,489	18.3 (15)	772	28.4 (15)	961	15.7 (13)	4,206	91.3 (18)	8,330	1.4 (5)

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

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

WIC PNNS & PedNSS

Table 7B

2016 - 2018 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County ⁽²⁾

Children Aged < 5 Years ⁽³⁾

Combined 3 Years

Comparison of Breastfeeding, TV Viewing, and Smoking in Household ^(4,5)

County	Breastfeeding ⁽⁶⁾				Exclusive Breastfeeding ⁽⁷⁾				≤ 2 Hours TV Viewing/Day ⁽⁸⁾		Smoking in Household			
	Number	% Ever Breastfed (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% (Rank)	Number	% (Rank)		
Presque Is	113	67.3 (64)	97	*	98	*	72	*	85	*	297	92.9 (8)	544	6.4 (70)
Roscommon	310	74.5 (47)	308	34.4 (25)	274	13.1 (48)	187	20.3 (40)	262	11.8 (34)	748	85.2 (59)	1,471	7.8 (74)
Saginaw	3,723	58.6 (77)	3,082	19.6 (76)	2,479	6.7 (75)	2,369	9.2 (70)	2,717	5.7 (70)	7,687	82.5 (69)	16,130	3.0 (30)
Sanilac	531	60.8 (75)	516	26.7 (60)	406	9.4 (72)	337	18.1 (48)	455	11.4 (35)	1,237	91.4 (17)	2,531	3.8 (43)
Schoolcraf	148	62.8 (71)	106	22.6 (72)	106	6.6 (76)	75	*	100	12.0 (33)	275	80.7 (73)	617	4.7 (57)
Shiawassee	966	74.3 (49)	975	31.4 (34)	905	14.8 (33)	633	14.5 (64)	822	7.4 (64)	2,427	93.1 (7)	4,983	2.4 (19)
St Clair	1,967	67.4 (63)	1,766	27.8 (58)	1,613	11.8 (58)	1,225	19.3 (42)	1,578	10.2 (46)	4,549	84.1 (62)	9,071	4.9 (59)
St Joseph	1,205	81.4 (12)	1,031	32.5 (28)	862	14.0 (43)	711	18.3 (46)	844	9.0 (55)	2,856	86.9 (50)	5,703	2.1 (15)
Tuscola	847	72.4 (52)	772	34.1 (26)	679	12.8 (51)	501	17.2 (55)	664	5.1 (71)	2,107	91.2 (19)	4,086	3.8 (43)
Van Buren	1,243	67.9 (62)	1,117	31.7 (32)	1,131	13.7 (46)	873	18.4 (45)	985	10.5 (45)	3,453	95.8 (1)	6,517	1.0 (2)
Washtenaw	2,840	80.5 (16)	2,618	37.6 (11)	2,251	20.3 (6)	1,913	23.1 (33)	2,299	14.0 (18)	6,662	89.9 (27)	13,447	1.6 (7)
Wayne	38,604	53.7 (79)	30,974	19.8 (75)	24,465	7.6 (74)	24,819	7.3 (71)	27,894	4.3 (74)	78,341	74.8 (81)	166,653	4.3 (50)
Wexford	724	78.9 (23)	479	30.9 (38)	665	16.8 (20)	279	23.3 (30)	442	9.0 (55)	1,804	87.2 (45)	3,535	4.5 (54)

(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) Rank compares one County's rate to other Counties. Rank 1 = best rate.

(6) 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 PNNS & PedNSS

Table 7B

2016 - 2018 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County ⁽²⁾

Children Aged < 5 Years ⁽³⁾

Combined 3 Years

Michigan	142,034	66.0	120,017	26.4	104,061	12.2	90,052	15.0	105,604	8.5	315,263	83.4	648,558	3.3
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