

WIC PNNS & PedNSS

Table 4B

2017 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	167	88.0	0.0	6.0	0.0	0.0	6.0	0.0
Alger	107	90.7	0.0	0.0	5.6	0.0	3.7	0.0
Allegan	4,854	52.7	3.3	36.5	0.0	1.3	5.8	0.4
Alpena	684	89.9	0.9	3.9	0.0	0.1	5.1	0.0
Antrim	467	90.8	0.0	1.9	0.9	0.0	6.4	0.0
Arenac	436	91.3	0.9	3.7	0.2	0.0	3.9	0.0
Baraga	208	40.9	0.0	2.4	47.1	0.0	9.6	0.0
Barry	1,037	93.2	0.3	3.8	0.0	0.1	2.5	0.2
Bay	2,311	70.5	2.4	15.5	0.0	0.3	11.3	0.0
Benzie	323	86.7	0.0	6.8	0.3	0.0	5.9	0.3
Berrien	3,303	44.0	38.5	8.6	0.3	0.6	7.6	0.4
Branch	1,234	82.1	0.3	12.9	0.0	0.0	4.5	0.2
Calhoun	3,988	49.9	19.3	9.3	0.1	6.4	14.8	0.1
Cass	1,589	52.0	6.6	30.1	0.1	0.2	10.2	0.8
Charlevoix	617	87.5	0.2	4.9	0.3	1.1	6.0	0.0
Cheboygan	444	82.2	0.2	4.1	0.0	0.5	13.1	0.0
Chippewa	921	45.9	0.0	3.1	17.5	0.4	32.9	0.1
Clare	821	88.1	0.0	6.2	0.0	0.4	5.2	0.1
Clinton	728	75.4	1.6	17.7	0.0	0.0	5.2	0.0
Crawford	296	91.9	0.0	2.4	0.0	0.0	5.4	0.3
Delta	941	77.0	0.0	3.5	0.0	0.2	19.2	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

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

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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	612	90.2	0.3	3.1	0.5	0.2	5.7	0.0
Eaton	1,261	78.0	4.0	10.2	0.0	0.5	7.4	0.0
Emmet	730	83.0	1.4	2.9	4.9	0.7	7.0	0.1
Genesee	10,161	40.7	38.5	7.1	0.0	0.3	13.3	0.1
Gladwin	638	94.2	0.6	2.2	0.5	0.0	2.5	0.0
Gogebic	313	79.9	1.6	2.2	7.3	0.0	8.6	0.3
Gr Travers	1,523	81.6	0.7	8.5	0.5	0.4	8.3	0.1
Gratiot	972	76.1	0.4	17.7	0.1	0.0	5.7	0.0
Hillsdale	1,104	87.0	0.4	4.8	0.0	0.0	7.7	0.1
Houghton	695	88.2	0.9	1.9	0.1	2.3	6.6	0.0
Huron	674	91.1	0.1	5.5	0.0	0.0	3.1	0.1
Ingham	6,248	33.1	24.8	20.0	0.1	6.4	15.4	0.1
Ionia	1,471	82.5	0.2	12.2	0.0	0.1	5.0	0.0
Iosco	591	85.1	0.8	4.6	0.0	0.0	9.5	0.0
Iron	255	94.1	0.0	2.0	0.0	0.0	3.1	0.8
Isabella	1,294	75.7	3.6	6.0	2.2	1.6	10.8	0.1
Jackson	4,023	60.3	13.7	8.7	0.1	0.3	16.9	0.0
Kalamazoo	5,874	40.5	34.0	12.0	0.0	0.8	12.5	0.2
Kalkaska	354	91.8	0.0	2.5	0.3	0.0	5.4	0.0
Kent	14,992	29.5	22.7	33.5	0.1	4.7	9.3	0.1
Lake	268	60.1	16.8	7.1	0.0	0.0	16.0	0.0

(1) Reporting period is January 1 through December 31

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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 %
Lapeer	1,758	71.3	0.7	19.1	0.2	0.1	8.6	0.1
Leelanau	207	43.5	1.0	32.4	9.7	0.0	13.5	0.0
Lenawee	1,785	59.4	1.2	27.2	0.1	0.0	11.6	0.5
Livingston	1,503	86.0	1.1	5.3	0.2	0.6	6.9	0.0
Luce	182	89.6	0.5	0.5	2.7	0.0	6.6	0.0
Mackinac	178	30.9	0.6	1.7	2.2	0.0	64.6	0.0
Macomb	12,231	55.7	24.0	5.4	0.0	5.4	9.4	0.1
Manistee	429	73.7	0.5	7.7	1.4	0.5	16.3	0.0
Marquette	1,007	80.4	0.3	4.1	1.1	0.7	13.2	0.2
Mason	677	75.6	1.0	14.8	0.3	0.0	7.8	0.4
Mecosta	1,002	82.8	3.2	5.6	0.3	0.1	7.9	0.1
Menominee	378	61.9	1.1	6.6	15.6	0.0	14.8	0.0
Midland	1,600	88.6	1.1	4.0	0.2	0.3	5.4	0.4
Missaukee	297	91.2	0.0	7.1	0.0	0.7	1.0	0.0
Monroe	2,471	72.2	6.6	9.4	0.1	0.2	11.0	0.4
Montcalm	1,353	88.1	0.1	7.2	0.1	0.0	4.3	0.2
Montmorenc	181	93.9	0.0	1.7	0.6	0.0	3.9	0.0
Muskegon	5,350	48.5	24.7	13.5	0.2	0.1	12.7	0.1
Newaygo	1,451	76.9	0.4	17.1	0.0	0.0	5.5	0.1
Oakland	14,174	38.0	38.1	13.7	0.1	2.1	8.0	0.1
Oceana	827	50.4	1.0	44.4	0.0	0.0	3.9	0.4

(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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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	581	87.6	0.2	5.2	0.0	0.0	7.1	0.0
Ontonagon	68	*	*	*	*	*	*	*
Osceola	556	90.8	0.9	4.0	0.0	0.0	4.1	0.2
Oscoda	222	92.8	0.0	4.5	0.0	0.0	2.7	0.0
Otsego	666	95.2	0.2	1.4	0.2	0.5	2.7	0.0
Ottawa	1,787	79.0	1.9	11.1	0.1	0.8	7.1	0.0
Presque Is	185	87.6	0.0	3.2	0.0	1.1	8.1	0.0
Roscommon	486	86.2	0.2	6.0	0.0	0.0	7.6	0.0
Saginaw	5,314	28.8	40.0	22.7	0.1	0.3	8.1	0.1
Sanilac	845	86.7	0.6	8.4	0.0	0.1	4.1	0.0
Schoolcraf	204	67.6	1.0	0.5	10.3	1.0	19.6	0.0
Shiawassee	1,582	82.0	0.6	7.8	0.1	0.1	9.3	0.1
St Clair	2,907	69.4	5.0	9.9	0.1	0.2	15.3	0.1
St Joseph	1,794	63.8	4.0	24.1	0.0	0.1	7.9	0.1
Tuscola	1,302	86.0	0.6	8.7	0.2	0.0	4.4	0.1
Van Buren	2,105	55.8	4.0	32.9	0.3	0.1	6.0	0.9
Washtenaw	4,359	29.4	37.0	12.7	0.1	3.6	16.8	0.3
Wayne	53,614	26.4	55.6	11.0	0.1	2.6	4.3	0.1
Wexford	1,106	88.7	0.2	5.1	0.3	0.2	5.5	0.1
Michigan	208,288	47.7	27.8	13.5	0.3	2.0	8.5	0.1

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2017 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Racial and Ethnic Distribution by County

Children Aged < 5 Years ⁽²⁾

National (Prior Year)	580,278	46.9	23.4	18.4	1.4	2.2	7.6	0.1
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Table 5B

2017 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	167	22.8	21.0	56.3
Alger	107	29.0	22.4	48.6
Allegan	4,854	21.2	25.4	53.4
Alpena	684	21.8	26.0	52.2
Antrim	467	20.8	22.3	57.0
Arenac	436	20.0	20.9	59.2
Baraga	208	23.1	21.2	55.8
Barry	1,037	23.0	22.5	54.6
Bay	2,311	20.3	27.8	52.0
Benzie	323	25.4	24.1	50.5
Berrien	3,303	31.4	20.7	48.0
Branch	1,234	20.9	27.1	51.9
Calhoun	3,988	21.8	24.1	54.1
Cass	1,589	19.3	21.3	59.4
Charlevoix	617	25.9	20.7	53.3
Cheboygan	444	28.6	20.0	51.4
Chippewa	921	23.7	22.9	53.4
Clare	821	19.9	26.3	53.8
Clinton	728	28.2	23.5	48.4
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Kent	14,992	24.8	23.1	52.1
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Oceana	827	17.8	24.9	57.3

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Schoolcraf	204	29.4	23.5	47.1
Shiawassee	1,582	21.0	24.3	54.7
St Clair	2,907	23.5	24.5	51.9
St Joseph	1,794	24.3	23.5	52.2
Tuscola	1,302	21.5	23.9	54.6
Van Buren	2,105	19.8	24.6	55.6
Washtenaw	4,359	24.9	24.4	50.7
Wayne	53,614	29.0	21.4	49.6
Wexford	1,106	21.3	25.0	53.6
Michigan	208,288	26.1	22.9	51.0

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WIC PNNS & PedNSS

Table 6B 2017 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	25	*	*	163	7.4 (55)	3.1 (59)	7.4 (2)	77	*	*	116	18.1 (50)
Alger	24	*	*	102	11.8 (81)	2.0 (25)	12.7 (58)	46	*	*	67	*
Allegan	839	11.2 (37)	9.8 (41)	4,726	5.8 (17)	2.8 (49)	12.1 (53)	2,206	17.8 (46)	14.1 (36)	3,439	35.4 (80)
Alpena	124	11.3 (39)	10.5 (46)	663	7.7 (63)	1.7 (17)	13.4 (69)	284	16.5 (30)	19.4 (69)	488	18.0 (49)
Antrim	70	*	*	457	6.3 (27)	5.3 (78)	12.3 (55)	229	14.4 (8)	13.5 (30)	328	17.7 (44)
Arenac	67	*	*	423	5.0 (5)	1.2 (4)	10.2 (22)	206	18.0 (48)	14.6 (42)	316	10.1 (14)
Baraga	33	*	*	198	6.1 (22)	1.5 (10)	20.2 (81)	100	21.0 (67)	26.0 (72)	146	18.5 (54)
Barry	144	11.8 (43)	6.9 (19)	1,006	6.6 (32)	2.8 (49)	10.0 (18)	473	15.6 (18)	11.2 (5)	698	11.6 (23)
Bay	389	6.7 (6)	9.0 (36)	2,267	7.6 (60)	1.5 (10)	13.0 (62)	1,015	18.8 (55)	16.2 (59)	1,691	11.2 (21)
Benzie	46	*	*	320	5.6 (11)	4.4 (73)	10.9 (34)	139	17.3 (36)	15.8 (55)	238	13.9 (31)
Berrien	679	10.2 (27)	7.1 (23)	3,223	8.1 (69)	3.5 (66)	9.5 (10)	1,319	18.3 (50)	11.9 (12)	2,195	17.9 (47)
Branch	204	4.9 (1)	9.3 (38)	1,195	9.7 (79)	1.5 (10)	15.1 (78)	544	17.1 (34)	15.3 (47)	843	3.4 (1)
Calhoun	658	10.8 (30)	6.4 (13)	3,877	7.5 (57)	3.1 (59)	13.8 (72)	1,840	18.8 (55)	15.3 (47)	2,921	27.4 (73)

(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.

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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	248	9.3 (23)	10.1 (43)	1,557	3.7 (2)	2.8 (49)	12.8 (59)	815	17.5 (43)	15.2 (45)	1,140	23.3 (65)
Charlevoix	105	11.4 (40)	12.4 (54)	599	7.0 (45)	3.7 (68)	9.8 (15)	274	18.6 (53)	12.4 (16)	428	8.9 (9)
Cheboygan	99	*	*	436	6.7 (35)	6.4 (80)	10.3 (24)	185	23.8 (72)	14.6 (42)	279	17.9 (47)
Chippewa	155	12.3 (45)	11.0 (49)	883	6.2 (25)	3.6 (67)	13.1 (65)	422	17.5 (43)	14.5 (38)	583	24.7 (69)
Clare	134	10.4 (29)	8.2 (30)	803	7.7 (63)	2.1 (27)	10.0 (18)	372	19.6 (62)	12.1 (13)	596	11.7 (24)
Clinton	126	13.5 (53)	13.5 (56)	711	9.0 (76)	2.0 (25)	10.7 (32)	297	15.8 (23)	13.8 (33)	519	9.1 (12)
Crawford	66	*	*	285	5.6 (11)	3.2 (61)	6.3 (1)	120	23.3 (71)	5.8 (1)	197	14.2 (33)
Delta	157	7.6 (15)	8.3 (32)	920	6.0 (20)	2.1 (27)	10.3 (24)	436	13.8 (6)	10.8 (4)	667	5.7 (4)
Dickinson	102	10.8 (30)	3.9 (1)	599	7.5 (57)	2.2 (30)	11.4 (44)	269	14.5 (10)	13.0 (22)	421	21.9 (61)
Eaton	223	11.2 (37)	6.7 (17)	1,225	7.8 (66)	3.0 (56)	13.5 (71)	553	21.3 (69)	17.4 (65)	843	9.6 (13)
Emmet	124	8.1 (16)	8.1 (28)	714	7.0 (45)	2.5 (41)	9.5 (10)	345	17.4 (40)	11.3 (6)	529	13.2 (28)
Genesee	2,026	12.8 (49)	4.8 (4)	9,876	8.8 (73)	2.7 (46)	11.2 (43)	4,220	15.8 (23)	12.8 (19)	6,738	23.8 (68)
Gladwin	92	*	*	626	5.4 (8)	1.9 (23)	11.0 (36)	303	13.5 (3)	15.5 (52)	480	8.1 (5)
Gogebic	59	*	*	306	6.9 (43)	3.9 (71)	13.4 (69)	135	17.8 (46)	17.0 (62)	200	8.5 (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) 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 2017 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	324	9.9 (26)	9.6 (40)	1,473	4.3 (3)	5.9 (79)	8.4 (4)	632	18.8 (55)	11.7 (9)	973	23.6 (66)
Gratiot	159	6.9 (7)	10.7 (47)	945	6.7 (35)	2.1 (27)	10.9 (34)	440	15.7 (20)	14.5 (38)	705	4.4 (3)
Hillsdale	206	5.8 (4)	11.7 (50)	1,073	7.5 (57)	1.3 (7)	10.6 (27)	466	15.7 (20)	10.1 (3)	730	10.3 (17)
Houghton	123	5.7 (3)	8.9 (35)	671	7.0 (45)	2.5 (41)	11.9 (50)	299	14.7 (12)	13.4 (28)	461	8.9 (9)
Huron	120	9.2 (22)	11.7 (50)	661	8.2 (70)	1.1 (2)	15.3 (79)	272	19.9 (64)	15.4 (49)	480	10.2 (15)
Ingham	1,243	12.1 (44)	6.6 (15)	6,092	7.1 (50)	3.8 (70)	10.0 (18)	2,617	15.2 (15)	13.3 (26)	4,269	14.2 (33)
Ionia	252	11.1 (35)	6.3 (10)	1,431	5.7 (15)	4.3 (72)	11.9 (50)	623	19.3 (60)	15.7 (53)	1,066	13.0 (27)
Iosco	110	8.2 (17)	8.2 (30)	572	6.6 (32)	2.6 (43)	11.9 (50)	233	13.7 (5)	15.9 (57)	406	22.7 (63)
Iron	47	*	*	251	6.4 (29)	4.4 (73)	14.7 (77)	118	18.6 (53)	19.5 (70)	173	14.5 (35)
Isabella	227	7.5 (13)	6.6 (15)	1,257	7.6 (60)	2.2 (30)	11.1 (40)	544	18.4 (52)	13.8 (33)	884	13.2 (28)
Jackson	700	11.1 (35)	6.3 (10)	3,874	5.8 (17)	4.8 (75)	11.1 (40)	1,799	18.3 (50)	16.5 (61)	2,786	25.2 (70)
Kalamazoo	1,033	10.8 (30)	7.0 (22)	5,702	6.0 (20)	3.4 (63)	11.0 (36)	2,575	18.0 (48)	13.7 (31)	4,160	33.0 (79)
Kalkaska	64	*	*	341	7.0 (45)	1.2 (4)	10.6 (27)	148	16.2 (27)	12.2 (14)	250	18.8 (55)
Kent	2,654	13.0 (51)	6.9 (19)	14,660	8.8 (73)	2.4 (40)	10.7 (32)	6,585	16.0 (25)	12.2 (14)	10,423	18.1 (50)

(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 2017 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	54	*	*	264	9.1 (77)	3.0 (56)	10.2 (22)	115	15.7 (20)	15.7 (53)	185	23.2 (64)
Lapeer	276	12.3 (45)	7.6 (26)	1,701	6.4 (29)	2.6 (43)	12.2 (54)	801	15.5 (16)	18.1 (68)	1,284	12.4 (26)
Leelanau	39	*	*	202	5.4 (8)	5.0 (76)	12.9 (61)	81	*	*	146	13.7 (30)
Lenawee	350	10.3 (28)	9.1 (37)	1,749	6.9 (43)	2.9 (53)	10.0 (18)	711	17.4 (40)	14.5 (38)	1,118	28.5 (75)
Livingston	237	9.7 (24)	7.2 (25)	1,465	7.2 (51)	1.4 (8)	9.6 (13)	669	19.0 (59)	13.0 (22)	1,038	8.9 (9)
Luce	38	*	*	178	4.5 (4)	2.8 (49)	14.6 (76)	91	*	*	125	20.8 (59)
Mackinac	27	*	*	175	5.7 (15)	2.3 (35)	13.1 (65)	79	*	*	132	8.3 (6)
Macomb	2,342	12.4 (47)	4.7 (3)	11,898	7.3 (52)	2.2 (30)	10.6 (27)	5,012	14.8 (13)	13.1 (24)	8,362	22.2 (62)
Manistee	89	*	*	415	8.0 (68)	2.7 (46)	12.8 (59)	186	20.4 (66)	17.2 (63)	290	19.0 (56)
Marquette	148	14.2 (55)	9.5 (39)	964	9.3 (78)	3.4 (63)	11.6 (46)	464	17.5 (43)	13.4 (28)	625	8.3 (6)
Mason	127	7.1 (9)	10.2 (44)	663	6.6 (32)	1.8 (20)	10.4 (26)	319	16.3 (28)	13.8 (33)	474	16.2 (40)
Mecosta	189	7.4 (12)	4.2 (2)	986	8.9 (75)	1.9 (23)	12.5 (57)	431	16.9 (33)	17.2 (63)	710	18.2 (52)
Menominee	69	*	*	368	6.3 (27)	1.6 (14)	17.1 (80)	172	14.0 (7)	16.3 (60)	251	10.4 (18)
Midland	374	7.5 (13)	10.2 (44)	1,569	8.6 (72)	1.8 (20)	14.3 (74)	622	20.1 (65)	13.3 (26)	1,007	17.1 (42)

(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 2017 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	53	*	*	290	5.2 (6)	1.4 (8)	7.9 (3)	135	13.3 (2)	12.6 (18)	214	14.0 (32)
Monroe	479	9.0 (21)	5.6 (9)	2,404	7.8 (66)	2.3 (35)	10.6 (27)	1,015	16.8 (31)	15.2 (45)	1,678	15.3 (38)
Montcalm	247	8.5 (20)	6.9 (19)	1,321	7.0 (45)	2.3 (35)	11.0 (36)	548	18.8 (55)	14.1 (36)	964	4.1 (2)
Montmorenc	42	*	*	177	6.8 (40)	1.1 (2)	13.0 (62)	77	*	*	115	12.2 (25)
Muskegon	1,023	10.9 (33)	5.4 (8)	5,184	7.6 (60)	2.9 (53)	11.7 (47)	2,332	16.8 (31)	13.7 (31)	3,734	30.1 (78)
Newaygo	228	8.3 (18)	8.3 (32)	1,414	7.7 (63)	1.6 (14)	11.4 (44)	694	15.0 (14)	12.5 (17)	1,040	19.6 (57)
Oakland	2,635	15.0 (56)	5.3 (7)	13,745	8.3 (71)	2.9 (53)	9.4 (8)	5,883	15.5 (16)	11.5 (7)	9,820	25.4 (71)
Oceana	112	9.8 (25)	6.3 (10)	808	6.8 (40)	1.7 (17)	13.0 (62)	390	17.2 (35)	17.9 (67)	623	15.4 (39)
Ogemaw	98	*	*	562	7.3 (52)	1.6 (14)	12.3 (55)	247	21.9 (70)	15.8 (55)	416	17.8 (46)
Ontonagon	12	*	*	66	*	*	*	23	*	*	40	*
Osceola	108	5.6 (2)	12.0 (53)	539	6.5 (31)	3.3 (62)	8.5 (5)	255	17.3 (36)	11.8 (11)	385	10.6 (19)
Oscoda	31	*	*	216	5.6 (11)	2.3 (35)	9.7 (14)	99	*	*	150	26.7 (72)
Otsego	101	12.9 (50)	10.9 (48)	645	5.3 (7)	5.1 (77)	13.2 (68)	266	17.3 (36)	15.4 (49)	454	14.5 (35)
Ottawa	291	11.7 (42)	12.7 (55)	1,739	6.8 (40)	2.2 (30)	9.9 (17)	809	12.5 (1)	10.0 (2)	1,257	27.6 (74)

(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.

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

WIC PNNS & PedNSS

Table 6B 2017 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	34	*	*	180	6.1 (22)	2.2 (30)	10.6 (27)	91	*	*	128	21.1 (60)
Roscommon	82	*	*	470	5.5 (10)	1.5 (10)	8.9 (7)	208	13.5 (3)	15.4 (49)	344	10.2 (15)
Saginaw	1,093	13.5 (53)	5.1 (5)	5,091	5.9 (19)	3.0 (56)	11.8 (49)	2,242	16.1 (26)	13.2 (25)	3,620	20.1 (58)
Sanilac	141	7.1 (9)	6.4 (13)	808	10.5 (80)	0.6 (1)	14.4 (75)	350	21.1 (68)	22.3 (71)	565	17.7 (44)
Schoolcraf	41	*	*	196	3.6 (1)	7.1 (81)	11.7 (47)	81	*	*	139	16.5 (41)
Shiawassee	251	8.4 (19)	7.6 (26)	1,540	5.6 (11)	3.4 (63)	11.0 (36)	710	19.4 (61)	15.1 (44)	1,157	14.9 (37)
St Clair	510	6.9 (7)	7.1 (23)	2,825	7.3 (52)	1.8 (20)	11.1 (40)	1,273	17.4 (40)	15.9 (57)	2,006	17.4 (43)
St Joseph	313	12.5 (48)	8.3 (32)	1,744	6.7 (35)	1.7 (17)	13.1 (65)	792	16.4 (29)	14.5 (38)	1,283	10.7 (20)
Tuscola	219	11.0 (34)	11.9 (52)	1,276	7.4 (55)	2.7 (46)	9.4 (8)	613	14.4 (8)	12.9 (21)	954	11.2 (21)
Van Buren	334	7.2 (11)	9.9 (42)	2,055	6.1 (22)	2.6 (43)	14.0 (73)	984	17.3 (36)	17.7 (66)	1,564	23.7 (67)
Washtenaw	803	11.5 (41)	6.7 (17)	4,249	6.7 (35)	2.3 (35)	8.8 (6)	1,820	15.6 (18)	12.8 (19)	3,095	29.0 (76)
Wayne	10,481	13.2 (52)	5.1 (5)	52,032	6.7 (35)	3.7 (68)	9.5 (10)	22,495	14.6 (11)	11.7 (9)	35,697	29.9 (77)
Wexford	197	6.1 (5)	8.1 (28)	1,090	6.2 (25)	1.2 (4)	9.8 (15)	502	19.7 (63)	11.6 (8)	786	18.2 (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.

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

WIC PNNS & PedNSS

Table 6B

2017 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Growth and Anemia Indicators by County

Children Aged < 5 Years ⁽²⁾

Michigan	38,606	11.8	6.5	202,447	7.2	3.0	10.7	89,268	16.2	13.2	142,864	22.8
National (Prior Year)	139,548	10.9	6.7	565,141	8.4	3.0	10.0	221,810	15.6	12.0	384,675	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) 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

2017 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	25	*	28	*	23	*	18	*	19	*	94	*	167	4.2 (46)
Alger	24	*	22	*	17	*	14	*	16	*	52	*	107	6.5 (69)
Allegan	849	75.4 (29)	684	32.6 (38)	887	14.9 (23)	416	23.3 (14)	555	10.5 (26)	2,522	90.1 (29)	4,811	2.0 (12)
Alpena	125	64.8 (47)	117	33.3 (34)	129	10.9 (48)	98	*	100	18.0 (6)	355	89.9 (30)	683	3.1 (27)
Antrim	71	*	79	*	78	*	40	*	59	*	266	87.6 (41)	467	7.7 (73)
Arenac	67	*	85	*	66	*	54	*	68	*	257	89.5 (33)	436	8.3 (76)
Baraga	34	*	32	*	27	*	26	*	30	*	116	85.3 (56)	207	4.3 (48)
Barry	150	76.0 (26)	203	35.0 (27)	165	13.9 (31)	113	21.2 (18)	178	17.4 (8)	564	91.1 (20)	1,031	3.1 (27)
Bay	389	64.5 (48)	423	34.0 (31)	460	12.4 (40)	315	19.7 (22)	351	5.7 (47)	1,198	91.2 (19)	2,308	3.2 (30)
Benzie	46	*	67	*	60	*	38	*	54	*	161	86.3 (51)	323	5.9 (66)
Berrien	682	72.4 (39)	576	27.8 (47)	424	13.9 (31)	452	16.2 (30)	513	9.7 (32)	1,536	82.8 (63)	3,280	3.6 (36)
Branch	206	84.0 (4)	197	43.1 (7)	242	14.5 (26)	142	23.9 (11)	158	12.7 (17)	640	80.9 (70)	1,230	4.1 (44)
Calhoun	663	73.5 (36)	688	29.1 (43)	743	14.7 (25)	435	14.7 (31)	554	7.0 (41)	2,129	87.1 (45)	3,960	2.2 (16)

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WIC PNNS & PedNSS

Table 7B

2017 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	248	78.2 (18)	256	41.4 (9)	252	19.4 (10)	188	23.4 (13)	205	20.5 (2)	927	97.5 (1)	1,573	1.4 (6)
Charlevoix	114	84.2 (3)	111	47.7 (4)	95	*	75	*	94	*	325	87.1 (45)	614	3.9 (39)
Cheboygan	100	73.0 (37)	97	*	69	*	54	*	73	*	228	79.4 (74)	444	9.0 (78)
Chippewa	156	65.4 (46)	170	32.9 (36)	138	20.3 (8)	114	26.3 (6)	143	14.0 (15)	492	97.2 (2)	916	10.9 (80)
Clare	135	63.7 (50)	139	35.3 (23)	162	14.2 (28)	92	*	120	10.0 (29)	441	94.3 (9)	820	4.8 (58)
Clinton	127	82.7 (9)	154	39.6 (12)	120	21.7 (5)	103	26.2 (8)	121	12.4 (20)	347	85.6 (55)	724	1.8 (8)
Crawford	66	*	65	*	49	*	49	*	56	*	152	78.9 (75)	296	5.4 (61)
Delta	157	72.6 (38)	176	25.6 (51)	180	11.1 (47)	126	18.3 (25)	157	10.8 (24)	515	88.5 (37)	934	3.4 (33)
Dickinson	102	76.5 (23)	122	43.4 (6)	95	*	74	*	106	24.5 (1)	331	92.1 (13)	611	0.8 (2)
Eaton	229	83.4 (7)	276	33.3 (34)	215	18.1 (14)	180	14.4 (34)	237	7.6 (39)	646	82.0 (66)	1,256	2.8 (24)
Emmet	126	79.4 (13)	130	51.5 (3)	106	26.4 (3)	67	*	99	*	412	90.3 (24)	727	4.3 (48)
Genesee	2,037	56.2 (56)	2,166	22.7 (56)	1,589	9.1 (55)	1,442	9.3 (39)	1,700	6.8 (43)	4,904	80.7 (71)	10,069	3.4 (33)
Gladwin	92	*	114	39.5 (13)	120	17.5 (15)	66	*	97	*	371	94.1 (10)	637	7.2 (70)

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WIC PNNS & PedNSS

Table 7B

2017 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	59	*	54	*	43	*	42	*	49	*	167	87.4 (42)	313	4.5 (55)
Gr Travers	324	87.3 (1)	281	52.0 (2)	298	21.1 (6)	161	36.6 (1)	225	17.3 (9)	736	89.5 (33)	1,522	2.2 (16)
Gratiot	159	79.9 (12)	179	43.6 (5)	129	27.9 (2)	124	33.1 (3)	152	16.4 (10)	522	90.6 (22)	959	2.1 (14)
Hillsdale	207	75.8 (28)	218	28.9 (44)	184	14.1 (29)	152	22.4 (15)	190	12.6 (19)	555	87.2 (43)	1,102	4.9 (59)
Houghton	125	84.0 (4)	129	52.7 (1)	121	28.1 (1)	83	*	109	20.2 (3)	373	90.3 (24)	692	1.4 (6)
Huron	122	77.0 (21)	130	35.4 (22)	116	13.8 (33)	94	*	114	3.5 (51)	333	85.3 (56)	673	4.6 (56)
Ingham	1,257	78.1 (19)	1,163	39.0 (16)	985	18.4 (13)	748	20.6 (20)	947	11.1 (21)	3,098	91.3 (18)	6,157	2.5 (20)
Ionia	253	80.6 (11)	286	35.3 (23)	308	11.7 (44)	180	21.1 (19)	245	12.7 (17)	761	85.9 (53)	1,469	3.9 (39)
Iosco	110	60.9 (52)	117	24.8 (52)	112	9.8 (52)	88	*	98	*	286	92.0 (15)	590	6.1 (68)
Iron	47	*	45	*	44	*	30	*	31	*	131	88.5 (37)	255	4.7 (57)
Isabella	227	74.0 (35)	208	37.5 (18)	219	13.7 (34)	153	21.6 (16)	176	14.8 (13)	652	91.9 (16)	1,291	3.7 (37)
Jackson	702	70.5 (40)	914	34.5 (28)	729	10.8 (49)	507	17.9 (27)	739	10.3 (27)	2,144	83.3 (60)	4,008	4.4 (51)
Kalamazoo	1,038	70.2 (42)	1,015	27.3 (49)	892	14.8 (24)	711	18.3 (25)	892	8.6 (35)	3,023	77.7 (76)	5,850	3.1 (27)

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WIC PNNS & PedNSS

Table 7B

2017 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	64	*	62	*	74	*	38	*	49	*	187	79.7 (73)	354	8.5 (77)
Kent	2,683	75.1 (30)	3,038	30.1 (41)	2,440	13.7 (34)	2,051	16.4 (29)	2,552	9.2 (33)	7,720	87.2 (43)	14,920	2.0 (12)
Lake	54	*	47	*	54	*	35	*	42	*	129	85.3 (56)	265	7.2 (70)
Lapeer	279	79.2 (14)	303	34.3 (29)	328	15.5 (21)	225	19.1 (23)	277	7.6 (39)	944	93.0 (12)	1,756	0.6 (1)
Leelanau	39	*	37	*	28	*	24	*	28	*	104	81.7 (68)	204	2.9 (25)
Lenawee	350	76.3 (25)	368	34.0 (31)	310	14.5 (26)	261	24.9 (9)	314	15.0 (12)	842	85.9 (53)	1,767	2.7 (23)
Livingston	237	76.4 (24)	319	35.1 (25)	267	13.1 (37)	202	19.8 (21)	270	11.1 (21)	786	94.4 (7)	1,503	1.3 (4)
Luce	38	*	42	*	26	*	32	*	37	*	103	90.3 (24)	181	3.9 (39)
Mackinac	27	*	27	*	33	*	12	*	24	*	101	82.2 (65)	178	5.6 (63)
Macomb	2,417	60.7 (54)	2,453	24.1 (55)	2,158	9.4 (54)	1,805	12.5 (38)	2,034	6.0 (46)	5,898	83.1 (62)	12,206	1.9 (10)
Manistee	89	*	73	*	79	*	52	*	61	*	225	90.2 (28)	427	2.3 (18)
Marquette	150	78.7 (17)	152	42.1 (8)	211	19.4 (10)	71	*	130	10.0 (29)	550	90.9 (21)	997	3.4 (33)
Mason	128	76.6 (22)	105	30.5 (40)	124	12.1 (42)	80	*	94	*	382	89.8 (32)	677	3.0 (26)

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WIC PNNS & PedNSS

Table 7B

2017 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

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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)		
Mecosta	189	74.6 (33)	168	39.3 (15)	186	16.1 (19)	119	28.6 (4)	142	17.6 (7)	515	86.4 (50)	997	7.5 (72)
Menominee	70	*	69	*	69	*	49	*	61	*	201	95.0 (4)	377	4.0 (43)
Midland	377	74.8 (32)	347	39.8 (10)	221	18.6 (12)	278	26.6 (5)	286	15.4 (11)	752	94.8 (5)	1,552	2.5 (20)
Missaukee	53	*	42	*	57	*	32	*	39	*	162	83.3 (60)	296	5.7 (65)
Monroe	481	60.9 (52)	446	24.2 (54)	455	12.3 (41)	366	13.4 (36)	393	6.9 (42)	1,211	89.5 (33)	2,463	3.9 (39)
Montcalm	248	83.5 (6)	259	35.9 (20)	217	16.1 (19)	173	24.3 (10)	220	10.0 (29)	668	82.3 (64)	1,349	4.2 (46)
Montmorenc	42	*	25	*	24	*	22	*	18	*	93	*	181	11.0 (81)
Muskegon	1,030	63.8 (49)	923	28.9 (44)	944	10.1 (50)	705	14.6 (33)	769	7.7 (38)	2,696	79.8 (72)	5,339	5.5 (62)
Newaygo	228	75.0 (31)	214	34.1 (30)	260	17.3 (16)	137	26.3 (6)	182	18.7 (4)	820	94.4 (7)	1,448	3.2 (30)
Oakland	2,675	68.8 (43)	2,761	27.8 (47)	2,207	11.6 (46)	2,054	13.2 (37)	2,408	8.2 (36)	6,960	83.4 (59)	14,094	1.9 (10)
Oceana	113	78.8 (16)	125	37.6 (17)	151	20.5 (7)	84	*	110	6.4 (44)	470	86.8 (48)	824	2.4 (19)
Ogemaw	98	*	117	24.8 (52)	117	12.8 (39)	75	*	99	*	304	92.1 (13)	581	8.1 (75)
Ontonagon	12	*	13	*	12	*	11	*	11	*	31	*	68	*

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WIC PNNS & PedNSS

Table 7B

2017 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

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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	108	86.1 (2)	99	*	101	9.9 (51)	74	*	83	*	299	86.0 (52)	556	5.6 (63)
Oscoda	31	*	45	*	37	*	19	*	35	*	119	89.9 (30)	222	9.5 (79)
Otsego	125	76.0 (26)	131	32.1 (39)	105	16.2 (18)	92	*	108	14.8 (13)	329	90.3 (24)	661	5.0 (60)
Ottawa	300	77.3 (20)	264	39.8 (10)	343	19.5 (9)	191	33.5 (2)	223	18.4 (5)	916	90.5 (23)	1,767	1.8 (8)
Presque Is	34	*	35	*	32	*	27	*	31	*	107	93.5 (11)	185	5.9 (66)
Roscommon	83	*	114	28.9 (44)	100	14.0 (30)	61	*	95	*	256	81.3 (69)	486	8.0 (74)
Saginaw	1,093	57.4 (55)	1,012	21.4 (58)	787	6.4 (57)	751	7.5 (40)	871	5.4 (48)	2,589	81.9 (67)	5,228	3.3 (32)
Sanilac	142	62.7 (51)	173	26.0 (50)	133	12.0 (43)	99	*	150	10.7 (25)	441	88.4 (39)	841	4.4 (51)
Schoolcraf	41	*	38	*	34	*	24	*	35	*	96	*	204	4.4 (51)
Shiawassee	252	74.6 (33)	302	35.1 (25)	301	13.6 (36)	196	14.3 (35)	239	8.8 (34)	814	94.7 (6)	1,573	2.6 (22)
St Clair	511	67.5 (45)	630	32.9 (36)	565	11.7 (44)	367	18.8 (24)	536	10.1 (28)	1,508	86.7 (49)	2,905	4.1 (44)
St Joseph	315	82.9 (8)	344	35.5 (21)	295	12.9 (38)	210	17.6 (28)	277	7.9 (37)	921	88.4 (39)	1,779	2.1 (14)
Tuscola	220	70.5 (40)	253	34.0 (31)	222	9.5 (53)	150	14.7 (31)	213	5.2 (49)	710	91.5 (17)	1,301	3.7 (37)

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WIC PNNS & PedNSS

Table 7B

2017 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)		
Van Buren	338	68.0 (44)	355	37.5 (18)	381	15.2 (22)	229	21.4 (17)	296	11.1 (21)	1,149	95.6 (3)	2,078	1.3 (4)
Washtenaw	810	78.9 (15)	835	39.5 (13)	764	22.8 (4)	595	23.5 (12)	699	13.2 (16)	2,189	89.3 (36)	4,307	1.2 (3)
Wayne	10,761	53.8 (57)	10,215	21.7 (57)	7,837	7.9 (56)	7,827	7.0 (41)	8,949	4.5 (50)	26,162	75.3 (77)	53,386	4.3 (48)
Wexford	198	81.3 (10)	137	29.2 (42)	204	17.2 (17)	70	*	125	6.4 (44)	594	86.9 (47)	1,106	4.4 (51)
Michigan	39,192	66.1	39,435	28.8	33,989	12.4	27,844	14.7	33,447	8.4	104,823	83.7	207,129	3.4
National (Prior Year)	142,151	66.6	105,607	22.1	83,350	15.5	103,459	10.4	102,897	5.3	152,278	84.1	332,232	3.1

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WIC PNNS & PedNSS

Table 6B

2015 - 2017 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	86	*	*	471	8.1 (72)	2.5 (34)	9.1 (8)	207	15.9 (16)	9.7 (2)	339	20.6 (65)
Alger	75	*	*	363	8.0 (70)	2.5 (34)	9.4 (14)	170	20.6 (76)	14.1 (41)	224	18.8 (58)
Allegan	3,266	9.2 (50)	8.9 (46)	15,854	5.3 (11)	2.6 (43)	11.6 (58)	7,088	18.1 (50)	14.4 (46)	11,200	32.8 (82)
Alpena	453	8.6 (35)	10.8 (70)	2,117	7.8 (65)	1.7 (14)	13.6 (76)	907	16.8 (31)	16.3 (68)	1,482	16.1 (47)
Antrim	262	6.5 (5)	9.2 (51)	1,457	6.7 (33)	5.1 (79)	11.8 (61)	661	14.8 (7)	14.2 (42)	1,025	10.6 (23)
Arenac	268	6.7 (7)	8.6 (42)	1,367	5.6 (15)	1.6 (9)	11.0 (50)	601	18.1 (50)	16.6 (71)	955	9.0 (17)
Baraga	134	5.2 (1)	13.4 (79)	692	6.6 (30)	1.6 (9)	16.5 (82)	328	21.0 (77)	20.7 (81)	483	16.4 (51)
Barry	660	11.1 (71)	7.7 (30)	3,417	6.7 (33)	3.1 (57)	9.7 (22)	1,521	17.7 (46)	12.2 (14)	2,334	10.1 (19)
Bay	1,485	8.8 (40)	10.3 (66)	7,239	7.9 (68)	1.7 (14)	12.0 (64)	3,121	18.1 (50)	15.3 (60)	5,251	9.8 (18)
Benzie	240	7.5 (18)	9.6 (58)	1,093	6.0 (20)	5.5 (80)	10.2 (32)	434	16.1 (21)	14.3 (43)	751	13.0 (37)
Berrien	2,528	9.6 (54)	7.4 (24)	10,653	6.8 (35)	4.2 (72)	9.3 (12)	4,311	17.0 (34)	12.3 (17)	7,029	15.2 (41)
Branch	839	6.9 (9)	9.1 (49)	4,111	8.3 (77)	1.7 (14)	14.4 (80)	1,818	17.1 (36)	15.3 (60)	2,803	3.0 (1)
Calhoun	2,649	9.8 (58)	7.1 (21)	12,646	7.6 (60)	3.1 (57)	13.2 (75)	5,661	17.8 (48)	14.9 (53)	8,989	26.5 (79)
Cass	992	7.6 (20)	9.8 (59)	5,142	4.6 (6)	2.5 (34)	12.2 (66)	2,411	18.1 (50)	14.6 (47)	3,695	20.2 (62)

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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

2015 - 2017 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)
Charlevoix	354	9.6 (54)	9.3 (53)	1,947	6.3 (25)	3.6 (66)	9.6 (21)	947	16.3 (22)	12.9 (23)	1,413	7.2 (8)
Cheboygan	357	10.1 (61)	8.4 (38)	1,469	7.1 (46)	4.2 (72)	9.7 (22)	587	17.4 (41)	14.0 (39)	928	14.8 (40)
Chippewa	594	8.2 (27)	10.8 (70)	2,939	6.8 (35)	3.0 (50)	13.1 (73)	1,295	16.3 (22)	14.3 (43)	1,934	20.8 (66)
Clare	570	7.7 (21)	6.1 (10)	2,745	7.7 (63)	1.9 (21)	10.7 (44)	1,208	18.5 (60)	14.6 (47)	1,960	11.7 (28)
Clinton	522	7.9 (24)	9.4 (55)	2,458	7.8 (65)	1.8 (19)	10.5 (37)	1,031	17.0 (34)	12.3 (17)	1,662	5.9 (5)
Crawford	227	10.6 (64)	11.9 (74)	941	8.4 (78)	2.3 (30)	9.9 (27)	376	21.3 (79)	13.3 (29)	641	16.1 (47)
Delta	627	8.3 (30)	9.9 (63)	3,034	5.9 (19)	2.4 (32)	9.4 (14)	1,315	17.1 (36)	11.1 (7)	2,097	3.9 (2)
Dickinson	384	9.6 (54)	9.1 (49)	1,908	7.5 (56)	2.0 (23)	9.1 (8)	842	16.0 (18)	10.8 (4)	1,299	16.8 (55)
Eaton	829	8.2 (27)	6.2 (11)	4,014	7.2 (50)	3.4 (64)	12.7 (69)	1,705	18.2 (55)	16.5 (69)	2,671	8.8 (15)
Emmet	460	8.9 (42)	10.0 (64)	2,299	6.5 (28)	3.1 (57)	11.0 (50)	1,014	16.4 (26)	12.8 (22)	1,653	11.7 (28)
Genesee	7,595	12.2 (75)	5.2 (2)	31,572	9.1 (81)	2.5 (34)	10.7 (44)	12,734	15.7 (13)	12.2 (14)	20,936	24.1 (73)
Gladwin	379	8.4 (32)	6.3 (13)	2,050	5.0 (8)	2.7 (45)	10.5 (37)	952	14.0 (3)	13.7 (33)	1,474	8.6 (14)
Gogebic	220	8.2 (27)	5.5 (3)	1,054	6.1 (22)	4.6 (76)	11.7 (60)	449	18.7 (64)	14.9 (53)	689	8.9 (16)
Gr Travers	1,260	9.0 (45)	9.8 (59)	5,007	4.4 (3)	6.2 (81)	8.7 (5)	2,089	17.6 (45)	12.1 (13)	3,199	22.8 (70)

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

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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

2015 - 2017 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	622	10.9 (68)	8.8 (44)	3,120	6.8 (35)	3.1 (57)	10.1 (28)	1,347	15.7 (13)	12.9 (23)	2,230	4.3 (4)
Hillsdale	767	7.2 (12)	9.3 (53)	3,579	8.1 (72)	1.5 (3)	10.5 (37)	1,518	16.4 (26)	11.6 (9)	2,427	6.8 (7)
Houghton	489	9.0 (45)	9.2 (51)	2,223	7.5 (56)	2.5 (34)	8.8 (6)	970	16.6 (28)	11.3 (8)	1,524	8.5 (13)
Huron	461	8.7 (37)	11.7 (73)	2,069	7.4 (52)	2.0 (23)	13.7 (77)	853	18.6 (62)	15.4 (62)	1,433	10.6 (23)
Ingham	4,570	10.8 (66)	6.3 (13)	19,708	6.9 (40)	3.6 (66)	9.8 (25)	8,200	15.7 (13)	13.0 (25)	13,401	13.8 (38)
Ionia	1,013	8.9 (42)	8.5 (39)	4,668	5.0 (8)	4.9 (77)	10.8 (46)	1,955	18.0 (49)	15.0 (56)	3,264	11.2 (27)
Iosco	436	7.1 (10)	8.9 (46)	1,921	6.6 (30)	3.3 (63)	10.9 (47)	753	14.6 (5)	15.1 (57)	1,316	24.2 (74)
Iron	163	9.8 (58)	7.4 (24)	829	7.0 (42)	2.2 (28)	13.9 (78)	385	19.2 (68)	17.7 (75)	576	11.1 (26)
Isabella	919	8.9 (42)	9.5 (56)	4,118	8.0 (70)	2.5 (34)	10.5 (37)	1,698	18.3 (57)	15.2 (58)	2,758	12.6 (35)
Jackson	2,720	10.4 (63)	7.1 (21)	12,835	5.7 (18)	4.5 (75)	10.4 (35)	5,690	19.0 (66)	15.7 (64)	8,865	24.6 (76)
Kalamazoo	3,941	10.6 (64)	8.5 (39)	18,149	6.1 (22)	3.4 (64)	10.9 (47)	7,888	17.4 (41)	13.1 (27)	12,851	28.8 (80)
Kalkaska	256	7.4 (17)	7.4 (24)	1,155	7.1 (46)	1.6 (9)	9.8 (25)	497	16.9 (32)	13.9 (36)	794	19.6 (60)
Kent	10,093	11.0 (69)	7.4 (24)	48,548	8.2 (76)	2.3 (30)	10.5 (37)	21,055	16.0 (18)	12.3 (17)	33,538	15.5 (43)
Lake	177	9.0 (45)	6.2 (11)	821	7.7 (63)	2.4 (32)	11.8 (61)	364	17.3 (40)	18.1 (77)	581	20.3 (64)

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

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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

2015 - 2017 Pediatric Nutrition Surveillance ⁽¹⁾

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	1,133	9.2 (50)	8.2 (35)	5,667	7.0 (42)	2.0 (23)	10.9 (47)	2,456	18.6 (62)	16.9 (72)	4,089	12.0 (31)
Leelanau	139	7.2 (12)	12.9 (76)	662	5.3 (11)	4.4 (74)	13.1 (73)	269	20.4 (75)	13.0 (25)	463	10.8 (25)
Lenawee	1,417	8.7 (37)	8.5 (39)	6,058	6.8 (35)	2.7 (45)	10.2 (32)	2,374	18.8 (65)	14.3 (43)	3,698	18.5 (57)
Livingston	1,024	7.9 (24)	8.2 (35)	4,892	6.9 (40)	1.3 (1)	9.2 (10)	2,134	17.4 (41)	12.2 (14)	3,391	7.7 (9)
Luce	107	5.6 (3)	13.1 (77)	559	4.7 (7)	2.5 (34)	11.1 (52)	262	21.8 (81)	18.7 (79)	406	16.0 (46)
Mackinac	110	7.3 (14)	6.4 (16)	553	4.3 (2)	1.6 (9)	11.6 (58)	240	10.4 (2)	17.9 (76)	407	6.6 (6)
Macomb	8,917	11.9 (73)	6.0 (7)	38,631	7.0 (42)	2.0 (23)	10.5 (37)	15,348	15.3 (10)	13.4 (31)	25,741	22.7 (68)
Manistee	332	10.8 (66)	6.0 (7)	1,383	7.8 (65)	3.0 (50)	11.8 (61)	606	19.6 (71)	17.2 (74)	925	15.7 (45)
Marquette	712	9.8 (58)	9.8 (59)	3,252	9.3 (82)	3.0 (50)	12.6 (68)	1,420	17.5 (44)	14.7 (49)	1,939	8.4 (12)
Mason	450	9.1 (48)	8.7 (43)	2,085	7.6 (60)	1.6 (9)	10.6 (43)	902	17.1 (36)	16.0 (67)	1,493	18.8 (58)
Mecosta	672	7.1 (10)	7.1 (21)	3,133	7.6 (60)	1.4 (2)	11.5 (55)	1,352	19.5 (70)	17.1 (73)	2,197	16.1 (47)
Menominee	280	9.3 (53)	5.7 (4)	1,244	7.4 (52)	3.1 (57)	15.2 (81)	537	16.9 (32)	18.4 (78)	794	8.2 (11)
Midland	1,139	8.8 (40)	10.5 (69)	4,964	8.6 (79)	1.5 (3)	12.7 (69)	2,019	19.3 (69)	14.8 (52)	3,190	12.2 (32)
Missaukee	195	5.6 (3)	13.3 (78)	1,015	5.2 (10)	1.9 (21)	7.6 (3)	474	21.1 (78)	11.0 (6)	727	12.2 (32)

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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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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)
Monroe	1,790	9.6 (54)	7.4 (24)	7,984	7.9 (68)	2.6 (43)	10.4 (35)	3,324	16.3 (22)	14.7 (49)	5,455	13.9 (39)
Montcalm	921	9.2 (50)	7.7 (30)	4,337	7.4 (52)	1.7 (14)	10.3 (34)	1,807	19.1 (67)	13.2 (28)	3,089	4.1 (3)
Montmorenc	117	10.3 (62)	10.3 (66)	514	5.4 (13)	2.5 (34)	11.5 (55)	222	21.6 (80)	14.9 (53)	348	16.4 (51)
Muskegon	3,902	11.3 (72)	6.0 (7)	17,004	7.3 (51)	3.0 (50)	11.4 (53)	7,348	15.9 (16)	13.3 (29)	11,890	25.1 (77)
Newaygo	913	9.1 (48)	10.4 (68)	4,665	7.1 (46)	1.8 (19)	11.4 (53)	2,217	16.0 (18)	13.7 (33)	3,406	19.9 (61)
Oakland	9,841	12.8 (78)	5.7 (4)	44,144	8.1 (72)	2.9 (47)	9.4 (14)	17,918	14.9 (8)	11.6 (9)	30,338	22.7 (68)
Oceana	510	7.3 (14)	7.8 (32)	2,656	8.7 (80)	1.5 (3)	14.1 (79)	1,231	20.2 (74)	19.0 (80)	1,938	20.2 (62)
Ogemaw	363	7.7 (21)	8.0 (33)	1,790	7.1 (46)	1.5 (3)	12.5 (67)	789	19.8 (72)	15.2 (58)	1,291	24.3 (75)
Ontonagon	51	*	*	226	4.4 (3)	4.0 (71)	6.2 (1)	94	*	*	143	7.7 (9)
Osceola	336	5.4 (2)	9.8 (59)	1,644	6.4 (26)	2.9 (47)	9.3 (12)	779	16.7 (29)	12.7 (20)	1,145	11.7 (28)
Oscoda	136	13.2 (79)	6.6 (19)	676	7.5 (56)	3.6 (66)	10.1 (28)	292	18.5 (60)	14.0 (39)	479	25.9 (78)
Otsego	425	7.8 (23)	10.1 (65)	2,197	6.0 (20)	5.0 (78)	12.8 (71)	907	20.0 (73)	15.7 (64)	1,496	12.9 (36)
Ottawa	1,120	7.5 (18)	11.9 (74)	5,729	6.4 (26)	3.0 (50)	9.5 (18)	2,575	15.2 (9)	9.8 (3)	4,072	22.0 (67)
Presque Is	112	8.0 (26)	6.3 (13)	570	4.4 (3)	3.0 (50)	8.1 (4)	279	14.3 (4)	10.8 (4)	383	18.3 (56)

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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	314	8.6 (35)	7.0 (20)	1,511	6.6 (30)	2.9 (47)	9.0 (7)	666	17.1 (36)	14.7 (49)	1,070	10.5 (22)
Saginaw	3,853	12.4 (76)	5.8 (6)	16,542	6.2 (24)	3.0 (50)	12.0 (64)	7,112	16.7 (29)	13.8 (35)	11,580	16.5 (53)
Sanilac	557	6.5 (5)	6.5 (17)	2,517	8.1 (72)	1.5 (3)	9.7 (22)	1,022	17.7 (46)	13.9 (36)	1,703	15.6 (44)
Schoolcraf	146	11.0 (69)	11.0 (72)	649	2.9 (1)	10.6 (82)	6.3 (2)	283	9.5 (1)	9.2 (1)	431	16.2 (50)
Shiawassee	1,064	8.5 (33)	9.0 (48)	5,171	5.6 (15)	3.8 (69)	10.1 (28)	2,280	18.1 (50)	15.4 (62)	3,688	15.2 (41)
St Clair	2,012	8.3 (30)	7.5 (29)	9,213	7.0 (42)	1.7 (14)	10.1 (28)	3,887	18.3 (57)	15.8 (66)	6,323	12.3 (34)
St Joseph	1,236	8.5 (33)	8.2 (35)	5,931	6.5 (28)	2.0 (23)	11.5 (55)	2,606	15.6 (11)	13.9 (36)	4,243	10.2 (20)
Tuscola	830	8.7 (37)	8.0 (33)	4,128	7.4 (52)	2.5 (34)	9.5 (18)	1,856	15.6 (11)	13.6 (32)	3,002	10.2 (20)
Van Buren	1,344	7.3 (14)	9.5 (56)	6,859	5.4 (13)	3.1 (57)	12.9 (72)	3,125	18.2 (55)	16.5 (69)	4,953	22.8 (70)
Washtenaw	3,076	12.1 (74)	6.5 (17)	14,233	7.5 (56)	2.2 (28)	9.5 (18)	6,083	16.3 (22)	12.7 (20)	10,114	23.3 (72)
Wayne	38,888	12.7 (77)	4.8 (1)	169,018	6.8 (35)	3.8 (69)	9.4 (14)	70,130	14.6 (5)	11.7 (11)	112,600	29.1 (81)
Wexford	763	6.7 (7)	8.8 (44)	3,669	5.6 (15)	1.5 (3)	9.2 (10)	1,610	18.4 (59)	12.0 (12)	2,588	16.7 (54)
Michigan	146,262	11.0	6.7	661,617	7.1	3.0	3.0	279,849	16.2	13.7	452,003	21.2

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(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.

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WIC PNNS & PedNSS

Table 7B

2015 - 2017 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	86	*	80	*	65	*	58	*	71	*	253	85.4 (62)	489	3.9 (39)
Alger	75	*	74	*	49	*	59	*	68	*	200	87.5 (49)	375	8.0 (75)
Allegan	3,346	75.8 (35)	2,316	27.6 (30)	2,939	13.9 (34)	1,530	23.4 (25)	2,013	11.2 (36)	8,118	89.5 (32)	16,114	2.1 (9)
Alpena	457	59.1 (74)	352	27.8 (27)	414	11.8 (58)	322	23.9 (22)	331	16.6 (6)	1,090	93.9 (6)	2,167	2.4 (14)
Antrim	288	79.9 (15)	272	30.9 (16)	247	17.4 (15)	193	29.5 (7)	251	13.5 (19)	785	85.4 (62)	1,485	7.6 (74)
Arenac	269	69.5 (57)	246	24.4 (50)	245	9.8 (71)	192	19.3 (40)	223	9.4 (48)	737	89.0 (40)	1,403	9.0 (78)
Baraga	135	77.0 (33)	117	22.2 (60)	113	12.4 (52)	103	19.4 (39)	112	13.4 (20)	391	85.9 (58)	717	3.5 (32)
Barry	686	74.9 (39)	676	27.7 (29)	576	14.1 (33)	449	23.8 (23)	631	15.2 (11)	1,815	91.8 (16)	3,519	2.2 (11)
Bay	1,498	64.5 (67)	1,295	24.5 (49)	1,397	11.1 (63)	1,108	16.8 (55)	1,189	5.7 (73)	3,732	94.4 (5)	7,390	3.6 (34)
Benzie	242	80.6 (13)	193	29.0 (21)	182	21.4 (4)	142	26.1 (13)	178	12.9 (23)	516	88.0 (48)	1,113	6.5 (67)
Berrien	2,536	67.7 (59)	1,904	23.4 (55)	1,595	13.9 (34)	1,619	17.2 (54)	1,791	10.3 (42)	4,990	83.2 (71)	10,813	4.5 (47)
Branch	853	79.8 (17)	675	28.6 (23)	781	13.4 (42)	561	18.9 (45)	622	11.3 (34)	2,143	80.6 (78)	4,214	4.2 (43)
Calhoun	2,668	70.0 (55)	2,211	21.7 (64)	2,277	11.6 (59)	1,681	14.4 (64)	1,933	6.3 (70)	6,578	89.3 (38)	12,925	2.4 (14)

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WIC PNNS & PedNSS

Table 7B

2015 - 2017 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	997	77.5 (31)	855	29.7 (20)	912	17.2 (17)	736	22.3 (27)	775	15.5 (9)	2,820	96.1 (2)	5,215	1.3 (2)
Charlevoix	380	80.8 (12)	329	35.9 (6)	302	18.9 (11)	266	31.2 (3)	310	14.5 (14)	1,098	90.2 (25)	1,990	4.8 (53)
Cheboygan	358	75.1 (38)	299	28.1 (25)	280	11.4 (62)	211	20.4 (34)	269	11.2 (36)	708	84.2 (70)	1,496	6.4 (66)
Chippewa	599	66.9 (61)	582	32.0 (15)	472	19.5 (9)	438	30.4 (4)	543	18.6 (2)	1,529	94.7 (4)	3,022	13.0 (82)
Clare	573	63.0 (70)	489	23.3 (56)	547	12.4 (52)	410	19.0 (44)	467	10.5 (41)	1,454	92.6 (13)	2,817	7.1 (71)
Clinton	527	85.2 (2)	507	32.5 (14)	387	18.6 (13)	390	25.6 (16)	442	14.7 (13)	1,197	87.3 (51)	2,481	2.7 (21)
Crawford	227	81.5 (9)	194	30.4 (17)	196	9.7 (73)	153	24.2 (20)	180	13.3 (21)	450	85.1 (65)	965	4.1 (42)
Delta	631	73.7 (44)	575	22.1 (62)	620	10.3 (67)	476	19.3 (40)	547	10.6 (40)	1,564	89.5 (32)	3,073	2.9 (23)
Dickinson	386	73.6 (45)	355	32.7 (13)	312	18.9 (11)	268	30.2 (5)	331	16.9 (5)	1,020	92.8 (9)	1,939	1.3 (2)
Eaton	881	79.6 (18)	875	27.0 (39)	690	13.6 (38)	644	19.3 (40)	816	11.2 (36)	2,021	84.9 (67)	4,111	2.7 (21)
Emmet	468	82.5 (8)	426	43.9 (2)	372	26.1 (2)	300	37.3 (1)	379	23.0 (1)	1,231	90.8 (21)	2,353	4.0 (41)
Genesee	7,631	58.2 (77)	6,709	17.3 (74)	5,116	8.8 (76)	4,965	11.4 (68)	5,678	6.6 (69)	14,854	80.1 (79)	32,191	3.8 (38)
Gladwin	382	78.8 (23)	377	28.6 (23)	387	15.5 (23)	263	25.1 (17)	355	13.0 (22)	1,143	94.8 (3)	2,086	8.1 (76)
Gogebic	221	66.1 (63)	175	27.4 (31)	158	15.2 (27)	155	21.9 (31)	167	12.6 (26)	543	88.4 (44)	1,076	3.7 (36)

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WIC PNNS & PedNSS

Table 7B

2015 - 2017 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	1,259	85.2 (2)	872	38.4 (4)	977	21.2 (6)	606	33.0 (2)	796	12.9 (23)	2,461	89.4 (36)	5,204	2.4 (14)
Gratiot	623	80.9 (11)	571	34.3 (9)	461	19.5 (9)	453	26.9 (12)	528	14.2 (16)	1,617	90.0 (28)	3,158	3.4 (31)
Hillsdale	770	77.0 (33)	676	21.7 (64)	550	12.0 (57)	539	21.5 (33)	633	12.2 (29)	1,825	87.0 (53)	3,666	5.3 (61)
Houghton	493	84.0 (6)	413	42.6 (3)	376	22.6 (3)	306	28.1 (9)	379	17.4 (4)	1,169	90.4 (24)	2,283	2.0 (7)
Huron	463	70.6 (54)	387	28.7 (22)	336	14.3 (32)	322	15.8 (59)	366	6.0 (71)	1,009	88.3 (45)	2,110	4.4 (45)
Ingham	4,629	77.1 (32)	3,683	29.9 (18)	3,157	17.3 (16)	2,630	18.5 (47)	3,255	9.3 (50)	9,588	88.7 (42)	19,948	3.3 (28)
Ionia	1,020	79.9 (15)	970	25.4 (46)	956	13.2 (46)	721	19.8 (38)	912	9.5 (47)	2,360	86.7 (54)	4,783	4.5 (47)
Iosco	437	58.4 (76)	387	18.9 (71)	345	9.9 (70)	330	15.5 (60)	361	11.1 (39)	933	89.0 (40)	1,956	5.2 (60)
Iron	163	79.1 (20)	139	33.8 (10)	135	17.8 (14)	113	29.2 (8)	122	9.0 (52)	444	88.1 (47)	845	4.4 (45)
Isabella	919	74.2 (41)	772	26.4 (42)	771	12.7 (50)	636	21.7 (32)	717	11.9 (31)	2,019	90.7 (22)	4,201	3.5 (32)
Jackson	2,733	70.9 (53)	2,895	22.6 (58)	2,395	10.2 (68)	1,892	16.6 (56)	2,627	7.1 (65)	6,769	81.0 (77)	13,230	5.1 (58)
Kalamazoo	3,984	67.2 (60)	3,349	21.6 (66)	2,831	12.4 (52)	2,717	17.5 (50)	3,140	8.4 (57)	9,275	78.0 (80)	18,639	3.3 (28)
Kalkaska	257	84.4 (5)	232	37.1 (5)	219	16.9 (18)	178	22.5 (26)	212	16.5 (7)	608	85.0 (66)	1,186	7.1 (71)
Kent	10,183	73.9 (42)	9,902	23.8 (53)	7,991	13.3 (45)	7,404	15.3 (61)	8,986	9.0 (52)	24,820	88.2 (46)	49,330	2.0 (7)

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WIC PNNS & PedNSS

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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	177	72.9 (48)	134	18.7 (73)	154	11.0 (65)	122	10.7 (70)	128	7.0 (66)	430	81.9 (74)	840	9.4 (79)
Lapeer	1,139	72.4 (51)	1,042	27.8 (27)	1,089	14.7 (29)	861	18.7 (46)	1,006	9.0 (52)	2,906	90.6 (23)	5,788	1.3 (2)
Leelanau	140	92.1 (1)	122	46.7 (1)	101	29.7 (1)	94	*	107	12.1 (30)	330	83.0 (72)	674	2.1 (9)
Lenawee	1,426	74.9 (39)	1,246	25.0 (48)	1,076	12.9 (48)	972	20.1 (37)	1,160	9.7 (45)	2,831	88.5 (43)	6,152	2.4 (14)
Livingston	1,028	79.6 (18)	973	27.3 (33)	889	14.7 (29)	747	22.0 (29)	908	12.4 (27)	2,489	93.3 (8)	5,009	1.7 (6)
Luce	107	77.6 (30)	108	26.9 (40)	114	14.9 (28)	80	*	103	6.8 (68)	312	89.7 (30)	571	4.2 (43)
Mackinac	110	78.2 (27)	76	*	104	13.5 (41)	40	*	72	*	297	77.1 (81)	568	5.1 (58)
Macomb	9,298	59.7 (72)	7,655	18.8 (72)	7,036	9.2 (75)	6,160	11.4 (68)	6,824	5.8 (72)	18,019	81.6 (76)	39,399	2.2 (11)
Manistee	332	78.6 (24)	230	33.0 (12)	253	16.6 (19)	173	27.2 (11)	216	14.4 (15)	696	90.9 (20)	1,412	3.6 (34)
Marquette	717	78.9 (22)	509	35.8 (7)	665	21.4 (4)	334	29.9 (6)	468	15.0 (12)	1,672	90.1 (27)	3,363	3.2 (26)
Mason	452	75.7 (37)	378	27.2 (34)	420	15.5 (23)	312	24.0 (21)	359	12.8 (25)	1,106	89.9 (29)	2,146	3.9 (39)
Mecosta	672	73.8 (43)	560	28.0 (26)	585	13.8 (36)	457	26.0 (14)	524	15.6 (8)	1,606	91.3 (18)	3,192	4.7 (51)
Menominee	281	65.5 (65)	230	22.2 (60)	236	14.4 (31)	193	20.2 (35)	222	11.3 (34)	625	93.8 (7)	1,262	4.9 (55)
Midland	1,142	75.8 (35)	1,052	29.9 (18)	774	15.9 (21)	950	25.9 (15)	974	14.0 (18)	2,392	92.6 (13)	4,928	3.0 (24)

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Missaukee	195	84.6 (4)	168	27.4 (31)	203	16.3 (20)	127	22.0 (29)	162	9.3 (50)	558	85.5 (61)	1,039	7.0 (70)
Monroe	1,794	61.0 (71)	1,524	19.4 (69)	1,454	11.0 (65)	1,294	15.2 (62)	1,449	7.9 (61)	3,997	89.6 (31)	8,127	5.0 (57)
Montcalm	923	83.4 (7)	811	27.1 (37)	697	13.6 (38)	610	23.8 (23)	739	10.0 (44)	2,172	84.3 (69)	4,424	5.9 (63)
Montmorenc	117	69.2 (58)	77	*	90	*	71	*	69	*	262	87.4 (50)	521	10.9 (81)
Muskegon	3,918	64.8 (66)	2,847	20.3 (68)	3,054	9.4 (74)	2,610	14.3 (65)	2,564	7.0 (66)	8,530	82.8 (73)	17,484	5.7 (62)
Newaygo	916	73.1 (47)	730	26.2 (43)	850	15.4 (26)	584	24.3 (19)	672	15.3 (10)	2,606	91.6 (17)	4,775	3.2 (26)
Oakland	10,022	66.2 (62)	9,013	22.3 (59)	6,507	11.1 (63)	7,300	13.7 (66)	8,462	8.7 (56)	21,056	85.3 (64)	45,064	2.5 (18)
Oceana	511	78.3 (26)	463	27.2 (34)	492	13.8 (36)	373	17.4 (51)	437	8.2 (59)	1,464	85.7 (60)	2,728	3.1 (25)
Ogemaw	363	65.6 (64)	324	21.3 (67)	322	12.1 (56)	255	16.1 (57)	298	7.7 (62)	958	89.4 (36)	1,835	7.2 (73)
Ontonagon	51	*	33	*	48	*	31	*	31	*	106	92.5 (15)	231	2.6 (19)
Osceola	336	78.6 (24)	298	26.8 (41)	280	12.9 (48)	253	24.9 (18)	281	11.7 (33)	917	89.1 (39)	1,688	6.1 (65)
Oscoda	136	77.9 (29)	140	24.3 (51)	123	13.0 (47)	89	*	124	8.9 (55)	349	86.2 (56)	692	10.0 (80)
Otsego	492	72.6 (49)	406	25.1 (47)	380	12.6 (51)	329	19.1 (43)	380	12.4 (27)	1,070	89.5 (32)	2,234	4.8 (53)
Ottawa	1,151	79.1 (20)	869	33.5 (11)	1,105	21.1 (7)	707	28.0 (10)	761	18.1 (3)	2,932	91.3 (18)	5,814	2.2 (11)

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(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.

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

(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

2015 - 2017 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	56.6 (78)	98	*	103	15.5 (23)	78	*	93	*	328	92.7 (11)	580	8.3 (77)
Roscommon	315	72.1 (52)	330	23.9 (52)	302	13.6 (38)	217	16.1 (57)	308	9.4 (48)	785	86.1 (57)	1,541	6.9 (68)
Saginaw	3,859	58.6 (75)	3,159	15.1 (76)	2,634	6.3 (78)	2,514	7.9 (71)	2,875	4.3 (75)	8,252	84.8 (68)	16,901	3.7 (36)
Sanilac	560	64.3 (68)	526	22.1 (62)	387	9.8 (71)	392	17.3 (52)	490	9.6 (46)	1,249	90.2 (25)	2,580	4.7 (51)
Schoolcraf	148	59.5 (73)	121	19.0 (70)	112	11.6 (59)	98	*	118	11.9 (31)	318	81.8 (75)	653	6.9 (68)
Shiawassee	1,065	72.6 (49)	1,061	26.0 (45)	950	11.5 (61)	725	13.1 (67)	934	7.2 (64)	2,564	92.8 (9)	5,256	3.3 (28)
St Clair	2,018	63.8 (69)	1,971	23.3 (56)	1,819	10.2 (68)	1,413	17.3 (52)	1,831	8.1 (60)	4,685	86.3 (55)	9,437	5.9 (63)
St Joseph	1,244	80.3 (14)	1,086	26.2 (43)	951	13.4 (42)	815	18.2 (49)	938	8.3 (58)	3,057	85.8 (59)	6,034	2.6 (19)
Tuscola	831	73.6 (45)	774	27.1 (37)	726	12.3 (55)	560	14.5 (63)	712	4.5 (74)	2,207	92.7 (11)	4,215	4.5 (47)
Van Buren	1,362	70.0 (55)	1,209	27.2 (34)	1,213	13.4 (42)	1,022	20.2 (35)	1,128	10.3 (42)	3,695	96.2 (1)	6,972	1.2 (1)
Washtenaw	3,090	81.0 (10)	2,779	35.0 (8)	2,468	21.1 (7)	2,154	22.1 (28)	2,558	14.2 (16)	7,213	89.5 (32)	14,433	1.6 (5)
Wayne	39,884	52.1 (79)	32,278	15.8 (75)	25,714	7.3 (77)	27,312	6.4 (72)	30,164	3.9 (76)	82,102	76.1 (82)	173,224	4.9 (55)
Wexford	767	78.0 (28)	580	23.8 (53)	703	15.9 (21)	401	18.5 (47)	564	7.3 (63)	1,912	87.3 (51)	3,744	4.5 (47)

(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.

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

(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

2015 - 2017 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	148,613	65.1	126,420	22.1	110,334	11.6	100,403	14.3	115,939	7.9	329,000	84.1	675,781	3.8
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(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.

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

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

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