

WIC PNSS & PedNSS

Table 4B

2020 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 %
Alcona	149	87.2	0.0	4.7	0.0	0.0	8.1	0.0
Alger	135	83.7	0.7	2.2	3.7	0.0	9.6	0.0
Allegan	1,855	68.5	1.4	21.3	0.1	0.1	8.7	0.0
Alpena	630	88.7	0.2	4.4	0.0	0.2	6.5	0.0
Antrim	342	88.3	0.6	2.9	0.6	0.0	7.6	0.0
Arenac	426	94.8	0.0	2.6	0.0	0.0	2.6	0.0
Baraga	169	47.3	0.6	1.2	30.2	0.0	20.7	0.0
Barry	888	90.5	0.6	5.7	0.0	0.2	2.8	0.1
Bay	2,060	66.4	1.6	16.8	0.1	0.2	14.9	0.1
Benzie	336	85.1	0.9	4.5	0.3	0.0	9.2	0.0
Berrien	2,807	47.1	35.1	9.0	0.3	0.9	7.5	0.1
Branch	1,205	81.3	0.4	12.9	0.0	0.2	5.2	0.0
Calhoun	3,359	53.3	17.4	9.6	0.0	5.7	13.9	0.1
Cass	1,187	51.9	6.7	28.0	0.4	0.1	12.9	0.1
Charlevoix	495	86.9	0.6	4.6	0.2	0.0	7.7	0.0
Cheboygan	433	82.4	0.9	3.0	0.2	0.0	13.4	0.0
Chippewa	758	38.9	0.4	5.7	22.4	0.4	32.2	0.0
Clare	831	90.3	0.0	4.7	0.4	0.0	4.7	0.0
Clinton	590	76.9	0.5	14.9	0.0	0.0	7.6	0.0
Crawford	343	89.8	0.0	5.8	0.0	0.0	4.4	0.0
Delta	777	75.8	0.1	4.4	1.5	0.0	18.1	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.

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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 %
Dickinson	569	95.6	0.0	1.4	0.0	0.0	3.0	0.0
Eaton	995	76.9	3.3	10.7	0.0	0.9	8.2	0.0
Emmet	594	85.5	0.5	2.9	1.7	0.2	9.3	0.0
Genesee	9,447	40.7	39.5	7.3	0.0	0.2	12.3	0.0
Gladwin	660	94.4	0.2	2.6	0.0	0.0	2.7	0.2
Gogebic	234	82.9	0.4	3.4	4.7	0.0	8.1	0.4
Gr Travers	1,444	76.7	0.6	11.9	0.8	0.3	9.6	0.1
Gratiot	844	75.0	0.0	19.2	0.1	0.0	5.7	0.0
Hillsdale	877	88.5	0.3	6.3	0.0	0.1	4.6	0.2
Houghton	738	88.3	1.9	2.3	0.9	0.7	5.8	0.0
Huron	617	88.2	0.3	7.3	0.0	0.0	4.2	0.0
Ingham	6,429	31.5	25.9	21.7	0.1	4.6	16.1	0.1
Ionia	1,250	79.0	0.0	14.3	0.0	0.0	6.7	0.0
Iosco	566	86.4	0.0	5.8	0.4	0.0	7.4	0.0
Iron	264	95.5	0.0	0.8	0.0	0.0	3.4	0.4
Isabella	1,353	74.5	2.1	8.3	3.0	0.6	11.3	0.2
Jackson	4,112	59.3	13.1	8.7	0.1	0.2	18.7	0.0
Kalamazoo	4,889	38.1	34.6	12.1	0.1	0.6	13.7	0.9
Kalkaska	389	86.6	0.5	4.4	0.0	0.3	8.2	0.0
Kent	12,660	25.4	26.3	33.5	0.2	4.8	9.7	0.0
Lake	214	62.1	8.4	7.9	0.0	0.0	21.5	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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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	1,554	75.5	0.8	16.3	0.1	0.5	6.6	0.1
Leelanau	180	52.8	0.0	31.7	8.3	0.0	7.2	0.0
Lenawee	1,550	64.0	1.7	24.1	0.1	0.1	10.0	0.1
Livingston	1,543	86.8	1.6	4.5	0.1	0.5	6.5	0.0
Luce	147	76.2	0.7	5.4	2.7	0.0	15.0	0.0
Mackinac	177	32.2	0.0	2.8	0.0	0.0	63.8	1.1
Macomb	12,189	50.9	26.4	5.0	0.1	7.1	10.3	0.1
Manistee	395	76.5	0.5	9.4	1.5	0.0	12.2	0.0
Marquette	1,004	80.2	1.2	4.5	1.1	0.4	12.6	0.0
Mason	556	75.7	0.4	12.6	0.2	0.4	10.8	0.0
Mecosta	953	81.1	3.6	5.7	0.1	0.4	9.0	0.1
Menominee	247	64.0	0.0	10.1	8.9	0.0	17.0	0.0
Midland	1,224	84.6	1.1	5.5	0.2	0.2	8.3	0.0
Missaukee	298	84.6	0.0	10.7	0.0	0.0	4.7	0.0
Monroe	2,429	69.9	6.4	8.9	0.0	0.1	14.3	0.4
Montcalm	1,317	87.5	0.1	8.7	0.0	0.0	3.6	0.0
Montmorenc	185	93.0	0.0	1.1	0.5	0.0	5.4	0.0
Muskegon	4,512	45.2	27.9	12.9	0.2	0.2	13.6	0.0
Newaygo	1,532	70.9	0.5	22.7	0.0	0.1	5.7	0.2
Oakland	13,048	38.9	37.8	12.2	0.0	2.0	9.0	0.1
Oceana	698	52.9	0.9	42.8	0.0	0.0	3.4	0.0

(1) Reporting period is January 1 through December 31

(2) Analyses based on one record per child

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(4) Prenatal program participation

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Children Aged < 5 Years ⁽²⁾

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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	503	85.1	0.0	7.2	0.0	0.0	7.8	0.0
Ontonagon	78	*	*	*	*	*	*	*
Osceola	587	89.3	0.3	5.5	0.0	0.0	4.6	0.3
Oscoda	165	92.7	0.0	3.6	0.0	0.0	3.6	0.0
Otsego	599	94.0	0.5	2.5	0.3	0.0	2.7	0.0
Ottawa	4,170	50.5	3.8	35.7	0.1	1.3	8.5	0.1
Presque Is	147	87.8	0.7	5.4	0.0	0.0	6.1	0.0
Roscommon	411	88.3	0.0	3.4	0.0	0.0	8.0	0.2
Saginaw	5,060	28.1	40.1	21.6	0.0	0.3	9.8	0.1
Sanilac	698	90.3	0.1	5.9	0.0	0.0	3.7	0.0
Schoolcraf	157	68.8	1.3	3.8	10.2	0.0	14.6	1.3
Shiawassee	1,403	80.8	0.6	9.8	0.0	0.1	8.6	0.1
St Clair	2,539	69.1	5.4	10.1	0.1	0.1	15.0	0.0
St Joseph	1,975	62.6	1.0	24.2	0.1	0.0	12.1	0.2
Tuscola	1,198	86.4	0.5	8.1	0.0	0.0	4.9	0.1
Van Buren	1,821	57.4	3.1	32.8	0.2	0.0	6.4	0.0
Washtenaw	4,076	31.7	39.2	11.7	0.0	1.8	15.4	0.1
Wayne	52,159	26.5	55.6	10.4	0.1	2.8	4.5	0.0
Wexford	1,024	89.3	0.0	4.6	0.0	0.1	5.9	0.2
Michigan	193,486	46.6	28.7	13.2	0.3	2.1	9.0	0.1

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2020 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Racial and Ethnic Distribution by County

Children Aged < 5 Years ⁽²⁾

National (Prior Year)	712,311	37.6	23.5	23.2	1.4	2.6	6.5	5.1
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(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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Table 5B

2020 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	149	29.5	20.8	49.7
Alger	135	29.6	21.5	48.9
Allegan	1,855	24.2	25.6	50.3
Alpena	630	27.6	23.3	49.0
Antrim	342	27.2	24.9	48.0
Arenac	426	27.5	23.9	48.6
Baraga	169	35.5	19.5	45.0
Barry	888	29.3	22.2	48.5
Bay	2,060	24.8	27.4	47.8
Benzie	336	33.9	17.3	48.8
Berrien	2,807	36.9	18.6	44.5
Branch	1,205	30.2	26.1	43.7
Calhoun	3,359	28.7	22.7	48.6
Cass	1,187	26.6	21.8	51.6
Charlevoix	495	30.3	22.6	47.1
Cheboygan	433	31.9	22.6	45.5
Chippewa	758	27.7	22.3	50.0
Clare	831	24.9	25.3	49.8
Clinton	590	28.5	22.7	48.8
Crawford	343	29.7	21.9	48.4
Delta	777	30.4	25.5	44.1

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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
		%	%	%
Dickinson	569	26.5	22.5	51.0
Eaton	995	28.7	21.5	49.7
Emmet	594	28.8	21.0	50.2
Genesee	9,447	32.6	20.3	47.1
Gladwin	660	23.9	20.9	55.2
Gogebic	234	28.6	26.9	44.4
Gr Travers	1,444	30.8	22.4	46.8
Gratiot	844	33.1	19.3	47.6
Hillsdale	877	34.7	18.9	46.4
Houghton	738	26.6	23.0	50.4
Huron	617	31.8	22.9	45.4
Ingham	6,429	31.6	21.6	46.8
Ionia	1,250	27.9	23.9	48.2
Iosco	566	32.5	21.6	45.9
Iron	264	27.7	21.2	51.1
Isabella	1,353	29.3	23.8	46.9
Jackson	4,112	27.7	22.4	49.9
Kalamazoo	4,889	31.0	22.2	46.9
Kalkaska	389	28.5	23.4	48.1
Kent	12,660	30.7	21.4	47.9
Lake	214	26.2	25.7	48.1

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Comparison of Age Distribution				
County	Number Included in Analysis (3,4)	0 - 11 Months %	12 - 23 Months %	24 - 59 Months %
Lapeer	1,554	26.5	25.4	48.1
Leelanau	180	28.3	18.3	53.3
Lenawee	1,550	34.3	20.3	45.5
Livingston	1,543	29.1	22.2	48.7
Luce	147	25.9	27.2	46.9
Mackinac	177	19.2	20.9	59.9
Macomb	12,189	31.0	23.8	45.2
Manistee	395	24.1	23.8	52.2
Marquette	1,004	25.8	25.5	48.7
Mason	556	27.2	21.8	51.1
Mecosta	953	28.8	24.8	46.5
Menominee	247	32.0	26.3	41.7
Midland	1,224	35.0	20.3	44.8
Missaukee	298	25.8	21.8	52.3
Monroe	2,429	34.3	21.8	43.9
Montcalm	1,317	32.7	20.3	47.0
Montmorenc	185	29.7	27.0	43.2
Muskegon	4,512	29.9	23.4	46.7
Newaygo	1,532	25.5	24.5	49.9
Oakland	13,048	34.3	19.2	46.5
Oceana	698	24.2	20.6	55.2

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2020 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 %
Ogemaw	503	27.8	20.3	51.9
Ontonagon	78	*	*	*
Osceola	587	27.6	22.3	50.1
Oscoda	165	29.1	21.2	49.7
Otsego	599	36.4	17.2	46.4
Ottawa	4,170	26.6	24.1	49.3
Presque Is	147	32.0	18.4	49.7
Roscommon	411	29.0	23.8	47.2
Saginaw	5,060	32.2	19.2	48.5
Sanilac	698	31.2	21.8	47.0
Schoolcraf	157	33.8	21.0	45.2
Shiawassee	1,403	25.9	24.8	49.3
St Clair	2,539	28.7	26.0	45.4
St Joseph	1,975	27.2	21.8	51.0
Tuscola	1,198	28.3	21.3	50.4
Van Buren	1,821	27.0	22.7	50.3
Washtenaw	4,076	30.1	21.5	48.5
Wayne	52,159	33.3	20.5	46.2
Wexford	1,024	27.9	23.3	48.7
Michigan	193,486	31.2	21.6	47.2

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Michigan

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Children Aged < 5 Years ⁽²⁾

National (Prior Year)	712,311	35.1	21.8	43.1
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WIC PNSS & PedNSS

Table 6B

2020 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	*	*	59	*	*	*	32	*	*	34	*
Alger	25	*	*	59	*	*	*	25	*	*	26	*
Allegan	355	11.0 (40)	6.2 (17)	1,227	6.5 (16)	4.2 (31)	10.3 (34)	518	15.6 (20)	14.3 (23)	614	16.6 (36)
Alpena	142	4.9 (2)	9.2 (47)	305	8.2 (37)	5.2 (43)	6.6 (1)	112	15.2 (18)	10.7 (4)	86	*
Antrim	70	*	*	195	8.7 (44)	8.7 (66)	8.7 (5)	74	*	*	63	*
Arenac	92	*	*	199	12.1 (66)	3.0 (15)	12.1 (52)	77	*	*	80	*
Baraga	49	*	*	58	*	*	*	24	*	*	25	*
Barry	194	11.9 (44)	6.7 (21)	578	6.1 (11)	4.5 (35)	8.7 (5)	214	14.5 (12)	16.8 (44)	176	4.5 (6)
Bay	459	12.4 (48)	9.2 (47)	872	8.1 (34)	1.6 (4)	11.5 (49)	381	18.9 (45)	14.2 (21)	408	9.6 (18)
Benzie	59	*	*	130	7.7 (30)	6.9 (59)	11.5 (49)	41	*	*	51	*
Berrien	699	8.9 (19)	4.7 (3)	1,834	7.4 (27)	4.9 (39)	9.8 (22)	722	16.9 (32)	12.5 (9)	870	7.1 (14)
Branch	315	9.2 (20)	7.9 (34)	579	10.9 (64)	6.9 (59)	9.0 (10)	182	13.7 (6)	8.2 (1)	166	19.9 (41)
Calhoun	815	12.0 (46)	6.9 (22)	1,863	7.4 (27)	7.5 (64)	10.3 (34)	574	16.0 (25)	16.0 (36)	557	17.2 (39)

(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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WIC PNSS & PedNSS

Table 6B

2020 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	264	7.2 (10)	10.2 (51)	807	4.5 (4)	4.2 (31)	11.3 (45)	329	13.7 (6)	16.4 (40)	373	15.0 (33)
Charlevoix	97	*	*	279	10.4 (59)	1.8 (5)	12.9 (59)	116	19.0 (46)	19.8 (50)	95	*
Cheboygan	99	*	*	200	3.0 (1)	5.5 (50)	15.0 (63)	76	*	*	67	*
Chippewa	153	7.2 (10)	14.4 (57)	320	10.0 (56)	5.3 (46)	18.1 (68)	155	14.8 (16)	19.4 (48)	83	*
Clare	162	4.9 (2)	7.4 (27)	417	8.6 (42)	5.3 (46)	9.8 (22)	172	20.3 (49)	14.5 (24)	154	6.5 (13)
Clinton	109	12.8 (50)	11.9 (55)	311	10.6 (60)	5.8 (51)	15.1 (64)	122	17.2 (33)	18.0 (46)	109	0.0 (1)
Crawford	74	*	*	124	6.5 (16)	0.0 (1)	14.5 (61)	56	*	*	51	*
Delta	191	7.3 (13)	7.3 (26)	404	15.1 (68)	1.0 (3)	15.6 (66)	143	17.5 (39)	21.0 (51)	154	13.0 (26)
Dickinson	113	9.7 (27)	6.2 (17)	236	8.1 (34)	4.7 (38)	12.3 (55)	98	*	*	103	12.6 (25)
Eaton	206	10.7 (35)	7.8 (33)	593	6.9 (22)	4.4 (34)	11.5 (49)	219	14.6 (13)	17.8 (45)	141	6.4 (12)
Emmet	121	8.3 (15)	5.8 (12)	351	8.5 (39)	5.4 (49)	9.7 (21)	137	16.1 (27)	15.3 (29)	103	5.8 (9)
Genesee	2,235	13.3 (53)	4.3 (1)	3,592	9.3 (50)	2.8 (13)	11.2 (43)	1,459	14.6 (13)	12.5 (9)	1,549	19.2 (40)
Gladwin	133	10.5 (34)	8.3 (40)	325	11.1 (65)	3.7 (20)	11.4 (47)	134	18.7 (44)	14.2 (21)	115	10.4 (20)
Gogebic	44	*	*	90	*	*	*	43	*	*	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 PNSS & PedNSS

Table 6B

2020 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	335	10.1 (30)	8.7 (42)	741	3.5 (3)	8.0 (65)	7.7 (2)	265	20.8 (51)	10.2 (3)	250	22.0 (44)
Gratiot	186	6.5 (8)	7.0 (23)	460	6.7 (20)	5.0 (41)	12.8 (57)	167	14.4 (11)	22.8 (54)	158	0.6 (2)
Hillsdale	201	10.4 (32)	8.0 (37)	331	7.3 (26)	0.6 (2)	10.3 (34)	148	14.9 (17)	16.2 (38)	142	14.8 (32)
Houghton	160	8.8 (17)	9.4 (49)	240	10.0 (56)	2.5 (10)	10.0 (28)	125	17.6 (40)	8.8 (2)	139	3.6 (4)
Huron	142	11.3 (41)	8.5 (41)	243	10.7 (61)	4.1 (28)	9.1 (13)	79	*	*	87	*
Ingham	1,484	10.7 (35)	5.7 (11)	3,075	7.8 (31)	7.0 (61)	9.2 (15)	1,005	16.3 (30)	15.3 (29)	942	10.8 (21)
Ionia	285	6.3 (7)	10.2 (51)	710	5.1 (7)	7.2 (63)	8.7 (5)	239	19.2 (47)	13.4 (13)	253	4.0 (5)
Iosco	132	8.3 (15)	7.6 (29)	224	10.3 (58)	3.1 (16)	9.4 (17)	90	*	*	86	*
Iron	54	*	*	99	*	*	*	42	*	*	49	*
Isabella	293	10.9 (39)	10.2 (51)	690	7.2 (25)	4.5 (35)	11.3 (45)	253	13.8 (8)	19.0 (47)	220	5.9 (10)
Jackson	886	9.7 (27)	8.8 (44)	2,103	5.2 (8)	13.7 (68)	8.9 (9)	665	17.7 (41)	16.5 (41)	579	17.1 (38)
Kalamazoo	1,060	10.8 (38)	5.9 (13)	2,445	6.1 (11)	6.4 (57)	8.5 (3)	751	17.4 (37)	14.0 (19)	906	23.4 (46)
Kalkaska	90	*	*	167	9.0 (47)	1.8 (5)	10.2 (31)	74	*	*	83	*
Kent	2,755	14.0 (57)	5.4 (10)	5,896	10.7 (61)	3.4 (18)	11.4 (47)	2,434	15.7 (21)	13.6 (14)	2,357	14.0 (31)

(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 PNSS & PedNSS

Table 6B

2020 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	50	*	*	99	*	*	*	43	*	*	34	*
Lapeer	312	11.5 (42)	8.7 (42)	712	5.8 (9)	4.9 (39)	8.8 (8)	243	15.2 (18)	13.6 (14)	285	16.8 (37)
Leelanau	37	*	*	95	*	*	*	38	*	*	33	*
Lenawee	394	6.1 (6)	8.1 (39)	544	9.4 (52)	2.6 (11)	9.4 (17)	231	12.1 (1)	13.0 (12)	260	31.5 (49)
Livingston	312	12.2 (47)	6.1 (16)	530	8.1 (34)	2.6 (11)	8.5 (3)	260	13.5 (4)	11.5 (6)	283	4.6 (7)
Luce	33	*	*	73	*	*	*	24	*	*	30	*
Mackinac	28	*	*	80	*	*	*	44	*	*	43	*
Macomb	2,929	11.9 (44)	5.2 (8)	5,201	7.9 (33)	5.2 (43)	10.2 (31)	1,862	14.7 (15)	12.7 (11)	1,660	11.3 (22)
Manistee	77	*	*	157	6.4 (14)	7.0 (61)	9.6 (20)	71	*	*	71	*
Marquette	208	4.8 (1)	7.2 (24)	600	9.2 (49)	3.5 (19)	12.2 (53)	220	20.5 (50)	15.9 (35)	126	6.3 (11)
Mason	122	10.7 (35)	4.9 (6)	245	8.2 (37)	4.5 (35)	9.0 (10)	103	12.6 (2)	13.6 (14)	83	*
Mecosta	207	7.2 (10)	6.3 (19)	476	7.4 (27)	3.8 (22)	10.9 (41)	188	13.8 (8)	11.2 (5)	171	5.3 (8)
Menominee	61	*	*	129	4.7 (5)	3.1 (16)	17.1 (67)	53	*	*	60	*
Midland	261	9.2 (20)	10.3 (54)	685	9.9 (55)	2.9 (14)	10.7 (39)	245	19.2 (47)	14.7 (26)	224	13.8 (30)

(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 PNSS & PedNSS

Table 6B

2020 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	54	*	*	107	6.5 (16)	1.9 (7)	9.3 (16)	51	*	*	57	*
Monroe	587	9.4 (23)	6.6 (20)	1,026	9.6 (54)	4.1 (28)	9.9 (26)	352	16.5 (31)	14.8 (27)	377	15.4 (35)
Montcalm	299	9.4 (23)	6.0 (14)	674	8.6 (42)	4.0 (25)	10.1 (30)	246	13.0 (3)	15.4 (31)	238	1.3 (3)
Montmorenc	43	*	*	76	*	*	*	23	*	*	28	*
Muskegon	1,128	12.6 (49)	4.9 (6)	2,204	8.5 (39)	4.0 (25)	12.8 (57)	740	17.2 (33)	15.1 (28)	749	15.2 (34)
Newaygo	329	7.3 (13)	7.6 (29)	757	9.5 (53)	3.8 (22)	10.7 (39)	293	15.7 (21)	15.7 (34)	244	8.2 (15)
Oakland	2,929	13.0 (51)	5.2 (8)	6,063	9.1 (48)	5.2 (43)	9.8 (22)	2,256	15.7 (21)	11.5 (6)	2,172	25.2 (47)
Oceana	136	8.8 (17)	7.4 (27)	294	8.5 (39)	4.1 (28)	14.6 (62)	128	17.2 (33)	21.9 (53)	114	20.2 (43)
Ogemaw	104	6.7 (9)	13.5 (56)	191	6.3 (13)	3.7 (20)	10.5 (38)	87	*	*	93	*
Ontonagon	12	*	*	23	*	*	*	10	*	*	14	*
Osceola	130	11.5 (42)	7.7 (32)	262	10.7 (61)	5.3 (46)	9.9 (26)	109	17.4 (37)	16.5 (41)	86	*
Oscoda	33	*	*	68	*	*	*	33	*	*	36	*
Otsego	132	13.6 (54)	7.6 (29)	338	6.5 (16)	12.4 (67)	10.9 (41)	122	25.4 (54)	19.7 (49)	85	*
Ottawa	786	9.8 (29)	7.9 (34)	2,359	5.0 (6)	3.9 (24)	10.0 (28)	1,003	16.2 (29)	14.0 (19)	1,190	28.9 (48)

(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 PNSS & PedNSS

Table 6B

2020 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	41	*	*	59	*	*	*	23	*	*	23	*
Roscommon	84	*	*	175	3.4 (2)	4.0 (25)	13.1 (60)	70	*	*	63	*
Saginaw	1,075	13.0 (51)	4.8 (5)	2,438	6.0 (10)	6.2 (56)	9.1 (13)	730	16.0 (25)	13.8 (17)	800	13.1 (27)
Sanilac	154	5.8 (4)	9.1 (46)	257	12.1 (66)	2.3 (9)	15.2 (65)	104	13.5 (4)	21.2 (52)	114	13.2 (28)
Schoolcraf	41	*	*	80	*	*	*	20	*	*	18	*
Shiawassee	303	10.2 (31)	8.9 (45)	636	6.4 (14)	5.8 (51)	9.0 (10)	240	21.7 (52)	16.3 (39)	262	9.2 (17)
St Clair	617	10.4 (32)	6.0 (14)	1,375	7.1 (24)	6.8 (58)	9.5 (19)	415	17.8 (43)	15.4 (31)	490	12.0 (23)
St Joseph	365	6.0 (5)	7.9 (34)	832	9.3 (50)	5.8 (51)	11.2 (43)	336	17.3 (36)	14.6 (25)	289	13.5 (29)
Tuscola	249	9.2 (20)	7.2 (24)	704	7.8 (31)	6.1 (55)	10.4 (37)	282	17.7 (41)	15.6 (33)	225	12.4 (24)
Van Buren	386	9.6 (25)	8.0 (37)	1,247	6.7 (20)	4.3 (33)	12.2 (53)	498	15.9 (24)	16.5 (41)	538	8.7 (16)
Washtenaw	923	13.9 (56)	4.3 (1)	1,637	7.0 (23)	5.0 (41)	9.8 (22)	691	16.1 (27)	12.0 (8)	652	22.4 (45)
Wayne	12,185	13.8 (55)	4.7 (3)	21,604	8.7 (44)	5.9 (54)	10.2 (31)	7,993	14.3 (10)	13.9 (18)	8,137	20.0 (42)
Wexford	229	9.6 (25)	10.0 (50)	378	8.7 (44)	1.9 (7)	12.7 (56)	168	22.6 (53)	16.1 (37)	176	10.2 (19)

(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 PNSS & PedNSS

Table 6B

2020 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Growth and Anemia Indicators by County

Children Aged < 5 Years ⁽²⁾

Michigan	43,761	11.8	6.0	88,932	8.1	5.3	10.3	33,223	15.8	14.1	33,184	16.4
National (Prior Year)	159,266	11.0	6.0	649,753	7.7	2.9	11.2	283,555	16.1	13.8	433,852	14.5

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

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) 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 PNSS & PedNSS

Table 7B

2020 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	*	15	*	21	*	14	*	14	*	76	*	149	2.0 (30)
Alger	25	*	23	*	21	*	19	*	23	*	70	*	135	1.5 (21)
Allegan	364	68.7 (40)	245	30.2 (23)	356	17.4 (20)	153	22.2 (14)	221	12.7 (11)	955	91.8 (8)	1,847	1.2 (13)
Alpena	142	70.4 (33)	88	*	107	6.5 (51)	57	*	72	*	325	88.6 (26)	628	2.9 (52)
Antrim	71	*	41	*	59	*	22	*	35	*	166	86.7 (33)	340	6.5 (79)
Arenac	92	*	58	*	75	*	39	*	51	*	212	90.6 (11)	426	3.8 (63)
Baraga	50	*	24	*	23	*	21	*	24	*	78	*	167	2.4 (40)
Barry	199	77.9 (15)	100	39.0 (6)	135	20.7 (9)	65	*	90	*	438	90.4 (14)	885	1.5 (21)
Bay	464	65.5 (44)	239	29.3 (30)	392	14.8 (30)	131	25.2 (9)	224	7.6 (28)	1,023	88.6 (26)	2,060	1.9 (28)
Benzie	59	*	67	*	52	*	41	*	62	*	166	75.9 (64)	336	5.1 (73)
Berrien	702	70.2 (34)	444	34.9 (12)	377	15.9 (24)	304	20.1 (18)	380	10.5 (20)	1,244	74.9 (68)	2,772	4.0 (67)
Branch	318	70.8 (32)	137	27.0 (35)	229	14.4 (34)	67	*	121	7.4 (30)	530	79.2 (55)	1,204	2.7 (48)
Calhoun	828	69.0 (38)	449	27.2 (33)	593	15.3 (28)	233	15.9 (25)	346	8.4 (27)	1,643	93.5 (4)	3,348	0.8 (4)

(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.

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

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WIC PNSS & PedNSS

Table 7B

2020 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	265	72.8 (26)	163	33.1 (18)	228	12.3 (42)	108	28.7 (5)	144	17.4 (2)	615	96.6 (1)	1,181	0.9 (6)
Charlevoix	97	*	58	*	64	*	29	*	56	*	243	89.7 (20)	494	2.4 (40)
Cheboygan	99	*	84	*	102	18.6 (14)	52	*	75	*	210	84.3 (42)	433	2.3 (35)
Chippewa	153	64.1 (46)	94	*	114	25.4 (3)	53	*	87	*	396	91.9 (7)	757	2.6 (46)
Clare	162	69.1 (37)	139	30.2 (23)	167	12.6 (40)	75	*	118	11.0 (16)	434	90.6 (11)	830	4.3 (68)
Clinton	110	78.2 (13)	60	*	89	*	33	*	55	*	283	80.2 (53)	586	2.0 (30)
Crawford	75	*	49	*	57	*	32	*	43	*	173	80.3 (52)	342	2.6 (46)
Delta	192	81.3 (9)	119	42.0 (5)	146	13.0 (39)	81	*	92	*	358	86.3 (36)	773	2.3 (35)
Dickinson	114	69.3 (36)	88	*	96	*	55	*	76	*	309	89.6 (21)	569	0.5 (2)
Eaton	211	82.5 (7)	125	27.2 (33)	151	15.9 (24)	77	*	110	5.5 (34)	497	78.3 (57)	984	1.1 (12)
Emmet	124	87.1 (1)	64	*	103	22.3 (7)	35	*	59	*	303	88.4 (29)	592	1.9 (28)
Genesee	2,241	54.6 (55)	1,296	21.1 (41)	1,473	12.5 (41)	697	15.4 (26)	1,039	6.7 (32)	4,462	81.6 (49)	9,401	2.2 (33)
Gladwin	134	79.1 (12)	88	*	102	21.6 (8)	53	*	77	*	385	82.9 (47)	660	5.0 (72)

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(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.

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

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

WIC PNSS & PedNSS

Table 7B

2020 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	44	*	51	*	50	*	29	*	42	*	105	77.1 (59)	231	3.9 (66)
Gr Travers	339	81.7 (8)	210	46.2 (2)	245	27.3 (2)	133	33.8 (2)	180	15.0 (6)	694	90.8 (10)	1,440	1.4 (18)
Gratiot	186	78.0 (14)	112	34.8 (13)	111	19.8 (12)	57	*	95	*	398	83.4 (45)	826	1.8 (27)
Hillsdale	203	77.3 (18)	91	*	102	15.7 (26)	50	*	84	*	411	83.2 (46)	877	2.7 (48)
Houghton	161	84.5 (5)	118	55.1 (1)	121	28.9 (1)	83	*	97	*	393	90.3 (16)	738	0.8 (4)
Huron	142	76.1 (22)	76	*	94	*	49	*	67	*	282	80.9 (51)	613	3.1 (56)
Ingham	1,499	71.8 (29)	801	30.3 (22)	1,026	18.2 (16)	432	18.8 (24)	683	11.0 (16)	3,020	92.2 (6)	6,366	0.9 (6)
Ionia	287	82.9 (6)	153	30.1 (25)	240	17.9 (18)	86	*	143	14.7 (7)	601	85.7 (38)	1,249	2.7 (48)
Iosco	132	60.6 (52)	67	*	85	*	42	*	62	*	262	80.2 (53)	564	3.4 (61)
Iron	54	*	30	*	46	*	25	*	26	*	139	88.5 (28)	264	3.8 (63)
Isabella	293	71.7 (30)	218	36.7 (9)	251	13.5 (38)	120	22.5 (13)	174	13.2 (9)	662	88.8 (24)	1,352	2.4 (40)
Jackson	894	67.8 (43)	787	35.5 (10)	764	12.2 (43)	456	24.3 (12)	649	12.6 (13)	2,145	75.3 (67)	4,107	2.5 (43)
Kalamazoo	1,088	63.0 (49)	688	29.9 (29)	774	14.6 (32)	413	25.7 (8)	615	8.5 (26)	2,197	75.4 (66)	4,871	1.5 (21)

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WIC PNSS & PedNSS

Table 7B

2020 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	90	*	63	*	71	*	31	*	52	*	156	89.1 (23)	389	4.9 (71)
Kent	2,809	72.8 (26)	1,642	27.5 (32)	2,081	14.9 (29)	930	19.4 (20)	1,421	8.8 (25)	5,346	84.0 (43)	12,546	0.9 (6)
Lake	50	*	29	*	46	*	23	*	28	*	105	73.3 (71)	213	6.6 (80)
Lapeer	314	77.1 (20)	231	34.6 (14)	301	19.3 (13)	127	15.0 (27)	210	7.6 (28)	756	86.6 (34)	1,547	1.7 (25)
Leelanau	37	*	21	*	21	*	10	*	20	*	101	76.2 (62)	180	0.0 (1)
Lenawee	398	62.6 (50)	210	30.0 (28)	233	22.7 (5)	127	20.5 (17)	197	12.2 (14)	705	78.0 (58)	1,548	2.5 (43)
Livingston	312	80.8 (11)	176	30.1 (25)	225	16.0 (23)	114	21.9 (15)	158	10.1 (21)	771	83.7 (44)	1,542	1.4 (18)
Luce	33	*	22	*	35	*	13	*	16	*	69	*	147	1.4 (18)
Mackinac	28	*	15	*	31	*	5	*	15	*	106	74.5 (70)	177	2.3 (35)
Macomb	2,945	59.3 (54)	1,893	27.0 (35)	2,296	11.0 (47)	1,320	15.0 (27)	1,678	9.4 (23)	5,457	79.2 (55)	12,138	0.9 (6)
Manistee	80	*	67	*	83	*	33	*	51	*	210	90.5 (13)	394	2.5 (43)
Marquette	209	84.7 (4)	108	34.3 (15)	170	18.2 (16)	54	*	72	*	514	95.5 (3)	988	1.2 (13)
Mason	122	71.3 (31)	73	*	102	16.7 (22)	50	*	63	*	290	81.4 (50)	555	5.4 (76)

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WIC PNSS & PedNSS

Table 7B

2020 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	208	72.6 (28)	165	28.5 (31)	196	10.2 (48)	116	25.0 (11)	137	7.3 (31)	462	89.2 (22)	950	3.2 (57)
Menominee	60	*	44	*	42	*	25	*	36	*	105	85.7 (38)	244	2.0 (30)
Midland	262	76.3 (21)	153	37.9 (8)	173	23.1 (4)	102	35.3 (1)	147	17.7 (1)	560	90.0 (18)	1,196	1.5 (21)
Missaukee	54	*	45	*	49	*	34	*	38	*	167	90.4 (14)	298	2.3 (35)
Monroe	590	65.1 (45)	442	30.1 (25)	431	11.1 (46)	301	19.6 (19)	387	6.5 (33)	1,113	76.4 (61)	2,422	3.8 (63)
Montcalm	301	85.4 (3)	153	43.1 (3)	195	22.6 (6)	72	*	125	15.2 (5)	611	82.0 (48)	1,307	3.4 (61)
Montmorenc	43	*	28	*	33	*	22	*	28	*	88	*	185	8.1 (81)
Muskegon	1,131	64.0 (47)	644	26.1 (38)	836	12.0 (44)	449	21.4 (16)	535	10.1 (21)	2,127	68.0 (72)	4,498	3.0 (54)
Newaygo	331	77.3 (18)	182	33.0 (19)	296	19.9 (10)	86	*	161	11.2 (15)	778	92.3 (5)	1,531	1.2 (13)
Oakland	3,024	69.8 (35)	1,956	30.8 (21)	1,841	13.9 (36)	1,429	19.0 (22)	1,724	11.0 (16)	6,153	76.2 (62)	12,941	1.2 (13)
Oceana	139	77.7 (16)	70	*	107	16.8 (21)	48	*	58	*	397	87.9 (30)	695	3.0 (54)
Ogemaw	104	63.5 (48)	52	*	80	*	27	*	51	*	262	87.4 (31)	503	6.2 (78)
Ontonagon	12	*	13	*	20	*	9	*	12	*	40	*	78	*

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WIC PNSS & PedNSS

Table 7B

2020 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	131	75.6 (23)	93	*	95	*	68	*	81	*	305	89.8 (19)	586	5.3 (74)
Oscoda	34	*	14	*	21	*	9	*	12	*	82	*	165	4.8 (70)
Otsego	147	68.7 (40)	80	*	76	*	46	*	74	*	280	85.4 (40)	597	4.4 (69)
Ottawa	947	80.9 (10)	547	32.4 (20)	761	14.7 (31)	299	29.4 (4)	435	12.9 (10)	1,841	91.0 (9)	4,140	1.0 (10)
Presque Is	41	*	28	*	16	*	18	*	23	*	81	*	147	2.7 (48)
Roscommon	84	*	53	*	69	*	34	*	43	*	203	74.9 (68)	409	5.4 (76)
Saginaw	1,084	60.0 (53)	656	18.9 (42)	699	8.2 (49)	481	10.6 (29)	600	5.0 (37)	2,418	75.8 (65)	4,983	3.3 (60)
Sanilac	156	46.8 (57)	73	*	119	18.5 (15)	30	*	68	*	331	84.6 (41)	695	1.7 (25)
Schoolcraf	41	*	30	*	26	*	14	*	21	*	73	*	157	3.2 (57)
Shiawassee	305	68.2 (42)	187	33.2 (17)	295	14.6 (32)	103	19.4 (20)	165	12.7 (11)	686	87.3 (32)	1,399	2.9 (52)
St Clair	619	62.2 (51)	302	21.2 (40)	546	11.4 (45)	163	19.0 (22)	285	9.1 (24)	1,159	76.6 (60)	2,537	3.2 (57)
St Joseph	371	85.7 (2)	220	35.5 (10)	325	17.5 (19)	123	25.2 (9)	172	14.0 (8)	1,022	86.4 (35)	1,953	1.2 (13)
Tuscola	249	74.3 (24)	159	34.0 (16)	208	13.9 (36)	97	*	137	5.1 (35)	629	85.9 (37)	1,197	2.2 (33)

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WIC PNSS & PedNSS

Table 7B

2020 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	399	68.9 (39)	230	27.0 (35)	328	14.3 (35)	151	25.8 (6)	211	10.9 (19)	936	90.2 (17)	1,805	1.0 (10)
Washtenaw	931	73.4 (25)	636	39.0 (6)	678	19.9 (10)	485	25.8 (6)	542	16.4 (3)	1,939	96.1 (2)	4,044	0.7 (3)
Wayne	12,594	50.9 (56)	7,812	21.8 (39)	8,161	8.2 (49)	5,491	8.5 (30)	6,802	5.1 (35)	24,608	67.6 (73)	51,801	2.3 (35)
Wexford	232	77.6 (17)	187	42.8 (4)	192	15.6 (27)	123	31.7 (3)	163	16.0 (4)	515	88.7 (25)	1,023	5.3 (74)
Michigan	44,718	63.9	27,565	28.2	31,867	13.2	17,815	17.6	23,867	9.3	91,478	79.0	192,304	2.0
National (Prior Year)	168,373	71.4	88,368	31.4	91,841	23.5	60,230	17.4	71,191	8.1	285,831	82.0	655,593	3.7

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WIC PNSS & PedNSS

Table 6B

2018 - 2020 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	98	*	*	365	7.9 (52)	2.2 (15)	11.5 (45)	171	17.0 (37)	15.8 (55)	254	17.7 (62)
Alger	81	*	*	311	4.8 (4)	2.6 (27)	13.8 (76)	125	18.4 (58)	21.6 (80)	197	16.2 (57)
Allegan	1,269	9.5 (46)	8.5 (52)	5,453	6.3 (23)	3.3 (52)	11.3 (40)	2,423	15.9 (17)	14.2 (34)	3,518	22.7 (76)
Alpena	419	7.6 (14)	10.7 (71)	1,631	8.6 (67)	2.3 (19)	11.6 (46)	698	18.9 (64)	15.5 (50)	1,055	18.5 (63)
Antrim	243	5.8 (3)	10.7 (71)	1,073	6.5 (25)	6.2 (80)	10.6 (28)	510	17.1 (45)	13.9 (29)	644	9.8 (21)
Arenac	289	9.0 (38)	9.0 (59)	1,068	7.4 (43)	2.1 (12)	10.8 (31)	486	15.8 (14)	15.2 (44)	664	11.4 (33)
Baraga	123	7.3 (10)	7.3 (25)	438	7.1 (35)	1.8 (7)	14.4 (79)	206	25.2 (81)	16.5 (60)	273	12.5 (36)
Barry	622	9.5 (46)	9.5 (62)	2,564	6.6 (26)	2.8 (33)	9.4 (7)	1,090	17.2 (48)	12.4 (10)	1,479	7.8 (10)
Bay	1,426	10.0 (58)	8.4 (49)	5,392	7.9 (52)	1.6 (5)	12.4 (62)	2,373	18.3 (56)	17.2 (66)	3,632	11.3 (32)
Benzie	230	7.4 (11)	7.8 (33)	857	7.4 (43)	3.0 (42)	12.1 (54)	364	16.8 (30)	16.5 (60)	513	13.8 (43)
Berrien	2,373	9.2 (43)	5.6 (7)	8,821	6.9 (31)	3.9 (66)	10.5 (24)	3,714	16.7 (28)	13.9 (29)	5,535	14.0 (44)
Branch	932	8.3 (29)	7.9 (35)	3,077	8.7 (68)	3.9 (66)	11.2 (37)	1,240	16.0 (18)	13.4 (23)	1,714	10.3 (24)
Calhoun	2,525	10.5 (63)	7.2 (23)	9,416	7.9 (52)	4.0 (69)	13.0 (69)	3,966	17.0 (37)	16.3 (59)	5,784	19.5 (69)
Cass	855	8.0 (21)	8.4 (49)	3,610	5.6 (8)	2.4 (20)	12.1 (54)	1,640	16.5 (27)	16.9 (63)	2,287	19.2 (66)

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(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 PNSS & PedNSS

Table 6B

2018 - 2020 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	319	9.1 (41)	5.6 (7)	1,424	8.1 (58)	3.6 (60)	11.9 (52)	608	17.6 (53)	17.8 (70)	882	7.7 (8)
Cheboygan	338	8.9 (36)	8.3 (46)	1,136	5.5 (7)	3.6 (60)	11.4 (41)	478	20.1 (72)	16.1 (57)	673	20.7 (72)
Chippewa	538	6.3 (6)	12.1 (78)	2,051	7.3 (41)	4.0 (69)	15.2 (81)	937	16.4 (23)	17.5 (69)	1,159	21.9 (74)
Clare	535	6.0 (5)	6.7 (16)	2,051	6.8 (28)	3.9 (66)	9.0 (5)	906	20.5 (75)	13.6 (26)	1,279	9.7 (19)
Clinton	408	10.3 (60)	10.3 (68)	1,702	9.7 (78)	2.1 (12)	13.2 (72)	711	20.1 (72)	14.1 (32)	1,078	2.8 (1)
Crawford	217	8.8 (33)	10.6 (70)	774	7.0 (34)	2.2 (15)	13.0 (69)	338	15.7 (13)	18.3 (73)	546	19.6 (70)
Delta	576	9.5 (46)	7.5 (27)	2,114	10.0 (80)	1.7 (6)	11.2 (37)	925	17.3 (49)	13.0 (15)	1,334	10.0 (22)
Dickinson	362	9.7 (54)	8.3 (46)	1,398	6.0 (18)	3.1 (46)	10.5 (24)	623	15.6 (11)	14.8 (41)	861	19.2 (66)
Eaton	690	9.0 (38)	8.7 (53)	2,903	8.1 (58)	2.9 (39)	12.3 (59)	1,249	22.3 (80)	16.9 (63)	1,660	8.1 (13)
Emmet	431	9.0 (38)	7.7 (30)	1,772	8.7 (68)	4.1 (72)	10.0 (16)	787	16.9 (32)	12.2 (8)	1,084	8.0 (11)
Genesee	7,280	13.2 (76)	5.3 (5)	24,111	9.2 (74)	2.7 (30)	11.1 (36)	10,154	15.5 (9)	12.1 (5)	14,999	21.8 (73)
Gladwin	380	9.5 (46)	8.7 (53)	1,645	8.3 (60)	2.4 (20)	11.9 (52)	778	17.0 (37)	15.4 (47)	1,085	10.8 (27)
Gogebic	179	8.9 (36)	10.1 (66)	730	4.7 (3)	3.3 (52)	13.3 (73)	342	15.8 (14)	19.0 (78)	468	7.7 (8)
Gr Travers	1,113	9.3 (44)	11.4 (75)	3,706	4.5 (2)	6.1 (79)	9.7 (8)	1,599	20.5 (75)	12.4 (10)	2,194	18.6 (64)

(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.

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

WIC PNSS & PedNSS

Table 6B

2018 - 2020 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	598	8.0 (21)	8.4 (49)	2,327	7.2 (39)	3.0 (42)	12.1 (54)	986	17.0 (37)	18.3 (73)	1,465	2.9 (2)
Hillsdale	660	8.2 (25)	7.3 (25)	2,389	8.5 (64)	1.5 (3)	12.3 (59)	1,024	16.3 (22)	15.6 (52)	1,477	16.5 (59)
Houghton	459	7.0 (9)	9.6 (64)	1,677	8.9 (71)	1.8 (7)	9.7 (8)	767	16.4 (23)	11.1 (2)	1,106	8.0 (11)
Huron	388	10.3 (60)	11.3 (74)	1,501	9.1 (73)	3.1 (46)	13.0 (69)	636	15.3 (6)	13.5 (25)	994	8.7 (17)
Ingham	4,645	10.5 (63)	6.3 (13)	15,989	8.5 (64)	3.8 (64)	10.4 (20)	6,484	17.0 (37)	13.3 (21)	9,479	12.7 (37)
Ionia	902	8.8 (33)	8.0 (39)	3,606	5.7 (12)	4.5 (77)	10.8 (31)	1,548	19.0 (65)	13.9 (29)	2,337	8.6 (16)
Iosco	438	7.8 (18)	6.8 (19)	1,491	7.5 (48)	3.1 (46)	10.5 (24)	625	19.7 (69)	14.4 (36)	958	19.2 (66)
Iron	162	11.7 (69)	10.5 (69)	618	6.3 (23)	3.2 (50)	13.6 (74)	290	21.0 (78)	19.3 (79)	407	10.8 (27)
Isabella	949	9.5 (46)	8.1 (44)	3,324	7.4 (43)	3.3 (52)	11.8 (50)	1,321	17.0 (37)	18.3 (73)	1,929	10.6 (26)
Jackson	2,728	10.7 (65)	7.6 (28)	10,151	5.7 (12)	8.0 (82)	10.0 (16)	4,260	18.2 (55)	15.8 (55)	5,788	18.8 (65)
Kalamazoo	3,572	11.3 (68)	7.1 (22)	12,980	6.0 (18)	4.2 (75)	10.9 (33)	5,322	17.1 (45)	14.1 (32)	8,132	31.4 (81)
Kalkaska	267	10.1 (59)	7.9 (35)	944	8.4 (62)	2.2 (15)	10.4 (20)	440	17.5 (52)	13.0 (15)	641	16.4 (58)
Kent	9,088	12.7 (74)	6.1 (12)	34,328	9.5 (77)	2.4 (20)	11.4 (41)	14,849	16.0 (18)	13.6 (26)	21,626	14.7 (45)
Lake	138	9.4 (45)	8.0 (39)	577	6.8 (28)	2.9 (39)	8.7 (2)	266	16.9 (32)	11.3 (3)	376	14.9 (48)

(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.

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

WIC PNSS & PedNSS

Table 6B

2018 - 2020 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)
Lapeer	1,072	10.4 (62)	8.0 (39)	4,102	6.0 (18)	2.6 (27)	9.8 (10)	1,761	16.9 (32)	15.7 (53)	2,580	13.5 (42)
Leelanau	113	9.7 (54)	8.0 (39)	504	5.6 (8)	3.8 (64)	12.3 (59)	223	21.1 (79)	17.9 (71)	317	7.6 (7)
Lenawee	1,201	6.7 (7)	7.7 (30)	4,065	7.8 (50)	2.5 (24)	12.4 (62)	1,737	18.3 (56)	16.1 (57)	2,448	26.7 (79)
Livingston	993	12.4 (72)	7.9 (35)	3,557	8.7 (68)	2.2 (15)	8.7 (2)	1,577	16.9 (32)	12.0 (4)	2,363	8.3 (14)
Luce	122	7.4 (11)	11.5 (76)	431	3.2 (1)	4.9 (78)	6.3 (1)	160	20.0 (71)	10.6 (1)	274	10.2 (23)
Mackinac	107	5.6 (2)	14.0 (79)	484	5.0 (5)	4.1 (72)	9.9 (13)	244	15.6 (11)	13.1 (17)	336	4.5 (4)
Macomb	8,929	11.2 (67)	5.3 (5)	29,364	7.1 (35)	2.8 (33)	11.0 (35)	11,756	14.9 (5)	13.4 (23)	17,541	16.1 (54)
Manistee	275	9.8 (56)	9.5 (62)	1,042	7.4 (43)	2.6 (27)	11.2 (37)	455	16.9 (32)	15.4 (47)	682	16.1 (54)
Marquette	679	8.5 (32)	8.1 (44)	2,612	10.0 (80)	2.8 (33)	13.6 (74)	1,137	20.1 (72)	15.4 (47)	1,287	8.4 (15)
Mason	384	9.6 (53)	6.3 (13)	1,464	6.9 (31)	2.7 (30)	9.8 (10)	679	15.5 (9)	12.2 (8)	935	13.3 (41)
Mecosta	667	8.8 (33)	7.9 (35)	2,390	8.5 (64)	2.4 (20)	12.1 (54)	1,023	18.6 (61)	15.2 (44)	1,489	9.7 (19)
Menominee	220	8.2 (25)	9.1 (60)	828	7.1 (35)	2.8 (33)	14.5 (80)	329	16.4 (23)	16.7 (62)	511	10.4 (25)
Midland	871	8.2 (25)	10.2 (67)	3,393	9.3 (76)	1.9 (9)	14.0 (77)	1,350	19.0 (65)	14.7 (40)	1,942	16.0 (52)
Missaukee	185	5.9 (4)	9.7 (65)	694	6.1 (22)	1.2 (1)	11.8 (50)	323	16.7 (28)	14.6 (39)	464	11.9 (34)

(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.

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

WIC PNSS & PedNSS

Table 6B

2018 - 2020 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)
Monroe	1,749	9.5 (46)	6.7 (16)	5,906	7.8 (50)	2.8 (33)	10.5 (24)	2,430	17.0 (37)	14.9 (42)	3,607	16.1 (54)
Montcalm	918	7.8 (18)	6.8 (19)	3,357	9.2 (74)	2.5 (24)	10.9 (33)	1,361	15.4 (8)	13.2 (19)	2,113	4.1 (3)
Montmorenc	138	14.5 (79)	7.2 (23)	443	9.7 (78)	3.4 (58)	11.7 (48)	181	12.2 (1)	18.8 (77)	255	17.3 (61)
Muskegon	3,653	11.7 (69)	5.1 (4)	12,427	8.3 (60)	2.7 (30)	12.5 (64)	5,168	17.1 (45)	14.2 (34)	7,737	22.1 (75)
Newaygo	974	7.8 (18)	7.8 (33)	3,610	7.1 (35)	2.0 (10)	11.6 (46)	1,628	17.9 (54)	14.9 (42)	2,252	14.7 (45)
Oakland	9,240	12.6 (73)	5.6 (7)	34,046	7.9 (52)	3.3 (52)	9.8 (10)	14,182	15.3 (6)	12.1 (5)	21,029	23.8 (78)
Oceana	441	7.7 (15)	5.9 (11)	1,842	7.2 (39)	2.1 (12)	12.9 (68)	912	18.5 (60)	17.9 (71)	1,249	13.2 (40)
Ogemaw	339	7.7 (15)	11.2 (73)	1,323	6.8 (28)	2.0 (10)	12.6 (66)	600	17.0 (37)	13.3 (21)	877	12.7 (37)
Ontonagon	43	*	*	157	5.1 (6)	3.2 (50)	12.1 (54)	69	*	*	107	5.6 (5)
Osceola	369	10.8 (66)	8.9 (57)	1,407	7.4 (43)	3.6 (60)	10.0 (16)	617	16.2 (20)	14.4 (36)	892	15.7 (50)
Oscoda	120	7.5 (13)	6.7 (16)	492	8.9 (71)	2.8 (33)	10.4 (20)	226	18.6 (61)	13.7 (28)	328	11.0 (31)
Otsego	382	9.9 (57)	6.8 (19)	1,677	5.7 (12)	6.6 (81)	12.6 (66)	738	19.0 (65)	16.9 (63)	941	15.5 (49)
Ottawa	2,825	9.1 (41)	8.7 (53)	11,152	5.6 (8)	3.0 (42)	10.2 (19)	5,014	15.8 (14)	12.7 (13)	7,245	34.6 (82)
Presque Is	101	6.9 (8)	11.9 (77)	367	5.7 (12)	3.3 (52)	11.4 (41)	156	14.1 (3)	17.3 (67)	245	20.0 (71)

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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 PNSS & PedNSS

Table 6B

2018 - 2020 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)
Roscommon	283	4.2 (1)	6.4 (15)	1,048	5.6 (8)	3.1 (46)	9.1 (6)	444	14.0 (2)	13.1 (17)	640	13.1 (39)
Saginaw	3,579	12.1 (71)	5.0 (3)	12,443	5.8 (16)	4.4 (76)	10.4 (20)	4,922	16.8 (30)	13.2 (19)	7,514	15.9 (51)
Sanilac	519	8.1 (23)	8.3 (46)	1,822	11.9 (82)	1.2 (1)	15.8 (82)	797	20.7 (77)	22.6 (81)	1,179	16.6 (60)
Schoolcraf	126	13.5 (78)	5.6 (7)	439	8.0 (56)	4.1 (72)	11.4 (41)	167	19.2 (68)	18.6 (76)	269	6.7 (6)
Shiawassee	987	9.5 (46)	7.7 (30)	3,744	6.0 (18)	3.6 (60)	10.6 (28)	1,688	18.4 (58)	15.5 (50)	2,455	10.8 (27)
St Clair	1,981	8.4 (30)	8.0 (39)	6,928	7.6 (49)	3.0 (42)	10.7 (30)	2,791	19.7 (69)	15.2 (44)	4,137	10.9 (30)
St Joseph	1,206	7.7 (15)	7.6 (28)	4,425	8.4 (62)	2.5 (24)	12.5 (64)	1,900	17.4 (51)	15.7 (53)	2,759	11.9 (34)
Tuscola	855	8.4 (30)	8.9 (57)	3,319	6.9 (31)	3.3 (52)	9.9 (13)	1,431	17.3 (49)	14.4 (36)	2,008	8.9 (18)
Van Buren	1,230	8.1 (23)	9.2 (61)	5,191	5.9 (17)	2.9 (39)	14.1 (78)	2,342	16.2 (20)	17.3 (67)	3,263	14.8 (47)
Washtenaw	2,788	12.7 (74)	4.7 (1)	9,792	6.7 (27)	3.5 (59)	8.7 (2)	4,199	16.4 (23)	12.1 (5)	6,368	23.3 (77)
Wayne	38,851	13.4 (77)	4.7 (1)	126,230	7.3 (41)	4.0 (69)	9.9 (13)	51,473	14.5 (4)	12.5 (12)	75,604	26.7 (79)
Wexford	716	8.2 (25)	8.8 (56)	2,554	8.0 (56)	1.5 (3)	11.7 (48)	1,160	18.8 (63)	12.8 (14)	1,705	16.0 (52)
Michigan	140,119	11.4	6.2	494,719	7.5	3.4	3.4	207,671	16.2	14.5	303,575	19.7

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

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

(4) 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 PNSS & PedNSS

Table 7B

2018 - 2020 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	98	*	81	*	79	*	57	*	70	*	230	90.4 (21)	465	2.8 (38)
Alger	81	*	73	*	61	*	52	*	62	*	185	83.8 (60)	393	3.3 (46)
Allegan	1,290	75.3 (37)	943	32.4 (53)	1,108	14.3 (45)	615	22.9 (35)	795	11.6 (38)	3,063	91.2 (12)	6,144	1.7 (17)
Alpena	419	71.1 (56)	305	29.2 (65)	368	10.9 (66)	221	17.2 (57)	264	8.3 (58)	1,021	81.4 (66)	1,999	4.3 (61)
Antrim	252	79.4 (18)	199	46.2 (6)	193	17.1 (29)	127	36.2 (6)	167	16.2 (15)	655	84.6 (55)	1,230	6.9 (79)
Arenac	290	72.4 (51)	216	36.6 (34)	216	12.5 (57)	145	17.9 (54)	180	10.0 (51)	695	87.9 (36)	1,324	6.2 (74)
Baraga	125	74.4 (41)	102	37.3 (30)	74	*	67	*	85	*	268	89.6 (26)	532	2.6 (31)
Barry	635	78.7 (23)	491	39.5 (21)	429	18.2 (19)	304	28.6 (20)	424	12.5 (33)	1,463	91.5 (8)	2,924	1.8 (21)
Bay	1,434	66.2 (67)	841	30.0 (64)	1,196	13.4 (52)	484	22.9 (35)	764	6.0 (66)	3,350	88.6 (33)	6,699	2.5 (29)
Benzie	230	80.4 (16)	179	44.7 (8)	159	15.1 (41)	111	34.2 (8)	149	17.4 (12)	534	83.0 (62)	1,085	6.5 (76)
Berrien	2,381	70.3 (60)	1,614	32.0 (55)	1,240	14.2 (47)	1,238	19.7 (48)	1,375	10.3 (45)	4,627	77.1 (78)	9,910	4.1 (58)
Branch	944	73.8 (44)	573	36.8 (33)	672	15.3 (40)	392	26.8 (24)	488	13.5 (27)	1,741	80.5 (70)	3,760	3.3 (46)
Calhoun	2,546	70.8 (58)	1,723	30.4 (63)	1,906	14.3 (45)	1,100	18.9 (51)	1,361	10.0 (51)	5,519	90.8 (17)	11,104	1.4 (8)

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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 PNSS & PedNSS

Table 7B

2018 - 2020 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	856	73.9 (43)	624	38.0 (26)	709	14.7 (43)	457	24.1 (30)	521	17.1 (13)	2,113	94.2 (1)	4,038	1.5 (13)
Charlevoix	342	85.1 (3)	251	45.8 (7)	244	19.3 (12)	155	39.4 (3)	210	19.0 (8)	819	87.5 (40)	1,668	2.6 (31)
Cheboygan	339	77.6 (29)	255	40.8 (17)	285	15.1 (41)	165	28.5 (21)	216	20.8 (5)	676	84.0 (58)	1,403	4.0 (56)
Chippewa	539	65.7 (70)	371	40.4 (18)	398	21.4 (9)	243	38.3 (4)	333	26.7 (1)	1,300	91.4 (10)	2,539	7.6 (81)
Clare	536	71.5 (54)	443	34.3 (49)	443	12.6 (56)	283	21.2 (43)	373	11.8 (37)	1,296	91.1 (13)	2,498	5.1 (68)
Clinton	409	81.9 (12)	298	35.2 (43)	287	16.0 (35)	183	26.2 (26)	254	10.2 (50)	964	84.3 (57)	2,000	1.7 (17)
Crawford	218	81.7 (13)	160	44.4 (10)	194	22.7 (6)	104	35.6 (7)	136	19.9 (6)	521	81.4 (66)	1,039	3.3 (46)
Delta	581	78.8 (22)	399	36.6 (34)	461	13.0 (55)	300	22.7 (37)	331	10.9 (42)	1,253	88.3 (35)	2,526	3.1 (42)
Dickinson	364	70.9 (57)	247	43.3 (11)	292	21.6 (7)	183	33.3 (10)	218	23.9 (2)	911	89.4 (28)	1,750	1.0 (3)
Eaton	717	82.7 (7)	579	38.0 (26)	530	17.7 (22)	354	15.8 (63)	479	8.1 (61)	1,691	80.1 (72)	3,349	2.0 (24)
Emmet	439	84.5 (5)	343	50.1 (4)	321	23.1 (4)	204	42.2 (2)	288	21.9 (3)	1,042	86.8 (46)	2,039	2.7 (33)
Genesee	7,308	55.4 (77)	5,217	24.3 (71)	4,574	10.7 (68)	3,483	12.0 (65)	4,184	6.9 (64)	14,353	82.3 (64)	30,375	2.5 (29)
Gladwin	383	81.5 (15)	329	41.6 (14)	335	19.1 (15)	184	31.5 (15)	274	14.2 (25)	1,141	87.1 (44)	2,011	5.8 (71)
Gogebic	180	72.2 (53)	163	34.4 (48)	149	15.4 (39)	110	20.0 (46)	144	16.0 (16)	436	80.7 (68)	879	5.2 (69)

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WIC PNSS & PedNSS

Table 7B

2018 - 2020 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	1,120	82.6 (9)	724	50.3 (3)	812	25.0 (3)	417	36.9 (5)	580	15.2 (19)	2,206	90.6 (18)	4,641	1.5 (13)
Gratiot	599	80.1 (17)	450	38.4 (24)	386	21.5 (8)	280	30.7 (17)	386	12.4 (35)	1,348	85.8 (50)	2,722	1.8 (21)
Hillsdale	663	78.6 (24)	474	35.2 (43)	429	16.8 (30)	309	24.9 (28)	404	14.9 (22)	1,434	84.5 (56)	2,976	5.2 (69)
Houghton	463	85.1 (3)	387	51.7 (1)	381	30.4 (1)	259	32.8 (11)	337	18.4 (11)	1,160	91.3 (11)	2,234	0.9 (1)
Huron	389	78.1 (26)	313	36.4 (39)	278	13.7 (51)	197	11.7 (66)	266	5.6 (67)	936	85.8 (50)	1,902	4.1 (58)
Ingham	4,692	74.9 (39)	3,114	39.3 (22)	2,961	18.3 (18)	2,045	19.4 (49)	2,528	11.9 (36)	9,193	90.2 (23)	19,342	1.4 (8)
Ionia	908	82.6 (9)	685	34.7 (46)	796	17.6 (23)	422	28.0 (23)	598	13.9 (26)	2,113	86.7 (47)	4,209	2.3 (27)
Iosco	441	63.0 (73)	300	31.7 (57)	309	11.7 (62)	219	18.3 (53)	260	10.8 (44)	894	89.4 (28)	1,869	3.9 (53)
Iron	162	74.7 (40)	104	33.7 (50)	129	17.8 (20)	94	*	90	*	426	88.7 (32)	795	5.8 (71)
Isabella	953	72.7 (50)	735	36.3 (40)	724	14.4 (44)	478	23.0 (34)	609	12.5 (33)	1,898	90.6 (18)	4,047	2.7 (33)
Jackson	2,743	70.1 (63)	2,520	35.9 (41)	2,199	11.6 (63)	1,433	21.6 (42)	2,044	12.9 (29)	6,316	77.5 (76)	12,402	3.5 (50)
Kalamazoo	3,637	68.4 (64)	2,565	31.8 (56)	2,279	14.0 (49)	1,725	21.2 (43)	2,185	8.2 (60)	7,236	77.4 (77)	15,745	2.0 (24)
Kalkaska	269	85.9 (2)	194	50.5 (2)	197	28.4 (2)	117	45.3 (1)	160	19.4 (7)	552	85.5 (52)	1,216	6.0 (73)
Kent	9,193	74.1 (42)	7,495	30.7 (60)	6,704	15.6 (37)	4,848	16.4 (62)	6,304	9.3 (53)	19,470	85.3 (54)	41,541	1.3 (7)

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WIC PNSS & PedNSS

Table 7B

2018 - 2020 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)		
Lake	138	73.2 (47)	101	38.6 (23)	134	13.4 (52)	69	*	90	*	369	75.1 (79)	706	7.1 (80)
Lapeer	1,078	77.6 (29)	866	36.5 (37)	896	16.7 (31)	571	17.9 (54)	763	8.4 (57)	2,465	89.0 (30)	5,008	1.0 (3)
Leelanau	113	89.4 (1)	78	*	78	*	47	*	65	*	318	79.2 (74)	601	1.2 (6)
Lenawee	1,208	66.2 (67)	819	32.5 (52)	775	17.2 (28)	601	25.1 (27)	727	12.8 (30)	2,392	81.7 (65)	5,119	3.2 (44)
Livingston	996	79.4 (18)	773	32.2 (54)	710	17.5 (24)	552	22.1 (39)	685	12.6 (32)	2,253	88.9 (31)	4,639	1.4 (8)
Luce	122	75.4 (36)	100	35.0 (45)	114	15.8 (36)	70	*	86	*	231	90.5 (20)	517	1.7 (17)
Mackinac	106	79.2 (21)	57	*	99	*	25	*	54	*	343	74.3 (80)	586	2.7 (33)
Macomb	9,012	61.2 (75)	6,253	26.7 (70)	6,543	11.2 (65)	4,584	14.2 (64)	5,393	8.3 (58)	16,521	80.6 (69)	36,798	1.5 (13)
Manistee	278	75.9 (33)	202	44.6 (9)	260	18.5 (17)	140	32.1 (12)	172	18.6 (9)	652	92.2 (6)	1,297	4.2 (60)
Marquette	682	84.3 (6)	428	37.4 (29)	530	17.4 (25)	244	33.6 (9)	339	15.3 (18)	1,565	93.7 (2)	3,103	2.1 (26)
Mason	385	73.8 (44)	266	37.6 (28)	320	16.3 (33)	201	28.4 (22)	233	15.0 (20)	950	86.9 (45)	1,809	3.9 (53)
Mecosta	670	71.5 (54)	499	30.9 (59)	551	13.8 (50)	364	24.5 (29)	428	10.3 (45)	1,416	90.9 (14)	2,922	3.3 (46)
Menominee	219	63.0 (73)	165	27.3 (69)	164	3.0 (73)	120	16.7 (60)	145	10.3 (45)	433	91.5 (8)	951	4.0 (56)
Midland	874	78.5 (25)	681	38.3 (25)	584	22.9 (5)	549	31.9 (13)	605	18.5 (10)	1,828	90.9 (14)	3,875	1.7 (17)

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WIC PNSS & PedNSS

Table 7B

2018 - 2020 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)		
Missaukee	185	81.6 (14)	134	48.5 (5)	169	20.7 (10)	85	*	121	16.5 (14)	472	89.8 (24)	897	4.6 (64)
Monroe	1,757	63.7 (72)	1,370	28.2 (67)	1,268	10.9 (66)	956	17.2 (57)	1,191	7.0 (63)	3,491	85.4 (53)	7,428	3.7 (52)
Montcalm	921	82.5 (11)	664	39.9 (20)	584	19.2 (13)	421	26.6 (25)	553	12.8 (30)	1,908	83.0 (62)	4,055	3.9 (53)
Montmorenc	138	70.3 (60)	96	*	105	11.4 (64)	75	*	84	*	263	86.7 (47)	561	8.7 (82)
Muskegon	3,671	65.0 (71)	2,407	28.8 (66)	2,593	10.1 (69)	1,654	19.1 (50)	1,942	9.0 (55)	7,092	73.8 (81)	15,075	4.4 (63)
Newaygo	976	77.7 (28)	549	33.7 (50)	815	17.8 (20)	312	30.8 (16)	485	13.0 (28)	2,285	92.5 (4)	4,456	1.4 (8)
Oakland	9,447	70.5 (59)	7,408	31.5 (58)	5,828	13.2 (54)	5,443	17.9 (54)	6,393	10.9 (42)	19,782	80.2 (71)	41,477	1.5 (13)
Oceana	445	76.6 (31)	309	42.7 (12)	372	16.7 (31)	197	21.8 (40)	262	9.2 (54)	1,274	87.8 (37)	2,292	2.7 (33)
Ogemaw	340	67.1 (65)	277	30.7 (60)	254	9.8 (70)	172	19.8 (47)	244	7.8 (62)	858	87.2 (43)	1,654	6.6 (77)
Ontonagon	43	*	37	*	45	*	16	*	28	*	108	89.8 (24)	213	2.3 (27)
Osceola	373	75.9 (33)	310	36.5 (37)	323	18.6 (16)	190	23.7 (32)	263	10.3 (45)	894	87.4 (41)	1,753	6.3 (75)
Oscoda	121	70.2 (62)	93	*	79	*	69	*	80	*	315	89.5 (27)	607	4.6 (64)
Otsego	448	73.2 (47)	305	40.0 (19)	271	17.3 (26)	202	31.7 (14)	264	21.2 (4)	976	86.5 (49)	1,972	4.6 (64)
Ottawa	3,019	79.3 (20)	1,747	36.6 (34)	2,274	16.1 (34)	1,015	28.8 (19)	1,372	14.7 (23)	6,234	92.1 (7)	13,057	1.1 (5)

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WIC PNSS & PedNSS

Table 7B

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Michigan

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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	101	72.3 (52)	88	*	81	*	52	*	71	*	236	92.4 (5)	458	3.5 (50)
Roscommon	283	75.6 (35)	240	42.5 (13)	232	12.5 (57)	152	21.1 (45)	188	11.2 (39)	635	83.9 (59)	1,301	6.7 (78)
Saginaw	3,588	59.9 (76)	2,563	22.7 (73)	2,214	7.6 (72)	1,914	11.5 (67)	2,227	6.2 (65)	7,033	79.0 (75)	15,107	2.8 (38)
Sanilac	522	52.9 (79)	373	30.6 (62)	375	12.3 (59)	229	22.7 (37)	324	15.7 (17)	1,146	90.9 (14)	2,335	2.8 (38)
Schoolcraf	126	73.0 (49)	94	*	89	*	53	*	78	*	245	83.3 (61)	527	2.7 (33)
Shiawassee	990	73.3 (46)	772	35.8 (42)	846	17.3 (26)	491	16.5 (61)	648	9.0 (55)	2,249	88.6 (33)	4,576	3.0 (41)
St Clair	1,994	65.9 (69)	1,375	28.1 (68)	1,496	12.1 (60)	871	18.9 (51)	1,206	11.2 (39)	3,940	79.3 (73)	8,255	4.3 (61)
St Joseph	1,219	82.7 (7)	882	37.3 (30)	863	15.5 (38)	555	23.6 (33)	675	11.0 (41)	2,779	87.3 (42)	5,604	1.9 (23)
Tuscola	857	75.1 (38)	673	37.1 (32)	652	14.1 (48)	435	17.0 (59)	556	5.2 (68)	1,951	87.7 (39)	3,862	3.1 (42)
Van Buren	1,256	66.3 (66)	916	34.5 (47)	964	12.0 (61)	641	21.7 (41)	774	10.3 (45)	3,020	93.6 (3)	5,813	0.9 (1)
Washtenaw	2,803	78.0 (27)	2,168	41.2 (16)	1,981	20.1 (11)	1,581	24.0 (31)	1,814	15.0 (20)	5,951	90.4 (21)	12,353	1.4 (8)
Wayne	39,757	54.0 (78)	27,038	23.7 (72)	23,626	8.2 (71)	19,909	8.9 (68)	23,402	5.1 (69)	73,878	70.4 (82)	159,251	3.2 (44)
Wexford	721	76.6 (31)	517	41.6 (14)	599	19.2 (13)	321	29.6 (18)	441	14.7 (23)	1,660	87.8 (37)	3,270	4.6 (64)

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(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 PNSS & PedNSS

Table 7B

2018 - 2020 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	142,230	65.8	101,810	30.4	96,308	13.0	70,351	16.9	86,399	9.3	289,548	81.0	607,733	2.6
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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.

(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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