

# WIC PNSS & PedNSS

## Table 4B

### 2019 Pediatric Nutrition Surveillance <sup>(1)</sup>

#### Michigan

#### Comparison of Racial and Ethnic Distribution by County

#### Children Aged < 5 Years <sup>(2)</sup>

<b>Comparison of Racial and Ethnic Distribution</b>								
<b>County</b>	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	153	85.0	0.0	6.5	0.0	0.0	8.5	0.0
Alger	130	82.3	0.8	2.3	4.6	0.0	10.0	0.0
Allegan	2,115	70.1	1.5	19.2	0.0	0.0	8.3	0.8
Alpena	687	86.9	0.4	6.1	0.0	0.1	6.3	0.1
Antrim	418	90.9	0.2	1.7	0.0	0.0	7.2	0.0
Arenac	459	95.9	0.2	2.2	0.0	0.0	1.7	0.0
Baraga	182	44.5	0.5	2.7	41.2	0.0	11.0	0.0
Barry	984	90.7	0.4	5.4	0.0	0.0	3.5	0.1
Bay	2,281	66.9	1.8	17.1	0.1	0.2	13.6	0.3
Benzie	386	87.6	0.3	3.9	0.3	0.0	8.0	0.0
Berrien	3,679	44.9	36.0	9.6	0.4	0.8	7.9	0.4
Branch	1,256	83.5	0.8	10.9	0.0	0.2	4.4	0.2
Calhoun	3,772	51.9	18.2	8.9	0.1	5.7	15.0	0.2
Cass	1,353	51.2	6.8	28.3	0.4	0.2	12.3	0.7
Charlevoix	563	86.5	0.2	5.9	0.2	0.2	7.1	0.0
Cheboygan	477	84.7	1.3	2.1	0.0	0.0	11.9	0.0
Chippewa	856	42.2	0.1	5.3	22.0	0.4	30.0	0.1
Clare	836	89.0	0.0	5.5	0.0	0.0	5.4	0.1
Clinton	712	74.0	0.6	17.6	0.0	0.0	7.4	0.4
Crawford	372	93.5	0.0	3.0	0.0	0.0	3.0	0.5
Delta	855	76.3	0.1	4.4	0.0	0.0	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

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Dickinson	566	91.7	0.4	2.1	0.0	0.0	5.7	0.2
Eaton	1,157	76.2	4.2	9.9	0.2	0.7	8.4	0.3
Emmet	696	84.3	0.4	3.2	2.0	0.4	9.5	0.1
Genesee	10,575	39.6	39.8	7.1	0.0	0.1	13.4	0.1
Gladwin	664	92.6	0.8	2.7	0.0	0.0	3.8	0.2
Gogebic	307	80.1	0.7	3.6	7.8	0.0	7.2	0.7
Gr Travers	1,563	77.9	0.8	9.8	0.6	0.3	10.4	0.3
Gratiot	948	76.9	0.0	17.0	0.0	0.0	6.1	0.0
Hillsdale	1,008	86.9	0.7	5.9	0.0	0.1	6.2	0.3
Houghton	710	89.9	0.7	2.3	0.4	1.0	5.8	0.0
Huron	633	88.8	0.0	7.1	0.0	0.0	4.1	0.0
Ingham	6,697	31.7	26.5	20.7	0.1	4.8	16.1	0.1
Ionia	1,437	78.3	0.1	14.0	0.0	0.0	7.6	0.0
Iosco	641	85.2	0.8	6.9	0.0	0.0	7.0	0.2
Iron	275	93.8	0.0	0.7	0.0	0.0	5.5	0.0
Isabella	1,325	74.1	2.4	7.3	2.6	0.5	13.0	0.0
Jackson	4,051	59.6	12.8	8.7	0.1	0.1	18.7	0.0
Kalamazoo	5,289	38.8	34.8	11.9	0.0	0.6	13.6	0.1
Kalkaska	417	90.2	0.0	2.4	0.0	0.2	7.0	0.2
Kent	14,152	26.8	25.4	33.4	0.1	4.7	9.5	0.1
Lake	245	62.4	10.6	6.5	0.0	0.0	20.4	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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#### Michigan

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#### Children Aged < 5 Years <sup>(2)</sup>

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<b>County</b>	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  %
Lapeer	1,702	75.2	0.5	17.1	0.1	0.3	6.8	0.0
Leelanau	203	51.2	0.5	30.5	7.4	0.0	10.3	0.0
Lenawee	1,716	62.0	1.9	25.1	0.1	0.0	10.9	0.1
Livingston	1,583	87.8	0.9	5.2	0.0	0.3	5.8	0.0
Luce	183	77.6	0.0	3.8	2.7	0.0	15.8	0.0
Mackinac	213	36.6	0.5	1.4	0.0	0.0	61.0	0.5
Macomb	12,251	52.9	24.2	5.2	0.1	6.6	10.8	0.2
Manistee	445	73.0	1.6	9.9	1.8	0.0	13.3	0.4
Marquette	1,017	82.0	0.7	3.4	1.7	0.2	11.9	0.1
Mason	612	76.1	0.2	14.9	0.0	0.3	8.3	0.2
Mecosta	987	82.9	3.0	5.8	0.0	0.3	7.8	0.2
Menominee	336	59.8	0.3	8.6	11.0	0.0	20.2	0.0
Midland	1,360	87.7	1.1	4.3	0.1	0.1	6.5	0.1
Missaukee	290	86.6	0.0	11.7	0.0	0.0	1.7	0.0
Monroe	2,575	72.0	5.1	9.0	0.0	0.2	13.4	0.2
Montcalm	1,352	87.1	0.2	8.1	0.0	0.1	4.4	0.1
Montmorenc	192	94.3	0.0	1.6	0.5	0.0	3.6	0.0
Muskegon	5,056	45.8	27.1	12.7	0.2	0.2	13.9	0.0
Newaygo	1,463	73.4	0.1	19.7	0.0	0.1	6.6	0.1
Oakland	14,070	37.5	37.4	13.0	0.1	1.8	10.1	0.1
Oceana	752	50.5	1.3	43.4	0.0	0.0	4.4	0.4

(1) Reporting period is January 1 through December 31

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(4) Prenatal program participation

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### Michigan

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### Children Aged < 5 Years <sup>(2)</sup>

Comparison of Racial and Ethnic Distribution								
County	Number Included in Analysis <sup>(3,4)</sup>	White, Not Hispanic %	Black, Not Hispanic %	Hispanic %	American Indian/Alaska Native %	Asian/Pacific Islander %	Multiple Races %	All Other/Unknown %
Ogemaw	564	83.9	0.0	8.2	0.0	0.0	7.8	0.2
Ontonagon	73	*	*	*	*	*	*	*
Osceola	576	88.0	0.3	4.5	0.0	0.0	7.1	0.0
Oscoda	215	88.4	0.0	7.0	0.0	0.0	4.7	0.0
Otsego	686	94.0	0.4	2.6	0.1	0.0	2.8	0.0
Ottawa	4,458	53.0	3.4	33.6	0.0	1.5	8.1	0.2
Presque Is	145	89.7	0.7	2.1	0.0	0.0	7.6	0.0
Roscommon	433	86.8	0.2	4.8	0.0	0.0	7.9	0.2
Saginaw	5,059	27.6	39.6	22.5	0.0	0.4	9.8	0.2
Sanilac	820	88.5	0.1	7.4	0.0	0.0	3.9	0.0
Schoolcraf	177	72.3	1.7	1.7	4.5	0.6	19.2	0.0
Shiawassee	1,593	81.6	0.6	8.2	0.1	0.1	9.2	0.2
St Clair	2,798	70.6	5.2	10.4	0.1	0.1	13.7	0.0
St Joseph	1,803	62.5	1.2	23.9	0.1	0.0	12.3	0.1
Tuscola	1,301	87.6	0.7	6.5	0.0	0.0	5.1	0.1
Van Buren	1,962	56.3	2.5	32.2	0.2	0.2	8.1	0.6
Washtenaw	4,115	31.9	38.1	12.0	0.0	1.9	15.8	0.3
<b>Wayne</b>	<b>53,559</b>	<b>26.1</b>	<b>55.5</b>	<b>10.8</b>	<b>0.1</b>	<b>2.8</b>	<b>4.6</b>	<b>0.1</b>
Wexford	1,099	88.1	0.2	4.7	0.0	0.1	6.8	0.1
<b>Michigan</b>	<b>205,794</b>	<b>46.9</b>	<b>28.1</b>	<b>13.3</b>	<b>0.3</b>	<b>2.0</b>	<b>9.3</b>	<b>0.1</b>

(1) Reporting period is January 1 through December 31

(2) Analyses based on one record per child

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### 2019 Pediatric Nutrition Surveillance <sup>(1)</sup>

### Michigan

### Comparison of Racial and Ethnic Distribution by County

### Children Aged < 5 Years <sup>(2)</sup>

<b>National (Prior Year)</b>	<b>740,937</b>	<b>38.8</b>	<b>22.4</b>	<b>23.6</b>	<b>1.0</b>	<b>2.7</b>	<b>6.4</b>	<b>5.1</b>
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#### Michigan

#### Comparison of Age Distribution by County

#### Children Aged < 5 Years <sup>(2)</sup>

Comparison of Age Distribution				
County	Number Included in Analysis (3,4)	0 - 11 Months %	12 - 23 Months %	24 - 59 Months %
Alcona	153	26.1	26.1	47.7
Alger	130	34.6	23.1	42.3
Allegan	2,115	29.5	22.8	47.7
Alpena	687	26.9	25.3	47.7
Antrim	418	28.2	21.1	50.7
Arenac	459	29.8	19.2	51.0
Baraga	182	32.4	19.2	48.4
Barry	984	31.6	20.4	48.0
Bay	2,281	26.3	25.3	48.3
Benzie	386	31.3	22.3	46.4
Berrien	3,679	36.7	17.5	45.8
Branch	1,256	33.8	22.7	43.6
Calhoun	3,772	31.0	21.3	47.8
Cass	1,353	29.2	22.6	48.2
Charlevoix	563	32.1	20.1	47.8
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Clare	836	31.8	19.5	48.7
Clinton	712	32.2	19.4	48.5
Crawford	372	25.5	24.5	50.0
Delta	855	30.8	22.0	47.3

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Huron	633	32.4	18.2	49.4
Ingham	6,697	35.7	19.3	45.0
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Iosco	641	31.7	21.5	46.8
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Livingston	1,583	32.4	21.4	46.2
Luce	183	31.7	24.0	44.3
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Manistee	445	28.3	23.8	47.9
Marquette	1,017	29.6	24.9	45.5
Mason	612	28.3	22.4	49.3
Mecosta	987	33.1	22.2	44.7
Menominee	336	38.7	19.6	41.7
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Missaukee	290	27.9	24.1	47.9
Monroe	2,575	33.3	19.7	47.0
Montcalm	1,352	35.8	20.0	44.2
Montmorenc	192	33.3	21.9	44.8
Muskegon	5,056	33.0	21.6	45.4
Newaygo	1,463	28.2	23.7	48.1
Oakland	14,070	35.0	19.3	45.7
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Oscoda	215	29.8	19.1	51.2
Otsego	686	34.3	17.9	47.8
Ottawa	4,458	29.2	23.0	47.8
Presque Is	145	24.1	23.4	52.4
Roscommon	433	35.3	21.0	43.6
Saginaw	5,059	36.5	19.7	43.8
Sanilac	820	33.0	19.0	47.9
Schoolcraf	177	28.2	25.4	46.3
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St Joseph	1,803	33.2	21.5	45.3
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Washtenaw	4,115	33.3	21.1	45.5
Wayne	53,559	36.5	19.4	44.1
Wexford	1,099	29.4	21.7	49.0
<b>Michigan</b>	<b>205,794</b>	<b>34.0</b>	<b>20.3</b>	<b>45.7</b>

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### 2019 Pediatric Nutrition Surveillance <sup>(1)</sup>

#### Michigan

#### Comparison of Age Distribution by County

#### Children Aged < 5 Years <sup>(2)</sup>

<b>National (Prior Year)</b>	<b>740,937</b>	<b>33.1</b>	<b>21.6</b>	<b>45.3</b>
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# WIC PNSS & PedNSS

## Table 6B 2019 Pediatric Nutrition Surveillance <sup>(1)</sup> Michigan

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

#### Comparison of Growth and Anemia Indicators <sup>(3,4)</sup>

County	Birth Weight <sup>(5)</sup>			Height and Weight <sup>(6,7)</sup>						Anemia Low Hb/Hct <sup>(8)</sup>		
	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	22	*	*	148	8.1 (59)	2.7 (50)	12.2 (49)	68	*	*	112	16.1 (65)
Alger	26	*	*	126	2.4 (1)	2.4 (41)	13.5 (64)	52	*	*	84	*
Allegan	429	8.6 (23)	10.0 (50)	2,068	5.4 (12)	2.7 (50)	11.8 (42)	951	15.8 (16)	14.5 (35)	1,431	18.2 (72)
Alpena	145	13.1 (56)	11.7 (55)	659	8.3 (62)	1.1 (5)	12.4 (53)	299	20.1 (61)	15.4 (43)	479	14.4 (59)
Antrim	79	*	*	413	5.1 (10)	5.1 (79)	11.4 (34)	209	20.6 (65)	15.8 (48)	273	8.4 (25)
Arenac	94	*	*	440	6.6 (34)	1.6 (17)	10.5 (18)	214	14.5 (4)	15.4 (43)	303	8.3 (23)
Baraga	36	*	*	179	6.7 (36)	2.2 (33)	11.7 (40)	86	*	*	112	13.4 (53)
Barry	193	8.8 (26)	9.8 (48)	957	7.0 (41)	1.6 (17)	10.1 (12)	442	17.6 (44)	11.5 (4)	636	4.2 (5)
Bay	460	9.3 (33)	7.2 (26)	2,225	7.2 (44)	1.4 (11)	12.1 (48)	1,036	18.1 (48)	17.1 (65)	1,620	9.3 (32)
Benzie	87	*	*	375	6.7 (36)	1.3 (8)	12.8 (58)	170	15.9 (17)	15.9 (50)	238	7.1 (20)
Berrien	867	9.1 (30)	4.5 (4)	3,601	6.4 (29)	3.6 (67)	10.7 (23)	1,606	16.6 (26)	14.2 (32)	2,351	11.4 (38)
Branch	305	9.2 (31)	9.5 (46)	1,213	7.3 (48)	3.7 (70)	10.2 (14)	506	16.6 (26)	13.2 (23)	737	14.2 (57)
Calhoun	824	10.0 (36)	7.2 (26)	3,664	7.9 (57)	2.8 (53)	13.9 (69)	1,675	17.4 (40)	17.0 (64)	2,513	15.2 (62)

(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

### 2019 Pediatric Nutrition Surveillance <sup>(1)</sup>

### Michigan

### Comparison of Growth and Anemia Indicators by County

### Children Aged < 5 Years <sup>(2)</sup>

#### Comparison of Growth and Anemia Indicators <sup>(3,4)</sup>

County	Birth Weight <sup>(5)</sup>			Height and Weight <sup>(6,7)</sup>							Anemia Low Hb/Hct <sup>(8)</sup>	
	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	289	7.3 (10)	6.6 (21)	1,315	5.2 (11)	2.2 (33)	11.8 (42)	611	16.5 (23)	15.5 (45)	879	16.6 (67)
Charlevoix	101	14.9 (59)	7.9 (37)	545	8.1 (59)	3.7 (70)	13.4 (63)	243	16.9 (32)	18.9 (70)	379	5.5 (10)
Cheboygan	123	9.8 (34)	6.5 (16)	461	6.5 (31)	2.0 (26)	11.1 (29)	196	23.0 (72)	15.3 (42)	284	21.5 (75)
Chippewa	176	8.5 (21)	13.6 (58)	827	7.3 (48)	3.4 (64)	14.5 (76)	388	17.5 (43)	16.2 (55)	494	16.0 (64)
Clare	194	6.7 (7)	3.6 (1)	819	6.5 (31)	3.8 (72)	8.7 (3)	374	20.6 (65)	12.8 (17)	566	6.2 (16)
Clinton	139	7.9 (16)	12.2 (56)	695	9.2 (75)	0.7 (2)	15.0 (78)	320	21.9 (70)	13.1 (21)	493	2.2 (2)
Crawford	74	*	*	349	7.2 (44)	1.4 (11)	14.0 (71)	158	18.4 (52)	18.4 (68)	273	17.6 (69)
Delta	190	11.6 (44)	5.8 (12)	832	8.5 (66)	1.3 (8)	11.4 (34)	389	15.7 (12)	12.3 (12)	579	9.2 (30)
Dickinson	114	11.4 (42)	10.5 (51)	556	4.5 (5)	2.3 (38)	11.9 (44)	267	17.2 (39)	15.0 (40)	361	16.3 (66)
Eaton	229	12.2 (49)	8.7 (43)	1,123	8.5 (66)	2.4 (41)	12.6 (56)	530	23.4 (73)	16.6 (62)	763	5.6 (11)
Emmet	153	8.5 (21)	6.5 (16)	681	9.0 (73)	3.5 (66)	10.1 (12)	313	19.2 (60)	11.8 (5)	464	6.0 (14)
Genesee	2,554	12.9 (54)	5.7 (10)	10,255	8.9 (72)	2.4 (41)	11.3 (33)	4,510	15.4 (8)	11.8 (5)	6,662	19.7 (73)
Gladwin	106	7.5 (11)	7.5 (30)	652	6.7 (36)	2.3 (38)	13.2 (62)	339	15.9 (17)	16.8 (63)	503	10.5 (35)
Gogebic	66	*	*	304	4.6 (7)	4.6 (78)	17.4 (81)	147	17.0 (33)	23.1 (73)	199	6.0 (14)

(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

### 2019 Pediatric Nutrition Surveillance <sup>(1)</sup>

#### Michigan

#### Comparison of Growth and Anemia Indicators by County

#### Children Aged < 5 Years <sup>(2)</sup>

#### Comparison of Growth and Anemia Indicators <sup>(3,4)</sup>

County	Birth Weight <sup>(5)</sup>			Height and Weight <sup>(6,7)</sup>						Anemia Low Hb/Hct <sup>(8)</sup>		
	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	369	7.6 (13)	13.8 (59)	1,415	4.7 (8)	4.2 (77)	11.4 (34)	690	19.1 (59)	13.6 (26)	959	17.8 (70)
Gratiot	202	6.4 (5)	11.4 (54)	924	6.8 (39)	2.1 (30)	12.9 (60)	417	16.5 (23)	17.7 (66)	649	1.8 (1)
Hillsdale	228	8.3 (19)	7.9 (37)	988	8.0 (58)	1.8 (21)	13.8 (68)	428	15.4 (8)	16.1 (52)	644	11.6 (40)
Houghton	133	7.5 (11)	12.8 (57)	677	8.7 (70)	1.6 (17)	10.9 (27)	320	15.9 (17)	13.1 (21)	471	5.3 (9)
Huron	127	11.8 (45)	9.4 (45)	615	8.8 (71)	3.1 (61)	13.5 (64)	297	15.5 (11)	12.8 (17)	439	4.3 (6)
Ingham	1,588	10.3 (38)	6.5 (16)	6,544	8.4 (63)	2.9 (58)	11.0 (28)	2,873	17.1 (35)	12.4 (13)	4,333	10.3 (34)
Ionia	308	10.1 (37)	7.8 (34)	1,404	6.1 (24)	3.4 (64)	11.5 (38)	662	18.9 (56)	14.7 (37)	996	5.6 (11)
Iosco	131	5.3 (1)	3.8 (2)	622	5.9 (22)	2.3 (38)	10.8 (24)	275	22.2 (71)	14.2 (32)	449	14.9 (60)
Iron	56	*	*	271	6.3 (28)	1.1 (5)	14.4 (75)	136	20.6 (65)	19.1 (71)	178	9.0 (28)
Isabella	322	10.6 (39)	6.5 (16)	1,287	7.7 (54)	2.6 (48)	12.0 (47)	521	18.6 (54)	18.8 (69)	850	7.1 (20)
Jackson	888	12.2 (49)	7.1 (25)	3,922	6.1 (24)	6.2 (81)	11.1 (29)	1,809	18.9 (56)	16.4 (58)	2,515	16.6 (67)
Kalamazoo	1,267	12.8 (53)	7.2 (26)	5,069	6.1 (24)	3.6 (67)	11.9 (44)	2,226	17.1 (35)	14.7 (37)	3,454	27.7 (79)
Kalkaska	87	*	*	393	8.4 (63)	2.8 (53)	11.7 (40)	191	16.2 (20)	12.0 (8)	287	11.5 (39)
Kent	3,088	13.0 (55)	5.6 (9)	13,802	9.0 (73)	2.1 (30)	11.9 (44)	6,160	16.6 (26)	14.0 (31)	9,385	10.8 (36)

(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

### 2019 Pediatric Nutrition Surveillance <sup>(1)</sup>

#### Michigan

#### Comparison of Growth and Anemia Indicators by County

#### Children Aged < 5 Years <sup>(2)</sup>

#### Comparison of Growth and Anemia Indicators <sup>(3,4)</sup>

County	Birth Weight <sup>(5)</sup>			Height and Weight <sup>(6,7)</sup>						Anemia Low Hb/Hct <sup>(8)</sup>		
	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	46	*	*	241	5.4 (12)	3.3 (62)	9.1 (5)	121	15.7 (12)	10.7 (2)	156	12.8 (48)
Lapeer	371	9.2 (31)	7.5 (30)	1,670	5.5 (14)	2.2 (33)	9.8 (8)	768	16.5 (23)	15.2 (41)	1,122	12.5 (45)
Leelanau	35	*	*	199	4.5 (5)	1.5 (14)	13.6 (67)	96	*	*	142	9.2 (30)
Lenawee	378	7.9 (16)	6.6 (21)	1,685	7.8 (56)	2.4 (41)	14.1 (74)	747	18.6 (54)	16.5 (59)	1,092	27.4 (78)
Livingston	320	13.1 (56)	6.6 (21)	1,549	8.6 (69)	2.0 (26)	9.2 (6)	694	17.1 (35)	12.7 (15)	1,102	8.3 (23)
Luce	41	*	*	180	2.8 (2)	3.3 (62)	7.8 (2)	70	*	*	124	5.6 (11)
Mackinac	44	*	*	208	3.8 (4)	3.8 (72)	10.6 (19)	111	11.7 (1)	12.6 (14)	150	2.7 (3)
Macomb	2,967	11.3 (41)	5.7 (10)	11,978	6.6 (34)	2.4 (41)	11.4 (34)	5,098	14.8 (5)	13.6 (26)	7,872	13.0 (50)
Manistee	96	*	*	434	7.1 (43)	1.8 (21)	10.8 (24)	205	17.1 (35)	13.7 (28)	303	13.5 (54)
Marquette	224	9.8 (34)	11.2 (52)	982	9.9 (80)	2.0 (26)	15.9 (80)	449	18.3 (50)	16.5 (59)	563	5.2 (8)
Mason	134	9.0 (27)	9.7 (47)	592	5.6 (18)	2.2 (33)	10.3 (15)	291	15.1 (6)	12.0 (8)	409	10.8 (36)
Mecosta	218	8.7 (25)	9.2 (44)	952	8.2 (61)	1.5 (14)	12.9 (60)	419	20.3 (64)	17.9 (67)	672	6.5 (17)
Menominee	88	*	*	328	9.5 (77)	3.0 (59)	14.0 (71)	125	17.6 (44)	16.0 (51)	201	9.0 (28)
Midland	301	8.0 (18)	11.3 (53)	1,329	9.7 (78)	1.4 (11)	15.6 (79)	575	18.3 (50)	14.6 (36)	835	14.9 (60)

(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

### 2019 Pediatric Nutrition Surveillance <sup>(1)</sup>

#### Michigan

#### Comparison of Growth and Anemia Indicators by County

#### Children Aged < 5 Years <sup>(2)</sup>

#### Comparison of Growth and Anemia Indicators <sup>(3,4)</sup>

County	Birth Weight <sup>(5)</sup>			Height and Weight <sup>(6,7)</sup>						Anemia Low Hb/Hct <sup>(8)</sup>		
	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	55	*	*	282	5.0 (9)	0.4 (1)	13.5 (64)	137	15.3 (7)	16.1 (52)	198	11.6 (40)
Monroe	600	11.8 (45)	6.8 (24)	2,504	7.7 (54)	2.6 (48)	10.8 (24)	1,112	17.4 (40)	14.4 (34)	1,668	14.3 (58)
Montcalm	302	8.6 (23)	7.6 (32)	1,312	9.2 (75)	1.8 (21)	10.6 (19)	562	16.4 (22)	12.8 (17)	928	3.0 (4)
Montmorenc	45	*	*	188	7.4 (50)	1.6 (17)	11.2 (32)	84	*	*	132	12.9 (49)
Muskegon	1,212	10.8 (40)	4.5 (4)	4,885	8.5 (66)	2.4 (41)	12.2 (49)	2,173	16.3 (21)	13.8 (29)	3,305	15.6 (63)
Newaygo	325	7.1 (9)	8.3 (39)	1,429	5.9 (22)	1.5 (14)	12.5 (54)	689	18.4 (52)	15.8 (48)	1,016	11.9 (42)
Oakland	3,099	12.3 (52)	6.4 (14)	13,702	7.4 (50)	2.8 (53)	10.0 (10)	6,045	15.4 (8)	12.7 (15)	9,241	21.1 (74)
Oceana	136	5.9 (2)	5.1 (8)	735	7.5 (53)	1.8 (21)	12.2 (49)	380	21.3 (69)	16.1 (52)	545	12.1 (44)
Ogemaw	116	6.0 (4)	7.8 (34)	554	7.2 (44)	1.3 (8)	13.9 (69)	259	17.4 (40)	13.9 (30)	387	7.8 (22)
Ontonagon	16	*	*	70	*	*	*	31	*	*	51	*
Osceola	109	11.9 (47)	7.3 (29)	556	5.6 (18)	4.0 (74)	9.7 (7)	254	15.7 (12)	13.4 (24)	392	13.5 (54)
Oscoda	36	*	*	206	9.7 (78)	1.0 (4)	12.6 (56)	100	17.0 (33)	13.0 (20)	144	9.7 (33)
Otsego	141	7.8 (15)	7.8 (34)	663	5.6 (18)	5.9 (80)	12.8 (58)	318	18.9 (56)	15.7 (47)	416	12.7 (46)
Ottawa	1,028	7.6 (13)	8.6 (41)	4,351	5.7 (21)	2.7 (50)	10.6 (19)	2,023	15.7 (12)	12.2 (10)	2,973	30.2 (80)

(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

### 2019 Pediatric Nutrition Surveillance <sup>(1)</sup>

#### Michigan

#### Comparison of Growth and Anemia Indicators by County

#### Children Aged < 5 Years <sup>(2)</sup>

#### Comparison of Growth and Anemia Indicators <sup>(3,4)</sup>

County	Birth Weight <sup>(5)</sup>			Height and Weight <sup>(6,7)</sup>						Anemia Low Hb/Hct <sup>(8)</sup>		
	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	21	*	*	144	2.8 (2)	2.8 (53)	12.5 (54)	69	*	*	114	21.9 (76)
Roscommon	98	*	*	422	5.5 (14)	2.1 (30)	6.9 (1)	183	13.7 (2)	9.3 (1)	284	8.8 (26)
Saginaw	1,233	12.2 (49)	4.4 (3)	4,909	5.5 (14)	4.0 (74)	10.4 (16)	2,120	16.8 (31)	13.4 (24)	3,350	12.7 (46)
Sanilac	190	12.1 (48)	5.8 (12)	783	13.7 (81)	0.8 (3)	14.9 (77)	361	20.2 (62)	21.3 (72)	524	13.2 (52)
Schoolcraf	38	*	*	170	6.5 (31)	4.1 (76)	10.0 (10)	77	*	*	117	5.1 (7)
Shiawassee	359	8.4 (20)	6.4 (14)	1,554	5.5 (14)	2.4 (41)	11.1 (29)	736	17.8 (46)	15.5 (45)	1,088	6.6 (18)
St Clair	687	6.4 (5)	8.6 (41)	2,708	7.2 (44)	2.2 (33)	11.5 (38)	1,164	20.6 (65)	16.2 (55)	1,812	8.8 (26)
St Joseph	413	9.0 (27)	6.5 (16)	1,769	8.4 (63)	1.8 (21)	12.3 (52)	791	18.2 (49)	16.3 (57)	1,231	11.9 (42)
Tuscola	278	9.0 (27)	8.3 (39)	1,273	7.0 (41)	2.8 (53)	10.6 (19)	585	17.8 (46)	14.7 (37)	898	6.9 (19)
Van Buren	438	6.8 (8)	9.8 (48)	1,910	6.4 (29)	2.0 (26)	14.0 (71)	903	16.7 (30)	16.5 (59)	1,293	13.0 (50)
Washtenaw	958	11.4 (42)	5.0 (7)	4,006	6.2 (27)	3.0 (59)	8.8 (4)	1,761	16.6 (26)	11.9 (7)	2,792	18.1 (71)
Wayne	13,231	13.4 (58)	4.5 (4)	51,840	6.8 (39)	3.6 (67)	9.9 (9)	22,214	14.4 (3)	12.2 (10)	33,674	23.4 (77)
Wexford	238	5.9 (2)	7.6 (32)	1,056	7.4 (50)	1.1 (5)	10.4 (16)	501	20.2 (62)	11.4 (3)	737	14.0 (56)

(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 PNSS & PedNSS

## Table 6B

### 2019 Pediatric Nutrition Surveillance <sup>(1)</sup>

### Michigan

### Comparison of Growth and Anemia Indicators by County

### Children Aged < 5 Years <sup>(2)</sup>

<b>Michigan</b>	<b>47,554</b>	<b>11.3</b>	<b>6.2</b>	<b>199,797</b>	<b>7.2</b>	<b>2.9</b>	<b>11.1</b>	<b>88,540</b>	<b>16.3</b>	<b>13.7</b>	<b>133,482</b>	<b>16.7</b>
<b>National (Prior Year)</b>	<b>163,620</b>	<b>10.7</b>	<b>6.2</b>	<b>677,596</b>	<b>7.8</b>	<b>3.0</b>	<b>10.9</b>	<b>285,236</b>	<b>16.1</b>	<b>13.6</b>	<b>482,395</b>	<b>16.2</b>

(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

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# WIC PNSS & PedNSS

## Table 7B

### 2019 Pediatric Nutrition Surveillance <sup>(1)</sup>

#### Michigan

#### Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County <sup>(2)</sup>

#### Children Aged < 5 Years <sup>(3)</sup>

#### Comparison of Breastfeeding, TV Viewing, and Smoking in Household <sup>(4,5)</sup>

County	Breastfeeding <sup>(6)</sup>				Exclusive Breastfeeding <sup>(7)</sup>				≤ 2 Hours TV Viewing/Day <sup>(8)</sup>		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	22	*	30	*	28	*	22	*	27	*	77	*	153	2.6 (29)
Alger	26	*	25	*	17	*	19	*	22	*	59	*	129	4.7 (65)
Allegan	438	79.7 (18)	340	30.9 (45)	377	14.6 (32)	235	23.8 (17)	289	11.8 (21)	1,033	92.1 (9)	2,098	1.5 (9)
Alpena	145	73.1 (36)	100	32.0 (40)	123	13.0 (40)	66	*	84	*	356	81.7 (59)	687	4.2 (57)
Antrim	83	*	76	*	66	*	49	*	63	*	225	83.6 (55)	417	7.9 (79)
Arenac	95	*	92	*	80	*	63	*	78	*	241	86.7 (39)	458	5.9 (70)
Baraga	37	*	34	*	19	*	24	*	29	*	92	*	179	2.8 (35)
Barry	195	79.5 (19)	190	38.9 (16)	159	16.4 (20)	103	28.2 (6)	162	9.9 (32)	495	91.3 (12)	982	2.0 (19)
Bay	461	61.4 (53)	267	27.0 (50)	406	13.1 (39)	145	23.4 (19)	254	3.5 (47)	1,163	88.8 (28)	2,280	3.3 (41)
Benzie	87	*	50	*	61	*	32	*	41	*	188	84.0 (52)	386	6.2 (73)
Berrien	871	72.0 (40)	619	33.6 (36)	421	14.0 (34)	477	21.8 (23)	519	10.4 (30)	1,727	78.2 (69)	3,665	4.0 (52)
Branch	309	71.8 (41)	220	35.9 (27)	246	17.5 (14)	160	25.6 (12)	189	14.8 (14)	567	81.5 (60)	1,251	3.9 (51)
Calhoun	828	72.2 (39)	659	34.3 (33)	653	15.3 (27)	427	23.7 (18)	513	11.1 (25)	1,851	88.3 (31)	3,752	1.8 (16)

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

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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.

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# WIC PNSS & PedNSS

## Table 7B

### 2019 Pediatric Nutrition Surveillance <sup>(1)</sup>

#### Michigan

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#### Children Aged < 5 Years <sup>(3)</sup>

#### Comparison of Breastfeeding, TV Viewing, and Smoking in Household <sup>(4,5)</sup>

County	Breastfeeding <sup>(6)</sup>				Exclusive Breastfeeding <sup>(7)</sup>				≤ 2 Hours TV Viewing/Day <sup>(8)</sup>		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	288	71.5 (42)	221	41.6 (9)	232	16.4 (20)	155	20.0 (26)	175	16.0 (9)	679	93.7 (5)	1,343	2.1 (22)
Charlevoix	110	90.0 (1)	93	*	94	*	53	*	70	*	270	86.3 (43)	561	2.0 (19)
Cheboygan	123	73.2 (35)	79	*	82	*	52	*	65	*	223	85.2 (48)	477	4.2 (57)
Chippewa	176	59.1 (56)	124	35.5 (30)	129	18.6 (9)	85	*	114	23.7 (1)	439	90.7 (16)	856	7.9 (79)
Clare	194	76.3 (27)	151	31.1 (44)	133	12.8 (42)	108	21.3 (24)	128	10.9 (26)	426	89.2 (27)	834	6.5 (74)
Clinton	139	83.5 (8)	112	32.1 (39)	102	14.7 (30)	66	*	93	*	357	86.8 (37)	707	1.7 (14)
Crawford	74	*	47	*	65	*	31	*	40	*	192	79.7 (65)	372	3.2 (40)
Delta	193	76.7 (25)	146	38.4 (20)	163	14.7 (30)	114	26.3 (11)	125	13.6 (16)	436	88.5 (30)	853	3.3 (41)
Dickinson	115	71.3 (43)	74	*	104	19.2 (7)	50	*	67	*	292	89.7 (24)	566	0.9 (2)
Eaton	240	81.3 (12)	219	47.5 (5)	189	19.0 (8)	127	15.7 (36)	172	9.3 (35)	590	82.0 (58)	1,153	2.1 (22)
Emmet	154	85.1 (6)	141	57.4 (1)	90	*	88	*	111	20.7 (3)	351	86.3 (43)	695	3.6 (46)
Genesee	2,565	54.0 (59)	1,947	25.5 (51)	1,503	10.4 (48)	1,376	11.6 (39)	1,560	7.6 (40)	4,984	84.5 (51)	10,514	2.7 (31)
Gladwin	106	84.9 (7)	116	40.5 (12)	126	17.5 (14)	54	*	95	*	377	89.4 (26)	663	4.5 (60)

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# WIC PNSS & PedNSS

## Table 7B

### 2019 Pediatric Nutrition Surveillance <sup>(1)</sup>

#### Michigan

#### Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County <sup>(2)</sup>

#### Children Aged < 5 Years <sup>(3)</sup>

#### Comparison of Breastfeeding, TV Viewing, and Smoking in Household <sup>(4,5)</sup>

County	Breastfeeding <sup>(6)</sup>				Exclusive Breastfeeding <sup>(7)</sup>				≤ 2 Hours TV Viewing/Day <sup>(8)</sup>		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	66	*	55	*	39	*	38	*	49	*	159	83.6 (55)	307	2.9 (36)
Gr Travers	371	81.7 (10)	235	51.1 (3)	262	25.2 (4)	136	34.6 (1)	180	10.6 (29)	775	91.0 (14)	1,561	1.2 (5)
Gratiot	203	86.2 (3)	169	37.9 (22)	146	17.8 (12)	96	*	144	11.8 (21)	466	83.9 (53)	939	2.4 (27)
Hillsdale	228	79.8 (17)	181	33.1 (37)	149	13.4 (37)	125	27.2 (7)	152	15.1 (12)	485	86.0 (46)	1,005	5.2 (67)
Houghton	133	87.2 (2)	119	51.3 (2)	119	30.3 (1)	80	*	105	22.9 (2)	376	93.9 (4)	710	1.1 (4)
Huron	128	78.1 (23)	131	47.3 (6)	66	*	81	*	106	6.6 (42)	341	87.7 (33)	632	5.2 (67)
Ingham	1,608	76.1 (28)	1,151	40.7 (11)	954	17.9 (11)	834	19.9 (27)	935	11.4 (23)	3,133	89.6 (25)	6,567	1.6 (12)
Ionia	311	81.0 (14)	252	35.7 (28)	253	18.6 (9)	166	24.7 (14)	219	11.9 (19)	743	87.1 (36)	1,435	1.7 (14)
Iosco	133	59.4 (55)	117	34.2 (34)	123	13.0 (40)	76	*	97	*	313	91.7 (10)	640	3.1 (39)
Iron	56	*	36	*	43	*	32	*	31	*	150	90.7 (16)	275	6.5 (74)
Isabella	324	74.7 (32)	251	38.6 (18)	250	15.2 (28)	170	24.1 (15)	209	9.6 (34)	592	90.7 (16)	1,322	2.6 (29)
Jackson	891	69.8 (46)	826	36.9 (25)	707	11.5 (44)	473	22.0 (22)	661	13.6 (16)	2,033	78.3 (68)	4,046	4.1 (54)
Kalamazoo	1,291	70.3 (45)	904	31.4 (43)	731	13.5 (36)	631	21.1 (25)	771	7.5 (41)	2,346	79.4 (67)	5,276	2.2 (24)

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# WIC PNSS & PedNSS

## Table 7B

### 2019 Pediatric Nutrition Surveillance <sup>(1)</sup>

#### Michigan

#### Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County <sup>(2)</sup>

#### Children Aged < 5 Years <sup>(3)</sup>

#### Comparison of Breastfeeding, TV Viewing, and Smoking in Household <sup>(4,5)</sup>

County	Breastfeeding <sup>(6)</sup>				Exclusive Breastfeeding <sup>(7)</sup>				≤ 2 Hours TV Viewing/Day <sup>(8)</sup>		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	88	*	70	*	61	*	43	*	58	*	193	83.9 (53)	417	6.5 (74)
Kent	3,108	74.5 (33)	2,840	30.6 (46)	2,291	15.1 (29)	1,894	15.4 (37)	2,365	8.8 (37)	6,814	86.6 (40)	14,049	1.3 (6)
Lake	46	*	30	*	35	*	27	*	27	*	135	75.6 (72)	245	6.1 (72)
Lapeer	373	78.6 (21)	340	38.5 (19)	294	16.0 (23)	228	19.3 (28)	295	10.2 (31)	831	90.6 (19)	1,701	0.6 (1)
Leelanau	35	*	27	*	27	*	17	*	19	*	108	75.9 (71)	203	1.5 (9)
Lenawee	378	72.5 (38)	323	30.3 (47)	261	16.1 (22)	245	25.3 (13)	291	12.7 (18)	811	80.6 (63)	1,709	3.3 (41)
Livingston	322	81.4 (11)	303	33.7 (35)	260	16.9 (16)	217	24.0 (16)	270	15.2 (11)	763	91.6 (11)	1,583	1.5 (9)
Luce	41	*	41	*	40	*	33	*	37	*	81	*	183	2.7 (31)
Mackinac	43	*	21	*	26	*	9	*	19	*	127	70.9 (74)	210	2.9 (36)
Macomb	3,008	61.8 (52)	2,130	25.5 (51)	2,125	11.2 (46)	1,611	14.6 (38)	1,865	8.1 (39)	5,496	79.5 (66)	12,197	1.9 (18)
Manistee	96	*	64	*	87	*	46	*	59	*	227	92.5 (8)	444	4.5 (60)
Marquette	225	86.2 (3)	167	38.3 (21)	181	16.6 (19)	96	*	134	14.9 (13)	477	94.1 (3)	1,009	2.5 (28)
Mason	135	74.1 (34)	78	*	97	*	66	*	71	*	317	86.4 (42)	608	4.6 (63)

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# WIC PNSS & PedNSS

## Table 7B

### 2019 Pediatric Nutrition Surveillance <sup>(1)</sup>

### Michigan

### Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County <sup>(2)</sup>

### Children Aged < 5 Years <sup>(3)</sup>

### Comparison of Breastfeeding, TV Viewing, and Smoking in Household <sup>(4,5)</sup>

County	Breastfeeding <sup>(6)</sup>				Exclusive Breastfeeding <sup>(7)</sup>				≤ 2 Hours TV Viewing/Day <sup>(8)</sup>		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	220	64.5 (50)	189	34.4 (32)	196	16.8 (17)	135	19.3 (28)	166	10.8 (28)	470	90.2 (23)	985	3.0 (38)
Menominee	88	*	64	*	47	*	53	*	57	*	144	90.3 (21)	334	4.5 (60)
Midland	302	82.8 (9)	258	37.2 (24)	191	26.2 (2)	215	31.6 (2)	222	19.8 (4)	641	90.3 (21)	1,321	2.0 (19)
Missaukee	55	*	46	*	59	*	31	*	42	*	152	90.8 (15)	290	5.9 (70)
Monroe	605	62.5 (51)	482	25.5 (51)	406	11.1 (47)	333	16.8 (34)	417	6.5 (43)	1,248	90.6 (19)	2,565	4.1 (54)
Montcalm	302	85.8 (5)	241	42.3 (8)	192	14.6 (32)	160	26.9 (9)	197	16.8 (7)	635	83.6 (55)	1,349	3.8 (49)
Montmorenc	45	*	38	*	39	*	24	*	33	*	91	*	192	9.4 (81)
Muskegon	1,216	66.6 (47)	803	28.8 (48)	841	9.9 (49)	527	19.0 (30)	643	8.4 (38)	2,359	76.4 (70)	5,044	4.0 (52)
Newaygo	325	78.5 (22)	178	32.0 (40)	267	17.6 (13)	109	29.4 (3)	157	15.3 (10)	748	93.0 (7)	1,463	1.3 (6)
Oakland	3,158	70.9 (44)	2,547	31.7 (42)	1,877	13.3 (38)	1,988	17.7 (31)	2,214	10.9 (26)	6,704	81.4 (61)	13,942	1.8 (16)
Oceana	136	75.0 (29)	108	38.9 (16)	131	16.0 (23)	64	*	92	*	411	86.6 (40)	749	2.7 (31)
Ogemaw	116	75.0 (29)	101	39.6 (15)	86	*	70	*	85	*	291	85.2 (48)	563	7.1 (78)
Ontonagon	16	*	14	*	17	*	4	*	10	*	37	*	72	*

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#### Michigan

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#### Children Aged < 5 Years <sup>(3)</sup>

#### Comparison of Breastfeeding, TV Viewing, and Smoking in Household <sup>(4,5)</sup>

County	Breastfeeding <sup>(6)</sup>				Exclusive Breastfeeding <sup>(7)</sup>				≤ 2 Hours TV Viewing/Day <sup>(8)</sup>		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	112	76.8 (24)	115	37.4 (23)	107	19.6 (6)	62	*	92	*	293	85.3 (47)	575	5.6 (69)
Oscoda	36	*	38	*	28	*	33	*	36	*	115	91.3 (12)	215	3.7 (47)
Otsego	160	73.1 (36)	105	47.6 (4)	82	*	71	*	87	*	345	88.7 (29)	682	3.8 (49)
Ottawa	1,045	78.7 (20)	598	39.8 (14)	740	15.7 (25)	368	29.1 (4)	463	17.1 (6)	2,136	94.2 (2)	4,401	1.4 (8)
Presque Is	21	*	29	*	32	*	15	*	24	*	77	*	145	4.1 (54)
Roscommon	98	*	94	*	88	*	62	*	79	*	201	87.6 (34)	432	6.9 (77)
Saginaw	1,236	61.4 (53)	928	21.7 (55)	747	8.2 (52)	708	11.4 (40)	819	5.1 (45)	2,254	80.7 (62)	4,954	2.7 (31)
Sanilac	191	57.1 (57)	141	32.6 (38)	115	11.3 (45)	107	27.1 (8)	127	18.1 (5)	413	93.2 (6)	817	3.5 (44)
Schoolcraf	38	*	36	*	29	*	21	*	32	*	89	*	176	2.3 (25)
Shiawassee	359	76.6 (26)	280	35.7 (28)	279	16.8 (17)	199	17.1 (33)	233	9.0 (36)	798	86.1 (45)	1,584	4.3 (59)
St Clair	693	66.2 (49)	548	28.8 (48)	498	12.4 (43)	345	16.5 (35)	471	11.3 (24)	1,323	80.3 (64)	2,798	5.0 (66)
St Joseph	417	81.1 (13)	332	34.9 (31)	288	15.6 (26)	227	26.9 (9)	258	9.7 (33)	866	87.5 (35)	1,794	2.3 (25)
Tuscola	279	79.9 (16)	240	36.3 (26)	228	14.0 (34)	167	17.4 (32)	201	4.0 (46)	650	88.3 (31)	1,299	3.5 (44)

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# WIC PNSS & PedNSS

## Table 7B

### 2019 Pediatric Nutrition Surveillance <sup>(1)</sup>

#### Michigan

#### Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County <sup>(2)</sup>

#### Children Aged < 5 Years <sup>(3)</sup>

#### Comparison of Breastfeeding, TV Viewing, and Smoking in Household <sup>(4,5)</sup>

County	Breastfeeding <sup>(6)</sup>				Exclusive Breastfeeding <sup>(7)</sup>				≤ 2 Hours TV Viewing/Day <sup>(8)</sup>		Smoking in Household			
	Number	% Ever Breastfed (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% (Rank)		
Van Buren	445	66.3 (48)	328	40.5 (12)	322	9.9 (49)	232	23.3 (20)	268	11.9 (19)	994	95.2 (1)	1,947	1.0 (3)
Washtenaw	962	80.5 (15)	732	43.7 (7)	646	20.6 (5)	558	23.1 (21)	607	14.8 (14)	1,950	85.0 (50)	4,088	1.6 (12)
Wayne	13,472	55.4 (58)	9,354	24.7 (54)	7,820	8.5 (51)	6,916	9.1 (41)	8,076	5.2 (44)	24,483	71.3 (73)	53,229	3.7 (47)
Wexford	239	74.9 (31)	174	41.4 (10)	189	25.9 (3)	112	28.6 (5)	143	16.8 (7)	567	86.8 (37)	1,098	4.6 (63)
<b>Michigan</b>	<b>48,135</b>	<b>66.7</b>	<b>36,196</b>	<b>31.1</b>	<b>31,898</b>	<b>13.0</b>	<b>25,587</b>	<b>17.0</b>	<b>30,625</b>	<b>9.3</b>	<b>97,509</b>	<b>81.7</b>	<b>204,521</b>	<b>2.9</b>
<b>National (Prior Year)</b>	<b>173,458</b>	<b>71.3</b>	<b>97,325</b>	<b>34.7</b>	<b>100,205</b>	<b>24.4</b>	<b>65,188</b>	<b>17.4</b>	<b>78,226</b>	<b>7.7</b>	<b>300,228</b>	<b>81.9</b>	<b>684,720</b>	<b>3.9</b>

(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

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



# WIC PNSS & PedNSS

## Table 6B

### 2017 - 2019 Pediatric Nutrition Surveillance <sup>(1)</sup>

#### Michigan

#### Comparison of Growth and Anemia Indicators by County

#### Children Aged < 5 Years <sup>(2)</sup>

#### Combined 3 Years

### Comparison of Growth and Anemia Indicators <sup>(3,4)</sup>

County	Birth Weight <sup>(5)</sup>			Height and Weight <sup>(6,7)</sup>						Anemia Low Hb/Hct <sup>(8)</sup>		
	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	94	*	*	477	8.2 (66)	2.7 (46)	9.6 (7)	222	14.9 (5)	12.6 (14)	334	18.3 (63)
Alger	91	*	*	366	7.4 (50)	2.5 (38)	13.7 (72)	149	20.8 (75)	20.1 (79)	239	18.8 (64)
Allegan	2,045	9.9 (51)	9.3 (54)	9,272	6.0 (21)	2.8 (48)	11.8 (50)	4,220	17.0 (36)	14.2 (37)	6,377	29.2 (80)
Alpena	436	10.1 (54)	11.2 (73)	2,026	8.4 (70)	1.7 (8)	13.1 (69)	888	18.6 (61)	17.7 (74)	1,459	18.1 (59)
Antrim	266	6.8 (9)	10.9 (70)	1,364	5.9 (16)	5.6 (80)	11.6 (45)	677	16.8 (30)	14.3 (38)	916	11.5 (27)
Arenac	284	10.2 (57)	8.8 (52)	1,304	5.6 (7)	1.8 (12)	10.0 (15)	629	16.9 (35)	14.9 (46)	895	10.3 (22)
Baraga	118	7.6 (15)	9.3 (54)	590	5.9 (16)	1.7 (8)	16.9 (82)	289	24.6 (81)	21.1 (80)	397	14.9 (43)
Barry	624	9.3 (41)	9.9 (61)	3,056	6.7 (32)	2.4 (35)	9.7 (10)	1,377	17.2 (40)	11.4 (2)	2,010	9.3 (15)
Bay	1,502	8.1 (25)	8.7 (50)	6,937	7.7 (55)	1.5 (5)	12.8 (64)	3,074	18.4 (57)	17.2 (72)	4,926	11.0 (25)
Benzie	237	6.8 (9)	10.5 (67)	1,067	6.6 (29)	2.6 (43)	11.6 (45)	478	17.4 (47)	15.5 (51)	702	13.4 (38)
Berrien	2,514	9.5 (47)	6.5 (11)	10,388	7.2 (46)	3.5 (66)	10.4 (21)	4,379	17.3 (43)	13.5 (27)	6,882	16.0 (50)
Branch	913	7.3 (12)	8.1 (40)	3,792	8.8 (75)	2.8 (48)	12.9 (66)	1,634	16.8 (30)	14.5 (42)	2,397	7.1 (5)
Calhoun	2,607	10.1 (54)	7.3 (25)	11,686	7.7 (55)	3.0 (59)	13.7 (72)	5,347	17.3 (43)	16.0 (58)	8,178	21.9 (72)
Cass	930	7.8 (19)	8.3 (42)	4,469	5.2 (3)	2.2 (25)	12.6 (60)	2,168	17.3 (43)	16.4 (62)	3,071	21.1 (71)

(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

### 2017 - 2019 Pediatric Nutrition Surveillance <sup>(1)</sup>

#### Michigan

#### Comparison of Growth and Anemia Indicators by County

#### Children Aged < 5 Years <sup>(2)</sup>

#### Combined 3 Years

#### Comparison of Growth and Anemia Indicators <sup>(3,4)</sup>

County	Birth Weight <sup>(5)</sup>			Height and Weight <sup>(6,7)</sup>						Anemia Low Hb/Hct <sup>(8)</sup>		
	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	347	10.1 (54)	7.8 (31)	1,759	7.3 (48)	3.7 (73)	11.3 (42)	783	17.6 (50)	15.7 (55)	1,210	7.4 (6)
Cheboygan	369	10.0 (53)	7.9 (35)	1,408	6.0 (21)	3.6 (70)	10.5 (23)	607	21.9 (78)	15.2 (49)	889	19.9 (66)
Chippewa	587	8.0 (22)	11.2 (73)	2,660	6.8 (37)	3.6 (70)	14.4 (76)	1,223	17.3 (43)	16.4 (62)	1,659	23.3 (74)
Clare	559	7.3 (12)	7.0 (18)	2,486	6.7 (32)	3.0 (59)	9.3 (5)	1,118	20.1 (73)	13.1 (20)	1,717	10.2 (21)
Clinton	460	10.4 (59)	10.7 (69)	2,140	9.3 (80)	1.4 (4)	12.1 (55)	896	19.3 (70)	13.7 (29)	1,492	4.9 (3)
Crawford	224	8.0 (22)	12.5 (77)	953	6.7 (32)	2.8 (48)	10.8 (31)	416	17.5 (49)	14.4 (39)	692	18.2 (61)
Delta	592	9.3 (41)	7.9 (35)	2,681	7.8 (58)	1.9 (15)	10.1 (17)	1,246	16.4 (20)	11.2 (1)	1,848	8.3 (8)
Dickinson	375	9.3 (41)	7.2 (23)	1,792	5.9 (16)	2.7 (46)	10.2 (18)	820	16.2 (18)	13.0 (17)	1,182	20.6 (69)
Eaton	775	9.4 (44)	8.1 (40)	3,627	8.1 (63)	2.5 (38)	13.0 (67)	1,623	22.5 (79)	17.1 (70)	2,391	8.4 (9)
Emmet	480	9.0 (37)	8.5 (45)	2,185	8.4 (70)	3.5 (66)	10.2 (18)	1,027	16.8 (30)	11.6 (4)	1,520	9.4 (17)
Genesee	7,757	13.0 (77)	5.4 (7)	31,154	9.2 (79)	2.6 (43)	11.1 (37)	13,168	15.7 (14)	12.3 (11)	20,253	22.3 (73)
Gladwin	371	8.4 (31)	8.6 (48)	1,982	7.1 (44)	2.2 (25)	11.9 (53)	963	15.6 (13)	15.9 (57)	1,453	9.8 (19)
Gogebic	215	6.5 (6)	8.8 (52)	976	5.7 (9)	3.5 (66)	14.0 (74)	448	15.4 (9)	19.4 (77)	634	7.6 (7)
Gr Travers	1,247	9.5 (47)	11.1 (72)	4,591	4.7 (2)	6.1 (81)	9.5 (6)	1,997	19.8 (72)	12.6 (14)	2,931	19.5 (65)

(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

### 2017 - 2019 Pediatric Nutrition Surveillance <sup>(1)</sup>

#### Michigan

#### Comparison of Growth and Anemia Indicators by County

#### Children Aged < 5 Years <sup>(2)</sup>

#### Combined 3 Years

#### Comparison of Growth and Anemia Indicators <sup>(3,4)</sup>

County	Birth Weight <sup>(5)</sup>			Height and Weight <sup>(6,7)</sup>						Anemia Low Hb/Hct <sup>(8)</sup>		
	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	614	8.3 (30)	9.4 (57)	2,861	7.1 (44)	2.2 (25)	11.6 (45)	1,272	17.1 (39)	16.5 (64)	2,015	3.4 (1)
Hillsdale	730	6.7 (7)	7.9 (35)	3,218	8.3 (67)	1.5 (5)	11.8 (50)	1,376	16.4 (20)	14.1 (36)	2,081	14.3 (41)
Houghton	473	6.1 (5)	10.1 (65)	2,161	8.3 (67)	1.8 (12)	10.0 (15)	962	15.9 (16)	11.5 (3)	1,432	8.4 (9)
Huron	407	9.6 (49)	12.0 (76)	1,964	8.5 (73)	2.3 (31)	14.1 (75)	849	16.8 (30)	14.4 (39)	1,391	9.3 (15)
Ingham	4,805	10.7 (61)	6.6 (13)	19,476	8.1 (63)	3.2 (62)	10.4 (21)	8,267	16.5 (22)	13.0 (17)	12,878	13.1 (37)
Ionia	977	10.2 (57)	6.8 (16)	4,434	5.6 (7)	4.2 (76)	11.7 (48)	1,976	19.0 (65)	14.6 (43)	3,156	10.3 (22)
Iosco	447	8.5 (33)	7.8 (31)	1,875	7.0 (42)	2.8 (48)	11.0 (36)	776	17.9 (53)	14.8 (45)	1,282	20.0 (67)
Iron	166	11.4 (70)	8.4 (44)	784	6.4 (27)	2.8 (48)	14.5 (78)	370	19.7 (71)	20.0 (78)	534	11.6 (28)
Isabella	989	9.2 (40)	7.1 (21)	4,018	7.7 (55)	2.9 (57)	11.8 (50)	1,659	17.8 (52)	16.5 (64)	2,612	11.6 (28)
Jackson	2,781	11.0 (63)	6.9 (17)	12,185	5.8 (11)	6.1 (81)	10.6 (26)	5,522	18.4 (57)	15.8 (56)	8,026	20.6 (69)
Kalamazoo	3,859	11.3 (69)	7.6 (29)	16,587	5.8 (11)	3.7 (73)	11.2 (39)	7,290	17.4 (47)	13.8 (31)	11,453	32.0 (81)
Kalkaska	267	11.2 (67)	6.7 (15)	1,143	7.8 (58)	2.2 (25)	10.5 (23)	526	16.2 (18)	12.4 (12)	813	17.0 (56)
Kent	9,816	11.8 (71)	6.5 (11)	44,036	9.0 (78)	2.2 (25)	11.2 (39)	19,419	15.9 (16)	13.2 (22)	29,795	15.5 (47)
Lake	152	12.5 (75)	3.3 (1)	752	8.0 (61)	2.9 (57)	9.6 (7)	344	17.2 (40)	13.1 (20)	527	17.6 (58)

(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

### 2017 - 2019 Pediatric Nutrition Surveillance <sup>(1)</sup>

### Michigan

### Comparison of Growth and Anemia Indicators by County

#### Children Aged < 5 Years <sup>(2)</sup>

#### Combined 3 Years

### Comparison of Growth and Anemia Indicators <sup>(3,4)</sup>

County	Birth Weight <sup>(5)</sup>			Height and Weight <sup>(6,7)</sup>						Anemia Low Hb/Hct <sup>(8)</sup>		
	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	1,141	10.4 (59)	8.0 (38)	5,206	6.2 (26)	2.4 (35)	10.6 (26)	2,373	17.2 (40)	16.6 (67)	3,588	12.4 (32)
Leelanau	123	4.9 (2)	9.8 (59)	625	5.8 (11)	3.4 (64)	12.8 (64)	280	21.4 (76)	17.1 (70)	437	8.5 (11)
Lenawee	1,250	8.2 (27)	7.8 (31)	5,376	7.2 (46)	2.5 (38)	12.1 (55)	2,265	18.9 (62)	16.0 (58)	3,322	26.5 (78)
Livingston	997	11.2 (67)	8.3 (42)	4,579	8.3 (67)	1.9 (15)	9.0 (3)	2,022	18.0 (54)	12.1 (10)	3,122	8.7 (13)
Luce	135	8.1 (25)	14.1 (79)	548	3.1 (1)	4.6 (77)	9.1 (4)	230	23.9 (80)	16.5 (64)	372	14.5 (42)
Mackinac	119	6.7 (7)	13.4 (78)	590	5.8 (11)	3.4 (64)	10.8 (31)	282	13.5 (1)	13.8 (31)	424	5.7 (4)
Macomb	9,106	11.1 (65)	5.2 (4)	36,920	7.0 (42)	2.3 (31)	10.9 (34)	15,231	15.0 (6)	13.3 (24)	24,334	18.1 (59)
Manistee	313	9.9 (51)	10.9 (70)	1,330	7.6 (53)	1.9 (15)	12.2 (57)	589	18.0 (54)	16.6 (67)	906	15.6 (48)
Marquette	686	11.1 (65)	8.7 (50)	3,063	10.1 (81)	2.8 (48)	13.2 (70)	1,414	19.1 (66)	14.4 (39)	1,805	8.5 (11)
Mason	423	8.0 (22)	7.6 (29)	1,926	6.7 (32)	2.1 (21)	10.5 (23)	921	15.5 (12)	12.8 (16)	1,337	13.9 (39)
Mecosta	678	9.4 (44)	7.4 (26)	2,934	8.8 (75)	2.1 (21)	12.6 (60)	1,292	19.2 (69)	16.3 (61)	2,035	12.6 (34)
Menominee	247	10.9 (62)	9.3 (54)	1,096	6.8 (37)	2.3 (31)	14.8 (79)	462	15.4 (9)	16.2 (60)	713	9.8 (19)
Midland	995	7.7 (17)	10.2 (66)	4,293	8.9 (77)	1.6 (7)	14.8 (79)	1,757	19.1 (66)	14.0 (33)	2,730	16.3 (53)
Missaukee	208	5.3 (4)	10.6 (68)	900	5.9 (16)	1.1 (2)	10.7 (29)	416	15.4 (9)	14.7 (44)	622	13.0 (36)

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

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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.

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

# WIC PNSS & PedNSS

## Table 6B

### 2017 - 2019 Pediatric Nutrition Surveillance <sup>(1)</sup>

#### Michigan

#### Comparison of Growth and Anemia Indicators by County

#### Children Aged < 5 Years <sup>(2)</sup>

#### Combined 3 Years

### Comparison of Growth and Anemia Indicators <sup>(3,4)</sup>

County	Birth Weight <sup>(5)</sup>			Height and Weight <sup>(6,7)</sup>						Anemia Low Hb/Hct <sup>(8)</sup>		
	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	1,751	9.1 (39)	6.6 (13)	7,401	7.3 (48)	2.5 (38)	10.7 (29)	3,155	17.0 (36)	14.9 (46)	4,924	15.7 (49)
Montcalm	932	7.6 (15)	7.1 (21)	4,088	8.6 (74)	2.1 (21)	11.1 (37)	1,702	16.7 (27)	13.0 (17)	2,854	4.2 (2)
Montmorenc	142	12.0 (73)	7.0 (18)	548	8.4 (70)	2.0 (20)	12.4 (59)	241	16.6 (26)	18.3 (75)	341	15.0 (45)
Muskegon	3,894	11.0 (63)	5.2 (4)	15,769	8.0 (61)	2.6 (43)	12.2 (57)	6,892	17.0 (36)	14.0 (33)	10,744	24.5 (76)
Newaygo	959	8.2 (27)	7.8 (31)	4,368	6.8 (37)	1.7 (8)	11.7 (48)	2,075	17.7 (51)	13.7 (29)	3,066	16.2 (52)
Oakland	9,804	12.9 (76)	5.5 (8)	42,764	7.8 (58)	2.8 (48)	9.7 (10)	18,204	15.3 (8)	12.0 (7)	28,816	23.7 (75)
Oceana	467	7.5 (14)	6.2 (10)	2,414	6.9 (40)	1.7 (8)	12.6 (60)	1,201	18.5 (59)	17.0 (69)	1,768	12.8 (35)
Ogemaw	373	7.8 (19)	9.9 (61)	1,740	6.6 (29)	1.8 (12)	13.3 (71)	780	16.7 (27)	15.6 (53)	1,209	14.9 (43)
Ontonagon	45	*	*	201	6.0 (21)	4.0 (75)	11.9 (53)	83	*	*	134	9.7 (18)
Osceola	389	8.2 (27)	10.0 (64)	1,728	6.5 (28)	3.1 (61)	9.7 (10)	778	15.8 (15)	13.2 (22)	1,193	14.0 (40)
Oscoda	134	9.0 (37)	6.0 (9)	656	8.1 (63)	2.1 (21)	9.8 (13)	296	20.6 (74)	11.8 (5)	442	16.1 (51)
Otsego	385	9.4 (44)	8.6 (48)	2,039	5.3 (4)	5.1 (78)	12.6 (60)	921	18.2 (56)	15.5 (51)	1,318	15.2 (46)
Ottawa	2,423	8.9 (34)	9.7 (58)	10,632	5.8 (11)	2.8 (48)	10.2 (18)	4,861	15.1 (7)	12.0 (7)	7,324	34.0 (82)
Presque Is	104	1.9 (1)	11.5 (75)	499	5.4 (5)	2.2 (25)	10.6 (26)	228	14.5 (3)	14.0 (33)	352	20.5 (68)

(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

### 2017 - 2019 Pediatric Nutrition Surveillance <sup>(1)</sup>

#### Michigan

#### Comparison of Growth and Anemia Indicators by County

#### Children Aged < 5 Years <sup>(2)</sup>

#### Combined 3 Years

#### Comparison of Growth and Anemia Indicators <sup>(3,4)</sup>

County	Birth Weight <sup>(5)</sup>			Height and Weight <sup>(6,7)</sup>						Anemia Low Hb/Hct <sup>(8)</sup>		
	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	301	5.0 (3)	7.0 (18)	1,360	5.4 (5)	2.3 (31)	8.5 (1)	595	13.6 (2)	13.3 (24)	916	12.2 (31)
Saginaw	3,816	12.1 (74)	5.1 (3)	15,374	6.0 (21)	3.5 (66)	11.3 (42)	6,578	16.5 (22)	13.3 (24)	10,367	17.1 (57)
Sanilac	564	8.9 (34)	7.4 (26)	2,436	11.6 (82)	0.9 (1)	15.7 (81)	1,074	21.6 (77)	23.2 (81)	1,631	16.6 (54)
Schoolcraf	142	13.4 (79)	8.5 (45)	572	6.1 (25)	5.1 (78)	11.4 (44)	233	18.9 (62)	18.5 (76)	392	10.5 (24)
Shiawassee	1,028	8.9 (34)	7.2 (23)	4,741	5.9 (16)	3.2 (62)	10.9 (34)	2,220	18.5 (59)	15.1 (48)	3,351	12.0 (30)
St Clair	2,045	7.7 (17)	8.5 (45)	8,561	7.5 (51)	1.9 (15)	11.2 (39)	3,728	19.1 (66)	15.6 (53)	5,664	12.5 (33)
St Joseph	1,248	9.7 (50)	7.5 (28)	5,451	7.5 (51)	1.9 (15)	13.0 (67)	2,407	16.7 (27)	15.3 (50)	3,775	11.1 (26)
Tuscola	914	8.4 (31)	9.8 (59)	3,979	6.7 (32)	2.5 (38)	9.6 (7)	1,800	16.5 (22)	13.6 (28)	2,742	9.2 (14)
Van Buren	1,278	7.0 (11)	9.9 (61)	6,127	5.7 (9)	2.4 (35)	14.4 (76)	2,892	16.8 (30)	17.3 (73)	4,310	18.2 (61)
Washtenaw	2,892	11.8 (71)	5.3 (6)	12,673	6.6 (29)	2.8 (48)	8.6 (2)	5,465	16.5 (22)	12.4 (12)	8,848	25.0 (77)
Wayne	40,622	13.0 (77)	4.8 (2)	160,435	6.9 (40)	3.6 (70)	9.8 (13)	67,267	14.6 (4)	12.0 (7)	103,445	27.8 (79)
Wexford	771	7.8 (19)	8.0 (38)	3,349	7.6 (53)	1.3 (3)	10.8 (31)	1,529	18.9 (62)	11.9 (6)	2,317	16.6 (54)
<b>Michigan</b>	<b>147,397</b>	<b>11.2</b>	<b>6.4</b>	<b>622,136</b>	<b>7.3</b>	<b>3.0</b>	<b>3.0</b>	<b>269,278</b>	<b>16.3</b>	<b>14.2</b>	<b>414,719</b>	<b>20.6</b>

(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

### 2017 - 2019 Pediatric Nutrition Surveillance <sup>(1)</sup>

#### Michigan

#### Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County <sup>(2)</sup>

#### Children Aged < 5 Years <sup>(3)</sup>

#### Combined 3 Years

#### Comparison of Breastfeeding, TV Viewing, and Smoking in Household <sup>(4,5)</sup>

County	Breastfeeding <sup>(6)</sup>				Exclusive Breastfeeding <sup>(7)</sup>				≤ 2 Hours TV Viewing/Day <sup>(8)</sup>		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	94	*	94	*	80	*	61	*	75	*	247	90.3 (24)	490	4.1 (50)
Alger	91	*	73	*	57	*	48	*	56	*	168	86.3 (53)	377	4.5 (54)
Allegan	2,071	75.6 (43)	1,401	33.1 (52)	1,648	14.3 (45)	906	23.7 (31)	1,145	11.0 (42)	4,644	90.5 (23)	9,441	1.9 (15)
Alpena	436	68.8 (64)	333	31.5 (55)	391	12.0 (61)	262	21.4 (39)	291	12.4 (34)	1,053	81.2 (70)	2,090	4.5 (54)
Antrim	275	81.1 (16)	234	47.0 (6)	216	17.6 (21)	144	36.8 (7)	188	15.4 (17)	758	85.4 (59)	1,387	7.2 (75)
Arenac	285	71.6 (54)	243	35.0 (43)	206	12.6 (53)	159	18.9 (51)	196	8.7 (54)	736	87.4 (44)	1,349	7.4 (78)
Baraga	120	79.2 (22)	109	34.9 (44)	78	*	72	*	90	*	308	89.3 (32)	586	3.6 (41)
Barry	641	78.9 (24)	599	37.7 (32)	463	15.8 (32)	359	25.6 (24)	517	13.2 (30)	1,593	91.7 (14)	3,136	2.3 (22)
Bay	1,507	66.2 (68)	1,028	32.0 (54)	1,267	12.5 (55)	673	21.0 (42)	893	5.5 (69)	3,531	89.2 (33)	7,108	2.9 (31)
Benzie	237	82.7 (9)	177	43.5 (8)	167	15.0 (39)	109	33.0 (11)	141	16.3 (14)	531	86.4 (52)	1,094	6.7 (74)
Berrien	2,526	70.6 (57)	1,754	30.0 (65)	1,293	13.7 (49)	1,399	18.7 (52)	1,516	10.2 (47)	4,932	79.4 (77)	10,608	3.9 (47)
Branch	924	77.9 (28)	637	41.0 (16)	683	15.4 (36)	471	27.4 (19)	529	14.7 (20)	1,861	80.9 (73)	3,887	3.8 (45)
Calhoun	2,620	72.2 (52)	1,972	30.8 (61)	2,063	14.1 (46)	1,314	18.4 (54)	1,579	9.6 (50)	6,017	88.8 (36)	11,983	1.8 (11)

(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 PNSS & PedNSS

## Table 7B

### 2017 - 2019 Pediatric Nutrition Surveillance <sup>(1)</sup>

#### Michigan

#### Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County <sup>(2)</sup>

#### Children Aged < 5 Years <sup>(3)</sup>

#### Combined 3 Years

#### Comparison of Breastfeeding, TV Viewing, and Smoking in Household <sup>(4,5)</sup>

County	Breastfeeding <sup>(6)</sup>				Exclusive Breastfeeding <sup>(7)</sup>				≤ 2 Hours TV Viewing/Day <sup>(8)</sup>		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	930	76.1 (39)	729	40.6 (18)	736	17.1 (22)	550	23.3 (34)	593	18.4 (10)	2,435	94.8 (2)	4,539	1.6 (8)
Charlevoix	381	85.3 (3)	299	48.8 (5)	273	18.3 (15)	199	40.2 (3)	245	21.2 (5)	902	86.6 (51)	1,806	3.0 (34)
Cheboygan	372	77.4 (29)	268	42.5 (10)	252	12.3 (59)	169	24.9 (27)	214	21.0 (6)	698	82.5 (64)	1,450	5.8 (69)
Chippewa	590	65.9 (70)	452	39.6 (19)	422	19.9 (10)	309	34.0 (9)	395	23.0 (2)	1,395	93.3 (4)	2,748	10.4 (82)
Clare	561	70.4 (59)	440	35.7 (40)	438	13.2 (51)	299	21.4 (39)	373	11.5 (38)	1,298	92.6 (9)	2,535	5.3 (65)
Clinton	461	83.3 (7)	393	37.9 (30)	320	19.1 (13)	254	25.6 (24)	319	11.3 (40)	1,031	85.6 (57)	2,179	1.7 (9)
Crawford	224	79.5 (20)	176	44.9 (7)	186	17.7 (19)	121	38.0 (5)	149	19.5 (7)	500	80.8 (75)	1,008	4.1 (50)
Delta	596	76.0 (40)	458	31.0 (59)	493	12.4 (57)	348	20.7 (43)	397	10.3 (45)	1,414	88.8 (36)	2,741	3.5 (40)
Dickinson	376	73.7 (50)	281	42.0 (11)	292	20.9 (9)	202	33.2 (10)	247	23.1 (1)	935	90.1 (26)	1,821	1.2 (3)
Eaton	804	83.1 (8)	742	37.9 (30)	598	18.6 (14)	469	15.4 (63)	617	8.3 (59)	1,856	81.0 (72)	3,719	2.4 (24)
Emmet	487	82.5 (11)	410	51.7 (3)	325	24.3 (2)	237	41.4 (2)	328	22.9 (3)	1,159	87.5 (43)	2,231	3.4 (39)
Genesee	7,800	56.0 (78)	6,118	24.5 (72)	4,708	9.6 (68)	4,264	10.7 (67)	4,870	7.0 (65)	14,826	82.1 (68)	31,808	2.9 (31)
Gladwin	374	83.7 (6)	356	39.6 (19)	351	17.7 (19)	200	26.5 (21)	296	14.9 (19)	1,131	91.1 (19)	2,025	6.5 (73)
Gogebic	216	68.5 (65)	170	30.6 (63)	145	13.8 (48)	128	20.3 (44)	155	14.2 (24)	505	83.8 (61)	995	5.6 (67)

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(4) Excludes records with unknown data or errors.

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

(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

### 2017 - 2019 Pediatric Nutrition Surveillance <sup>(1)</sup>

#### Michigan

#### Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County <sup>(2)</sup>

#### Children Aged < 5 Years <sup>(3)</sup>

#### Combined 3 Years

#### Comparison of Breastfeeding, TV Viewing, and Smoking in Household <sup>(4,5)</sup>

County	Breastfeeding <sup>(6)</sup>				Exclusive Breastfeeding <sup>(7)</sup>				≤ 2 Hours TV Viewing/Day <sup>(8)</sup>		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	1,250	84.1 (5)	803	52.4 (2)	866	23.1 (4)	449	37.9 (6)	627	16.1 (15)	2,259	90.3 (24)	4,881	1.8 (11)
Gratiot	616	80.5 (17)	518	40.7 (17)	405	24.0 (3)	349	32.4 (12)	445	14.4 (22)	1,472	87.8 (42)	2,901	1.9 (15)
Hillsdale	732	78.3 (27)	608	33.1 (52)	515	15.9 (30)	427	24.1 (30)	516	14.5 (21)	1,590	85.8 (55)	3,283	5.5 (66)
Houghton	478	84.7 (4)	399	50.6 (4)	383	30.0 (1)	263	36.1 (8)	350	19.1 (9)	1,142	91.0 (20)	2,243	1.2 (3)
Huron	411	77.4 (29)	369	38.2 (27)	302	13.6 (50)	243	11.9 (66)	315	4.8 (72)	988	86.8 (49)	2,008	4.4 (53)
Ingham	4,854	76.7 (36)	3,495	41.2 (15)	2,935	18.3 (15)	2,384	19.8 (47)	2,809	11.8 (36)	9,317	89.9 (27)	19,613	1.9 (15)
Ionia	982	81.5 (14)	822	36.0 (39)	867	15.5 (33)	521	24.6 (28)	703	13.4 (29)	2,273	86.8 (49)	4,541	2.7 (27)
Iosco	450	63.3 (73)	355	31.0 (59)	337	11.9 (62)	271	17.3 (55)	301	10.3 (45)	919	92.7 (6)	1,931	4.7 (61)
Iron	166	77.1 (33)	120	41.7 (12)	127	22.0 (6)	100	39.0 (4)	96	*	419	88.8 (36)	800	6.3 (71)
Isabella	993	74.4 (48)	730	36.6 (36)	691	14.5 (42)	516	23.1 (35)	616	13.0 (31)	1,908	91.4 (18)	4,116	3.0 (34)
Jackson	2,790	71.3 (55)	2,658	35.6 (41)	2,172	11.1 (65)	1,490	19.9 (46)	2,144	12.1 (35)	6,325	79.8 (76)	12,570	4.0 (49)
Kalamazoo	3,908	70.4 (59)	2,911	30.7 (62)	2,418	14.4 (44)	2,049	19.7 (48)	2,481	8.4 (56)	8,101	78.1 (79)	17,118	2.4 (24)
Kalkaska	269	88.5 (1)	200	54.5 (1)	202	22.8 (5)	128	45.3 (1)	163	22.7 (4)	584	82.4 (67)	1,212	7.3 (77)
Kent	9,903	74.7 (47)	8,946	31.2 (57)	7,089	15.2 (37)	6,035	16.2 (59)	7,486	9.4 (51)	21,902	86.2 (54)	44,859	1.8 (11)

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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.

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

# WIC PNSS & PedNSS

## Table 7B

### 2017 - 2019 Pediatric Nutrition Surveillance <sup>(1)</sup>

#### Michigan

#### Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County <sup>(2)</sup>

#### Children Aged < 5 Years <sup>(3)</sup>

#### Combined 3 Years

#### Comparison of Breastfeeding, TV Viewing, and Smoking in Household <sup>(4,5)</sup>

County	Breastfeeding <sup>(6)</sup>				Exclusive Breastfeeding <sup>(7)</sup>				≤ 2 Hours TV Viewing/Day <sup>(8)</sup>		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	152	75.7 (42)	120	33.3 (50)	143	11.9 (62)	83	*	104	5.8 (68)	392	78.3 (78)	768	7.7 (80)
Lapeer	1,148	78.4 (26)	943	36.3 (37)	921	15.5 (33)	676	19.1 (49)	833	8.4 (56)	2,659	91.0 (20)	5,330	0.6 (1)
Leelanau	123	85.4 (2)	93	*	86	*	62	*	73	*	324	80.9 (73)	640	2.0 (18)
Lenawee	1,254	70.5 (58)	982	33.8 (47)	852	14.8 (40)	747	26.0 (22)	850	14.0 (26)	2,541	84.0 (60)	5,451	3.3 (38)
Livingston	1,001	77.2 (32)	919	34.1 (46)	751	16.5 (29)	649	22.3 (36)	800	12.8 (32)	2,270	92.7 (6)	4,685	1.5 (6)
Luce	135	75.6 (43)	120	33.3 (50)	106	15.1 (38)	91	*	107	8.4 (56)	266	91.7 (14)	562	2.3 (22)
Mackinac	118	81.4 (15)	69	*	100	17.0 (25)	33	*	63	*	338	76.6 (81)	599	3.8 (45)
Macomb	9,269	61.5 (75)	6,849	25.7 (71)	6,424	10.6 (66)	5,124	13.6 (65)	5,783	7.2 (63)	17,008	81.9 (69)	37,744	1.8 (11)
Manistee	313	79.2 (22)	206	42.7 (9)	254	19.7 (12)	160	30.0 (14)	183	17.5 (11)	672	92.3 (10)	1,360	4.3 (52)
Marquette	690	82.0 (12)	479	39.2 (22)	576	17.9 (18)	269	30.5 (13)	406	12.6 (33)	1,614	91.9 (13)	3,202	2.7 (27)
Mason	425	75.8 (41)	304	34.9 (44)	342	14.6 (41)	240	28.8 (17)	271	14.4 (22)	1,050	89.6 (29)	1,976	3.1 (37)
Mecosta	680	72.2 (52)	506	33.8 (47)	541	15.9 (30)	376	25.3 (26)	439	13.7 (27)	1,474	89.7 (28)	3,006	4.9 (63)
Menominee	248	65.3 (71)	192	22.9 (75)	196	8.7 (71)	144	16.0 (60)	173	8.7 (54)	535	94.0 (3)	1,116	4.6 (59)
Midland	998	77.4 (29)	877	38.7 (25)	634	21.3 (7)	724	29.6 (15)	748	17.2 (12)	2,022	92.7 (6)	4,249	2.1 (20)

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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

### 2017 - 2019 Pediatric Nutrition Surveillance <sup>(1)</sup>

#### Michigan

#### Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County <sup>(2)</sup>

#### Children Aged < 5 Years <sup>(3)</sup>

#### Combined 3 Years

#### Comparison of Breastfeeding, TV Viewing, and Smoking in Household <sup>(4,5)</sup>

County	Breastfeeding <sup>(6)</sup>				Exclusive Breastfeeding <sup>(7)</sup>				≤ 2 Hours TV Viewing/Day <sup>(8)</sup>		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	208	79.3 (21)	132	41.7 (12)	179	14.5 (42)	85	*	123	17.1 (13)	466	87.1 (47)	920	6.3 (71)
Monroe	1,758	62.7 (74)	1,378	26.3 (70)	1,293	11.4 (64)	1,026	15.5 (62)	1,202	7.1 (64)	3,597	89.6 (29)	7,594	3.6 (41)
Montcalm	934	82.7 (9)	774	38.1 (28)	610	16.9 (27)	525	24.4 (29)	650	11.5 (38)	1,971	82.9 (62)	4,178	4.5 (54)
Montmorenc	142	71.1 (56)	92	*	96	*	75	*	74	*	267	86.9 (48)	561	9.4 (81)
Muskegon	3,917	64.5 (72)	2,694	29.6 (68)	2,703	9.5 (69)	1,918	17.2 (56)	2,184	8.3 (59)	7,671	77.4 (80)	16,283	5.2 (64)
Newaygo	961	76.6 (37)	585	33.5 (49)	778	16.8 (28)	376	27.4 (19)	511	15.3 (18)	2,338	93.2 (5)	4,475	2.0 (18)
Oakland	9,968	69.9 (62)	8,256	30.4 (64)	6,235	12.4 (57)	6,133	16.3 (58)	7,124	10.1 (48)	20,659	82.7 (63)	43,646	1.7 (9)
Oceana	469	76.3 (38)	372	39.0 (23)	416	18.3 (15)	241	18.7 (52)	322	8.1 (61)	1,356	87.4 (44)	2,484	2.6 (26)
Ogemaw	374	67.6 (66)	343	29.7 (67)	294	9.5 (69)	221	15.8 (61)	293	6.8 (66)	905	89.0 (35)	1,781	7.2 (75)
Ontonagon	45	*	37	*	37	*	18	*	27	*	100	92.0 (12)	206	2.9 (31)
Osceola	392	80.1 (18)	320	35.6 (41)	328	15.5 (33)	199	23.6 (32)	267	9.4 (51)	889	85.7 (56)	1,767	6.2 (70)
Oscoda	134	73.1 (51)	124	31.5 (55)	95	*	79	*	103	9.7 (49)	352	89.2 (33)	680	5.7 (68)
Otsego	474	75.3 (45)	364	38.5 (26)	299	17.1 (22)	254	28.7 (18)	305	19.3 (8)	1,032	88.1 (40)	2,094	4.7 (61)
Ottawa	2,466	78.5 (25)	1,462	38.9 (24)	1,855	17.1 (22)	908	29.6 (15)	1,158	16.1 (15)	5,316	92.2 (11)	10,787	1.2 (3)

(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 PNSS & PedNSS

## Table 7B

### 2017 - 2019 Pediatric Nutrition Surveillance <sup>(1)</sup>

#### Michigan

#### Comparison of Breastfeeding, TV Viewing, and Smoking in Household by County <sup>(2)</sup>

#### Children Aged < 5 Years <sup>(3)</sup>

#### Combined 3 Years

#### Comparison of Breastfeeding, TV Viewing, and Smoking in Household <sup>(4,5)</sup>

County	Breastfeeding <sup>(6)</sup>				Exclusive Breastfeeding <sup>(7)</sup>				≤ 2 Hours TV Viewing/Day <sup>(8)</sup>		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	104	70.2 (61)	98	*	99	*	63	*	81	*	262	91.6 (16)	508	4.5 (54)
Roscommon	302	76.8 (35)	298	39.6 (19)	261	12.6 (53)	175	21.7 (38)	237	11.0 (42)	686	85.6 (57)	1,393	7.4 (78)
Saginaw	3,817	59.2 (76)	2,940	23.3 (74)	2,311	7.1 (73)	2,209	10.6 (68)	2,514	6.3 (67)	7,225	81.1 (71)	15,608	2.8 (29)
Sanilac	566	56.9 (77)	475	29.9 (66)	387	10.3 (67)	304	20.1 (45)	408	13.5 (28)	1,259	91.5 (17)	2,542	3.7 (44)
Schoolcraf	142	69.7 (63)	104	28.8 (69)	98	*	64	*	93	*	269	82.5 (64)	592	3.0 (34)
Shiawassee	1,030	75.2 (46)	885	36.2 (38)	849	17.0 (25)	584	15.2 (64)	721	8.0 (62)	2,381	91.0 (20)	4,845	2.8 (29)
St Clair	2,057	67.3 (67)	1,718	31.1 (58)	1,520	12.2 (60)	1,092	19.0 (50)	1,471	11.3 (40)	4,292	82.5 (64)	8,807	4.6 (59)
St Joseph	1,258	81.6 (13)	1,009	37.0 (34)	837	13.9 (47)	651	22.1 (37)	781	9.2 (53)	2,692	88.1 (40)	5,548	2.1 (20)
Tuscola	917	74.2 (49)	765	36.7 (35)	663	12.7 (52)	488	17.0 (57)	630	5.2 (70)	2,038	89.5 (31)	4,060	3.6 (41)
Van Buren	1,296	66.1 (69)	1,052	37.2 (33)	1,027	12.5 (55)	733	21.4 (39)	871	10.7 (44)	3,237	95.3 (1)	6,210	1.0 (2)
Washtenaw	2,908	80.0 (19)	2,378	41.4 (14)	2,075	21.3 (7)	1,705	23.6 (32)	1,980	14.2 (24)	6,220	88.3 (39)	12,877	1.5 (6)
Wayne	41,473	54.8 (79)	29,573	23.5 (73)	23,348	8.2 (72)	22,457	8.5 (69)	25,674	4.9 (71)	75,609	72.9 (82)	164,677	3.9 (47)
Wexford	774	77.0 (34)	469	38.0 (29)	612	19.8 (11)	272	25.7 (23)	403	11.7 (37)	1,738	87.4 (44)	3,441	4.5 (54)

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(4) Excludes records with unknown data or errors.

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

(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

### 2017 - 2019 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

<b>Michigan</b>	<b>149,314</b>	<b>66.4</b>	<b>114,274</b>	<b>30.4</b>	<b>98,724</b>	<b>12.7</b>	<b>81,226</b>	<b>16.2</b>	<b>96,538</b>	<b>9.0</b>	<b>303,734</b>	<b>82.5</b>	<b>636,710</b>	<b>3.1</b>
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(1) Reporting period is January 1 through December 31.

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(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.

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