

# WIC PNSS & PedNSS

## Table 4B

### 2021 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	139	89.9	0.0	3.6	0.0	0.0	6.5	0.0
Alger	136	82.4	0.0	2.2	6.6	0.0	8.8	0.0
Allegan	1,777	68.1	1.1	22.4	0.1	0.1	8.2	0.1
Alpena	565	86.0	0.0	5.3	0.0	0.2	8.5	0.0
Antrim	321	87.5	0.6	2.8	0.9	0.0	8.1	0.0
Arenac	416	93.5	0.0	2.4	0.2	0.0	3.8	0.0
Baraga	192	42.7	0.0	3.1	29.2	0.5	24.5	0.0
Barry	786	88.5	0.9	6.7	0.3	0.1	3.4	0.0
Bay	2,084	66.7	1.6	17.0	0.0	0.2	14.3	0.1
Benzie	330	86.4	0.3	5.2	0.6	0.0	7.6	0.0
Berrien	2,719	43.5	37.0	9.3	0.3	1.1	8.1	0.8
Branch	1,106	82.0	1.0	12.1	0.1	0.1	4.6	0.1
Calhoun	3,384	52.5	18.5	9.3	0.2	5.2	14.3	0.0
Cass	1,134	49.3	6.7	29.0	0.6	0.0	13.8	0.6
Charlevoix	475	86.1	0.2	5.9	0.2	0.0	7.6	0.0
Cheboygan	430	84.0	0.5	3.0	0.0	0.0	12.6	0.0
Chippewa	658	40.6	0.2	7.8	18.2	0.5	32.8	0.0
Clare	776	89.7	0.1	5.2	0.3	0.0	4.5	0.3
Clinton	502	75.1	0.2	16.7	0.0	0.0	8.0	0.0
Crawford	330	86.4	0.0	6.7	0.0	0.0	7.0	0.0
Delta	695	77.7	0.7	3.5	1.4	0.1	16.5	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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<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  %
Dickinson	520	98.1	0.0	0.8	0.0	0.0	1.2	0.0
Eaton	893	78.7	4.1	10.6	0.0	0.8	5.7	0.0
Emmet	536	84.5	0.4	3.7	0.9	0.2	10.3	0.0
Genesee	9,373	41.3	39.0	7.6	0.0	0.2	11.9	0.0
Gladwin	595	95.5	0.2	1.8	0.0	0.0	2.5	0.0
Gogebic	221	76.5	0.9	3.2	6.8	0.0	12.2	0.5
Gr Travers	1,413	75.8	0.3	11.4	1.3	0.4	10.8	0.0
Gratiot	770	75.1	0.0	20.1	0.0	0.0	4.7	0.1
Hillsdale	766	89.4	0.7	6.3	0.0	0.0	3.7	0.0
Houghton	792	88.0	0.8	2.7	0.8	1.0	6.8	0.0
Huron	515	89.7	0.0	6.6	0.0	0.0	3.5	0.2
Ingham	7,063	32.2	26.3	20.3	0.1	4.5	16.5	0.1
Ionia	1,069	78.4	0.1	14.7	0.0	0.0	6.7	0.1
Iosco	491	86.6	0.0	6.3	0.0	0.0	7.1	0.0
Iron	257	93.4	0.0	1.6	0.0	0.0	5.1	0.0
Isabella	1,364	72.1	2.9	8.9	2.9	0.5	12.6	0.1
Jackson	4,099	60.0	13.0	9.1	0.0	0.3	17.4	0.1
Kalamazoo	4,617	38.1	36.2	11.3	0.1	0.6	12.9	0.8
Kalkaska	371	87.3	0.5	4.0	0.0	0.5	7.5	0.0
Kent	11,088	24.0	26.2	34.9	0.1	5.4	9.5	0.0
Lake	232	61.2	11.2	4.7	0.0	0.0	22.8	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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# WIC PNSS & PedNSS

## Table 4B

### 2021 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 %
Lapeer	1,396	77.5	1.1	15.2	0.1	0.4	5.6	0.1
Leelanau	156	53.2	0.0	28.8	9.6	0.0	8.3	0.0
Lenawee	1,418	64.6	1.7	24.3	0.1	0.1	9.0	0.2
Livingston	1,577	85.5	1.5	5.6	0.1	0.4	6.7	0.2
Luce	194	74.7	0.5	4.1	6.2	0.0	14.4	0.0
Mackinac	178	36.5	0.0	2.8	0.6	0.0	59.6	0.6
Macomb	12,449	47.3	28.6	5.4	0.1	7.8	10.8	0.0
Manistee	402	78.4	0.5	8.7	1.2	0.0	11.2	0.0
Marquette	983	82.3	0.7	4.5	0.8	0.4	11.3	0.0
Mason	493	72.0	0.8	15.0	0.0	0.4	11.6	0.2
Mecosta	951	82.4	3.2	5.6	0.1	0.3	8.4	0.0
Menominee	284	55.3	0.4	13.0	8.5	0.0	22.9	0.0
Midland	1,338	82.7	1.6	6.6	0.1	0.2	8.7	0.0
Missaukee	290	76.9	0.0	16.2	0.0	0.0	6.6	0.3
Monroe	2,317	70.0	5.8	9.2	0.1	0.2	14.5	0.2
Montcalm	1,192	88.2	0.0	8.8	0.0	0.0	3.0	0.0
Montmorenc	156	89.7	0.0	3.2	0.0	0.0	7.1	0.0
Muskegon	4,407	46.5	26.5	13.0	0.2	0.2	13.3	0.2
Newaygo	1,511	69.0	0.5	24.1	0.0	0.1	6.2	0.1
Oakland	13,066	38.7	38.5	12.5	0.1	2.2	8.0	0.0
Oceana	664	53.6	0.8	41.3	0.0	0.0	4.4	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.

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

# WIC PNSS & PedNSS

## Table 4B

### 2021 Pediatric Nutrition Surveillance <sup>(1)</sup>

### Michigan

### Comparison of Racial and Ethnic Distribution by County

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

Comparison of Racial and Ethnic Distribution								
County	Number Included in Analysis (3,4)	White, Not Hispanic %	Black, Not Hispanic %	Hispanic %	American Indian/Alaska Native %	Asian/Pacific Islander %	Multiple Races %	All Other/Unknown %
Ogemaw	428	85.0	0.0	7.2	0.0	0.0	7.7	0.0
Ontonagon	75	*	*	*	*	*	*	*
Osceola	583	89.0	0.3	5.7	0.3	0.0	4.1	0.5
Oscoda	141	92.9	0.0	3.5	0.0	0.0	3.5	0.0
Otsego	527	94.3	0.8	1.1	0.4	0.0	3.4	0.0
Ottawa	4,087	49.3	3.6	36.7	0.1	1.6	8.6	0.2
Presque Is	150	88.0	0.0	4.7	0.0	0.0	7.3	0.0
Roscommon	418	92.1	0.0	2.2	0.2	0.0	5.5	0.0
Saginaw	4,866	29.3	38.2	22.3	0.0	0.2	9.9	0.1
Sanilac	619	91.3	0.0	5.2	0.0	0.0	3.6	0.0
Schoolcraf	164	62.2	1.8	2.4	12.2	0.0	20.7	0.6
Shiawassee	1,369	79.3	0.4	10.8	0.0	0.0	9.5	0.0
St Clair	2,315	69.5	5.0	10.5	0.1	0.2	14.6	0.1
St Joseph	1,624	59.2	0.4	27.2	0.0	0.0	13.0	0.2
Tuscola	1,130	86.6	0.4	7.7	0.0	0.1	5.1	0.0
Van Buren	1,803	55.1	2.8	34.8	0.2	0.2	6.5	0.4
Washtenaw	4,348	30.7	39.4	11.8	0.1	2.3	15.5	0.2
Wayne	51,882	27.1	54.8	10.5	0.1	3.0	4.5	0.0
Wexford	927	87.7	0.3	4.9	0.0	0.1	6.9	0.1
<b>Michigan</b>	<b>188,977</b>	<b>46.0</b>	<b>29.1</b>	<b>13.3</b>	<b>0.3</b>	<b>2.3</b>	<b>9.0</b>	<b>0.1</b>

(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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# WIC PNSS & PedNSS

## Table 4B

### 2021 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>665,125</b>	<b>35.3</b>	<b>18.8</b>	<b>20.6</b>	<b>1.0</b>	<b>2.2</b>	<b>5.3</b>	<b>4.0</b>
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# WIC PNSS & PedNSS

## Table 5B

### 2021 Pediatric Nutrition Surveillance <sup>(1)</sup>

#### 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	139	27.3	22.3	50.4
Alger	136	27.9	22.8	49.3
Allegan	1,777	27.3	22.6	50.1
Alpena	565	31.3	23.4	45.3
Antrim	321	34.3	17.8	48.0
Arenac	416	31.0	21.4	47.6
Baraga	192	29.2	20.8	50.0
Barry	786	31.4	18.3	50.3
Bay	2,084	25.7	26.2	48.1
Benzie	330	30.9	20.9	48.2
Berrien	2,719	36.4	21.3	42.3
Branch	1,106	31.3	25.4	43.3
Calhoun	3,384	30.6	23.7	45.7
Cass	1,134	27.0	21.7	51.3
Charlevoix	475	27.4	21.9	50.7
Cheboygan	430	29.1	21.9	49.1
Chippewa	658	32.8	22.8	44.4
Clare	776	25.6	22.9	51.4
Clinton	502	31.7	18.9	49.4
Crawford	330	27.3	22.1	50.6
Delta	695	32.9	23.2	43.9

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### Michigan

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

<b>Comparison of Age Distribution</b>				
<b>County</b>	Number Included in Analysis (3,4)	0 - 11 Months  %	12 - 23 Months  %	24 - 59 Months  %
Dickinson	520	24.2	24.2	51.5
Eaton	893	29.2	23.2	47.6
Emmet	536	28.5	19.4	52.1
Genesee	9,373	29.7	21.3	49.0
Gladwin	595	24.5	19.8	55.6
Gogebic	221	22.6	24.0	53.4
Gr Travers	1,413	30.1	21.2	48.7
Gratiot	770	32.9	19.4	47.8
Hillsdale	766	31.7	21.9	46.3
Houghton	792	27.4	22.1	50.5
Huron	515	33.2	20.8	46.0
Ingham	7,063	28.8	21.2	50.0
Ionia	1,069	27.0	25.2	47.8
Iosco	491	31.2	21.6	47.3
Iron	257	24.5	15.2	60.3
Isabella	1,364	29.5	21.8	48.8
Jackson	4,099	28.4	21.4	50.2
Kalamazoo	4,617	31.8	21.2	47.0
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Lake	232	26.3	20.7	53.0

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<b>Comparison of Age Distribution</b>				
<b>County</b>	Number Included in Analysis (3,4)	0 - 11 Months %	12 - 23 Months %	24 - 59 Months %
Lapeer	1,396	31.1	19.3	49.6
Leelanau	156	33.3	14.7	51.9
Lenawee	1,418	31.9	20.8	47.2
Livingston	1,577	25.5	21.1	53.5
Luce	194	24.7	21.6	53.6
Mackinac	178	19.7	18.0	62.4
Macomb	12,449	28.8	23.1	48.1
Manistee	402	20.4	22.4	57.2
Marquette	983	24.9	23.9	51.2
Mason	493	24.1	25.4	50.5
Mecosta	951	26.9	22.7	50.4
Menominee	284	33.8	22.5	43.7
Midland	1,338	34.0	17.6	48.4
Missaukee	290	24.1	20.7	55.2
Monroe	2,317	32.6	21.8	45.6
Montcalm	1,192	34.3	19.5	46.1
Montmorenc	156	36.5	20.5	42.9
Muskegon	4,407	27.8	25.4	46.8
Newaygo	1,511	22.8	24.2	53.0
Oakland	13,066	32.7	20.6	46.7
Oceana	664	22.6	24.4	53.0

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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 %
Ogemaw	428	30.4	21.0	48.6
Ontonagon	75	*	*	*
Osceola	583	29.0	23.3	47.7
Oscoda	141	29.1	22.0	48.9
Otsego	527	32.6	19.7	47.6
Ottawa	4,087	28.5	22.0	49.4
Presque Is	150	28.7	26.0	45.3
Roscommon	418	27.3	21.8	51.0
Saginaw	4,866	30.7	19.4	49.8
Sanilac	619	32.1	20.8	47.0
Schoolcraf	164	31.1	19.5	49.4
Shiawassee	1,369	27.4	23.0	49.6
St Clair	2,315	26.5	22.9	50.7
St Joseph	1,624	27.3	21.1	51.6
Tuscola	1,130	26.4	22.6	51.1
Van Buren	1,803	27.5	22.8	49.8
Washtenaw	4,348	28.5	21.3	50.2
Wayne	51,882	30.0	21.8	48.2
Wexford	927	26.8	22.8	50.5
<b>Michigan</b>	<b>188,977</b>	<b>29.8</b>	<b>21.7</b>	<b>48.5</b>

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## Table 5B

### 2021 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>665,125</b>	<b>31.4</b>	<b>18.7</b>	<b>37.0</b>
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(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

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# WIC PNSS & PedNSS

## Table 6B

### 2021 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	31	*	*	17	*	*	*	4	*	*	3	*
Alger	28	*	*	40	*	*	*	13	*	*	8	*
Allegan	379	10.6 (28)	7.9 (30)	1,142	7.4 (22)	5.7 (12)	11.1 (32)	476	13.0 (6)	16.6 (13)	716	19.4 (18)
Alpena	129	9.3 (14)	9.3 (46)	155	11.0 (38)	11.6 (42)	14.8 (48)	33	*	*	0	*
Antrim	62	*	*	239	7.5 (24)	5.9 (15)	11.3 (33)	109	17.4 (26)	10.1 (1)	164	3.7 (1)
Arenac	99	*	*	128	8.6 (31)	8.6 (29)	10.9 (31)	39	*	*	20	*
Baraga	39	*	*	29	*	*	*	8	*	*	0	*
Barry	160	10.6 (28)	7.5 (27)	120	3.3 (1)	9.2 (30)	11.7 (36)	45	*	*	14	*
Bay	465	11.4 (35)	8.6 (39)	452	5.8 (12)	5.8 (14)	10.0 (20)	70	*	*	19	*
Benzie	71	*	*	121	6.6 (17)	14.9 (52)	11.6 (35)	49	*	*	56	*
Berrien	668	11.4 (35)	6.0 (12)	1,062	7.0 (19)	5.2 (10)	9.7 (17)	351	16.0 (22)	16.0 (8)	514	9.7 (10)
Branch	281	9.3 (14)	7.5 (27)	239	17.2 (54)	7.1 (24)	8.8 (9)	38	*	*	24	*
Calhoun	823	10.4 (25)	6.2 (13)	1,046	7.2 (21)	11.0 (38)	8.8 (9)	130	11.5 (3)	26.9 (29)	4	*

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

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

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

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

(6) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age ≤ 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

### 2021 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	239	10.9 (31)	10.0 (49)	736	5.2 (9)	4.1 (5)	11.8 (37)	325	13.2 (7)	16.6 (13)	484	13.0 (15)
Charlevoix	82	*	*	374	7.0 (19)	4.8 (8)	9.1 (13)	188	14.4 (14)	14.4 (6)	278	11.9 (13)
Cheboygan	101	15.8 (55)	6.9 (21)	182	13.2 (49)	11.0 (38)	14.8 (48)	67	*	*	9	*
Chippewa	153	5.9 (5)	11.1 (53)	178	14.0 (53)	6.7 (20)	19.1 (55)	55	*	*	20	*
Clare	162	12.3 (44)	6.2 (13)	242	17.4 (55)	6.2 (19)	17.8 (54)	79	*	*	20	*
Clinton	108	19.4 (56)	8.3 (35)	101	6.9 (18)	16.8 (54)	11.9 (38)	22	*	*	13	*
Crawford	80	*	*	45	*	*	*	16	*	*	13	*
Delta	165	5.5 (3)	7.9 (30)	451	8.6 (31)	2.9 (1)	12.2 (40)	170	19.4 (27)	14.1 (5)	280	4.3 (3)
Dickinson	115	6.1 (6)	8.7 (40)	99	*	*	*	24	*	*	10	*
Eaton	190	12.1 (42)	7.9 (30)	284	8.8 (34)	6.0 (17)	11.3 (33)	96	*	*	10	*
Emmet	99	*	*	416	4.3 (5)	3.6 (2)	10.3 (24)	205	19.5 (28)	11.7 (2)	310	7.1 (6)
Genesee	2,116	12.6 (47)	4.6 (4)	1,392	12.3 (45)	7.1 (24)	15.0 (50)	376	15.4 (21)	25.5 (28)	233	15.0 (16)
Gladwin	110	8.2 (11)	7.3 (24)	283	9.5 (36)	5.7 (12)	7.8 (7)	127	19.7 (29)	11.8 (3)	137	10.9 (12)
Gogebic	35	*	*	36	*	*	*	24	*	*	21	*

(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

### 2021 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	347	11.2 (34)	13.3 (55)	400	3.8 (3)	13.0 (49)	9.5 (16)	104	14.4 (14)	18.3 (19)	4	*
Gratiot	168	9.5 (18)	6.5 (17)	147	10.2 (37)	11.6 (42)	8.8 (9)	25	*	*	17	*
Hillsdale	165	9.7 (20)	5.5 (7)	74	*	*	*	16	*	*	51	*
Houghton	169	3.0 (2)	9.5 (47)	29	*	*	*	12	*	*	19	*
Huron	113	2.7 (1)	10.6 (52)	245	4.9 (8)	3.7 (3)	9.4 (15)	92	*	*	145	5.5 (4)
Ingham	1,517	11.7 (39)	5.7 (9)	1,932	8.5 (30)	10.6 (36)	9.7 (17)	379	11.9 (5)	21.4 (24)	33	*
Ionia	248	8.5 (12)	9.7 (48)	423	4.7 (6)	8.5 (28)	9.0 (12)	111	9.9 (2)	16.2 (9)	182	3.8 (2)
Iosco	118	11.9 (40)	10.2 (51)	55	*	*	*	20	*	*	9	*
Iron	39	*	*	17	*	*	*	7	*	*	8	*
Isabella	319	11.0 (32)	8.8 (41)	462	11.5 (42)	6.7 (20)	12.6 (43)	136	13.2 (7)	27.9 (30)	75	*
Jackson	851	12.0 (41)	7.3 (24)	1,403	5.2 (9)	10.5 (35)	9.3 (14)	344	14.2 (12)	19.2 (20)	350	6.6 (5)
Kalamazoo	1,035	12.5 (46)	6.3 (15)	1,067	4.7 (6)	11.6 (42)	4.5 (1)	82	*	*	8	*
Kalkaska	84	*	*	56	*	*	*	22	*	*	16	*
Kent	2,605	14.5 (51)	5.8 (11)	6,355	9.3 (35)	3.7 (3)	12.8 (45)	2,843	14.5 (16)	16.2 (9)	4,061	12.9 (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

### 2021 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	49	*	*	43	*	*	*	12	*	*	10	*
Lapeer	318	9.4 (17)	5.7 (9)	196	3.6 (2)	13.3 (51)	7.1 (4)	18	*	*	6	*
Leelanau	28	*	*	53	*	*	*	25	*	*	23	*
Lenawee	329	10.3 (24)	7.0 (22)	223	13.9 (52)	8.1 (27)	16.6 (53)	81	*	*	2	*
Livingston	302	12.3 (44)	8.9 (42)	26	*	*	*	9	*	*	1	*
Luce	34	*	*	54	*	*	*	19	*	*	15	*
Mackinac	26	*	*	44	*	*	*	20	*	*	0	*
Macomb	2,694	12.1 (42)	5.2 (5)	983	8.2 (27)	9.9 (32)	10.8 (29)	300	15.0 (18)	15.0 (7)	136	9.6 (9)
Manistee	72	*	*	21	*	*	*	6	*	*	4	*
Marquette	200	8.0 (10)	10.0 (49)	333	8.4 (29)	9.6 (31)	5.7 (2)	86	*	*	27	*
Mason	105	5.7 (4)	6.7 (18)	107	6.5 (16)	12.1 (47)	10.3 (24)	34	*	*	8	*
Mecosta	214	7.9 (9)	8.4 (37)	225	13.3 (51)	10.2 (34)	15.6 (51)	103	13.6 (9)	23.3 (25)	27	*
Menominee	76	*	*	182	8.2 (27)	4.9 (9)	13.7 (47)	75	*	*	106	15.1 (17)
Midland	302	9.3 (14)	8.3 (35)	388	11.3 (41)	5.9 (15)	12.1 (39)	123	9.8 (1)	21.1 (23)	37	*

(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

### 2021 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	65	*	*	34	*	*	*	12	*	*	14	*
Monroe	520	10.4 (25)	7.9 (30)	558	12.7 (48)	17.0 (55)	10.0 (20)	73	*	*	3	*
Montcalm	281	14.6 (53)	8.5 (38)	283	7.4 (22)	11.0 (38)	7.4 (5)	67	*	*	29	*
Montmorenc	43	*	*	58	*	*	*	14	*	*	2	*
Muskegon	1,017	10.1 (23)	6.7 (18)	1,302	8.1 (26)	11.7 (45)	8.4 (8)	180	11.7 (4)	17.8 (15)	14	*
Newaygo	303	11.6 (38)	7.6 (29)	334	13.2 (49)	5.4 (11)	15.6 (51)	100	16.0 (22)	25.0 (27)	9	*
Oakland	2,895	13.6 (50)	5.6 (8)	2,824	11.2 (40)	11.7 (45)	10.8 (29)	683	14.3 (13)	18.2 (18)	12	*
Oceana	131	10.7 (30)	9.2 (44)	184	3.8 (3)	6.0 (17)	10.3 (24)	66	*	*	66	*
Ogemaw	103	9.7 (20)	3.9 (2)	64	*	*	*	17	*	*	20	*
Ontonagon	15	*	*	7	*	*	*	5	*	*	4	*
Osceola	139	12.9 (48)	7.9 (30)	49	*	*	*	11	*	*	6	*
Oscoda	34	*	*	17	*	*	*	4	*	*	2	*
Otsego	90	*	*	432	6.3 (15)	6.9 (23)	12.3 (42)	190	20.5 (30)	16.3 (11)	308	8.8 (8)
Ottawa	804	11.4 (35)	9.0 (43)	2,033	6.0 (13)	4.3 (6)	10.4 (28)	843	13.8 (11)	13.6 (4)	1,219	25.6 (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

### 2021 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	31	*	*	45	*	*	*	12	*	*	2	*
Roscommon	90	*	*	131	12.2 (44)	9.9 (32)	12.2 (40)	46	*	*	21	*
Saginaw	1,026	14.8 (54)	5.2 (5)	1,073	6.0 (13)	11.3 (41)	6.5 (3)	103	16.5 (24)	16.5 (12)	2	*
Sanilac	137	9.5 (18)	3.6 (1)	69	*	*	*	30	*	*	44	*
Schoolcraf	35	*	*	56	*	*	*	24	*	*	15	*
Shiawassee	301	8.6 (13)	7.3 (24)	162	8.6 (31)	15.4 (53)	7.4 (5)	31	*	*	2	*
St Clair	516	9.9 (22)	6.8 (20)	798	12.4 (46)	13.0 (49)	10.2 (22)	214	13.6 (9)	17.8 (15)	54	*
St Joseph	297	7.1 (8)	13.5 (56)	381	11.0 (38)	6.8 (22)	9.7 (17)	90	*	*	76	*
Tuscola	218	6.4 (7)	9.2 (44)	456	7.7 (25)	7.2 (26)	12.7 (44)	166	15.1 (19)	19.3 (21)	113	10.6 (11)
Van Buren	363	10.5 (27)	7.2 (23)	1,142	5.7 (11)	4.7 (7)	13.2 (46)	490	14.9 (17)	17.8 (15)	730	8.5 (7)
Washtenaw	903	13.4 (49)	6.4 (16)	943	12.0 (43)	10.6 (36)	10.3 (24)	227	17.2 (25)	20.3 (22)	60	*
Wayne	11,312	14.5 (51)	4.5 (3)	6,670	12.4 (46)	12.2 (48)	10.2 (22)	958	15.2 (20)	23.6 (26)	14	*
Wexford	208	11.1 (33)	11.1 (53)	77	*	*	*	26	*	*	23	*

(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

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

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

# WIC PNSS & PedNSS

## Table 7B

### 2021 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	31	*	17	*	24	*	11	*	13	*	70	*	139	0.7 (6)
Alger	28	*	24	*	17	*	15	*	19	*	71	*	136	4.4 (72)
Allegan	387	62.8 (45)	225	31.6 (23)	271	15.9 (21)	151	21.9 (10)	188	11.2 (15)	898	92.2 (8)	1,773	1.5 (25)
Alpena	130	66.9 (39)	102	40.2 (5)	107	12.1 (38)	59	*	83	*	264	87.1 (30)	564	1.6 (29)
Antrim	70	*	37	*	29	*	21	*	31	*	156	86.5 (34)	317	5.4 (79)
Arenac	99	*	51	*	64	*	25	*	41	*	202	84.7 (42)	413	4.4 (72)
Baraga	39	*	33	*	37	*	15	*	29	*	98	*	192	1.6 (29)
Barry	163	82.2 (7)	83	*	104	19.2 (8)	51	*	76	*	390	85.6 (37)	775	2.2 (41)
Bay	466	64.2 (44)	244	28.7 (31)	356	14.3 (30)	142	14.8 (21)	221	2.7 (38)	1,035	85.5 (39)	2,077	1.8 (33)
Benzie	71	*	36	*	36	*	22	*	31	*	162	83.3 (49)	330	4.8 (76)
Berrien	673	66.6 (40)	495	31.9 (22)	406	14.0 (31)	344	20.9 (11)	425	9.4 (23)	1,166	74.7 (66)	2,673	3.2 (60)
Branch	286	72.7 (22)	199	25.1 (36)	164	15.9 (21)	126	12.7 (23)	166	9.6 (21)	481	76.3 (64)	1,094	2.7 (52)
Calhoun	831	67.5 (37)	515	28.5 (32)	608	12.7 (35)	267	16.5 (19)	349	7.2 (29)	1,593	94.5 (5)	3,380	0.8 (9)

(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 7B

### 2021 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)		
Cass	239	72.4 (24)	153	36.6 (12)	175	16.0 (19)	115	27.8 (1)	129	19.4 (1)	601	98.8 (1)	1,132	0.8 (9)
Charlevoix	90	*	84	*	59	*	54	*	74	*	252	95.2 (4)	469	2.3 (43)
Cheboygan	102	73.5 (17)	57	*	63	*	45	*	47	*	227	89.0 (20)	430	3.3 (63)
Chippewa	154	68.2 (34)	87	*	99	*	52	*	72	*	308	86.4 (35)	658	3.5 (65)
Clare	162	56.2 (53)	120	30.0 (28)	125	12.0 (39)	83	*	101	11.9 (11)	410	90.2 (13)	775	1.9 (35)
Clinton	110	88.2 (1)	52	*	56	*	28	*	44	*	254	90.2 (13)	500	1.0 (16)
Crawford	80	*	44	*	62	*	32	*	42	*	155	84.5 (44)	329	1.8 (33)
Delta	166	68.7 (31)	137	41.6 (4)	135	14.8 (24)	83	*	103	12.6 (8)	310	84.2 (45)	687	1.6 (29)
Dickinson	115	71.3 (28)	78	*	96	*	43	*	64	*	274	90.9 (10)	520	1.2 (23)
Eaton	198	82.8 (5)	85	*	145	14.5 (27)	37	*	72	*	418	81.1 (57)	874	1.5 (25)
Emmet	100	87.0 (3)	89	*	65	*	51	*	73	*	285	83.9 (47)	531	3.0 (57)
Genesee	2,124	50.4 (58)	1,279	21.7 (42)	1,433	9.9 (45)	678	11.2 (26)	936	5.9 (31)	4,615	81.3 (55)	9,306	2.0 (37)
Gladwin	110	71.8 (27)	76	*	93	*	45	*	64	*	336	81.3 (55)	595	3.9 (71)

(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 7B

### 2021 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	37	*	27	*	34	*	14	*	21	*	120	82.5 (54)	219	5.0 (77)
Gr Travers	349	84.8 (4)	181	45.3 (2)	223	22.4 (3)	98	*	143	14.0 (6)	692	87.3 (28)	1,401	0.9 (13)
Gratiot	169	75.7 (14)	105	38.1 (9)	97	*	53	*	77	*	372	84.1 (46)	765	2.9 (55)
Hillsdale	166	67.5 (37)	107	25.2 (35)	108	11.1 (42)	52	*	82	*	369	79.4 (61)	765	3.1 (59)
Houghton	169	88.2 (1)	139	51.1 (1)	126	19.8 (6)	94	*	122	12.3 (9)	406	90.1 (15)	791	1.0 (16)
Huron	113	75.2 (16)	70	*	68	*	50	*	62	*	240	84.6 (43)	514	2.3 (43)
Ingham	1,530	72.7 (22)	866	32.0 (21)	1,138	16.0 (19)	508	18.3 (16)	701	8.6 (25)	3,467	85.6 (37)	7,014	0.8 (9)
Ionia	249	79.5 (9)	188	39.4 (8)	210	17.1 (15)	130	26.2 (2)	154	16.2 (3)	514	88.7 (21)	1,069	0.9 (13)
Iosco	117	61.5 (46)	65	*	78	*	32	*	47	*	237	86.1 (36)	491	2.6 (49)
Iron	39	*	36	*	32	*	23	*	33	*	159	86.8 (33)	255	5.1 (78)
Isabella	319	57.7 (51)	198	29.8 (29)	219	13.2 (34)	115	25.2 (4)	149	10.7 (18)	687	90.1 (15)	1,359	1.5 (25)
Jackson	855	65.1 (43)	759	35.2 (13)	653	12.7 (35)	414	18.6 (15)	606	10.9 (16)	2,119	74.7 (66)	4,093	2.3 (43)
Kalamazoo	1,049	68.1 (35)	672	32.1 (20)	633	13.3 (33)	470	23.4 (6)	570	9.5 (22)	2,121	71.7 (70)	4,578	1.0 (16)

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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

### 2021 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	84	*	51	*	69	*	39	*	42	*	145	91.0 (9)	370	3.8 (69)
Kent	2,654	65.6 (42)	1,402	30.7 (26)	1,648	14.7 (25)	813	17.0 (18)	1,039	8.6 (25)	4,156	83.9 (47)	11,028	0.8 (9)
Lake	49	*	34	*	39	*	25	*	27	*	122	80.3 (59)	230	8.7 (81)
Lapeer	320	72.8 (20)	245	34.7 (15)	231	17.3 (14)	174	19.0 (13)	207	6.8 (30)	689	84.9 (41)	1,391	1.4 (24)
Leelanau	29	*	28	*	16	*	13	*	23	*	84	*	156	0.6 (5)
Lenawee	326	72.1 (25)	258	32.9 (17)	217	17.1 (15)	185	22.7 (8)	225	12.0 (10)	671	76.6 (63)	1,418	2.3 (43)
Livingston	303	65.7 (41)	209	36.8 (10)	222	14.4 (29)	126	19.0 (13)	161	13.0 (7)	853	83.1 (52)	1,576	0.9 (13)
Luce	34	*	24	*	23	*	13	*	18	*	107	86.9 (31)	194	2.6 (49)
Mackinac	26	*	23	*	24	*	14	*	20	*	114	83.3 (49)	178	2.2 (41)
Macomb	2,712	59.4 (50)	1,940	24.3 (38)	2,181	12.2 (37)	1,226	10.8 (27)	1,608	5.4 (32)	5,996	83.0 (53)	12,389	0.7 (6)
Manistee	72	*	59	*	66	*	41	*	54	*	234	96.2 (3)	402	2.0 (37)
Marquette	202	72.8 (20)	114	30.7 (26)	171	24.6 (1)	35	*	72	*	513	97.9 (2)	970	0.5 (3)
Mason	105	67.6 (36)	78	*	100	17.0 (17)	52	*	66	*	240	87.5 (26)	491	4.7 (74)

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(3) Analyses based on one record per child.

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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.

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# WIC PNSS & PedNSS

## Table 7B

### 2021 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	214	68.7 (31)	122	32.8 (18)	176	19.9 (5)	58	*	87	*	442	92.8 (7)	949	1.9 (35)
Menominee	76	*	49	*	44	*	38	*	38	*	123	79.7 (60)	281	3.6 (66)
Midland	302	71.9 (26)	187	31.0 (25)	149	23.5 (2)	122	25.4 (3)	165	10.9 (16)	662	86.9 (31)	1,324	1.1 (21)
Missaukee	65	*	34	*	43	*	29	*	33	*	154	89.6 (18)	289	2.1 (39)
Monroe	524	60.5 (49)	389	23.4 (39)	390	11.5 (40)	237	11.8 (25)	347	4.0 (36)	1,075	80.7 (58)	2,308	3.6 (66)
Montcalm	283	79.9 (8)	171	33.3 (16)	170	18.8 (10)	83	*	133	15.0 (4)	548	87.8 (24)	1,185	3.4 (64)
Montmorenc	43	*	28	*	26	*	15	*	23	*	68	*	156	5.8 (80)
Muskegon	1,022	53.3 (56)	567	20.3 (43)	808	10.3 (44)	353	12.7 (23)	437	4.6 (34)	2,061	68.6 (71)	4,381	2.6 (49)
Newaygo	305	73.4 (18)	178	31.5 (24)	291	18.9 (9)	99	*	144	9.7 (20)	809	90.9 (10)	1,508	0.3 (1)
Oakland	2,941	68.9 (30)	1,894	29.1 (30)	1,837	13.8 (32)	1,315	16.4 (20)	1,584	9.8 (19)	6,245	72.3 (69)	12,975	0.7 (6)
Oceana	135	76.3 (12)	82	*	128	18.0 (12)	44	*	71	*	348	89.1 (19)	663	2.3 (43)
Ogemaw	103	61.2 (47)	64	*	70	*	41	*	52	*	210	88.6 (22)	427	4.7 (74)
Ontonagon	15	*	12	*	7	*	9	*	12	*	44	*	75	*

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

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

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

# WIC PNSS & PedNSS

## Table 7B

### 2021 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)		
Osceola	139	69.1 (29)	91	*	102	14.7 (25)	57	*	67	*	287	90.9 (10)	582	2.7 (52)
Oscoda	34	*	25	*	25	*	18	*	20	*	68	*	141	2.1 (39)
Otsego	103	82.5 (6)	90	*	80	*	54	*	78	*	256	88.3 (23)	526	3.2 (60)
Ottawa	903	73.0 (19)	554	41.7 (3)	631	17.6 (13)	335	23.3 (7)	409	11.7 (12)	1,719	93.4 (6)	4,037	0.5 (3)
Presque Is	31	*	27	*	34	*	18	*	25	*	69	*	150	2.7 (52)
Roscommon	90	*	56	*	67	*	34	*	45	*	215	83.3 (49)	418	3.6 (66)
Saginaw	1,027	57.4 (52)	639	22.2 (41)	585	11.5 (40)	469	10.7 (28)	559	5.0 (33)	2,469	76.1 (65)	4,822	2.9 (55)
Sanilac	149	55.0 (55)	120	25.8 (34)	96	*	90	*	105	11.4 (14)	289	65.4 (73)	616	1.1 (21)
Schoolcraf	35	*	29	*	28	*	23	*	26	*	83	*	164	3.0 (57)
Shiawassee	305	55.7 (54)	198	26.8 (33)	241	14.5 (27)	137	18.2 (17)	165	8.5 (27)	701	73.9 (68)	1,335	0.4 (2)
St Clair	517	60.9 (48)	420	24.5 (37)	473	11.0 (43)	264	14.8 (21)	367	8.7 (24)	1,175	79.0 (62)	2,314	3.8 (69)
St Joseph	301	78.1 (11)	242	39.7 (7)	238	18.5 (11)	152	23.7 (5)	169	16.6 (2)	848	87.5 (26)	1,613	1.0 (16)
Tuscola	219	76.3 (12)	148	32.4 (19)	169	16.6 (18)	80	*	129	7.8 (28)	593	89.7 (17)	1,128	2.4 (48)

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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.

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

# WIC PNSS & PedNSS

## Table 7B

### 2021 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)		
Van Buren	380	68.4 (33)	231	36.8 (10)	291	15.1 (23)	168	20.8 (12)	175	4.6 (34)	898	87.3 (28)	1,789	1.5 (25)
Washtenaw	923	75.4 (15)	581	39.9 (6)	649	21.0 (4)	345	22.6 (9)	452	14.2 (5)	2,192	85.2 (40)	4,332	1.0 (16)
Wayne	11,433	53.0 (57)	7,508	22.6 (40)	7,994	9.4 (46)	4,870	7.9 (29)	6,362	3.8 (37)	25,319	66.6 (72)	51,633	1.7 (32)
Wexford	209	79.4 (10)	149	34.9 (14)	178	19.7 (7)	92	*	129	11.6 (13)	474	87.8 (24)	926	3.2 (60)
<b>Michigan</b>	<b>41,962</b>	<b>62.8</b>	<b>27,182</b>	<b>28.3</b>	<b>29,487</b>	<b>13.2</b>	<b>17,060</b>	<b>15.7</b>	<b>22,234</b>	<b>7.7</b>	<b>90,944</b>	<b>77.9</b>	<b>187,913</b>	<b>1.6</b>
<b>National (Prior Year)</b>	<b>132,310</b>	<b>65.7</b>	<b>63,488</b>	<b>26.1</b>	<b>72,112</b>	<b>13.7</b>	<b>50,061</b>	<b>17.9</b>	<b>57,863</b>	<b>7.3</b>	<b>205,447</b>	<b>78.2</b>	<b>571,316</b>	<b>3.8</b>

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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.

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# WIC PNSS & PedNSS

## Table 6B

### 2019 - 2021 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	91	*	*	224	7.6 (41)	1.8 (7)	13.4 (72)	105	20.0 (71)	16.2 (52)	149	15.4 (62)
Alger	80	*	*	225	6.2 (19)	3.1 (21)	13.8 (76)	89	*	*	118	9.3 (28)
Allegan	1,162	9.9 (46)	8.2 (44)	4,440	6.2 (19)	3.9 (47)	11.3 (40)	1,953	15.1 (10)	15.0 (41)	2,764	18.1 (71)
Alpena	415	8.9 (30)	10.1 (68)	1,122	8.6 (64)	3.7 (44)	11.2 (39)	447	18.6 (62)	14.8 (38)	568	15.0 (58)
Antrim	209	8.1 (13)	10.5 (73)	847	6.6 (26)	6.1 (77)	11.0 (34)	394	19.3 (69)	13.2 (17)	501	7.6 (20)
Arenac	285	9.8 (45)	8.4 (50)	766	8.4 (60)	3.3 (28)	10.8 (31)	330	14.5 (5)	16.1 (50)	403	9.7 (31)
Baraga	125	7.2 (4)	8.0 (38)	267	6.7 (27)	3.0 (19)	10.9 (32)	118	22.9 (80)	12.7 (9)	137	12.4 (48)
Barry	547	10.4 (49)	8.0 (38)	1,655	6.3 (23)	3.1 (21)	9.8 (9)	706	16.9 (41)	13.5 (20)	824	4.6 (5)
Bay	1,384	11.1 (59)	8.3 (47)	3,549	7.3 (37)	2.0 (8)	11.7 (46)	1,488	18.3 (58)	16.1 (50)	2,048	9.6 (30)
Benzie	218	8.3 (16)	10.1 (68)	626	6.9 (30)	5.1 (69)	12.1 (54)	259	15.8 (19)	18.1 (73)	345	9.3 (28)
Berrien	2,233	9.7 (44)	5.0 (4)	6,493	6.7 (27)	4.2 (53)	10.3 (19)	2,688	16.7 (36)	14.1 (28)	3,737	10.1 (34)
Branch	901	9.2 (37)	8.3 (47)	2,031	9.5 (78)	5.0 (67)	9.7 (8)	728	15.2 (12)	12.4 (6)	928	15.1 (60)
Calhoun	2,462	10.8 (56)	6.7 (14)	6,571	7.7 (43)	5.4 (73)	12.1 (54)	2,380	16.8 (38)	17.4 (66)	3,074	15.6 (65)
Cass	794	8.3 (16)	8.9 (60)	2,859	5.0 (7)	3.2 (25)	11.7 (46)	1,272	14.9 (8)	16.2 (52)	1,737	15.4 (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.

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

# WIC PNSS & PedNSS

## Table 6B

### 2019 - 2021 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	281	11.4 (63)	6.8 (15)	1,199	8.3 (54)	3.6 (37)	12.0 (52)	546	16.5 (32)	17.8 (72)	753	8.6 (26)
Cheboygan	320	10.6 (51)	7.8 (35)	839	7.0 (31)	4.9 (64)	12.8 (65)	338	20.4 (73)	17.5 (67)	358	20.1 (75)
Chippewa	480	7.3 (5)	12.9 (77)	1,319	8.9 (70)	4.3 (56)	16.0 (82)	596	16.4 (27)	17.6 (69)	595	15.1 (60)
Clare	517	7.9 (10)	5.6 (8)	1,469	8.7 (65)	4.6 (60)	10.6 (29)	621	19.0 (66)	15.1 (42)	737	6.2 (14)
Clinton	356	12.9 (69)	11.0 (75)	1,105	9.3 (74)	3.6 (37)	14.7 (79)	467	20.1 (72)	14.3 (29)	615	1.8 (2)
Crawford	228	7.9 (10)	9.6 (66)	519	6.7 (27)	1.3 (2)	13.7 (75)	230	17.8 (55)	18.7 (74)	338	17.8 (70)
Delta	547	8.2 (15)	6.9 (16)	1,681	10.1 (80)	1.7 (6)	12.6 (60)	698	16.9 (41)	14.3 (29)	1,010	8.3 (25)
Dickinson	343	9.0 (34)	8.5 (54)	891	6.5 (25)	3.3 (28)	11.4 (41)	391	15.1 (10)	16.6 (58)	474	15.6 (65)
Eaton	625	11.7 (64)	8.2 (44)	1,997	8.1 (50)	3.6 (37)	11.9 (50)	847	21.0 (76)	16.4 (56)	913	6.0 (13)
Emmet	374	8.6 (22)	7.0 (18)	1,451	7.5 (39)	4.0 (50)	10.1 (15)	655	18.5 (60)	12.5 (7)	878	6.4 (16)
Genesee	6,907	12.9 (69)	4.9 (3)	15,239	9.3 (74)	2.9 (17)	11.6 (43)	6,341	15.2 (12)	12.8 (11)	8,442	19.5 (74)
Gladwin	347	8.9 (30)	7.8 (35)	1,257	8.5 (62)	3.5 (35)	11.6 (43)	608	16.8 (38)	15.5 (44)	754	10.6 (36)
Gogebic	145	9.0 (34)	8.3 (47)	430	3.5 (2)	4.4 (58)	15.8 (81)	214	16.4 (27)	21.0 (79)	267	5.6 (12)
Gr Travers	1,051	9.6 (41)	12.0 (76)	2,558	4.2 (3)	6.6 (79)	10.0 (10)	1,061	19.1 (68)	13.3 (19)	1,214	18.7 (72)

(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

### 2019 - 2021 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	557	7.4 (6)	8.4 (50)	1,534	7.2 (34)	3.8 (46)	12.5 (58)	612	15.7 (18)	19.6 (75)	824	1.6 (1)
Hillsdale	594	9.4 (39)	7.2 (23)	1,395	8.0 (47)	1.4 (4)	13.1 (69)	593	15.0 (9)	16.4 (56)	839	11.9 (45)
Houghton	461	6.1 (2)	10.4 (72)	945	8.8 (67)	2.0 (8)	10.4 (23)	457	16.0 (23)	11.6 (3)	630	4.9 (9)
Huron	382	8.9 (30)	9.4 (63)	1,103	8.3 (54)	3.4 (31)	11.6 (43)	468	16.5 (32)	12.2 (5)	671	4.6 (5)
Ingham	4,590	10.9 (57)	6.0 (11)	11,557	8.3 (54)	5.3 (71)	10.3 (19)	4,264	16.4 (27)	13.8 (25)	5,310	10.4 (35)
Ionia	840	8.3 (16)	9.2 (62)	2,533	5.5 (9)	5.3 (71)	10.3 (19)	1,010	17.9 (56)	14.6 (35)	1,430	5.1 (10)
Iosco	383	8.4 (20)	7.3 (26)	901	7.5 (39)	3.2 (25)	10.5 (26)	385	21.3 (77)	14.0 (26)	544	15.6 (65)
Iron	149	10.7 (53)	10.1 (68)	387	6.2 (19)	3.1 (21)	12.7 (61)	185	21.6 (78)	16.8 (61)	235	9.8 (33)
Isabella	934	10.7 (53)	8.5 (54)	2,445	8.2 (52)	3.9 (47)	11.9 (50)	916	16.5 (32)	20.0 (77)	1,147	6.5 (17)
Jackson	2,625	11.2 (61)	7.7 (32)	7,424	5.7 (12)	9.1 (82)	10.2 (18)	2,823	18.0 (57)	16.8 (61)	3,441	15.7 (68)
Kalamazoo	3,361	12.0 (66)	6.5 (13)	8,584	6.0 (17)	5.4 (73)	10.0 (10)	3,062	17.0 (43)	14.5 (33)	4,369	26.8 (79)
Kalkaska	261	10.7 (53)	8.4 (50)	616	8.9 (70)	2.6 (13)	11.5 (42)	288	17.7 (52)	13.2 (17)	386	12.2 (46)
Kent	8,441	13.7 (76)	5.6 (8)	26,029	9.5 (78)	2.8 (16)	12.0 (52)	11,446	15.8 (19)	14.5 (33)	15,799	11.8 (44)
Lake	144	10.4 (49)	6.9 (16)	383	7.6 (41)	3.4 (31)	8.9 (2)	177	15.8 (19)	10.2 (1)	200	11.5 (41)

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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

### 2019 - 2021 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	1,002	10.0 (47)	7.3 (26)	2,583	5.5 (9)	3.9 (47)	9.3 (4)	1,032	15.9 (22)	14.8 (38)	1,414	13.4 (53)
Leelanau	100	10.0 (47)	7.0 (18)	346	4.3 (4)	2.9 (17)	14.2 (77)	159	22.6 (79)	17.6 (69)	198	8.1 (22)
Lenawee	1,102	8.1 (13)	7.3 (26)	2,453	8.8 (67)	3.0 (19)	13.3 (71)	1,059	16.8 (38)	16.3 (54)	1,354	28.1 (80)
Livingston	934	12.5 (68)	7.1 (21)	2,102	8.3 (54)	2.3 (12)	8.9 (2)	963	16.4 (27)	12.1 (4)	1,384	7.5 (19)
Luce	108	11.1 (59)	10.2 (71)	307	4.9 (5)	3.3 (28)	8.1 (1)	114	16.7 (36)	11.4 (2)	169	4.7 (7)
Mackinac	98	*	*	332	5.7 (12)	5.4 (73)	10.5 (26)	175	15.4 (14)	13.7 (24)	193	2.6 (3)
Macomb	8,576	11.7 (64)	5.4 (7)	18,148	7.0 (31)	3.6 (37)	11.0 (34)	7,273	14.8 (7)	13.5 (20)	9,667	12.6 (49)
Manistee	246	13.4 (75)	8.1 (42)	613	7.2 (34)	3.6 (37)	11.1 (38)	281	17.1 (44)	14.6 (35)	380	16.1 (69)
Marquette	633	7.7 (9)	9.5 (64)	1,916	9.4 (77)	4.0 (50)	12.8 (65)	761	18.4 (59)	15.6 (46)	717	5.3 (11)
Mason	361	8.6 (22)	7.5 (30)	944	6.3 (23)	3.7 (44)	10.0 (10)	430	14.7 (6)	13.0 (14)	500	11.4 (40)
Mecosta	639	8.0 (12)	8.0 (38)	1,651	8.7 (65)	3.2 (25)	12.7 (61)	712	17.6 (51)	16.7 (60)	870	6.2 (14)
Menominee	224	7.1 (3)	8.0 (38)	646	8.0 (47)	3.6 (37)	14.6 (78)	257	18.7 (64)	17.1 (65)	369	11.7 (43)
Midland	863	8.8 (29)	10.0 (67)	2,404	10.1 (80)	2.7 (14)	13.6 (74)	946	17.3 (46)	15.5 (44)	1,096	14.8 (57)
Missaukee	174	8.6 (22)	8.6 (58)	423	5.4 (8)	1.2 (1)	13.0 (67)	202	17.3 (46)	14.4 (31)	268	10.8 (37)

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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.

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# WIC PNSS & PedNSS

## Table 6B

### 2019 - 2021 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	1,709	10.6 (51)	7.1 (21)	4,090	8.9 (70)	4.9 (64)	10.5 (26)	1,535	17.1 (44)	14.8 (38)	2,048	14.4 (56)
Montcalm	884	10.9 (57)	7.4 (29)	2,268	8.8 (67)	3.6 (37)	10.1 (15)	875	15.4 (14)	13.5 (20)	1,195	2.7 (4)
Montmorenc	130	13.1 (73)	7.7 (32)	319	8.5 (62)	6.9 (80)	11.0 (34)	120	9.2 (1)	17.5 (67)	160	15.0 (58)
Muskegon	3,358	11.2 (61)	5.3 (6)	8,392	8.4 (60)	4.2 (53)	11.8 (49)	3,102	16.2 (26)	14.4 (31)	4,067	15.5 (64)
Newaygo	955	8.6 (22)	7.9 (37)	2,519	8.1 (50)	2.7 (14)	12.4 (57)	1,082	17.7 (52)	16.8 (61)	1,268	11.1 (39)
Oakland	8,913	12.9 (69)	5.7 (10)	22,571	8.3 (54)	4.6 (60)	10.1 (15)	8,992	15.4 (14)	12.8 (11)	11,421	21.9 (77)
Oceana	404	8.4 (20)	7.2 (23)	1,212	7.1 (33)	3.1 (21)	12.5 (58)	574	19.7 (70)	17.6 (69)	725	12.7 (50)
Ogemaw	322	7.5 (8)	8.1 (42)	808	8.2 (52)	2.1 (10)	13.2 (70)	363	18.5 (60)	14.0 (26)	499	7.6 (20)
Ontonagon	43	*	*	100	3.0 (1)	5.0 (67)	10.0 (10)	46	*	*	68	*
Osceola	377	12.2 (67)	7.7 (32)	867	8.3 (54)	4.6 (60)	10.4 (23)	376	16.0 (23)	14.6 (35)	486	13.8 (55)
Oscoda	103	8.7 (26)	8.7 (59)	291	9.3 (74)	2.1 (10)	12.7 (61)	137	17.5 (49)	15.3 (43)	182	8.2 (23)
Otsego	364	9.6 (41)	8.5 (54)	1,434	5.9 (15)	7.7 (81)	12.3 (56)	632	20.6 (75)	16.6 (58)	809	11.5 (41)
Ottawa	2,626	9.4 (39)	8.5 (54)	8,748	5.5 (9)	3.4 (31)	10.4 (23)	3,875	15.5 (17)	13.0 (14)	5,384	28.8 (81)
Presque Is	92	*	*	247	4.9 (5)	6.1 (77)	13.0 (67)	104	13.5 (2)	20.2 (78)	139	20.9 (76)

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(7) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age >= 85th to < 95th percentile, and obesity is defined as >= 95th percentile.

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# WIC PNSS & PedNSS

## Table 6B

### 2019 - 2021 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	273	4.0 (1)	7.0 (18)	726	6.2 (19)	4.0 (50)	9.6 (7)	297	13.8 (3)	12.5 (7)	367	9.0 (27)
Saginaw	3,333	13.3 (74)	4.8 (2)	8,419	5.7 (12)	5.6 (76)	9.5 (6)	2,957	16.6 (35)	13.6 (23)	4,153	12.8 (51)
Sanilac	482	9.3 (38)	6.2 (12)	1,109	13.5 (82)	1.3 (2)	15.0 (80)	495	18.6 (62)	21.2 (80)	681	13.7 (54)
Schoolcraf	114	9.6 (41)	10.5 (73)	306	7.8 (45)	4.2 (53)	12.7 (61)	121	17.4 (48)	19.8 (76)	150	4.7 (7)
Shiawassee	962	9.0 (34)	7.5 (30)	2,350	5.9 (15)	4.3 (56)	10.3 (19)	1,008	18.8 (65)	15.9 (48)	1,353	7.1 (18)
St Clair	1,822	8.7 (26)	7.2 (23)	4,885	8.0 (47)	5.2 (70)	10.7 (30)	1,803	19.0 (66)	16.3 (54)	2,357	9.7 (31)
St Joseph	1,076	7.4 (6)	8.9 (60)	2,984	9.0 (73)	3.5 (35)	11.7 (46)	1,217	17.7 (52)	15.9 (48)	1,596	12.2 (46)
Tuscola	744	8.3 (16)	8.2 (44)	2,431	7.3 (37)	4.5 (59)	10.9 (32)	1,033	17.5 (49)	15.7 (47)	1,237	8.2 (23)
Van Buren	1,188	8.9 (30)	8.4 (50)	4,293	6.1 (18)	3.4 (31)	13.4 (72)	1,898	16.0 (23)	16.8 (61)	2,559	10.8 (37)
Washtenaw	2,790	12.9 (69)	5.2 (5)	6,590	7.2 (34)	4.6 (60)	9.3 (4)	2,682	16.4 (27)	12.7 (9)	3,506	19.0 (73)
Wayne	36,740	13.9 (77)	4.6 (1)	80,122	7.8 (45)	4.9 (64)	10.0 (10)	31,183	14.4 (4)	13.0 (14)	41,828	22.7 (78)
Wexford	676	8.7 (26)	9.5 (64)	1,513	7.7 (43)	1.6 (5)	11.0 (34)	697	20.4 (73)	12.8 (11)	936	13.1 (52)
<b>Michigan</b>	<b>132,727</b>	<b>11.9</b>	<b>6.1</b>	<b>334,039</b>	<b>7.7</b>	<b>4.3</b>	<b>4.3</b>	<b>134,873</b>	<b>16.0</b>	<b>15.3</b>	<b>178,304</b>	<b>16.4</b>

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(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

### 2019 - 2021 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	91	*	62	*	73	*	47	*	54	*	224	84.8 (53)	442	1.8 (23)
Alger	80	*	73	*	55	*	54	*	65	*	200	85.0 (51)	401	3.7 (61)
Allegan	1,188	70.8 (49)	811	30.9 (53)	1,007	16.0 (32)	539	23.0 (34)	699	11.9 (35)	2,888	92.1 (5)	5,722	1.4 (18)
Alpena	416	70.2 (52)	292	33.2 (45)	338	10.7 (66)	181	17.1 (51)	241	7.9 (59)	948	85.8 (45)	1,883	3.0 (49)
Antrim	222	81.5 (12)	153	47.7 (5)	155	18.1 (22)	89	*	128	19.5 (8)	549	85.6 (48)	1,074	6.6 (80)
Arenac	286	70.6 (50)	201	33.3 (44)	219	15.1 (41)	127	16.5 (54)	170	8.2 (57)	653	87.4 (33)	1,295	4.6 (72)
Baraga	127	78.0 (20)	91	*	79	*	61	*	82	*	268	87.7 (29)	539	2.0 (28)
Barry	557	79.7 (18)	373	35.4 (30)	398	18.6 (19)	219	29.2 (17)	328	13.1 (28)	1,319	89.2 (19)	2,639	1.9 (27)
Bay	1,391	63.7 (66)	749	28.3 (62)	1,152	14.1 (49)	418	21.1 (41)	698	4.6 (69)	3,217	87.7 (29)	6,411	2.4 (34)
Benzie	218	80.7 (15)	154	42.9 (10)	149	16.1 (31)	96	*	135	20.0 (7)	515	80.4 (69)	1,052	5.4 (76)
Berrien	2,245	69.8 (54)	1,558	33.4 (43)	1,206	14.6 (46)	1,125	21.1 (41)	1,325	10.1 (45)	4,137	76.2 (76)	9,111	3.6 (58)
Branch	913	71.7 (44)	555	29.7 (58)	638	15.8 (35)	353	19.5 (45)	475	11.2 (41)	1,578	79.1 (70)	3,548	3.1 (53)
Calhoun	2,487	69.6 (55)	1,623	30.6 (55)	1,853	14.5 (47)	928	19.7 (44)	1,209	9.2 (50)	5,087	92.1 (5)	10,480	1.1 (7)

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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

### 2019 - 2021 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	794	72.3 (42)	539	38.0 (20)	635	15.0 (42)	378	24.9 (26)	447	17.4 (12)	1,898	96.3 (2)	3,661	1.3 (16)
Charlevoix	298	83.6 (7)	237	46.0 (6)	217	20.3 (11)	138	39.1 (2)	202	18.8 (10)	766	90.3 (12)	1,527	2.2 (30)
Cheboygan	321	74.5 (36)	216	38.0 (20)	245	15.9 (33)	148	31.8 (11)	185	18.4 (11)	662	86.7 (38)	1,337	3.4 (55)
Chippewa	481	63.4 (67)	301	33.6 (40)	343	20.7 (8)	189	33.3 (8)	270	21.9 (1)	1,140	89.7 (15)	2,267	4.8 (73)
Clare	517	67.7 (60)	409	30.8 (54)	422	12.6 (56)	264	21.6 (40)	345	11.3 (39)	1,265	89.6 (16)	2,431	4.3 (70)
Clinton	359	83.3 (8)	224	33.0 (46)	247	15.0 (42)	128	28.1 (20)	192	11.5 (37)	892	86.1 (44)	1,791	1.8 (23)
Crawford	229	80.3 (16)	140	44.3 (7)	183	22.4 (7)	95	*	125	21.6 (2)	519	80.9 (64)	1,041	2.5 (35)
Delta	552	75.9 (33)	402	40.8 (15)	441	14.3 (48)	277	23.8 (30)	319	13.2 (25)	1,099	86.4 (42)	2,306	2.6 (41)
Dickinson	345	70.4 (51)	241	41.5 (12)	296	17.9 (23)	149	35.6 (5)	208	20.7 (5)	875	89.5 (17)	1,656	1.0 (4)
Eaton	649	82.1 (10)	429	37.1 (23)	484	16.7 (30)	241	16.6 (53)	354	7.1 (62)	1,504	80.6 (68)	3,010	1.6 (21)
Emmet	379	86.3 (2)	296	52.4 (2)	260	23.1 (5)	174	43.1 (1)	244	20.9 (4)	939	86.5 (40)	1,821	3.0 (49)
Genesee	6,932	53.1 (77)	4,529	23.2 (68)	4,414	11.0 (65)	2,754	12.5 (61)	3,540	6.9 (63)	14,059	82.3 (60)	29,227	2.3 (32)
Gladwin	348	78.7 (19)	280	43.6 (8)	321	19.9 (12)	151	35.1 (6)	236	15.3 (18)	1,099	83.7 (57)	1,917	4.0 (67)
Gogebic	147	71.4 (46)	133	39.1 (19)	123	15.4 (38)	81	*	112	16.1 (15)	384	81.3 (63)	757	3.7 (61)

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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.

(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

### 2019 - 2021 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	1,059	82.7 (9)	626	47.8 (4)	730	25.1 (2)	367	36.2 (4)	503	13.1 (28)	2,162	89.5 (17)	4,404	1.1 (7)
Gratiot	559	80.1 (17)	386	37.0 (24)	353	19.0 (16)	206	27.7 (21)	316	11.4 (38)	1,239	84.0 (56)	2,534	2.3 (32)
Hillsdale	597	75.5 (34)	379	31.7 (50)	360	13.3 (54)	227	26.4 (23)	318	14.8 (21)	1,267	83.1 (58)	2,650	3.7 (61)
Houghton	462	86.6 (1)	375	52.3 (3)	366	26.2 (1)	257	32.7 (10)	324	17.0 (13)	1,176	91.8 (8)	2,239	1.0 (4)
Huron	383	76.5 (26)	277	36.8 (25)	228	12.3 (59)	180	12.2 (62)	235	6.4 (64)	863	84.8 (53)	1,759	3.8 (64)
Ingham	4,638	73.6 (39)	2,821	35.0 (36)	3,123	17.3 (26)	1,777	19.1 (46)	2,322	10.4 (44)	9,621	89.1 (20)	19,953	1.1 (7)
Ionia	846	81.2 (14)	591	35.4 (30)	703	17.9 (23)	381	28.3 (19)	514	14.0 (23)	1,857	87.3 (36)	3,750	1.8 (23)
Iosco	384	60.4 (72)	251	27.5 (63)	286	11.9 (61)	152	16.4 (55)	208	7.7 (60)	812	85.8 (45)	1,696	3.0 (49)
Iron	149	73.2 (41)	102	34.3 (39)	121	19.8 (13)	80	*	90	*	448	88.8 (22)	794	5.0 (75)
Isabella	936	67.9 (58)	666	35.3 (33)	720	13.9 (50)	406	23.9 (27)	531	11.1 (42)	1,944	89.9 (14)	4,036	2.2 (30)
Jackson	2,640	67.6 (61)	2,373	35.9 (28)	2,124	12.1 (60)	1,344	21.7 (39)	1,917	12.4 (32)	6,295	76.1 (77)	12,244	2.9 (47)
Kalamazoo	3,427	67.3 (64)	2,262	31.2 (51)	2,141	13.9 (50)	1,513	23.1 (33)	1,955	8.4 (55)	6,664	75.3 (80)	14,726	1.6 (21)
Kalkaska	262	85.5 (4)	184	43.5 (9)	200	24.5 (3)	113	37.2 (3)	152	13.2 (25)	495	87.9 (28)	1,176	5.4 (76)
Kent	8,564	71.2 (47)	5,876	29.7 (58)	6,019	14.9 (44)	3,632	16.8 (52)	4,819	8.7 (53)	16,309	85.0 (51)	37,605	1.0 (4)

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

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

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# WIC PNSS & PedNSS

## Table 7B

### 2019 - 2021 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	144	67.4 (62)	91	*	119	12.6 (56)	73	*	80	*	363	77.1 (74)	687	6.7 (81)
Lapeer	1,008	76.2 (30)	817	36.2 (27)	827	17.5 (25)	530	18.1 (47)	713	8.4 (55)	2,278	87.6 (32)	4,643	1.2 (12)
Leelanau	101	86.1 (3)	75	*	63	*	39	*	61	*	293	75.4 (79)	538	0.7 (1)
Lenawee	1,103	68.8 (56)	791	31.1 (52)	709	18.6 (19)	558	23.3 (32)	713	12.3 (33)	2,186	78.6 (72)	4,673	2.7 (43)
Livingston	937	76.1 (32)	688	33.6 (40)	707	15.8 (35)	458	22.1 (38)	590	13.2 (25)	2,384	85.8 (45)	4,698	1.2 (12)
Luce	108	76.9 (24)	87	*	97	*	59	*	71	*	257	88.7 (23)	523	2.5 (35)
Mackinac	97	*	59	*	81	*	28	*	54	*	347	76.1 (77)	565	2.5 (35)
Macomb	8,652	60.2 (73)	5,952	25.6 (65)	6,601	11.5 (63)	4,148	13.6 (60)	5,146	7.7 (60)	16,948	80.7 (67)	36,709	1.1 (7)
Manistee	249	73.9 (38)	191	42.9 (10)	237	16.9 (28)	120	34.2 (7)	164	21.3 (3)	671	93.0 (3)	1,242	3.0 (49)
Marquette	637	81.5 (12)	390	35.1 (35)	523	19.7 (14)	185	33.0 (9)	278	14.7 (22)	1,504	96.5 (1)	2,969	1.3 (16)
Mason	362	71.5 (45)	230	33.5 (42)	300	15.3 (39)	169	28.4 (18)	201	12.9 (30)	848	85.4 (50)	1,656	4.8 (73)
Mecosta	642	68.5 (57)	476	31.9 (49)	569	15.5 (37)	309	23.0 (34)	390	9.2 (50)	1,373	91.3 (9)	2,885	2.7 (43)
Menominee	223	61.9 (70)	157	29.9 (57)	136	8.8 (70)	117	16.2 (59)	132	9.8 (48)	376	85.6 (48)	865	3.6 (58)
Midland	865	77.1 (23)	598	35.5 (29)	514	24.3 (4)	438	30.8 (13)	534	16.5 (14)	1,867	88.5 (25)	3,844	1.5 (19)

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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 - 2021 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	174	84.5 (5)	126	53.2 (1)	152	23.0 (6)	94	*	114	19.3 (9)	473	90.7 (10)	878	3.5 (56)
Monroe	1,721	62.9 (69)	1,313	26.4 (64)	1,229	11.2 (64)	872	16.4 (55)	1,151	5.7 (65)	3,436	82.6 (59)	7,298	3.8 (64)
Montcalm	888	83.8 (6)	567	39.9 (17)	557	18.7 (18)	317	30.3 (14)	457	16.0 (16)	1,795	84.8 (53)	3,844	3.5 (56)
Montmorenc	130	72.3 (42)	92	*	96	*	60	*	82	*	244	86.5 (40)	527	7.8 (82)
Muskegon	3,370	61.7 (71)	2,015	25.6 (65)	2,484	10.7 (66)	1,331	18.1 (47)	1,617	8.0 (58)	6,550	71.4 (81)	13,926	3.2 (54)
Newaygo	959	76.4 (27)	536	32.1 (48)	854	18.9 (17)	292	29.5 (16)	460	12.0 (34)	2,336	92.0 (7)	4,501	0.9 (2)
Oakland	9,112	70.0 (53)	6,381	30.6 (55)	5,550	13.7 (53)	4,721	17.7 (50)	5,507	10.6 (43)	19,105	76.7 (75)	39,842	1.2 (12)
Oceana	411	76.2 (30)	260	39.2 (18)	366	16.9 (28)	157	22.3 (37)	221	8.6 (54)	1,155	87.4 (33)	2,107	2.5 (35)
Ogemaw	322	66.8 (65)	217	29.5 (60)	235	10.2 (68)	138	23.9 (27)	188	9.0 (52)	762	86.4 (42)	1,491	6.0 (79)
Ontonagon	43	*	39	*	44	*	22	*	34	*	120	86.7 (38)	224	1.8 (23)
Osceola	381	73.5 (40)	297	35.0 (36)	304	18.4 (21)	187	23.5 (31)	239	11.3 (39)	885	88.5 (25)	1,742	4.2 (69)
Oscoda	104	71.2 (47)	77	*	74	*	60	*	68	*	265	90.2 (13)	521	3.6 (58)
Otsego	411	74.0 (37)	276	41.3 (13)	241	19.1 (15)	171	31.0 (12)	239	20.5 (6)	880	87.4 (33)	1,808	3.8 (64)
Ottawa	2,903	77.5 (21)	1,704	38.0 (20)	2,129	15.9 (33)	1,008	27.1 (22)	1,311	14.0 (23)	5,696	92.9 (4)	12,583	0.9 (2)

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# WIC PNSS & PedNSS

## Table 7B

### 2019 - 2021 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	92	*	83	*	82	*	50	*	71	*	225	88.4 (27)	439	2.5 (35)
Roscommon	273	74.7 (35)	204	35.3 (33)	223	12.6 (56)	131	20.6 (43)	168	11.9 (35)	617	80.9 (64)	1,257	5.4 (76)
Saginaw	3,346	59.7 (74)	2,220	21.0 (70)	2,032	9.1 (69)	1,653	10.9 (63)	1,976	5.1 (67)	7,142	77.4 (73)	14,757	2.9 (47)
Sanilac	497	53.3 (75)	335	28.7 (61)	330	13.9 (50)	228	25.4 (25)	300	16.0 (16)	1,033	82.3 (60)	2,129	2.1 (29)
Schoolcraf	114	76.3 (29)	95	*	83	*	58	*	79	*	245	80.8 (66)	497	2.8 (46)
Shiawassee	968	67.4 (62)	662	32.2 (47)	814	15.2 (40)	438	18.0 (49)	562	10.0 (46)	2,185	82.1 (62)	4,316	2.6 (41)
St Clair	1,831	63.4 (67)	1,273	25.6 (65)	1,518	11.6 (62)	774	16.4 (55)	1,125	9.9 (47)	3,659	78.7 (71)	7,654	4.0 (67)
St Joseph	1,090	81.8 (11)	795	36.5 (26)	852	17.0 (27)	502	25.5 (24)	600	12.8 (31)	2,736	87.0 (37)	5,362	1.5 (19)
Tuscola	746	76.9 (24)	547	34.4 (38)	606	14.7 (45)	344	16.3 (58)	468	5.3 (66)	1,874	88.7 (23)	3,627	2.7 (43)
Van Buren	1,225	67.8 (59)	790	35.4 (30)	936	13.1 (55)	551	23.0 (34)	655	9.6 (49)	2,829	90.5 (11)	5,538	1.2 (12)
Washtenaw	2,822	76.4 (27)	1,954	41.0 (14)	1,975	20.5 (9)	1,391	23.9 (27)	1,604	15.1 (19)	6,080	88.9 (21)	12,471	1.1 (7)
Wayne	37,511	53.2 (76)	24,691	23.1 (69)	23,973	8.7 (71)	17,286	8.6 (64)	21,250	4.7 (68)	74,413	68.5 (82)	156,680	2.5 (35)
Wexford	681	77.2 (22)	511	40.1 (16)	558	20.4 (10)	327	30.0 (15)	435	14.9 (20)	1,558	87.7 (29)	3,049	4.4 (71)

(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

### 2019 - 2021 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

<b>Michigan</b>	<b>134,815</b>	<b>64.6</b>	<b>90,943</b>	<b>29.4</b>	<b>93,252</b>	<b>13.1</b>	<b>60,462</b>	<b>16.8</b>	<b>76,726</b>	<b>8.8</b>	<b>279,931</b>	<b>79.6</b>	<b>584,738</b>	<b>2.2</b>
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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.

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