

# WIC PNSS & PedNSS

## Table 3B

### 2022 Pregnancy Nutrition Surveillance (1)

#### Michigan

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

<b>Comparison of Racial and Ethnic Distribution (2)</b>								
County	Number Included in Analysis	White, Not Hispanic  %	Black, Not Hispanic  %	Hispanic  %	American Indian/Alaska Native  %	Asian/Pacific Islander  %	Multiple Races  %	All Other/Unknown  %
Alcona	30	96.7	0.0	3.3	0.0	0.0	0.0	0.0
Alger	11	90.9	0.0	0.0	9.1	0.0	0.0	0.0
Allegan	378	77.2	1.9	16.1	0.0	0.3	4.5	0.0
Alpena	104	93.3	0.0	2.9	0.0	1.0	2.9	0.0
Antrim	54	98.1	0.0	0.0	0.0	0.0	1.9	0.0
Arenac	70	94.3	0.0	2.9	1.4	0.0	1.4	0.0
Baraga	31	54.8	0.0	3.2	32.3	0.0	9.7	0.0
Barry	147	94.6	1.4	2.0	0.7	0.0	1.4	0.0
Bay	374	82.4	1.9	8.6	0.3	0.3	5.6	1.1
Benzie	53	92.5	0.0	5.7	0.0	0.0	1.9	0.0
Berrien	548	53.3	30.7	8.6	0.4	2.0	5.1	0.0
Branch	222	82.9	5.0	9.0	0.0	0.9	2.3	0.0
Calhoun	695	62.3	20.3	7.6	0.1	3.5	6.0	0.1
Cass	202	61.4	8.4	22.3	0.0	0.0	5.4	2.5
Charlevoix	71	90.1	0.0	1.4	0.0	0.0	8.5	0.0
Cheboygan	96	84.4	2.1	2.1	0.0	0.0	11.5	0.0
Chippewa	128	59.4	0.8	0.8	25.0	0.8	13.3	0.0
Clare	155	90.3	1.3	5.8	0.0	0.6	1.9	0.0
Clinton	92	85.9	0.0	7.6	0.0	0.0	6.5	0.0
Crawford	65	87.7	0.0	7.7	0.0	0.0	4.6	0.0
Delta	132	84.8	0.8	3.8	3.0	0.0	7.6	0.0
Dickinson	85	92.9	0.0	3.5	0.0	2.4	1.2	0.0
Eaton	191	83.2	5.2	8.4	0.0	2.1	1.0	0.0

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors

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County	Number Included in Analysis	White, Not Hispanic  %	Black, Not Hispanic  %	Hispanic  %	American Indian/Alaska Native  %	Asian/Pacific Islander  %	Multiple Races  %	All Other/Unknown  %
Emmet	86	91.9	1.2	3.5	0.0	0.0	3.5	0.0
Genesee	1,895	51.3	36.4	6.1	0.1	0.2	5.6	0.3
Gladwin	93	95.7	1.1	1.1	0.0	0.0	2.2	0.0
Gogebic	36	86.1	2.8	0.0	5.6	0.0	5.6	0.0
Gr Travers	264	81.4	1.1	9.1	1.5	0.8	6.1	0.0
Gratiot	138	87.0	0.0	9.4	0.0	0.0	3.6	0.0
Hillsdale	150	90.7	0.0	4.7	1.3	0.0	3.3	0.0
Houghton	125	83.2	4.0	2.4	1.6	1.6	5.6	1.6
Huron	98	91.8	0.0	6.1	0.0	0.0	1.0	1.0
Ingham	1,408	43.8	26.0	16.3	0.1	6.3	7.3	0.2
Ionia	202	90.6	0.0	5.9	0.0	0.0	3.0	0.5
Iosco	95	87.4	0.0	6.3	0.0	0.0	6.3	0.0
Iron	50	94.0	0.0	0.0	0.0	0.0	4.0	2.0
Isabella	296	79.1	3.7	8.1	4.1	1.0	4.1	0.0
Jackson	663	74.1	12.4	6.8	0.0	0.6	6.2	0.0
Kalamazoo	830	45.7	36.3	9.6	0.1	1.2	6.4	0.7
Kalkaska	68	89.7	1.5	7.4	0.0	0.0	0.0	0.0
Kent	2,434	31.6	27.7	30.7	0.3	4.8	4.7	0.2
Lake	59	76.3	5.1	6.8	0.0	0.0	10.2	1.7
Lapeer	232	84.5	0.9	10.3	0.0	0.4	3.4	0.4
Leelanau	20	45.0	0.0	15.0	10.0	0.0	30.0	0.0
Lenawee	313	71.2	2.2	20.1	0.6	0.6	4.5	0.6
Livingston	244	88.1	1.6	2.5	0.0	1.6	5.3	0.8

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#### Michigan

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

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County	Number Included in Analysis	White, Not Hispanic  %	Black, Not Hispanic  %	Hispanic  %	American Indian/Alaska Native  %	Asian/Pacific Islander  %	Multiple Races  %	All Other/Unknown  %
Luce	27	74.1	0.0	0.0	7.4	0.0	18.5	0.0
Mackinac	31	51.6	0.0	6.5	6.5	0.0	35.5	0.0
Macomb	2,478	47.7	32.8	5.6	0.1	9.1	4.6	0.1
Manistee	61	90.2	1.6	3.3	0.0	0.0	3.3	1.6
Marquette	175	86.3	1.1	2.9	3.4	0.0	5.7	0.6
Mason	100	85.0	0.0	11.0	0.0	0.0	4.0	0.0
Mecosta	186	84.9	4.3	3.2	0.0	0.5	6.5	0.5
Menominee	67	65.7	0.0	4.5	9.0	0.0	10.4	10.4
Midland	251	84.1	3.6	8.0	0.0	0.4	4.0	0.0
Missaukee	59	93.2	1.7	3.4	0.0	0.0	1.7	0.0
Monroe	487	84.2	6.4	6.6	0.0	0.2	2.3	0.4
Montcalm	231	92.6	0.0	5.6	0.0	0.0	1.3	0.4
Montmorenc	33	87.9	0.0	6.1	3.0	0.0	3.0	0.0
Muskegon	848	56.5	25.4	11.7	0.4	0.6	5.4	0.1
Newaygo	299	74.2	1.0	20.7	0.3	0.3	2.7	0.7
Oakland	2,618	39.0	42.4	12.5	0.2	2.6	3.2	0.1
Oceana	108	50.0	0.0	43.5	0.0	0.0	3.7	2.8
Ogemaw	80	93.8	1.3	1.3	0.0	0.0	3.8	0.0
Ontonagon	12	83.3	0.0	16.7	0.0	0.0	0.0	0.0
Osceola	128	90.6	0.8	3.9	0.8	0.0	3.9	0.0
Oscoda	30	93.3	0.0	3.3	0.0	0.0	3.3	0.0
Otsego	93	88.2	2.2	4.3	0.0	0.0	5.4	0.0
Ottawa	789	55.4	5.2	33.3	0.0	1.8	3.7	0.6

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## Table 3B

### 2022 Pregnancy Nutrition Surveillance (1)

#### Michigan

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

<b>Comparison of Racial and Ethnic Distribution (2)</b>								
<b>County</b>	Number Included in Analysis	White, Not Hispanic  %	Black, Not Hispanic  %	Hispanic  %	American Indian/Alaska Native  %	Asian/Pacific Islander  %	Multiple Races  %	All Other/Unknown  %
Presque Is	29	89.7	0.0	3.4	0.0	0.0	6.9	0.0
Roscommon	80	97.5	0.0	0.0	0.0	0.0	2.5	0.0
Saginaw	863	42.1	28.0	17.6	0.2	0.3	11.5	0.2
Sanilac	139	92.8	0.7	4.3	0.0	0.0	1.4	0.7
Schoolcraf	26	73.1	0.0	3.8	11.5	0.0	11.5	0.0
Shiawassee	276	91.7	0.4	4.7	0.0	0.0	2.9	0.4
St Clair	462	81.0	4.5	5.2	0.0	0.2	9.1	0.0
St Joseph	306	70.6	0.0	23.9	0.0	0.3	4.6	0.7
Tuscola	188	94.7	0.5	3.2	0.0	0.0	1.6	0.0
Van Buren	326	58.0	3.7	30.7	0.0	0.3	5.8	1.5
Washtenaw	843	38.6	36.4	13.0	0.0	4.5	6.8	0.6
Wayne	9,523	30.0	53.2	10.6	0.1	3.1	2.8	0.2
Wexford	156	89.1	1.9	3.2	0.0	0.0	5.1	0.6
<b>Michigan</b>	<b>36,167</b>	<b>51.5</b>	<b>28.8</b>	<b>11.9</b>	<b>0.4</b>	<b>2.6</b>	<b>4.5</b>	<b>0.3</b>
<b>National (Prior Year)</b>	<b>59,334</b>	<b>48.7</b>	<b>29.4</b>	<b>13.0</b>	<b>1.9</b>	<b>2.5</b>	<b>4.1</b>	<b>0.3</b>

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# WIC PNSS & PedNSS

## Table 4B

### 2022 Pregnancy Nutrition Surveillance (1)

### Michigan

### Comparison of Age Distribution by County

<b>Comparison of Age Distribution (2)</b>								
<b>County</b>	Number Included in Analysis	< 15 Years %	15 - 17 Years %	18 - 19 Years %	20 - 29 Years %	30 - 39 Years %	>= 40 Years %	Unknown %
Alcona	30	0.0	6.7	10.0	46.7	33.3	3.3	0.0
Alger	11	0.0	0.0	0.0	54.5	45.5	0.0	0.0
Allegan	378	0.0	0.8	5.8	60.6	29.4	2.4	1.1
Alpena	104	0.0	2.9	7.7	57.7	31.7	0.0	0.0
Antrim	54	0.0	5.6	9.3	59.3	24.1	1.9	0.0
Arenac	70	0.0	4.3	11.4	60.0	24.3	0.0	0.0
Baraga	31	0.0	3.2	6.5	61.3	25.8	3.2	0.0
Barry	147	0.0	1.4	6.8	69.4	19.7	0.7	2.0
Bay	374	0.0	3.5	9.4	56.7	28.3	0.8	1.3
Benzie	53	1.9	0.0	9.4	50.9	34.0	1.9	1.9
Berrien	548	0.0	2.2	10.9	54.7	28.1	2.4	1.6
Branch	222	0.0	1.4	8.6	63.1	24.3	2.3	0.5
Calhoun	695	0.0	2.9	7.9	60.6	26.5	0.9	1.3
Cass	202	0.0	0.5	7.4	60.4	29.2	0.5	2.0
Charlevoix	71	0.0	0.0	11.3	64.8	21.1	2.8	0.0
Cheboygan	96	0.0	1.0	8.3	58.3	31.3	1.0	0.0
Chippewa	128	0.0	2.3	5.5	61.7	28.9	0.8	0.8
Clare	155	0.0	0.0	10.3	64.5	23.9	0.6	0.6
Clinton	92	0.0	2.2	4.3	55.4	34.8	2.2	1.1
Crawford	65	0.0	3.1	15.4	63.1	13.8	4.6	0.0
Delta	132	0.0	0.0	8.3	61.4	29.5	0.8	0.0
Dickinson	85	1.2	0.0	4.7	61.2	31.8	1.2	0.0
Eaton	191	0.0	3.1	11.5	51.8	28.8	2.6	2.1
Emmet	86	0.0	1.2	5.8	59.3	32.6	1.2	0.0

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## Table 4B

### 2022 Pregnancy Nutrition Surveillance (1)

#### Michigan

#### Comparison of Age Distribution by County

<b>Comparison of Age Distribution (2)</b>								
<b>County</b>	Number Included in Analysis	< 15 Years %	15 - 17 Years %	18 - 19 Years %	20 - 29 Years %	30 - 39 Years %	>= 40 Years %	Unknown %
Genesee	1,895	0.2	1.6	7.3	62.1	26.8	1.4	0.7
Gladwin	93	0.0	1.1	4.3	66.7	26.9	0.0	1.1
Gogebic	36	0.0	0.0	5.6	55.6	38.9	0.0	0.0
Gr Travers	264	0.4	1.5	3.8	58.0	34.1	2.3	0.0
Gratiot	138	0.0	0.7	9.4	67.4	20.3	2.2	0.0
Hillsdale	150	0.0	5.3	6.7	58.0	26.7	2.7	0.7
Houghton	125	0.0	1.6	9.6	67.2	20.8	0.8	0.0
Huron	98	0.0	1.0	6.1	65.3	26.5	1.0	0.0
Ingham	1,408	0.0	1.8	5.5	60.6	29.0	2.1	1.0
Ionia	202	0.0	1.5	3.5	64.9	27.7	1.5	1.0
Iosco	95	0.0	2.1	8.4	55.8	30.5	3.2	0.0
Iron	50	0.0	0.0	2.0	80.0	16.0	2.0	0.0
Isabella	296	0.0	1.4	4.4	65.2	25.7	2.0	1.4
Jackson	663	0.2	2.9	6.9	61.1	26.4	1.1	1.5
Kalamazoo	830	0.0	2.0	7.6	59.8	26.6	2.7	1.3
Kalkaska	68	0.0	5.9	10.3	57.4	20.6	1.5	4.4
Kent	2,434	0.2	1.5	6.1	56.7	30.9	3.2	1.3
Lake	59	0.0	1.7	6.8	59.3	30.5	1.7	0.0
Lapeer	232	0.0	0.4	3.9	65.5	28.4	0.9	0.9
Leelanau	20	0.0	0.0	0.0	45.0	55.0	0.0	0.0
Lenawee	313	0.0	1.3	5.8	63.3	27.2	1.0	1.6
Livingston	244	0.0	0.8	3.7	57.8	34.8	2.5	0.4
Luce	27	0.0	3.7	18.5	40.7	29.6	7.4	0.0
Mackinac	31	0.0	3.2	6.5	54.8	32.3	3.2	0.0

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## Table 4B

### 2022 Pregnancy Nutrition Surveillance (1)

### Michigan

### Comparison of Age Distribution by County

<b>Comparison of Age Distribution (2)</b>								
<b>County</b>	Number Included in Analysis	< 15 Years %	15 - 17 Years %	18 - 19 Years %	20 - 29 Years %	30 - 39 Years %	>= 40 Years %	Unknown %
Macomb	2,478	0.0	0.8	3.4	56.4	36.4	2.7	0.3
Manistee	61	0.0	0.0	6.6	57.4	32.8	1.6	1.6
Marquette	175	0.0	0.6	5.1	61.7	30.3	2.3	0.0
Mason	100	0.0	1.0	9.0	63.0	24.0	1.0	2.0
Mecosta	186	0.0	1.6	8.1	65.1	24.2	1.1	0.0
Menominee	67	1.5	4.5	10.4	56.7	26.9	0.0	0.0
Midland	251	0.0	0.4	4.8	63.7	29.9	1.2	0.0
Missaukee	59	0.0	1.7	8.5	55.9	32.2	1.7	0.0
Monroe	487	0.0	0.8	6.2	64.7	27.3	0.6	0.4
Montcalm	231	0.0	2.6	9.1	69.3	16.5	0.0	2.6
Montmorenc	33	0.0	6.1	6.1	66.7	15.2	6.1	0.0
Muskegon	848	0.0	2.4	7.5	61.3	26.4	1.3	1.1
Newaygo	299	0.0	1.7	5.7	66.2	23.4	1.3	1.7
Oakland	2,618	0.0	0.9	4.3	55.5	36.0	2.8	0.4
Oceana	108	0.0	0.9	6.5	61.1	24.1	3.7	3.7
Ogemaw	80	0.0	1.3	13.8	56.3	25.0	2.5	1.3
Ontonagon	12	8.3	0.0	0.0	58.3	33.3	0.0	0.0
Osceola	128	0.0	1.6	5.5	64.8	26.6	0.8	0.8
Oscoda	30	0.0	6.7	10.0	50.0	33.3	0.0	0.0
Otsego	93	0.0	0.0	7.5	64.5	24.7	3.2	0.0
Ottawa	789	0.1	2.2	7.7	58.2	29.8	1.5	0.5
Presque Is	29	0.0	0.0	10.3	65.5	24.1	0.0	0.0
Roscommon	80	0.0	5.0	5.0	65.0	21.3	1.3	2.5
Saginaw	863	0.3	1.3	7.0	58.5	29.9	1.9	1.2

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# WIC PNSS & PedNSS

## Table 4B

### 2022 Pregnancy Nutrition Surveillance <sup>(1)</sup>

### Michigan

### Comparison of Age Distribution by County

<b>Comparison of Age Distribution <sup>(2)</sup></b>								
<b>County</b>	Number Included in Analysis	< 15 Years %	15 - 17 Years %	18 - 19 Years %	20 - 29 Years %	30 - 39 Years %	>= 40 Years %	Unknown %
Sanilac	139	0.0	2.2	4.3	67.6	25.2	0.7	0.0
Schoolcraf	26	0.0	0.0	3.8	65.4	30.8	0.0	0.0
Shiawassee	276	0.4	1.8	5.4	64.1	26.4	1.8	0.0
St Clair	462	0.0	1.5	8.7	60.6	27.3	0.9	1.1
St Joseph	306	0.0	2.0	8.5	62.1	24.8	2.0	0.7
Tuscola	188	0.0	1.6	5.9	67.6	23.4	1.1	0.5
Van Buren	326	0.0	1.8	6.7	60.4	27.6	1.2	2.1
Washtenaw	843	0.0	1.9	5.6	56.3	32.7	3.3	0.1
Wayne	9,523	0.1	1.7	5.2	55.5	33.9	3.0	0.6
Wexford	156	0.0	1.9	7.1	63.5	23.7	1.9	1.9
<b>Michigan</b>	<b>36,170</b>	<b>0.1</b>	<b>1.6</b>	<b>6.0</b>	<b>58.5</b>	<b>30.7</b>	<b>2.3</b>	<b>0.8</b>
<b>National (Prior Year)</b>	<b>59,336</b>	<b>0.1</b>	<b>2.1</b>	<b>6.3</b>	<b>59.2</b>	<b>29.7</b>	<b>2.3</b>	<b>0.3</b>

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# WIC PNSS & PedNSS

## Table 5B

### 2022 Pregnancy Nutrition Surveillance (1)

#### Michigan

#### Comparison of Maternal Health Indicators by County

<b>Comparison of Maternal Health Indicators (2,3)</b>														
County	Prepregnancy BMI			Weight Gain			Anemia (Low Hb/Hct)				Gestational Diabetes During Pregnancy		Hypertension During Pregnancy	
	(4)			(5)			(6)							
	Under- weight	Over- weight		< Ideal	> Ideal		3rd Trimester		Postpartum					
Number	% (Rank)	% (Rank)	Number	% (Rank)	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	
Alcona	26	0.0 (1)	61.5 (41)	15	6.7 (4)	53.3 (50)	2	0.0 (1)	0	0.0 (1)	26	11.5 (63)	26	19.2 (69)
Alger	4	0.0 (1)	50.0 (4)	2	50.0 (82)	0.0 (1)	2	0.0 (1)	3	0.0 (1)	10	10.0 (46)	10	0.0 (1)
Allegan	247	5.7 (56)	62.8 (54)	138	20.3 (51)	55.1 (59)	60	20.0 (45)	103	31.1 (55)	345	8.4 (28)	346	13.3 (33)
Alpena	92	8.7 (80)	55.4 (14)	23	30.4 (76)	60.9 (71)	10	20.0 (45)	6	33.3 (57)	90	10.0 (46)	90	14.4 (40)
Antrim	45	8.9 (81)	48.9 (3)	12	25.0 (66)	58.3 (67)	9	33.3 (59)	6	33.3 (57)	51	7.8 (25)	51	9.8 (16)
Arenac	63	1.6 (10)	71.4 (79)	50	16.0 (25)	56.0 (62)	8	0.0 (1)	14	0.0 (1)	67	6.0 (14)	67	16.4 (53)
Baraga	27	7.4 (72)	51.9 (6)	19	21.1 (54)	47.4 (23)	0	0.0 (1)	1	100.0 (80)	29	10.3 (49)	29	13.8 (37)
Barry	113	4.4 (46)	59.3 (31)	39	10.3 (8)	66.7 (76)	4	0.0 (1)	0	0.0 (1)	142	14.1 (74)	143	17.5 (62)
Bay	257	8.6 (79)	56.4 (15)	106	13.2 (15)	52.8 (47)	10	30.0 (56)	10	30.0 (52)	353	7.1 (17)	353	13.3 (33)
Benzie	49	8.2 (77)	53.1 (10)	23	13.0 (14)	47.8 (26)	3	0.0 (1)	12	33.3 (57)	52	0.0 (1)	52	19.2 (69)
Berrien	505	4.2 (39)	60.6 (39)	361	18.0 (41)	53.7 (54)	25	24.0 (47)	53	20.8 (37)	489	9.4 (37)	490	17.6 (64)
Branch	106	8.5 (78)	56.6 (16)	42	26.2 (68)	45.2 (15)	11	45.5 (73)	23	39.1 (67)	207	7.7 (23)	207	9.2 (11)
Calhoun	595	4.7 (49)	62.5 (52)	420	19.8 (47)	54.3 (58)	12	50.0 (75)	6	33.3 (57)	627	5.7 (11)	628	11.3 (18)
Cass	167	3.6 (21)	66.5 (72)	112	22.3 (60)	55.4 (60)	26	15.4 (40)	21	23.8 (39)	186	11.3 (61)	186	20.4 (74)
Charlevoix	50	2.0 (11)	64.0 (61)	5	40.0 (80)	40.0 (6)	13	15.4 (40)	15	20.0 (36)	68	8.8 (31)	68	17.6 (64)
Cheboygan	77	3.9 (31)	62.3 (50)	20	30.0 (74)	45.0 (13)	8	12.5 (39)	9	33.3 (57)	81	16.0 (80)	81	12.3 (27)
Chippewa	123	4.1 (36)	56.9 (19)	86	30.2 (75)	50.0 (32)	16	25.0 (48)	20	50.0 (74)	113	9.7 (41)	113	6.2 (2)

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

(2) Excludes records with unknown data or errors.

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

(4) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI >30.0).

(5) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight prepregnancy (ideal weight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(6) Based on 1990 MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States"; adjusted for altitude and smoking.

\* 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 5B 2022 Pregnancy Nutrition Surveillance (1) Michigan

### Comparison of Maternal Health Indicators by County

<b>Comparison of Maternal Health Indicators (2,3)</b>														
<b>County</b>	Prepregnancy BMI			Weight Gain			Anemia (Low Hb/Hct)				Gestational Diabetes During Pregnancy		Hypertension During Pregnancy	
	(4)			(5)			(6)							
	Under- weight		Over- weight	< Ideal		> Ideal	3rd Trimester		Postpartum					
	Number	% (Rank)	% (Rank)	Number	% (Rank)	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Clare	121	5.0 (51)	65.3 (68)	30	13.3 (16)	56.7 (63)	6	50.0 (75)	18	27.8 (48)	137	9.5 (38)	137	13.9 (39)
Clinton	80	3.8 (27)	63.8 (60)	56	10.7 (10)	51.8 (44)	5	0.0 (1)	1	0.0 (1)	86	12.8 (71)	86	11.6 (22)
Crawford	60	3.3 (14)	63.3 (57)	42	26.2 (68)	45.2 (15)	1	100.0 (80)	3	66.7 (79)	61	4.9 (8)	61	6.6 (5)
Delta	125	4.0 (34)	63.2 (56)	89	27.0 (72)	46.1 (18)	14	35.7 (65)	28	21.4 (38)	125	11.2 (58)	125	16.8 (56)
Dickinson	67	6.0 (60)	52.2 (9)	37	16.2 (28)	56.8 (64)	0	0.0 (1)	0	0.0 (1)	77	2.6 (2)	77	11.7 (23)
Eaton	118	4.2 (39)	61.0 (40)	35	17.1 (35)	51.4 (40)	2	0.0 (1)	0	0.0 (1)	172	15.1 (77)	173	12.7 (29)
Emmet	78	3.8 (27)	65.4 (69)	34	26.5 (70)	44.1 (12)	16	25.0 (48)	14	28.6 (49)	84	4.8 (7)	84	9.5 (13)
Genesee	1,426	3.6 (21)	62.1 (47)	702	18.9 (44)	54.1 (57)	5	40.0 (69)	10	30.0 (52)	1,737	9.3 (36)	1,739	17.3 (61)
Gladwin	79	5.1 (52)	59.5 (33)	57	14.0 (18)	52.6 (45)	15	26.7 (53)	11	18.2 (34)	87	4.6 (6)	87	19.5 (71)
Gogebic	30	3.3 (14)	63.3 (57)	19	10.5 (9)	47.4 (23)	3	0.0 (1)	3	0.0 (1)	31	9.7 (41)	31	6.5 (3)
Gr Travers	219	6.8 (66)	52.1 (7)	156	12.8 (13)	60.9 (71)	10	40.0 (69)	15	26.7 (45)	243	4.9 (8)	243	12.3 (27)
Gratiot	119	0.8 (6)	63.0 (55)	76	22.4 (61)	53.9 (55)	0	0.0 (1)	3	0.0 (1)	127	12.6 (69)	127	11.8 (26)
Hillsdale	140	4.3 (44)	60.0 (36)	98	14.3 (19)	57.1 (65)	10	30.0 (56)	23	34.8 (66)	139	7.2 (19)	139	6.5 (3)
Houghton	113	8.0 (76)	54.9 (12)	83	18.1 (42)	49.4 (31)	2	0.0 (1)	0	0.0 (1)	113	14.2 (75)	113	17.7 (67)
Huron	86	3.5 (18)	70.9 (78)	63	19.0 (45)	54.0 (56)	16	31.3 (58)	15	26.7 (45)	89	12.4 (68)	89	14.6 (45)
Ingham	1,139	3.8 (27)	59.3 (31)	653	16.7 (30)	53.4 (52)	24	41.7 (71)	16	25.0 (41)	1,338	6.8 (16)	1,340	12.8 (30)
Ionia	154	6.5 (64)	64.9 (66)	113	23.9 (64)	51.3 (39)	21	19.0 (44)	23	26.1 (44)	183	15.8 (78)	183	17.5 (62)

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

(2) Excludes records with unknown data or errors.

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

(4) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI >30.0).

(5) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight prepregnancy (ideal weight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(6) Based on 1990 MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States"; adjusted for altitude and smoking.

\* 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 5B

### 2022 Pregnancy Nutrition Surveillance (1)

#### Michigan

#### Comparison of Maternal Health Indicators by County

<b>Comparison of Maternal Health Indicators (2,3)</b>														
<b>County</b>	Prepregnancy BMI			Weight Gain			Anemia (Low Hb/Hct)				Gestational Diabetes During Pregnancy		Hypertension During Pregnancy	
	(4)			(5)			(6)							
	Under- weight		Over- weight	< Ideal		> Ideal	3rd Trimester		Postpartum					
	Number	% (Rank)	% (Rank)	Number	% (Rank)	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Iosco	77	7.8 (75)	68.8 (74)	42	16.7 (30)	71.4 (78)	4	0.0 (1)	7	28.6 (49)	85	5.9 (12)	85	15.3 (49)
Iron	27	11.1 (82)	48.1 (2)	7	0.0 (1)	42.9 (10)	0	0.0 (1)	0	0.0 (1)	44	15.9 (79)	44	6.8 (6)
Isabella	284	3.9 (31)	64.4 (64)	231	14.3 (19)	57.1 (65)	8	0.0 (1)	13	15.4 (31)	278	12.6 (69)	278	20.1 (73)
Jackson	574	3.7 (25)	63.6 (59)	384	13.5 (17)	59.1 (69)	19	15.8 (42)	13	30.8 (54)	614	9.6 (40)	612	16.5 (54)
Kalamazoo	640	6.3 (63)	59.1 (29)	319	17.9 (40)	53.0 (49)	0	0.0 (1)	0	0.0 (1)	755	10.3 (49)	754	13.8 (37)
Kalkaska	61	6.6 (65)	47.5 (1)	42	14.3 (19)	47.6 (25)	3	0.0 (1)	1	0.0 (1)	57	3.5 (3)	57	7.0 (7)
Kent	1,314	3.7 (25)	56.6 (16)	495	21.2 (55)	46.5 (19)	358	37.7 (68)	521	25.0 (41)	2,250	9.7 (41)	2,252	18.6 (68)
Lake	53	5.7 (56)	54.7 (11)	37	21.6 (58)	48.6 (27)	0	0.0 (1)	1	0.0 (1)	54	11.1 (56)	54	24.1 (80)
Lapeer	188	5.9 (59)	60.1 (37)	146	26.7 (71)	50.7 (36)	0	0.0 (1)	0	0.0 (1)	223	4.9 (8)	223	11.7 (23)
Leelanau	13	7.7 (73)	76.9 (82)	6	16.7 (30)	66.7 (76)	1	100.0 (80)	1	0.0 (1)	17	11.8 (64)	17	17.6 (64)
Lenawee	275	5.1 (52)	65.1 (67)	185	15.7 (24)	51.4 (40)	0	0.0 (1)	6	33.3 (57)	271	8.5 (29)	270	19.6 (72)
Livingston	188	6.9 (67)	57.4 (22)	109	17.4 (37)	50.5 (34)	13	7.7 (37)	16	18.8 (35)	222	10.8 (55)	222	21.6 (77)
Luce	24	4.2 (39)	58.3 (24)	10	10.0 (7)	60.0 (70)	4	0.0 (1)	5	40.0 (68)	24	4.2 (5)	24	20.8 (75)
Mackinac	29	6.9 (67)	55.2 (13)	21	14.3 (19)	71.4 (78)	4	50.0 (75)	2	50.0 (74)	27	11.1 (56)	27	22.2 (78)
Macomb	2,254	3.8 (27)	60.5 (38)	1,881	18.8 (43)	48.8 (28)	26	26.9 (54)	48	14.6 (30)	2,330	10.1 (48)	2,334	11.5 (19)
Manistee	43	2.3 (12)	67.4 (73)	33	21.2 (55)	42.4 (9)	0	0.0 (1)	0	0.0 (1)	53	11.3 (61)	52	11.5 (19)
Marquette	146	6.2 (62)	51.4 (5)	107	22.4 (61)	51.4 (40)	1	0.0 (1)	2	0.0 (1)	160	10.6 (53)	160	13.1 (32)

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

(2) Excludes records with unknown data or errors.

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

(4) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI >30.0).

(5) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight prepregnancy (ideal weight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(6) Based on 1990 MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States"; adjusted for altitude and smoking.

\* 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 5B 2022 Pregnancy Nutrition Surveillance (1) Michigan

### Comparison of Maternal Health Indicators by County

<b>Comparison of Maternal Health Indicators (2,3)</b>														
<b>County</b>	Prepregnancy BMI			Weight Gain			Anemia (Low Hb/Hct)				Gestational Diabetes During Pregnancy		Hypertension During Pregnancy	
	(4)			(5)			(6)							
	Under- weight		Over- weight	< Ideal		> Ideal	3rd Trimester		Postpartum					
	Number	% (Rank)	% (Rank)	Number	% (Rank)	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Mason	93	1.1 (8)	68.8 (74)	64	17.2 (36)	46.9 (20)	1	0.0 (1)	0	0.0 (1)	93	9.7 (41)	93	17.2 (60)
Mecosta	125	0.8 (6)	62.4 (51)	51	19.6 (46)	47.1 (21)	0	0.0 (1)	2	0.0 (1)	177	7.3 (20)	177	24.9 (81)
Menominee	58	0.0 (1)	62.1 (47)	45	20.0 (49)	64.4 (74)	7	71.4 (79)	15	40.0 (68)	51	5.9 (12)	51	25.5 (82)
Midland	188	5.3 (54)	59.6 (35)	90	12.2 (12)	51.1 (38)	14	35.7 (65)	12	25.0 (41)	239	13.4 (73)	239	15.1 (48)
Missaukee	56	3.6 (21)	58.9 (28)	37	32.4 (78)	51.4 (40)	1	0.0 (1)	1	100.0 (80)	52	7.7 (23)	52	11.5 (19)
Monroe	459	4.6 (48)	64.1 (62)	349	19.8 (47)	50.7 (36)	17	11.8 (38)	15	13.3 (27)	445	7.6 (21)	445	17.1 (58)
Montcalm	201	3.5 (18)	61.7 (42)	144	8.3 (5)	61.1 (73)	1	0.0 (1)	9	0.0 (1)	213	8.5 (29)	214	11.7 (23)
Montmorenc	28	7.1 (70)	57.1 (20)	14	21.4 (57)	50.0 (32)	0	0.0 (1)	2	50.0 (74)	31	12.9 (72)	31	9.7 (15)
Muskegon	785	3.6 (21)	65.9 (70)	562	16.0 (25)	55.9 (61)	8	25.0 (48)	1	100.0 (80)	784	7.9 (26)	783	20.9 (76)
Newaygo	260	3.5 (18)	58.8 (27)	195	25.1 (67)	45.6 (17)	0	0.0 (1)	4	0.0 (1)	277	11.9 (65)	276	17.0 (57)
Oakland	2,237	4.2 (39)	62.7 (53)	1,484	16.5 (29)	53.3 (50)	28	46.4 (74)	84	29.8 (51)	2,408	7.6 (21)	2,408	14.5 (43)
Oceana	80	1.3 (9)	70.0 (77)	56	16.1 (27)	58.9 (68)	4	25.0 (48)	7	14.3 (29)	95	18.9 (81)	95	9.5 (13)
Ogemaw	74	4.1 (36)	59.5 (33)	41	9.8 (6)	65.9 (75)	7	0.0 (1)	5	0.0 (1)	76	9.2 (35)	76	17.1 (58)
Ontonagon	12	0.0 (1)	58.3 (24)	11	27.3 (73)	36.4 (4)	2	50.0 (75)	2	50.0 (74)	12	33.3 (82)	12	16.7 (55)
Osceola	35	5.7 (56)	57.1 (20)	23	21.7 (59)	39.1 (5)	3	33.3 (59)	9	11.1 (26)	117	10.3 (49)	117	14.5 (43)
Oscoda	22	4.5 (47)	72.7 (81)	5	0.0 (1)	80.0 (81)	3	0.0 (1)	6	33.3 (57)	25	4.0 (4)	25	8.0 (8)
Otsego	60	3.3 (14)	61.7 (42)	5	0.0 (1)	80.0 (81)	17	29.4 (55)	22	27.3 (47)	89	6.7 (15)	89	15.7 (51)

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

(2) Excludes records with unknown data or errors.

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

(4) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI >30.0).

(5) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight prepregnancy (ideal weight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(6) Based on 1990 MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States"; adjusted for altitude and smoking.

\* 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 5B 2022 Pregnancy Nutrition Surveillance (1) Michigan

### Comparison of Maternal Health Indicators by County

<b>Comparison of Maternal Health Indicators (2,3)</b>														
<b>County</b>	Prepregnancy BMI			Weight Gain			Anemia (Low Hb/Hct)				Gestational Diabetes During Pregnancy		Hypertension During Pregnancy	
	(4)			(5)			(6)							
	Under- weight		Over- weight	< Ideal		> Ideal	3rd Trimester		Postpartum					
	Number	% (Rank)	% (Rank)	Number	% (Rank)	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Ottawa	375	7.2 (71)	56.8 (18)	102	17.6 (39)	47.1 (21)	106	34.0 (63)	162	24.1 (40)	717	9.5 (38)	718	9.2 (11)
Presque Is	25	0.0 (1)	72.0 (80)	5	40.0 (80)	40.0 (6)	0	0.0 (1)	3	0.0 (1)	27	14.8 (76)	27	22.2 (78)
Roscommon	71	5.6 (55)	52.1 (7)	9	11.1 (11)	77.8 (80)	3	33.3 (59)	4	50.0 (74)	77	9.1 (33)	76	10.5 (17)
Saginaw	510	3.1 (13)	64.7 (65)	255	20.4 (52)	50.6 (35)	1	0.0 (1)	23	47.8 (73)	814	9.7 (41)	815	14.4 (40)
Sanilac	29	6.9 (67)	58.6 (26)	6	33.3 (79)	33.3 (2)	4	25.0 (48)	12	16.7 (33)	125	10.4 (52)	125	14.4 (40)
Schoolcraf	26	7.7 (73)	57.7 (23)	21	23.8 (63)	33.3 (2)	3	33.3 (59)	5	40.0 (68)	25	12.0 (66)	25	8.0 (8)
Shiawassee	241	4.1 (36)	62.2 (49)	201	20.4 (52)	49.3 (30)	0	0.0 (1)	2	0.0 (1)	254	7.1 (17)	254	8.3 (10)
St Clair	445	4.7 (49)	64.3 (63)	354	16.9 (33)	52.8 (47)	28	35.7 (65)	57	33.3 (57)	403	11.2 (58)	404	16.1 (52)
St Joseph	253	4.0 (34)	66.4 (71)	114	14.9 (23)	53.5 (53)	8	0.0 (1)	15	13.3 (27)	273	10.6 (53)	273	15.0 (47)
Tuscola	144	4.2 (39)	61.8 (45)	71	16.9 (33)	45.1 (14)	6	16.7 (43)	7	42.9 (71)	179	11.2 (58)	179	15.6 (50)
Van Buren	268	3.4 (17)	69.8 (76)	78	32.1 (77)	41.0 (8)	43	34.9 (64)	61	16.4 (32)	291	12.0 (66)	292	13.7 (36)
Washtenaw	645	4.3 (44)	59.2 (30)	410	24.6 (65)	43.9 (11)	90	43.3 (72)	144	32.6 (56)	731	8.8 (31)	731	14.9 (46)
Wayne	6,984	3.9 (31)	61.7 (42)	4,296	17.4 (37)	52.6 (45)	0	0.0 (1)	7	42.9 (71)	8,870	8.3 (27)	8,873	12.8 (30)
Wexford	131	6.1 (61)	61.8 (45)	100	20.0 (49)	49.0 (29)	2	100.0 (80)	3	33.3 (57)	143	9.1 (33)	142	13.4 (35)
<b>Michigan</b>	<b>27,827</b>	<b>4.2</b>	<b>61.3</b>	<b>17,076</b>	<b>18.2</b>	<b>52.1</b>	<b>1,217</b>	<b>31.5</b>	<b>1,825</b>	<b>26.2</b>	<b>33,353</b>	<b>8.9</b>	<b>33,367</b>	<b>14.3</b>
<b>National (Prior Year)</b>	<b>43,658</b>	<b>3.8</b>	<b>61.8</b>	<b>28,976</b>	<b>18.3</b>	<b>52.2</b>	<b>1,922</b>	<b>25.7</b>	<b>2,038</b>	<b>23.0</b>	<b>46,346</b>	<b>9.7</b>	<b>46,202</b>	<b>13.3</b>

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

(2) Excludes records with unknown data or errors.

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

(4) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI >30.0).

(5) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight prepregnancy (ideal weight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(6) Based on 1990 MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States"; adjusted for altitude and smoking.

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# WIC PNSS & PedNSS

## Table 6B

### 2022 Pregnancy Nutrition Surveillance (1)

#### Michigan

#### Comparison of Maternal Behavioral Indicators by County

<b>Comparison of Maternal Behavioral Indicators (2,3)</b>									
<b>County</b>	Medical Care			WIC Enrollment		Multivitamin Consumption			
	1st Trimester		No Care	1st Trimester		Prepregnancy (4)		During Pregnancy (5)	
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Alcona	26	80.8 (65)	11.5 (63)	29	34.5 (34)	30	30.0 (35)	25	88.0 (73)
Alger	10	90.0 (22)	0.0 (1)	11	0.0 (82)	11	27.3 (44)	9	100.0 (1)
Allegan	339	89.7 (24)	4.1 (26)	354	28.2 (61)	372	23.9 (60)	256	87.5 (76)
Alpena	91	86.8 (41)	8.8 (50)	96	31.3 (47)	99	22.2 (63)	76	94.7 (22)
Antrim	51	90.2 (20)	5.9 (34)	52	32.7 (45)	54	18.5 (75)	40	92.5 (40)
Arenac	67	80.6 (67)	14.9 (72)	65	36.9 (25)	68	27.9 (41)	47	85.1 (79)
Baraga	28	82.1 (62)	10.7 (58)	30	33.3 (42)	31	25.8 (49)	24	100.0 (1)
Barry	142	92.3 (12)	1.4 (8)	136	27.2 (68)	146	37.7 (20)	110	96.4 (11)
Bay	350	80.6 (67)	13.4 (68)	357	37.8 (23)	369	29.8 (37)	294	91.5 (51)
Benzie	51	84.3 (54)	5.9 (34)	51	29.4 (54)	51	68.6 (2)	34	94.1 (25)
Berrien	472	73.3 (76)	10.8 (60)	518	33.4 (41)	520	25.4 (50)	395	92.9 (36)
Branch	207	87.4 (37)	3.9 (23)	210	24.8 (75)	218	26.1 (47)	160	91.9 (48)
Calhoun	629	94.8 (6)	2.9 (16)	649	33.9 (37)	672	31.5 (29)	509	93.3 (33)
Cass	182	95.6 (5)	3.8 (22)	188	36.2 (29)	194	23.7 (61)	151	86.8 (77)
Charlevoix	68	86.8 (41)	1.5 (9)	67	14.9 (81)	71	45.1 (10)	54	98.1 (5)
Cheboygan	85	78.8 (71)	12.9 (65)	91	33.0 (43)	95	35.8 (23)	77	96.1 (13)
Chippewa	116	93.1 (10)	0.9 (6)	123	24.4 (76)	121	65.3 (3)	100	95.0 (20)
Clare	142	83.8 (56)	9.2 (52)	152	40.8 (18)	153	31.4 (30)	127	89.0 (66)
Clinton	84	85.7 (46)	7.1 (41)	88	36.4 (28)	77	51.9 (6)	71	97.2 (8)
Crawford	63	85.7 (46)	7.9 (44)	63	54.0 (4)	64	25.0 (56)	54	90.7 (56)

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

(2) Excludes records with unknown data or errors.

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

(4) Women who reported taking a multivitamin four times a weeks or more in the month before pregnancy; proxy for folic acid consumption.

(5) Pregnant women who reported taking a multivitamin in the past month; proxy for prenatal iron consumption.

\* 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 6B

### 2022 Pregnancy Nutrition Surveillance (1)

#### Michigan

#### Comparison of Maternal Behavioral Indicators by County

<b>Comparison of Maternal Behavioral Indicators (2,3)</b>									
<b>County</b>	Medical Care			WIC Enrollment		Multivitamin Consumption			
	1st Trimester		No Care	1st Trimester		Prepregnancy (4)		During Pregnancy (5)	
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Delta	127	90.6 (18)	1.6 (10)	124	31.5 (46)	130	25.4 (50)	87	92.0 (46)
Dickinson	76	90.8 (16)	7.9 (44)	82	35.4 (32)	83	18.1 (77)	70	97.1 (10)
Eaton	173	90.8 (16)	2.3 (14)	184	28.3 (60)	187	29.4 (40)	141	92.9 (36)
Emmet	84	92.9 (11)	3.6 (19)	79	27.8 (66)	85	40.0 (15)	59	88.1 (71)
Genesee	1,687	85.6 (49)	5.3 (32)	1,776	25.7 (72)	1,555	20.3 (69)	1,382	92.3 (43)
Gladwin	88	84.1 (55)	13.6 (69)	90	40.0 (19)	93	38.7 (18)	77	93.5 (30)
Gogebic	31	93.5 (9)	0.0 (1)	33	30.3 (52)	34	47.1 (8)	24	100.0 (1)
Gr Travers	243	80.7 (66)	14.4 (70)	252	30.6 (50)	259	30.5 (32)	175	89.7 (63)
Gratiot	125	86.4 (43)	10.4 (57)	135	41.5 (16)	118	43.2 (11)	113	97.3 (7)
Hillsdale	138	97.1 (2)	0.7 (5)	141	22.0 (80)	150	72.0 (1)	106	97.2 (8)
Houghton	113	79.6 (70)	12.4 (64)	114	34.2 (35)	122	39.3 (16)	92	89.1 (65)
Huron	87	87.4 (37)	9.2 (52)	93	28.0 (65)	95	36.8 (21)	68	88.2 (70)
Ingham	1,222	85.9 (44)	5.2 (31)	1,357	28.1 (62)	1,360	13.8 (79)	1,049	90.4 (57)
Ionia	183	92.3 (12)	3.3 (17)	192	30.2 (53)	201	25.4 (50)	144	95.1 (19)
Iosco	84	89.3 (28)	1.2 (7)	91	33.0 (43)	94	19.1 (74)	70	88.6 (69)
Iron	45	82.2 (61)	15.6 (74)	47	55.3 (1)	48	60.4 (5)	41	90.2 (58)
Isabella	280	85.4 (50)	10.7 (58)	280	42.9 (12)	288	33.0 (27)	240	92.5 (40)
Jackson	606	82.5 (60)	10.1 (56)	632	36.6 (27)	659	27.0 (46)	515	87.8 (75)
Kalamazoo	732	85.9 (44)	6.3 (37)	798	34.1 (36)	811	18.4 (76)	606	88.1 (71)
Kalkaska	57	68.4 (81)	17.5 (76)	66	28.8 (56)	67	31.3 (31)	50	96.0 (15)
Kent	2,229	82.9 (58)	8.4 (47)	2,317	26.6 (69)	2,066	20.8 (65)	1,765	89.5 (64)

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

(2) Excludes records with unknown data or errors.

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

(4) Women who reported taking a multivitamin four times a weeks or more in the month before pregnancy; proxy for folic acid consumption.

(5) Pregnant women who reported taking a multivitamin in the past month; proxy for prenatal iron consumption.

\* 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 6B

### 2022 Pregnancy Nutrition Surveillance <sup>(1)</sup>

#### Michigan

#### Comparison of Maternal Behavioral Indicators by County

<b>Comparison of Maternal Behavioral Indicators <sup>(2,3)</sup></b>									
<b>County</b>	Medical Care			WIC Enrollment		Multivitamin Consumption			
	1st Trimester		No Care	1st Trimester		Prepregnancy <sup>(4)</sup>		During Pregnancy <sup>(5)</sup>	
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Lake	55	74.5 (75)	14.5 (71)	56	42.9 (12)	58	27.6 (43)	44	79.5 (81)
Lapeer	222	83.8 (56)	10.8 (60)	215	33.5 (39)	229	25.3 (55)	154	94.2 (24)
Leelanau	17	88.2 (35)	5.9 (34)	20	55.0 (2)	18	38.9 (17)	17	76.5 (82)
Lenawee	270	94.1 (8)	1.9 (12)	292	33.6 (38)	308	19.5 (72)	217	94.0 (26)
Livingston	224	85.3 (51)	11.2 (62)	233	33.5 (39)	241	42.7 (12)	169	93.5 (30)
Luce	23	87.0 (40)	8.7 (49)	25	48.0 (8)	27	33.3 (26)	23	95.7 (16)
Mackinac	27	100.0 (1)	0.0 (1)	29	48.3 (6)	31	51.6 (7)	24	91.7 (49)
Macomb	2,291	90.2 (20)	4.1 (26)	2,303	25.8 (71)	1,942	9.2 (81)	1,725	95.4 (18)
Manistee	54	75.9 (74)	13.0 (67)	57	28.1 (62)	57	63.2 (4)	51	90.2 (58)
Marquette	162	81.5 (64)	16.0 (75)	166	41.0 (17)	157	36.3 (22)	134	94.0 (26)
Mason	93	82.8 (59)	6.5 (39)	88	23.9 (77)	98	29.6 (39)	72	91.7 (49)
Mecosta	175	89.1 (29)	8.6 (48)	178	54.5 (3)	178	19.7 (70)	147	91.2 (52)
Menominee	48	89.6 (25)	2.1 (13)	62	27.4 (67)	50	32.0 (28)	36	94.4 (23)
Midland	239	88.3 (34)	6.3 (37)	235	30.6 (50)	251	24.3 (58)	181	93.4 (32)
Missaukee	51	78.4 (73)	17.6 (77)	57	28.1 (62)	59	33.9 (25)	46	97.8 (6)
Monroe	447	85.7 (46)	9.4 (54)	461	31.0 (49)	452	20.4 (68)	353	93.8 (28)
Montcalm	210	85.2 (52)	9.0 (51)	211	28.4 (59)	187	47.1 (8)	154	96.1 (13)
Montmorenc	31	80.6 (67)	12.9 (65)	29	51.7 (5)	32	34.4 (24)	26	92.3 (43)
Muskegon	753	88.6 (32)	4.5 (29)	815	36.9 (25)	827	25.4 (50)	636	92.0 (46)
Newaygo	275	68.7 (79)	23.6 (80)	282	44.3 (11)	295	27.8 (42)	226	88.9 (68)
Oakland	2,389	89.9 (23)	4.3 (28)	2,461	24.9 (74)	2,458	24.4 (57)	1,814	92.4 (42)

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

(2) Excludes records with unknown data or errors.

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

(4) Women who reported taking a multivitamin four times a weeks or more in the month before pregnancy; proxy for folic acid consumption.

(5) Pregnant women who reported taking a multivitamin in the past month; proxy for prenatal iron consumption.

\* 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 6B

### 2022 Pregnancy Nutrition Surveillance (1)

#### Michigan

#### Comparison of Maternal Behavioral Indicators by County

<b>Comparison of Maternal Behavioral Indicators (2,3)</b>									
<b>County</b>	Medical Care			WIC Enrollment		Multivitamin Consumption			
	1st Trimester		No Care	1st Trimester		Prepregnancy (4)		During Pregnancy (5)	
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Oceana	92	64.1 (82)	28.3 (82)	103	46.6 (10)	103	24.3 (58)	81	90.1 (60)
Ogemaw	78	88.5 (33)	5.1 (30)	77	42.9 (12)	80	16.3 (78)	60	95.0 (20)
Ontonagon	12	91.7 (15)	8.3 (46)	12	25.0 (73)	12	41.7 (14)	11	100.0 (1)
Osceola	117	72.6 (77)	22.2 (79)	126	39.7 (20)	126	11.9 (80)	100	93.0 (35)
Oscoda	25	92.0 (14)	4.0 (24)	29	48.3 (6)	30	30.0 (35)	26	96.2 (12)
Otsego	90	94.4 (7)	3.3 (17)	89	23.6 (78)	89	30.3 (34)	65	92.3 (43)
Ottawa	712	90.6 (18)	5.3 (32)	747	28.5 (58)	740	20.8 (65)	517	93.2 (34)
Presque Is	27	88.9 (30)	7.4 (43)	28	28.6 (57)	29	37.9 (19)	27	92.6 (39)
Roscommon	77	89.6 (25)	2.6 (15)	76	39.5 (21)	71	25.4 (50)	67	85.1 (79)
Saginaw	804	85.1 (53)	7.0 (40)	821	36.1 (30)	850	21.3 (64)	648	90.9 (53)
Sanilac	125	96.0 (4)	4.0 (24)	135	39.3 (22)	138	29.7 (38)	114	95.6 (17)
Schoolcraf	25	88.0 (36)	0.0 (1)	26	42.3 (15)	26	19.2 (73)	20	90.0 (62)
Shiawassee	255	96.9 (3)	1.6 (10)	263	37.3 (24)	26	42.3 (13)	204	85.8 (78)
St Clair	405	68.6 (80)	24.7 (81)	437	47.6 (9)	459	26.1 (47)	372	90.9 (53)
St Joseph	265	69.8 (78)	21.9 (78)	284	35.2 (33)	296	22.6 (62)	229	90.8 (55)
Tuscola	178	88.8 (31)	7.3 (42)	176	31.3 (47)	187	30.5 (32)	142	88.0 (73)
Van Buren	280	78.6 (72)	15.4 (73)	315	26.0 (70)	311	8.4 (82)	227	89.0 (66)
Washtenaw	721	89.6 (25)	3.6 (19)	785	29.3 (55)	823	19.6 (71)	621	92.9 (36)
Wayne	8,708	87.2 (39)	3.7 (21)	9,012	22.4 (79)	7,860	20.5 (67)	6,527	90.1 (60)
Wexford	144	81.9 (63)	9.7 (55)	145	35.9 (31)	154	27.3 (44)	113	93.8 (28)

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

(2) Excludes records with unknown data or errors.

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

(4) Women who reported taking a multivitamin four times a weeks or more in the month before pregnancy; proxy for folic acid consumption.

(5) Pregnant women who reported taking a multivitamin in the past month; proxy for prenatal iron consumption.

\* 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 6B

### 2022 Pregnancy Nutrition Surveillance (1)

#### Michigan

#### Comparison of Maternal Behavioral Indicators by County

<b>Michigan</b>	<b>32,821</b>	<b>86.4</b>	<b>6.3</b>	<b>34,198</b>	<b>28.7</b>	<b>32,308</b>	<b>23.0</b>	<b>25,920</b>	<b>91.4</b>
<b>National (Prior Year)</b>	<b>49,482</b>	<b>82.8</b>	<b>6.3</b>	<b>46,872</b>	<b>27.8</b>	<b>44,153</b>	<b>22.9</b>	<b>40,545</b>	<b>92.5</b>

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

(2) Excludes records with unknown data or errors.

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

(4) Women who reported taking a multivitamin four times a weeks or more in the month before pregnancy; proxy for folic acid consumption.

(5) Pregnant women who reported taking a multivitamin in the past month; proxy for prenatal iron consumption.

\* 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 7B

### 2022 Pregnancy Nutrition Surveillance (1)

### Michigan

### Comparison of Smoking Indicators by County

<b>Comparison of Smoking Indicators (2,3)</b>										
<b>County</b>	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (4)		Smoking in Household			
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
	Number	% (rank)	Number	% (rank)			Number	% (rank)	Number	% (rank)
Alcona	30	33.3 (66)	26	34.6 (80)	6	0.0 (81)	25	16.0 (69)	26	3.8 (22)
Alger	10	40.0 (77)	9	22.2 (66)	3	66.7 (4)	9	0.0 (1)	10	20.0 (80)
Allegan	373	19.0 (19)	345	13.6 (45)	46	28.3 (61)	256	9.4 (50)	347	6.6 (50)
Alpena	102	39.2 (75)	88	22.7 (68)	26	30.8 (59)	76	10.5 (56)	90	5.6 (38)
Antrim	54	35.2 (67)	51	27.5 (78)	14	21.4 (70)	40	5.0 (21)	51	17.6 (79)
Arenac	69	17.4 (14)	68	7.4 (13)	7	42.9 (24)	47	21.3 (80)	68	13.2 (77)
Baraga	31	35.5 (69)	29	17.2 (55)	8	37.5 (36)	24	4.2 (13)	29	3.4 (20)
Barry	145	15.2 (9)	142	9.2 (19)	17	35.3 (43)	109	15.6 (67)	143	7.0 (52)
Bay	369	27.1 (49)	351	10.8 (27)	80	46.3 (18)	294	10.2 (55)	351	6.0 (44)
Benzie	53	22.6 (32)	52	17.3 (56)	8	25.0 (67)	35	5.7 (27)	52	9.6 (66)
Berrien	541	19.8 (21)	482	10.0 (21)	69	34.8 (46)	394	11.4 (58)	490	9.6 (66)
Branch	221	17.2 (13)	205	12.2 (35)	23	8.7 (79)	160	5.6 (25)	206	5.3 (37)
Calhoun	691	20.1 (24)	625	8.6 (18)	92	34.8 (46)	509	2.6 (6)	625	3.4 (20)
Cass	194	21.1 (26)	186	7.5 (15)	34	35.3 (43)	151	1.3 (5)	186	2.2 (7)
Charlevoix	71	26.8 (48)	68	13.2 (42)	14	35.7 (42)	54	16.7 (71)	68	2.9 (16)
Cheboygan	95	30.5 (58)	80	10.0 (21)	20	55.0 (8)	77	14.3 (66)	81	11.1 (71)
Chippewa	127	28.3 (53)	113	23.0 (69)	25	16.0 (77)	99	12.1 (61)	114	2.6 (13)
Clare	153	39.9 (76)	137	24.1 (72)	47	31.9 (56)	126	15.9 (68)	136	8.1 (60)

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

(2) Excludes records with unknown data or errors.

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

(4) Among women who smoked 3 months prior to pregnancy.

\* 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 7B

### 2022 Pregnancy Nutrition Surveillance (1)

### Michigan

### Comparison of Smoking Indicators by County

<b>Comparison of Smoking Indicators (2,3)</b>										
<b>County</b>	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (4)		Smoking in Household			
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
	Number	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Clinton	91	31.9 (63)	86	12.8 (37)	21	47.6 (17)	71	5.6 (25)	86	2.3 (10)
Crawford	65	23.1 (34)	63	12.7 (36)	12	41.7 (28)	54	20.4 (79)	63	7.9 (56)
Delta	131	32.8 (65)	126	23.0 (69)	28	17.9 (76)	87	8.0 (42)	125	8.0 (58)
Dickinson	83	30.1 (56)	77	19.5 (61)	18	22.2 (68)	70	0.0 (1)	77	3.9 (23)
Eaton	189	16.9 (10)	173	6.4 (10)	24	37.5 (36)	141	10.6 (57)	173	2.9 (16)
Emmet	86	25.6 (43)	83	19.3 (59)	16	18.8 (75)	58	8.6 (43)	82	4.9 (34)
Genesee	1,879	19.9 (22)	1,741	9.6 (20)	243	42.4 (27)	1,383	6.7 (34)	1,738	4.3 (29)
Gladwin	93	37.6 (73)	87	26.4 (77)	26	19.2 (74)	77	13.0 (63)	87	12.6 (74)
Gogebic	35	40.0 (77)	31	19.4 (60)	7	42.9 (24)	24	12.5 (62)	31	9.7 (68)
Gr Travers	262	32.4 (64)	243	17.7 (58)	49	32.7 (54)	175	7.4 (36)	244	9.0 (62)
Gratiot	135	30.4 (57)	127	14.2 (49)	31	51.6 (10)	113	9.7 (52)	127	6.3 (46)
Hillsdale	149	29.5 (54)	139	21.6 (64)	23	26.1 (64)	106	5.7 (27)	139	10.1 (69)
Houghton	123	37.4 (72)	113	24.8 (74)	29	31.0 (58)	92	8.7 (45)	113	4.4 (30)
Huron	94	26.6 (47)	89	11.2 (28)	17	41.2 (30)	68	5.9 (29)	89	7.9 (56)
Ingham	1,399	20.3 (25)	1,340	7.9 (17)	209	50.7 (11)	1,047	5.1 (22)	1,341	3.3 (19)
Ionia	200	23.5 (36)	183	12.0 (34)	29	37.9 (35)	143	11.9 (59)	183	4.9 (34)
Iosco	94	30.9 (59)	86	15.1 (51)	21	33.3 (48)	70	8.6 (43)	86	11.6 (73)
Iron	49	40.8 (79)	44	25.0 (75)	13	15.4 (78)	41	4.9 (18)	45	6.7 (51)
Isabella	294	21.4 (28)	278	12.9 (39)	51	35.3 (43)	240	7.9 (40)	278	5.8 (40)

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

(2) Excludes records with unknown data or errors.

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

(4) Among women who smoked 3 months prior to pregnancy.

\* 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 7B

### 2022 Pregnancy Nutrition Surveillance (1)

### Michigan

### Comparison of Smoking Indicators by County

<b>Comparison of Smoking Indicators (2,3)</b>										
<b>County</b>	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (4)		Smoking in Household			
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
	Number	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Jackson	661	21.3 (27)	618	12.8 (37)	104	26.9 (63)	515	9.7 (52)	616	4.2 (28)
Kalamazoo	819	17.5 (15)	754	7.7 (16)	94	33.0 (53)	605	4.0 (12)	756	4.4 (30)
Kalkaska	68	35.3 (68)	59	20.3 (63)	15	33.3 (48)	50	16.0 (69)	59	15.3 (78)
Kent	2,405	10.9 (5)	2,250	5.4 (7)	172	41.3 (29)	1,749	3.5 (10)	2,264	2.3 (10)
Lake	57	52.6 (82)	54	33.3 (79)	25	32.0 (55)	44	18.2 (74)	54	9.3 (64)
Lapeer	228	18.0 (18)	222	10.4 (25)	27	33.3 (48)	154	4.5 (16)	223	2.7 (14)
Leelanau	20	20.0 (23)	17	5.9 (8)	3	100.0 (1)	17	0.0 (1)	17	5.9 (42)
Lenawee	307	22.5 (31)	270	10.4 (25)	48	39.6 (34)	217	7.8 (38)	270	4.1 (27)
Livingston	242	23.6 (37)	223	10.3 (23)	30	43.3 (23)	169	5.9 (29)	223	4.5 (32)
Luce	27	25.9 (44)	24	16.7 (53)	4	75.0 (2)	23	8.7 (45)	24	8.3 (61)
Mackinac	31	22.6 (32)	27	3.7 (2)	4	75.0 (2)	24	16.7 (71)	27	0.0 (1)
Macomb	2,456	8.3 (2)	2,332	3.9 (3)	134	35.8 (41)	1,719	3.4 (9)	2,323	2.2 (7)
Manistee	59	23.7 (38)	53	24.5 (73)	11	27.3 (62)	51	7.8 (38)	53	9.4 (65)
Marquette	174	31.6 (62)	163	16.0 (52)	38	36.8 (39)	134	6.0 (31)	163	1.2 (4)
Mason	99	27.3 (50)	93	14.0 (47)	24	37.5 (36)	72	13.9 (65)	94	12.8 (75)
Mecosta	182	26.4 (45)	175	21.7 (65)	39	20.5 (71)	147	9.5 (51)	176	4.0 (24)
Menominee	56	35.7 (70)	51	17.6 (57)	9	55.6 (7)	36	25.0 (81)	51	7.8 (54)
Midland	250	21.6 (30)	240	12.9 (39)	35	45.7 (19)	181	5.5 (24)	240	2.5 (12)
Missaukee	59	16.9 (10)	53	13.2 (42)	3	33.3 (48)	46	6.5 (33)	53	5.7 (39)

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

(2) Excludes records with unknown data or errors.

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

(4) Among women who smoked 3 months prior to pregnancy.

\* 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 7B

### 2022 Pregnancy Nutrition Surveillance (1)

#### Michigan

#### Comparison of Smoking Indicators by County

<b>Comparison of Smoking Indicators (2,3)</b>										
<b>County</b>	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (4)		Smoking in Household			
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
	Number	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Monroe	482	24.1 (39)	446	11.4 (30)	80	45.0 (21)	352	8.8 (48)	447	4.0 (24)
Montcalm	230	26.5 (46)	214	10.3 (23)	46	56.5 (6)	154	7.1 (35)	214	6.5 (48)
Montmorenc	32	31.3 (61)	30	16.7 (53)	7	42.9 (24)	26	19.2 (76)	31	6.5 (48)
Muskegon	838	19.5 (20)	790	11.8 (31)	117	31.6 (57)	635	8.7 (45)	791	6.4 (47)
Newaygo	297	17.5 (15)	276	11.2 (28)	44	29.5 (60)	226	4.9 (18)	277	5.8 (40)
Oakland	2,592	9.2 (3)	2,406	4.2 (4)	156	48.1 (16)	1,807	2.6 (6)	2,413	1.8 (6)
Oceana	103	17.5 (15)	95	7.4 (13)	15	20.0 (72)	81	4.9 (18)	95	0.0 (1)
Ogemaw	80	38.8 (74)	76	22.4 (67)	25	44.0 (22)	60	25.0 (81)	77	9.1 (63)
Ontonagon	12	25.0 (42)	12	25.0 (75)	3	0.0 (81)	11	18.2 (74)	12	25.0 (82)
Osceola	126	27.8 (51)	117	23.9 (71)	26	7.7 (80)	100	12.0 (60)	117	5.1 (36)
Oscoda	30	30.0 (55)	25	20.0 (62)	6	50.0 (12)	26	7.7 (37)	25	8.0 (58)
Otsego	93	31.2 (60)	89	13.5 (44)	22	36.4 (40)	65	20.0 (77)	90	7.8 (54)
Ottawa	776	14.7 (8)	717	6.3 (9)	79	40.5 (31)	513	4.5 (16)	719	2.2 (7)
Presque Is	29	24.1 (39)	27	14.8 (50)	5	40.0 (32)	27	3.7 (11)	27	11.1 (71)
Roscommon	79	43.0 (80)	78	35.9 (81)	27	25.9 (66)	67	17.9 (73)	78	12.8 (75)
Saginaw	852	24.2 (41)	815	11.8 (31)	146	48.6 (15)	648	8.8 (48)	815	4.0 (24)
Sanilac	138	12.3 (6)	125	6.4 (10)	12	33.3 (48)	114	4.4 (15)	125	3.2 (18)
Schoolcraf	26	46.2 (81)	25	36.0 (82)	9	22.2 (68)	20	20.0 (77)	25	20.0 (80)
Shiawassee	273	7.7 (1)	252	4.8 (6)	15	20.0 (72)	205	0.5 (4)	251	0.8 (3)

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

(2) Excludes records with unknown data or errors.

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

(4) Among women who smoked 3 months prior to pregnancy.

\* 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 7B

### 2022 Pregnancy Nutrition Surveillance (1)

### Michigan

### Comparison of Smoking Indicators by County

<b>Comparison of Smoking Indicators (2,3)</b>										
<b>County</b>	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (4)		Smoking in Household			
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
	Number	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
St Clair	461	36.9 (71)	402	11.9 (33)	121	48.8 (14)	372	13.7 (64)	405	7.7 (53)
St Joseph	299	21.4 (28)	273	13.6 (45)	45	40.0 (32)	229	7.9 (40)	273	5.9 (42)
Tuscola	188	28.2 (52)	179	14.0 (47)	38	52.6 (9)	142	9.9 (54)	179	6.1 (45)
Van Buren	310	17.1 (12)	292	6.8 (12)	35	45.7 (19)	227	3.1 (8)	292	4.5 (32)
Washtenaw	834	12.8 (7)	730	4.5 (5)	66	50.0 (12)	621	4.2 (13)	731	1.5 (5)
Wayne	9,446	9.2 (3)	8,890	3.0 (1)	571	59.2 (5)	6,523	5.2 (23)	8,896	2.7 (14)
Wexford	155	23.2 (35)	146	13.0 (41)	23	26.1 (64)	113	6.2 (32)	146	11.0 (70)
<b>Michigan</b>	<b>35,790</b>	<b>16.2</b>	<b>33,383</b>	<b>7.8</b>	<b>3,964</b>	<b>41.7</b>	<b>25,877</b>	<b>6.1</b>	<b>33,429</b>	<b>3.8</b>
<b>National (Prior Year)</b>	<b>54,510</b>	<b>23.4</b>	<b>50,043</b>	<b>10.3</b>	<b>9,132</b>	<b>32.0</b>	<b>42,004</b>	<b>5.9</b>	<b>52,901</b>	<b>2.0</b>

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

(2) Excludes records with unknown data or errors.

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

(4) Among women who smoked 3 months prior to pregnancy.

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# WIC PNSS & PedNSS

## Table 8B

### 2022 Pregnancy Nutrition Surveillance (1)

### Michigan

### Comparison of Infant Health Indicators by County

<b>Comparison of Infant Health Indicators (2,3)</b>									
County	Birthweight			Preterm		Full Term LBW		Ever Breastfed	
	Low (4)		High (5)	(6)		(7)			
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Alcona	4	0.0 (1)	0.0 (1)	25	24.0 (81)	4	0.0 (1)	4	100.0 (1)
Alger	0	0.0 (1)	0.0 (1)	10	20.0 (79)	0	0.0 (1)	0	0.0 (82)
Allegan	78	17.9 (73)	2.6 (13)	335	14.3 (66)	67	11.9 (77)	78	100.0 (1)
Alpena	21	14.3 (61)	9.5 (58)	88	10.2 (20)	17	17.6 (82)	21	100.0 (1)
Antrim	16	12.5 (45)	6.3 (36)	49	2.0 (1)	15	6.7 (64)	17	100.0 (1)
Arenac	26	7.7 (25)	15.4 (78)	61	8.2 (8)	23	0.0 (1)	26	100.0 (1)
Baraga	5	0.0 (1)	20.0 (80)	28	10.7 (28)	4	0.0 (1)	5	100.0 (1)
Barry	38	13.2 (54)	2.6 (13)	140	15.7 (75)	30	6.7 (64)	38	100.0 (1)
Bay	119	13.4 (57)	10.9 (67)	333	14.1 (63)	98	3.1 (44)	120	99.2 (59)
Benzie	21	19.0 (75)	14.3 (75)	51	9.8 (18)	20	15.0 (81)	21	95.2 (80)
Berrien	109	12.8 (50)	7.3 (43)	476	13.7 (56)	94	4.3 (50)	108	100.0 (1)
Branch	51	9.8 (35)	11.8 (69)	203	8.4 (9)	46	6.5 (62)	52	100.0 (1)
Calhoun	150	14.0 (59)	5.3 (29)	602	11.6 (34)	129	7.0 (67)	151	99.3 (58)
Cass	50	4.0 (17)	6.0 (34)	174	11.5 (32)	42	0.0 (1)	51	100.0 (1)
Charlevoix	19	10.5 (38)	10.5 (63)	68	10.3 (22)	17	0.0 (1)	23	95.7 (78)
Cheboygan	23	26.1 (81)	8.7 (53)	81	13.6 (54)	16	12.5 (79)	23	100.0 (1)
Chippewa	24	8.3 (29)	12.5 (71)	110	9.1 (12)	20	0.0 (1)	24	100.0 (1)
Clare	44	11.4 (40)	9.1 (54)	133	10.5 (26)	36	2.8 (43)	44	100.0 (1)
Clinton	26	7.7 (25)	7.7 (46)	85	15.3 (72)	20	0.0 (1)	26	100.0 (1)

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

(2) Excludes records with unknown data or errors.

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

(4) <2500 g.

(5) >4000 g.

(6) <37 weeks gestation.

(7) 37 or more weeks gestation and <2500 g.

\* 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 8B

### 2022 Pregnancy Nutrition Surveillance (1)

#### Michigan

#### Comparison of Infant Health Indicators by County

<b>Comparison of Infant Health Indicators (2,3)</b>									
<b>County</b>	Birthweight			Preterm		Full Term LBW		Ever Breastfed	
	Low (4)		High (5)	(6)		(7)			
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Crawford	25	8.0 (28)	8.0 (48)	59	10.2 (20)	22	0.0 (1)	25	100.0 (1)
Delta	28	3.6 (16)	3.6 (20)	115	10.4 (25)	25	0.0 (1)	28	100.0 (1)
Dickinson	33	0.0 (1)	3.0 (18)	76	5.3 (5)	31	0.0 (1)	33	100.0 (1)
Eaton	43	4.7 (18)	2.3 (12)	172	14.0 (61)	37	2.7 (41)	43	97.7 (71)
Emmet	24	12.5 (45)	0.0 (1)	80	10.0 (19)	19	0.0 (1)	25	100.0 (1)
Genesee	400	13.0 (51)	7.3 (43)	1,701	12.9 (46)	344	6.7 (64)	400	98.8 (64)
Gladwin	24	16.7 (70)	4.2 (23)	81	8.6 (10)	21	4.8 (55)	24	95.8 (77)
Gogebic	8	12.5 (45)	12.5 (71)	29	10.3 (22)	5	0.0 (1)	8	100.0 (1)
Gr Travers	71	14.1 (60)	5.6 (32)	232	14.2 (65)	56	3.6 (46)	72	98.6 (67)
Gratiot	35	20.0 (76)	2.9 (15)	121	12.4 (37)	25	0.0 (1)	35	100.0 (1)
Hillsdale	27	14.8 (66)	0.0 (1)	130	17.7 (78)	25	12.0 (78)	27	96.3 (76)
Houghton	24	8.3 (29)	8.3 (50)	111	15.3 (72)	19	0.0 (1)	24	100.0 (1)
Huron	32	3.1 (15)	9.4 (57)	87	10.3 (22)	28	3.6 (46)	32	100.0 (1)
Ingham	482	14.5 (65)	4.1 (22)	1,304	13.8 (58)	398	4.0 (49)	484	98.8 (64)
Ionia	69	11.6 (42)	7.2 (42)	180	12.2 (36)	61	3.3 (45)	69	100.0 (1)
Iosco	25	16.0 (69)	8.0 (48)	82	14.6 (69)	22	9.1 (72)	25	100.0 (1)
Iron	12	16.7 (70)	8.3 (50)	43	14.0 (61)	10	0.0 (1)	12	100.0 (1)
Isabella	89	7.9 (27)	2.2 (11)	270	10.7 (28)	80	5.0 (57)	89	98.9 (62)
Jackson	213	13.1 (53)	6.1 (35)	596	14.6 (69)	177	4.5 (54)	213	99.1 (60)

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

(4) <2500 g.

(5) >4000 g.

(6) <37 weeks gestation.

(7) 37 or more weeks gestation and <2500 g.

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# WIC PNSS & PedNSS

## Table 8B

### 2022 Pregnancy Nutrition Surveillance (1)

### Michigan

### Comparison of Infant Health Indicators by County

<b>Comparison of Infant Health Indicators (2,3)</b>									
<b>County</b>	Birthweight			Preterm		Full Term LBW		Ever Breastfed	
	Low (4)		High (5)	(6)		(7)			
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Kalamazoo	211	13.3 (56)	7.1 (41)	733	13.2 (50)	182	4.4 (53)	215	100.0 (1)
Kalkaska	18	22.2 (78)	11.1 (68)	56	10.7 (28)	14	0.0 (1)	18	88.9 (81)
Kent	495	15.2 (68)	6.9 (38)	2,201	15.3 (72)	416	6.3 (60)	501	98.2 (70)
Lake	16	12.5 (45)	12.5 (71)	53	9.4 (15)	14	0.0 (1)	16	100.0 (1)
Lapeer	58	8.6 (31)	5.2 (28)	215	12.6 (41)	46	4.3 (50)	58	100.0 (1)
Leelanau	7	28.6 (82)	14.3 (75)	16	12.5 (40)	5	0.0 (1)	7	100.0 (1)
Lenawee	63	4.8 (19)	9.5 (58)	266	10.5 (26)	57	1.8 (39)	63	98.4 (68)
Livingston	56	12.5 (45)	1.8 (10)	219	16.0 (76)	49	10.2 (75)	57	100.0 (1)
Luce	6	0.0 (1)	16.7 (79)	21	14.3 (66)	6	0.0 (1)	6	100.0 (1)
Mackinac	10	10.0 (37)	10.0 (62)	26	7.7 (7)	9	11.1 (76)	10	100.0 (1)
Macomb	421	20.0 (76)	2.9 (15)	2,243	14.3 (66)	339	7.4 (69)	424	99.1 (60)
Manistee	19	0.0 (1)	10.5 (63)	53	9.4 (15)	19	0.0 (1)	19	100.0 (1)
Marquette	47	14.9 (67)	6.4 (37)	156	12.8 (45)	37	2.7 (41)	47	100.0 (1)
Mason	35	8.6 (31)	8.6 (52)	88	9.1 (12)	32	0.0 (1)	35	100.0 (1)
Mecosta	41	4.9 (21)	0.0 (1)	165	13.3 (51)	38	0.0 (1)	41	100.0 (1)
Menominee	8	0.0 (1)	0.0 (1)	51	2.0 (1)	8	0.0 (1)	8	100.0 (1)
Midland	69	13.0 (51)	2.9 (15)	235	11.5 (32)	58	5.2 (58)	71	100.0 (1)
Missaukee	19	0.0 (1)	5.3 (29)	51	13.7 (56)	16	0.0 (1)	19	100.0 (1)
Monroe	84	7.1 (24)	10.7 (66)	434	12.4 (37)	76	1.3 (37)	84	100.0 (1)

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

(2) Excludes records with unknown data or errors.

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

(4) <2500 g.

(5) >4000 g.

(6) <37 weeks gestation.

(7) 37 or more weeks gestation and <2500 g.

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# WIC PNSS & PedNSS

## Table 8B

### 2022 Pregnancy Nutrition Surveillance (1)

#### Michigan

#### Comparison of Infant Health Indicators by County

<b>Comparison of Infant Health Indicators (2,3)</b>									
County	Birthweight			Preterm		Full Term LBW		Ever Breastfed	
	Low (4)		High (5)	(6)		(7)			
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Montcalm	54	11.1 (39)	3.7 (21)	203	14.8 (71)	42	0.0 (1)	54	100.0 (1)
Montmorenc	8	0.0 (1)	12.5 (71)	29	13.8 (58)	6	0.0 (1)	9	100.0 (1)
Muskegon	258	13.2 (54)	7.0 (39)	765	13.3 (51)	222	6.3 (60)	258	100.0 (1)
Newaygo	84	6.0 (23)	11.9 (70)	260	13.1 (48)	70	0.0 (1)	84	98.8 (64)
Oakland	524	13.5 (58)	5.3 (29)	2,353	13.6 (54)	434	6.5 (62)	531	99.4 (57)
Oceana	31	22.6 (80)	3.2 (19)	90	13.3 (51)	24	12.5 (79)	32	100.0 (1)
Ogemaw	21	4.8 (19)	0.0 (1)	74	5.4 (6)	19	0.0 (1)	21	100.0 (1)
Ontonagon	2	0.0 (1)	0.0 (1)	12	25.0 (82)	2	0.0 (1)	2	100.0 (1)
Osceola	33	18.2 (74)	9.1 (54)	111	12.6 (41)	28	7.1 (68)	33	97.0 (73)
Oscoda	7	14.3 (61)	0.0 (1)	22	22.7 (80)	5	0.0 (1)	7	100.0 (1)
Otsego	21	0.0 (1)	14.3 (75)	87	4.6 (4)	20	0.0 (1)	24	100.0 (1)
Ottawa	195	12.3 (44)	5.1 (26)	704	13.9 (60)	169	3.6 (46)	201	100.0 (1)
Presque Is	8	0.0 (1)	25.0 (82)	27	11.1 (31)	6	0.0 (1)	8	100.0 (1)
Roscommon	26	0.0 (1)	7.7 (46)	72	2.8 (3)	24	0.0 (1)	26	100.0 (1)
Saginaw	237	14.3 (61)	5.1 (26)	790	12.9 (46)	203	5.4 (59)	238	98.3 (69)
Sanilac	40	22.5 (79)	7.5 (45)	122	13.1 (48)	31	9.7 (74)	40	97.5 (72)
Schoolcraf	5	0.0 (1)	20.0 (80)	25	16.0 (76)	5	0.0 (1)	5	100.0 (1)
Shiawassee	71	5.6 (22)	7.0 (39)	250	9.6 (17)	63	4.8 (55)	71	100.0 (1)
St Clair	93	9.7 (34)	4.3 (24)	386	12.4 (37)	80	0.0 (1)	93	98.9 (62)

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

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

(4) <2500 g.

(5) >4000 g.

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# WIC PNSS & PedNSS

## Table 8B

### 2022 Pregnancy Nutrition Surveillance (1)

### Michigan

### Comparison of Infant Health Indicators by County

Comparison of Infant Health Indicators (2,3)									
County	Birthweight			Preterm		Full Term LBW		Ever Breastfed	
	Low (4)		High (5)	(6)		(7)			
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
St Joseph	92	9.8 (35)	9.8 (61)	267	12.7 (44)	75	1.3 (37)	92	100.0 (1)
Tuscola	57	8.8 (33)	10.5 (63)	175	8.6 (10)	50	2.0 (40)	57	96.5 (75)
Van Buren	86	11.6 (42)	9.3 (56)	284	12.0 (35)	80	8.8 (71)	87	96.6 (74)
Washtenaw	160	14.4 (64)	5.6 (32)	707	12.6 (41)	140	9.3 (73)	163	100.0 (1)
Wayne	1,641	16.9 (72)	4.5 (25)	8,647	14.1 (63)	1,355	8.2 (70)	1,670	95.6 (79)
Wexford	52	11.5 (41)	9.6 (60)	140	9.3 (14)	47	4.3 (50)	52	100.0 (1)
<b>Michigan</b>	<b>7,977</b>	<b>13.7</b>	<b>5.9</b>	<b>32,416</b>	<b>13.4</b>	<b>6,724</b>	<b>5.7</b>	<b>8,057</b>	<b>98.4</b>
<b>National (Prior Year)</b>	<b>31,163</b>	<b>10.7</b>	<b>6.7</b>	<b>51,612</b>	<b>13.1</b>	<b>25,808</b>	<b>4.6</b>	<b>31,353</b>	<b>49.7</b>

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

(2) Excludes records with unknown data or errors.

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

(4) <2500 g.

(5) >4000 g.

(6) <37 weeks gestation.

(7) 37 or more weeks gestation and <2500 g.

\* 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 3B

### 2020 - 2022 Pregnancy Nutrition Surveillance <sup>(1)</sup>

### Michigan

### Comparison of Racial and Ethnic Distribution by County

### Combined 3 Years

<b>Comparison of Racial and Ethnic Distribution <sup>(2)</sup></b>								
County	Number Included in Analysis	White, Not Hispanic  %	Black, Not Hispanic  %	Hispanic  %	American Indian/Alaska Native %	Asian/Pacific Islander  %	Multiple Races  %	All Other/Unknown  %
Alcona	106	95.3	0.0	0.9	0.0	0.0	3.8	0.0
Alger	71	85.9	0.0	1.4	7.0	0.0	5.6	0.0
Allegan	1,245	76.0	1.5	17.3	0.2	0.6	3.9	0.5
Alpena	396	94.2	0.5	2.0	0.3	0.3	2.8	0.0
Antrim	213	92.5	0.5	2.3	0.5	0.5	3.8	0.0
Arenac	276	94.6	0.0	2.2	0.4	0.0	2.9	0.0
Baraga	128	47.7	0.8	3.9	32.8	0.8	13.3	0.8
Barry	538	93.5	0.6	3.9	0.4	0.4	1.1	0.2
Bay	1,396	80.4	2.0	10.5	0.1	0.2	6.4	0.4
Benzie	197	89.3	0.5	5.6	1.0	0.0	3.6	0.0
Berrien	2,146	50.6	35.1	8.1	0.2	1.4	4.1	0.4
Branch	886	84.2	1.8	10.6	0.0	0.7	1.8	0.9
Calhoun	2,561	60.3	20.0	7.9	0.4	4.8	6.3	0.4
Cass	751	60.9	7.6	21.3	0.3	0.1	8.0	1.9
Charlevoix	276	89.9	0.0	3.3	0.4	0.0	6.5	0.0
Cheboygan	338	86.1	0.9	3.0	0.3	0.0	9.8	0.0
Chippewa	493	57.0	0.8	2.0	19.9	0.8	19.5	0.0
Clare	516	93.4	0.4	3.5	0.0	0.4	2.1	0.2
Clinton	332	82.8	1.2	10.2	0.0	0.0	5.4	0.3
Crawford	242	89.3	0.8	6.2	0.0	0.0	3.7	0.0
Delta	535	84.5	0.7	2.6	1.9	0.6	9.5	0.2
Dickinson	352	95.2	0.0	2.0	0.0	0.6	2.0	0.3
Eaton	649	84.3	4.3	9.4	0.0	1.2	0.6	0.2

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

(2) Excludes data with errors.

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

# WIC PNSS & PedNSS

## Table 3B

### 2020 - 2022 Pregnancy Nutrition Surveillance <sup>(1)</sup>

### Michigan

### Comparison of Racial and Ethnic Distribution by County

### Combined 3 Years

<b>Comparison of Racial and Ethnic Distribution <sup>(2)</sup></b>								
<b>County</b>	Number Included in Analysis	White, Not Hispanic  %	Black, Not Hispanic  %	Hispanic  %	American Indian/Alaska Native  %	Asian/Pacific Islander  %	Multiple Races  %	All Other/Unknown  %
Emmet	353	87.8	1.4	2.3	1.1	0.6	6.8	0.0
Genesee	6,850	48.3	39.0	5.9	0.1	0.3	6.2	0.2
Gladwin	371	94.6	0.3	2.4	0.0	0.5	2.2	0.0
Gogebic	138	81.2	2.9	2.2	3.6	1.4	8.0	0.7
Gr Travers	1,025	84.2	0.9	7.2	2.5	0.7	4.2	0.3
Gratiot	525	86.3	0.2	10.5	0.2	0.0	2.5	0.4
Hillsdale	566	93.3	0.0	3.2	0.5	0.0	2.3	0.7
Houghton	511	88.3	2.3	2.2	1.0	1.8	3.9	0.6
Huron	366	92.1	0.3	6.0	0.0	0.0	1.1	0.5
Ingham	4,857	42.2	27.7	16.2	0.1	5.4	8.0	0.2
Ionia	793	88.0	0.1	8.4	0.0	0.0	3.3	0.1
Iosco	393	90.8	0.5	2.8	0.5	0.0	5.3	0.0
Iron	153	90.8	0.0	2.0	0.7	0.0	4.6	2.0
Isabella	982	78.5	4.1	6.6	3.6	0.7	6.4	0.1
Jackson	2,592	71.6	14.2	6.3	0.1	0.7	7.1	0.0
Kalamazoo	3,309	45.2	36.1	9.9	0.2	1.0	7.1	0.5
Kalkaska	257	90.3	0.4	5.1	0.0	0.4	3.5	0.0
Kent	8,829	30.9	28.9	30.0	0.2	5.0	4.8	0.2
Lake	168	75.0	8.9	4.2	0.6	0.0	10.7	0.6
Lapeer	916	84.4	0.9	10.9	0.0	0.5	3.2	0.1
Leelanau	95	54.7	0.0	23.2	9.5	0.0	12.6	0.0
Lenawee	1,136	71.4	2.7	19.9	0.3	0.4	4.8	0.6
Livingston	892	90.1	1.6	3.4	0.0	0.9	3.3	0.8
Luce	104	77.9	1.0	1.9	4.8	0.0	14.4	0.0

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

(2) Excludes data with errors.

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

# WIC PNSS & PedNSS

## Table 3B

### 2020 - 2022 Pregnancy Nutrition Surveillance <sup>(1)</sup>

### Michigan

### Comparison of Racial and Ethnic Distribution by County

### Combined 3 Years

<b>Comparison of Racial and Ethnic Distribution <sup>(2)</sup></b>								
County	Number Included in Analysis	White, Not Hispanic  %	Black, Not Hispanic  %	Hispanic  %	American Indian/Alaska Native  %	Asian/Pacific Islander  %	Multiple Races  %	All Other/Unknown  %
Mackinac	88	55.7	0.0	3.4	2.3	0.0	38.6	0.0
Macomb	8,917	50.9	32.1	4.8	0.1	7.8	4.1	0.2
Manistee	243	84.4	0.8	4.9	2.1	0.0	7.4	0.4
Marquette	635	86.3	1.6	3.3	2.2	0.5	5.8	0.3
Mason	356	80.6	1.4	11.5	0.3	0.8	4.8	0.6
Mecosta	670	87.3	3.3	2.8	0.3	0.6	5.2	0.4
Menominee	231	64.5	1.3	8.2	9.5	0.0	11.7	4.8
Midland	873	86.8	2.2	5.8	0.0	1.7	3.4	0.0
Missaukee	201	87.1	0.5	7.0	0.0	0.0	5.5	0.0
Monroe	1,771	81.8	6.8	6.3	0.1	0.3	4.2	0.6
Montcalm	905	91.9	0.2	5.9	0.0	0.1	1.4	0.4
Montmorenc	129	93.0	0.8	3.1	1.6	0.0	0.8	0.8
Muskegon	3,192	55.0	27.1	9.9	0.3	0.5	6.9	0.3
Newaygo	1,021	74.1	0.7	20.9	0.4	0.4	2.8	0.7
Oakland	9,467	40.3	42.0	11.4	0.1	2.2	3.8	0.1
Oceana	435	56.1	0.5	39.1	0.2	0.0	3.4	0.7
Ogemaw	327	92.4	0.6	2.4	0.0	0.0	4.3	0.3
Ontonagon	46	84.8	2.2	8.7	0.0	0.0	4.3	0.0
Osceola	436	91.1	1.4	3.7	0.2	0.0	3.7	0.0
Oscoda	107	94.4	0.0	2.8	0.0	0.0	2.8	0.0
Otsego	380	94.2	0.5	1.8	0.0	0.3	3.2	0.0
Ottawa	2,869	53.5	5.0	33.3	0.1	2.8	4.6	0.7
Presque Is	108	90.7	0.9	0.9	0.9	0.0	6.5	0.0
Roscommon	282	96.1	0.0	1.1	0.0	0.4	2.5	0.0

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

(2) Excludes data with errors.

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

# WIC PNSS & PedNSS

## Table 3B

### 2020 - 2022 Pregnancy Nutrition Surveillance <sup>(1)</sup>

### Michigan

### Comparison of Racial and Ethnic Distribution by County

### Combined 3 Years

<b>Comparison of Racial and Ethnic Distribution <sup>(2)</sup></b>								
<b>County</b>	Number Included in Analysis	White, Not Hispanic  %	Black, Not Hispanic  %	Hispanic  %	American Indian/Alaska Native %	Asian/Pacific Islander  %	Multiple Races  %	All Other/Unknown  %
Saginaw	3,325	39.5	37.2	15.5	0.1	0.4	6.8	0.4
Sanilac	516	93.2	0.4	4.1	0.2	0.4	1.0	0.8
Schoolcraf	109	71.6	0.0	0.9	11.0	0.0	16.5	0.0
Shiawassee	943	88.4	0.4	7.0	0.0	0.1	3.8	0.2
St Clair	1,736	80.4	5.8	6.1	0.0	0.5	7.1	0.2
St Joseph	1,096	70.4	0.5	21.7	0.0	0.2	6.8	0.4
Tuscola	712	93.5	0.3	4.4	0.0	0.1	1.7	0.0
Van Buren	1,198	61.6	3.8	29.2	0.0	0.5	3.3	1.7
Washtenaw	2,926	37.8	39.7	11.0	0.1	3.3	7.6	0.4
Wayne	35,938	29.4	55.3	9.8	0.1	2.8	2.5	0.2
Wexford	630	90.5	1.0	2.7	0.0	0.2	5.4	0.3
<b>Michigan</b>	<b>133,729</b>	<b>51.1</b>	<b>30.1</b>	<b>11.3</b>	<b>0.4</b>	<b>2.4</b>	<b>4.5</b>	<b>0.3</b>

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

(2) Excludes data with errors.

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



# WIC PNSS & PedNSS

## Table 4B

### 2020 - 2022 Pregnancy Nutrition Surveillance <sup>(1)</sup>

#### Michigan

#### Comparison of Age Distribution by County

#### Combined 3 Years

<b>Comparison of Age Distribution <sup>(2)</sup></b>								
County	Number Included in Analysis	< 15 Years %	15 - 17 Years %	18 - 19 Years %	20 - 29 Years %	30 - 39 Years %	>= 40 Years %	Unknown %
Alcona	106	0.0	1.9	4.7	64.2	25.5	3.8	0.0
Alger	71	0.0	1.4	12.7	52.1	33.8	0.0	0.0
Allegan	1,245	0.0	1.9	7.0	59.3	29.2	2.2	0.4
Alpena	396	0.0	2.3	8.8	60.1	28.0	0.8	0.0
Antrim	213	0.0	2.8	8.5	66.2	21.6	0.9	0.0
Arenac	276	0.0	2.9	9.8	65.9	21.0	0.4	0.0
Baraga	128	0.0	3.1	7.8	60.2	27.3	1.6	0.0
Barry	538	0.0	2.0	6.7	66.5	22.5	1.1	1.1
Bay	1,396	0.0	2.7	7.9	60.8	27.1	1.1	0.4
Benzie	197	0.5	1.5	6.6	60.4	29.4	1.0	0.5
Berrien	2,146	0.1	3.4	9.6	59.2	24.2	1.9	1.5
Branch	886	0.0	2.0	8.8	62.5	23.8	2.6	0.2
Calhoun	2,561	0.0	2.9	7.5	63.0	24.5	1.4	0.7
Cass	751	0.3	2.7	9.5	59.9	25.7	0.9	1.1
Charlevoix	276	0.0	1.1	7.6	64.1	24.3	2.9	0.0
Cheboygan	338	0.3	1.5	10.1	60.7	26.0	1.5	0.0
Chippewa	493	0.0	2.0	7.3	63.1	26.0	1.4	0.2
Clare	516	0.4	3.1	9.9	62.0	23.4	0.8	0.4
Clinton	332	0.0	1.2	5.4	55.1	36.4	1.5	0.3
Crawford	242	0.0	2.1	11.2	63.6	21.1	1.7	0.4
Delta	535	0.2	0.9	6.7	60.7	30.8	0.6	0.0
Dickinson	352	0.3	1.4	5.7	62.2	29.5	0.9	0.0
Eaton	649	0.0	2.5	9.6	57.9	27.0	2.0	1.1
Emmet	353	0.0	2.0	5.1	60.3	29.7	2.8	0.0

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

(2) Excludes data with errors.

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

# WIC PNSS & PedNSS

## Table 4B

### 2020 - 2022 Pregnancy Nutrition Surveillance <sup>(1)</sup>

#### Michigan

#### Comparison of Age Distribution by County

#### Combined 3 Years

<b>Comparison of Age Distribution <sup>(2)</sup></b>								
County	Number Included in Analysis	< 15 Years %	15 - 17 Years %	18 - 19 Years %	20 - 29 Years %	30 - 39 Years %	>= 40 Years %	Unknown %
Genesee	6,850	0.2	2.1	7.5	63.2	25.2	1.6	0.3
Gladwin	371	0.0	1.6	4.9	65.0	27.2	1.1	0.3
Gogebic	138	0.0	0.0	8.0	54.3	37.7	0.0	0.0
Gr Travers	1,025	0.2	1.8	6.2	58.9	30.5	2.0	0.3
Gratiot	525	0.2	1.9	9.0	64.0	23.6	1.1	0.2
Hillsdale	566	0.5	3.2	7.6	64.0	22.1	1.6	1.1
Houghton	511	0.0	1.6	8.0	59.1	29.9	1.4	0.0
Huron	366	0.0	0.8	5.7	60.7	31.4	1.4	0.0
Ingham	4,857	0.1	2.4	6.9	60.8	27.4	2.0	0.4
Ionia	793	0.1	2.3	6.8	66.1	23.1	1.3	0.4
Iosco	393	0.0	2.5	8.1	60.3	26.7	2.0	0.3
Iron	153	0.0	3.9	5.2	65.4	24.2	1.3	0.0
Isabella	982	0.0	2.2	6.9	64.6	24.1	1.6	0.5
Jackson	2,592	0.1	2.8	7.2	62.7	25.0	1.2	1.0
Kalamazoo	3,309	0.1	2.9	7.5	60.3	26.5	2.0	0.8
Kalkaska	257	0.0	2.3	9.7	60.7	25.7	0.4	1.2
Kent	8,829	0.1	2.1	6.9	58.1	29.7	2.4	0.8
Lake	168	0.0	3.0	6.0	63.1	27.4	0.6	0.0
Lapeer	916	0.0	1.7	5.5	62.3	28.6	1.4	0.4
Leelanau	95	0.0	1.1	1.1	50.5	43.2	3.2	1.1
Lenawee	1,136	0.1	1.2	7.2	62.9	26.9	1.0	0.7
Livingston	892	0.0	1.1	5.0	58.4	33.0	2.1	0.3
Luce	104	0.0	4.8	9.6	52.9	29.8	2.9	0.0
Mackinac	88	0.0	1.1	3.4	53.4	39.8	2.3	0.0

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

(2) Excludes data with errors.

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

# WIC PNSS & PedNSS

## Table 4B

### 2020 - 2022 Pregnancy Nutrition Surveillance <sup>(1)</sup>

#### Michigan

#### Comparison of Age Distribution by County

#### Combined 3 Years

<b>Comparison of Age Distribution <sup>(2)</sup></b>								
County	Number Included in Analysis	< 15 Years %	15 - 17 Years %	18 - 19 Years %	20 - 29 Years %	30 - 39 Years %	>= 40 Years %	Unknown %
Macomb	8,917	0.0	1.0	3.9	57.2	35.1	2.6	0.1
Manistee	243	0.4	0.8	6.2	53.1	34.2	4.1	1.2
Marquette	635	0.2	1.4	3.9	61.9	29.9	2.7	0.0
Mason	356	0.0	2.8	7.6	65.2	22.2	1.1	1.1
Mecosta	670	0.0	1.8	6.7	66.1	23.7	1.5	0.1
Menominee	231	0.4	2.6	10.0	63.2	23.4	0.4	0.0
Midland	873	0.0	1.4	6.1	63.8	27.5	1.3	0.0
Missaukee	201	0.0	0.5	9.0	62.2	26.9	1.5	0.0
Monroe	1,771	0.0	1.7	6.8	63.6	26.3	1.4	0.2
Montcalm	905	0.0	2.7	9.9	64.2	21.2	1.1	0.9
Montmorenc	129	0.0	3.9	8.5	60.5	24.0	3.1	0.0
Muskegon	3,192	0.1	3.0	9.1	61.2	24.5	1.3	0.7
Newaygo	1,021	0.0	1.9	6.7	65.0	23.4	2.2	0.9
Oakland	9,467	0.0	1.4	4.7	57.2	33.9	2.5	0.2
Oceana	435	0.0	1.8	7.8	63.9	21.8	3.4	1.1
Ogemaw	327	0.0	3.4	9.2	62.4	23.5	1.2	0.3
Ontonagon	46	2.2	0.0	0.0	67.4	30.4	0.0	0.0
Osceola	436	0.0	2.5	7.8	62.4	25.2	1.4	0.7
Oscoda	107	0.0	4.7	9.3	63.6	21.5	0.9	0.0
Otsego	380	0.3	1.3	8.4	64.7	23.4	1.8	0.0
Ottawa	2,869	0.1	1.7	6.4	61.5	27.5	2.2	0.4
Presque Is	108	0.0	0.9	4.6	62.0	31.5	0.9	0.0
Roscommon	282	0.0	3.5	8.2	58.9	26.6	1.8	1.1
Saginaw	3,325	0.1	2.4	7.9	62.3	25.2	1.4	0.7

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

(2) Excludes data with errors.

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

# WIC PNSS & PedNSS

## Table 4B

### 2020 - 2022 Pregnancy Nutrition Surveillance <sup>(1)</sup>

#### Michigan

#### Comparison of Age Distribution by County

#### Combined 3 Years

<b>Comparison of Age Distribution <sup>(2)</sup></b>								
<b>County</b>	Number Included in Analysis	< 15 Years %	15 - 17 Years %	18 - 19 Years %	20 - 29 Years %	30 - 39 Years %	>= 40 Years %	Unknown %
Sanilac	516	0.0	2.3	5.8	66.3	25.0	0.6	0.0
Schoolcraf	109	0.0	0.9	6.4	67.9	22.9	1.8	0.0
Shiawassee	943	0.1	2.5	6.4	65.7	24.3	1.0	0.0
St Clair	1,736	0.1	1.9	8.0	63.7	24.1	1.6	0.7
St Joseph	1,096	0.1	2.4	8.1	65.2	22.3	1.7	0.2
Tuscola	712	0.0	2.4	6.5	64.3	24.6	1.8	0.4
Van Buren	1,198	0.0	1.5	6.8	63.5	25.5	1.5	1.1
Washtenaw	2,926	0.0	1.4	5.8	56.8	33.0	2.6	0.3
Wayne	35,938	0.1	1.9	5.7	57.1	31.9	2.9	0.4
Wexford	630	0.0	2.4	8.6	64.9	22.2	1.3	0.6
<b>Michigan</b>	<b>133,729</b>	<b>0.1</b>	<b>2.0</b>	<b>6.5</b>	<b>59.8</b>	<b>29.1</b>	<b>2.2</b>	<b>0.4</b>

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

(2) Excludes data with errors.

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

# WIC PNSS & PedNSS

## Table 5B

### 2020 - 2022 Pregnancy Nutrition Surveillance <sup>(1)</sup>

#### Michigan

#### Comparison of Maternal Health Indicators by County

#### Combined 3 Years

<b>Comparison of Maternal Health Indicators <sup>(2,3)</sup></b>														
<b>County</b>	Prepregnancy BMI (4)			Weight Gain (5)			Anemia (Low Hb/Hct) (6)				Gestational Diabetes During Pregnancy		Hypertension During Pregnancy	
	Under- weight		Over- weight	< Ideal		> Ideal	3rd Trimester		Postpartum					
	Number	% (Rank)	% (Rank)	Number	% (Rank)	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Alcona	82	2.4 (6)	57.3 (14)	47	14.9 (19)	53.2 (46)	9	22.2 (28)	3	0.0 (1)	96	9.4 (42)	96	13.5 (43)
Alger	52	7.7 (80)	61.5 (46)	26	15.4 (22)	50.0 (16)	2	0.0 (1)	3	0.0 (1)	63	3.2 (2)	63	14.3 (47)
Allegan	934	4.6 (59)	62.0 (50)	478	17.6 (42)	54.6 (59)	119	26.9 (38)	197	28.4 (47)	1,131	8.8 (33)	1,134	13.0 (39)
Alpena	360	6.1 (76)	61.4 (42)	161	17.4 (40)	56.5 (70)	21	33.3 (51)	8	25.0 (36)	350	10.0 (51)	351	17.7 (72)
Antrim	161	4.3 (51)	55.3 (9)	42	19.0 (57)	57.1 (73)	18	22.2 (28)	22	13.6 (16)	196	8.7 (28)	196	9.2 (3)
Arenac	233	2.6 (10)	63.9 (69)	192	17.2 (38)	56.3 (68)	14	7.1 (8)	17	5.9 (11)	263	9.1 (38)	265	15.1 (57)
Baraga	114	2.6 (10)	60.5 (31)	70	20.0 (64)	54.3 (57)	1	100.0 (81)	4	25.0 (36)	118	5.9 (5)	118	13.6 (44)
Barry	320	5.9 (73)	57.2 (13)	119	13.4 (11)	58.8 (78)	23	26.1 (37)	4	25.0 (36)	501	13.0 (73)	505	15.4 (59)
Bay	1,109	4.5 (57)	61.1 (37)	611	16.0 (26)	55.6 (66)	38	23.7 (31)	16	31.3 (51)	1,286	7.7 (19)	1,286	12.2 (26)
Benzie	158	3.8 (29)	51.9 (2)	78	12.8 (7)	51.3 (24)	9	0.0 (1)	18	22.2 (28)	183	4.4 (3)	183	13.1 (41)
Berrien	1,891	4.0 (37)	61.1 (37)	1,332	17.6 (42)	56.4 (69)	132	28.8 (39)	137	21.9 (27)	1,881	9.0 (35)	1,884	18.4 (75)
Branch	370	5.4 (67)	60.5 (31)	135	23.0 (74)	48.1 (9)	27	33.3 (51)	29	31.0 (50)	802	9.6 (45)	803	9.5 (4)
Calhoun	2,006	4.2 (47)	61.1 (37)	1,330	18.9 (55)	53.1 (44)	52	38.5 (62)	16	37.5 (69)	2,314	6.9 (11)	2,316	10.3 (9)
Cass	632	4.1 (41)	63.3 (64)	449	16.5 (29)	52.8 (41)	58	29.3 (40)	49	34.7 (65)	697	9.3 (40)	698	15.5 (61)
Charlevoix	174	3.4 (18)	60.3 (29)	39	25.6 (80)	51.3 (24)	30	20.0 (24)	30	30.0 (48)	259	8.1 (22)	259	18.9 (78)
Cheboygan	284	4.2 (47)	59.5 (24)	78	14.1 (15)	55.1 (63)	11	9.1 (13)	9	33.3 (55)	298	12.1 (71)	298	12.1 (22)
Chippewa	445	3.6 (23)	59.6 (26)	318	18.2 (48)	53.1 (44)	20	25.0 (32)	25	44.0 (74)	441	10.2 (53)	443	8.1 (2)

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

(2) Excludes records with unknown data or errors.

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

(4) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI >30.0).

(5) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight prepregnancy (ideal weight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(6) Based on 1990 MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States"; adjusted for altitude and smoking.

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

# WIC PNSS & PedNSS

## Table 5B

### 2020 - 2022 Pregnancy Nutrition Surveillance <sup>(1)</sup>

#### Michigan

#### Comparison of Maternal Health Indicators by County

#### Combined 3 Years

<b>Comparison of Maternal Health Indicators</b> <sup>(2,3)</sup>														
<b>County</b>	Prepregnancy BMI (4)			Weight Gain (5)			Anemia (Low Hb/Hct) (6)				Gestational Diabetes During Pregnancy		Hypertension During Pregnancy	
	Under- weight		Over- weight	< Ideal		> Ideal	3rd Trimester		Postpartum					
	Number	% (Rank)	% (Rank)	Number	% (Rank)	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Clare	435	4.1 (41)	63.0 (62)	210	17.1 (35)	55.2 (64)	16	31.3 (45)	25	28.0 (46)	467	7.5 (17)	468	11.3 (16)
Clinton	300	4.3 (51)	69.0 (81)	193	14.0 (13)	48.7 (13)	12	0.0 (1)	1	0.0 (1)	307	17.9 (81)	307	14.7 (52)
Crawford	214	0.9 (3)	60.7 (34)	121	24.8 (79)	52.1 (35)	3	66.7 (78)	4	50.0 (75)	219	8.7 (28)	219	11.0 (14)
Delta	505	3.4 (18)	61.6 (47)	373	20.9 (69)	49.6 (15)	37	18.9 (23)	53	15.1 (19)	488	11.1 (64)	488	13.9 (45)
Dickinson	241	6.2 (77)	53.5 (4)	108	19.4 (59)	51.9 (33)	9	11.1 (14)	5	60.0 (81)	317	2.8 (1)	318	15.4 (59)
Eaton	381	6.3 (78)	60.4 (30)	143	16.1 (27)	52.4 (37)	16	25.0 (32)	7	14.3 (18)	592	11.5 (68)	593	15.9 (63)
Emmet	310	3.2 (14)	64.5 (73)	136	17.6 (42)	47.8 (8)	30	20.0 (24)	31	19.4 (24)	333	7.5 (17)	333	12.6 (33)
Genesee	4,838	4.4 (55)	60.2 (28)	2,276	18.5 (50)	52.4 (37)	193	40.4 (66)	98	36.7 (67)	6,187	8.7 (28)	6,197	16.7 (68)
Gladwin	344	3.8 (29)	62.8 (60)	258	11.2 (3)	56.2 (67)	23	30.4 (42)	23	13.0 (15)	344	8.1 (22)	346	15.9 (63)
Gogebic	121	0.8 (2)	58.7 (21)	91	18.7 (51)	51.6 (30)	9	0.0 (1)	4	0.0 (1)	122	15.6 (79)	122	11.5 (17)
Gr Travers	855	5.6 (68)	53.5 (4)	647	17.0 (34)	52.9 (42)	34	55.9 (77)	18	33.3 (55)	936	6.8 (9)	939	10.1 (7)
Gratiot	478	2.5 (8)	66.3 (77)	326	21.8 (73)	50.0 (16)	10	20.0 (24)	8	0.0 (1)	481	14.3 (77)	482	14.7 (52)
Hillsdale	474	4.6 (59)	62.2 (53)	323	15.2 (21)	51.7 (32)	15	33.3 (51)	38	26.3 (43)	515	6.4 (7)	516	5.8 (1)
Houghton	470	4.0 (37)	57.4 (15)	360	16.9 (33)	48.6 (12)	14	7.1 (8)	2	0.0 (1)	454	9.5 (44)	454	15.0 (55)
Huron	326	4.3 (51)	67.8 (79)	246	18.3 (49)	57.3 (74)	30	30.0 (41)	29	24.1 (32)	347	10.7 (59)	348	14.4 (49)
Ingham	3,980	3.7 (25)	61.4 (42)	2,888	18.7 (51)	54.4 (58)	135	34.8 (58)	36	33.3 (55)	4,580	7.7 (19)	4,582	12.8 (36)
Ionia	557	5.6 (68)	63.9 (69)	404	19.6 (61)	53.7 (54)	48	14.6 (18)	43	14.0 (17)	722	11.9 (70)	725	19.0 (79)

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

(2) Excludes records with unknown data or errors.

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

(4) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI >30.0).

(5) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight prepregnancy (ideal weight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(6) Based on 1990 MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States"; adjusted for altitude and smoking.

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

# WIC PNSS & PedNSS

## Table 5B

### 2020 - 2022 Pregnancy Nutrition Surveillance <sup>(1)</sup>

#### Michigan

#### Comparison of Maternal Health Indicators by County

#### Combined 3 Years

<b>Comparison of Maternal Health Indicators</b> <sup>(2,3)</sup>														
<b>County</b>	Prepregnancy BMI (4)			Weight Gain (5)			Anemia (Low Hb/Hct) (6)				Gestational Diabetes During Pregnancy		Hypertension During Pregnancy	
	Under- weight		Over- weight	< Ideal		> Ideal	3rd Trimester		Postpartum					
	Number	% (Rank)	% (Rank)	Number	% (Rank)	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Iosco	279	5.7 (70)	64.5 (73)	134	19.4 (59)	53.7 (54)	16	25.0 (32)	9	22.2 (28)	351	7.4 (16)	351	12.3 (28)
Iron	92	8.7 (81)	48.9 (1)	19	5.3 (2)	52.6 (39)	4	0.0 (1)	1	0.0 (1)	134	10.4 (57)	134	12.7 (35)
Isabella	886	4.6 (59)	61.6 (47)	592	13.5 (12)	53.5 (49)	31	12.9 (15)	30	16.7 (20)	905	10.8 (61)	906	14.3 (47)
Jackson	1,867	3.9 (35)	61.2 (41)	1,253	14.0 (13)	56.5 (70)	70	32.9 (49)	54	22.2 (28)	2,391	8.7 (28)	2,392	13.0 (39)
Kalamazoo	2,549	4.0 (37)	61.4 (42)	1,260	16.4 (28)	53.6 (51)	56	42.9 (70)	21	19.0 (23)	2,922	9.7 (49)	2,923	12.4 (30)
Kalkaska	209	3.8 (29)	54.5 (7)	148	12.2 (4)	58.8 (78)	6	33.3 (51)	6	50.0 (75)	233	9.4 (42)	234	10.7 (11)
Kent	5,105	3.6 (23)	59.5 (24)	1,993	23.4 (75)	46.5 (6)	771	38.5 (62)	1,139	24.1 (32)	8,049	8.9 (34)	8,059	16.2 (66)
Lake	151	5.3 (65)	57.6 (16)	115	20.0 (64)	48.7 (13)	3	33.3 (51)	1	0.0 (1)	155	10.3 (55)	155	18.7 (77)
Lapeer	795	4.4 (55)	58.1 (17)	600	18.8 (53)	50.8 (19)	13	30.8 (43)	6	33.3 (55)	846	6.1 (6)	847	11.5 (17)
Leelanau	80	3.8 (29)	68.8 (80)	40	12.5 (6)	57.5 (75)	1	100.0 (81)	2	50.0 (75)	81	12.3 (72)	81	9.9 (6)
Lenawee	884	3.7 (25)	62.0 (50)	595	15.0 (20)	51.4 (28)	27	55.6 (76)	14	21.4 (26)	996	9.6 (45)	997	15.6 (62)
Livingston	812	4.8 (62)	56.8 (12)	550	17.1 (35)	53.3 (47)	31	16.1 (20)	24	12.5 (14)	810	9.9 (50)	811	20.0 (81)
Luce	94	6.4 (79)	58.5 (20)	61	13.1 (10)	67.2 (82)	5	0.0 (1)	6	33.3 (55)	92	15.2 (78)	92	15.2 (58)
Mackinac	85	5.9 (73)	52.9 (3)	65	15.4 (22)	50.8 (19)	8	25.0 (32)	3	33.3 (55)	79	10.1 (52)	79	17.7 (72)
Macomb	7,692	3.8 (29)	60.9 (36)	5,990	17.7 (45)	52.2 (36)	216	39.4 (65)	109	22.9 (31)	8,278	10.3 (55)	8,284	10.8 (12)
Manistee	117	3.4 (18)	62.4 (56)	64	20.3 (67)	46.9 (7)	4	50.0 (73)	3	33.3 (55)	222	10.8 (61)	222	10.8 (12)
Marquette	565	4.1 (41)	58.2 (18)	403	17.9 (47)	54.8 (61)	18	33.3 (51)	12	25.0 (36)	573	9.1 (38)	577	12.3 (28)

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

(2) Excludes records with unknown data or errors.

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

(4) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI >30.0).

(5) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight prepregnancy (ideal weight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(6) Based on 1990 MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States"; adjusted for altitude and smoking.

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

# WIC PNSS & PedNSS

## Table 5B

### 2020 - 2022 Pregnancy Nutrition Surveillance <sup>(1)</sup>

### Michigan

### Comparison of Maternal Health Indicators by County

### Combined 3 Years

<b>Comparison of Maternal Health Indicators</b> <sup>(2,3)</sup>														
<b>County</b>	Prepregnancy BMI (4)			Weight Gain (5)			Anemia (Low Hb/Hct) (6)				Gestational Diabetes During Pregnancy		Hypertension During Pregnancy	
	Under- weight		Over- weight	< Ideal		> Ideal	3rd Trimester		Postpartum					
	Number	% (Rank)	% (Rank)	Number	% (Rank)	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Mason	332	0.9 (3)	63.6 (67)	246	14.2 (16)	55.3 (65)	6	16.7 (21)	4	25.0 (36)	321	11.5 (68)	321	17.4 (71)
Mecosta	439	3.0 (13)	64.2 (71)	143	23.8 (77)	43.4 (2)	19	15.8 (19)	7	0.0 (1)	623	7.2 (13)	623	20.5 (82)
Menominee	212	3.3 (15)	56.1 (10)	158	16.5 (29)	53.8 (56)	13	53.8 (75)	18	33.3 (55)	188	6.9 (11)	189	16.4 (67)
Midland	629	3.3 (15)	62.3 (55)	195	12.3 (5)	51.3 (24)	34	32.4 (48)	19	31.6 (52)	812	11.2 (65)	811	12.1 (22)
Missaukee	190	5.3 (65)	61.1 (37)	132	27.3 (81)	51.5 (29)	4	25.0 (32)	2	50.0 (75)	177	6.8 (9)	177	12.4 (30)
Monroe	1,614	4.8 (62)	63.3 (64)	1,234	17.1 (35)	53.6 (51)	56	32.1 (47)	29	24.1 (32)	1,600	8.4 (26)	1,601	18.1 (74)
Montcalm	814	3.7 (25)	62.2 (53)	524	14.5 (17)	56.7 (72)	27	7.4 (11)	19	10.5 (13)	826	10.2 (53)	827	15.0 (55)
Montmorenc	118	5.9 (73)	59.3 (23)	64	18.8 (53)	51.6 (30)	4	50.0 (73)	3	33.3 (55)	118	13.6 (76)	118	11.0 (14)
Muskegon	2,913	3.3 (15)	64.2 (71)	2,247	17.7 (45)	53.0 (43)	47	42.6 (69)	12	41.7 (73)	2,931	9.6 (45)	2,933	18.4 (75)
Newaygo	913	3.7 (25)	62.5 (57)	596	23.5 (76)	44.8 (4)	16	31.3 (45)	19	21.1 (25)	932	10.9 (63)	931	17.2 (70)
Oakland	7,304	4.1 (41)	60.6 (33)	4,196	16.7 (32)	52.6 (39)	243	41.2 (67)	137	27.0 (44)	8,559	7.3 (14)	8,558	12.6 (33)
Oceana	337	2.4 (6)	70.0 (82)	252	21.0 (71)	53.6 (51)	14	7.1 (8)	16	18.8 (22)	387	15.8 (80)	387	12.9 (38)
Ogemaw	288	3.8 (29)	65.3 (75)	138	13.0 (9)	58.7 (77)	12	8.3 (12)	11	27.3 (45)	296	5.7 (4)	296	15.9 (63)
Ontonagon	44	0.0 (1)	65.9 (76)	31	12.9 (8)	48.4 (10)	3	66.7 (78)	2	50.0 (75)	40	20.0 (82)	41	14.6 (51)
Osceola	243	2.5 (8)	63.0 (62)	127	18.9 (55)	52.0 (34)	15	13.3 (16)	10	10.0 (12)	403	8.7 (28)	404	12.1 (22)
Oscoda	74	4.1 (41)	60.8 (35)	24	4.2 (1)	66.7 (80)	5	0.0 (1)	8	50.0 (75)	94	6.4 (7)	95	10.5 (10)
Otsego	223	4.0 (37)	56.5 (11)	57	15.8 (24)	57.9 (76)	38	21.1 (27)	39	35.9 (66)	352	8.2 (24)	352	13.4 (42)

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(2) Excludes records with unknown data or errors.

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

(4) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI >30.0).

(5) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy

(ideal weight gain = 25 to 35 pounds), overweight prepregnancy (ideal weight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

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# WIC PNSS & PedNSS

## Table 5B

### 2020 - 2022 Pregnancy Nutrition Surveillance <sup>(1)</sup>

### Michigan

### Comparison of Maternal Health Indicators by County

### Combined 3 Years

<b>Comparison of Maternal Health Indicators</b> <sup>(2,3)</sup>														
<b>County</b>	Prepregnancy BMI (4)			Weight Gain (5)			Anemia (Low Hb/Hct) (6)				Gestational Diabetes During Pregnancy		Hypertension During Pregnancy	
	Under- weight		Over- weight	< Ideal		> Ideal	3rd Trimester		Postpartum					
	Number	% (Rank)	% (Rank)	Number	% (Rank)	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Ottawa	1,211	5.7 (70)	54.7 (8)	396	15.9 (25)	53.3 (47)	222	38.7 (64)	368	30.2 (49)	2,590	9.3 (40)	2,592	10.1 (7)
Presque Is	102	2.9 (12)	63.7 (68)	57	24.6 (78)	45.6 (5)	3	66.7 (78)	3	0.0 (1)	100	13.0 (73)	100	17.0 (69)
Roscommon	265	4.2 (47)	59.2 (22)	152	20.4 (68)	54.6 (59)	11	36.4 (60)	5	60.0 (81)	258	11.2 (65)	259	19.3 (80)
Saginaw	2,383	3.4 (18)	63.4 (66)	1,179	17.2 (38)	50.9 (21)	73	37.0 (61)	64	39.1 (71)	3,100	9.0 (35)	3,101	12.4 (30)
Sanilac	93	9.7 (82)	53.8 (6)	27	14.8 (18)	66.7 (80)	14	14.3 (17)	19	31.6 (52)	450	8.2 (24)	450	11.8 (19)
Schoolcraf	105	1.9 (5)	62.9 (61)	85	21.2 (72)	43.5 (3)	3	33.3 (51)	5	40.0 (72)	100	9.0 (35)	100	12.0 (20)
Shiawassee	842	4.5 (57)	62.5 (57)	694	19.2 (58)	51.3 (24)	13	30.8 (43)	8	25.0 (36)	852	7.3 (14)	853	9.5 (4)
St Clair	1,660	4.1 (41)	62.0 (50)	1,334	16.5 (29)	54.8 (61)	75	36.0 (59)	78	37.2 (68)	1,539	8.6 (27)	1,542	14.7 (52)
St Joseph	891	4.9 (64)	61.4 (42)	330	20.9 (69)	50.9 (21)	27	22.2 (28)	33	24.2 (35)	965	10.7 (59)	965	12.2 (26)
Tuscola	552	4.3 (51)	62.7 (59)	381	20.2 (66)	50.7 (18)	28	17.9 (22)	15	33.3 (55)	670	11.2 (65)	671	13.9 (45)
Van Buren	967	3.4 (18)	67.7 (78)	275	32.4 (82)	40.0 (1)	106	33.0 (50)	124	16.9 (21)	1,076	13.1 (75)	1,077	12.1 (22)
Washtenaw	2,292	4.2 (47)	60.0 (27)	1,458	19.6 (61)	48.4 (10)	168	43.5 (71)	214	33.2 (54)	2,616	9.6 (45)	2,616	14.5 (50)
Wayne	25,086	3.9 (35)	61.7 (49)	14,597	17.4 (40)	53.5 (49)	848	48.2 (72)	195	38.5 (70)	33,122	7.9 (21)	33,137	12.0 (20)
Wexford	526	5.7 (70)	58.2 (18)	379	19.8 (63)	50.9 (21)	17	41.2 (67)	8	25.0 (36)	586	10.6 (58)	585	12.8 (36)
<b>Michigan</b>	<b>100,122</b>	<b>4.0</b>	<b>61.2</b>	<b>60,221</b>	<b>17.8</b>	<b>52.7</b>	<b>4,664</b>	<b>36.6</b>	<b>3,953</b>	<b>26.9</b>	<b>122,124</b>	<b>8.8</b>	<b>122,225</b>	<b>13.3</b>

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

(2) Excludes records with unknown data or errors.

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

(4) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI >30.0).

(5) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight prepregnancy (ideal weight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).

(6) Based on 1990 MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States"; adjusted for altitude and smoking.

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

# WIC PNSS & PedNSS

## Table 6B

### 2020 - 2022 Pregnancy Nutrition Surveillance <sup>(1)</sup>

### Michigan

### Comparison of Maternal Behavioral Indicators by County

### Combined 3 Years

<b>Comparison of Maternal Behavioral Indicators <sup>(2,3)</sup></b>									
<b>County</b>	Medical Care			WIC Enrollment		Multivitamin Consumption			
	1st Trimester		No Care	1st Trimester		Prepregnancy <sup>(4)</sup>		During Pregnancy <sup>(5)</sup>	
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Alcona	95	85.3 (44)	8.4 (48)	104	26.0 (78)	99	29.3 (30)	76	92.1 (34)
Alger	62	91.9 (9)	1.6 (2)	70	30.0 (61)	63	17.5 (76)	56	96.4 (6)
Allegan	1,118	91.5 (10)	4.1 (14)	1,214	32.5 (46)	1,156	24.0 (57)	899	91.0 (43)
Alpena	350	85.1 (45)	10.9 (60)	384	35.9 (29)	371	22.9 (59)	311	95.5 (10)
Antrim	197	88.8 (28)	5.1 (27)	208	28.4 (70)	197	26.9 (41)	154	88.3 (71)
Arenac	261	84.7 (47)	8.4 (48)	270	35.9 (29)	260	24.2 (56)	216	85.2 (79)
Baraga	118	89.0 (27)	5.9 (33)	124	36.3 (26)	118	28.8 (33)	95	98.9 (1)
Barry	498	90.8 (14)	3.6 (10)	524	27.9 (72)	505	32.1 (21)	382	97.1 (4)
Bay	1,289	76.6 (72)	15.9 (75)	1,372	39.3 (15)	1,329	22.3 (62)	1,104	89.9 (55)
Benzie	184	83.2 (56)	12.0 (63)	192	32.3 (48)	188	43.1 (6)	145	90.3 (52)
Berrien	1,824	75.2 (75)	9.8 (51)	2,084	30.3 (56)	1,941	21.6 (66)	1,536	91.3 (42)
Branch	747	81.8 (63)	9.5 (50)	859	30.0 (61)	779	31.1 (26)	657	89.2 (64)
Calhoun	2,290	93.9 (5)	3.8 (12)	2,482	33.0 (44)	2,214	27.6 (40)	1,876	89.2 (64)
Cass	683	90.8 (14)	5.6 (30)	729	39.9 (13)	680	21.2 (68)	569	80.7 (82)
Charlevoix	264	88.6 (29)	4.5 (20)	270	25.6 (79)	264	36.7 (16)	214	90.7 (47)
Cheboygan	304	74.3 (76)	15.8 (74)	328	35.1 (34)	317	30.9 (27)	269	94.1 (17)
Chippewa	445	94.4 (3)	3.1 (8)	480	38.1 (19)	457	45.1 (4)	399	89.5 (61)
Clare	478	82.6 (58)	10.0 (52)	511	42.3 (8)	468	28.0 (37)	429	89.3 (63)
Clinton	299	88.6 (29)	4.3 (16)	327	31.8 (51)	247	43.7 (5)	247	94.7 (13)
Crawford	219	90.0 (19)	4.6 (22)	239	43.1 (7)	231	29.9 (29)	193	90.7 (47)
Delta	489	92.4 (8)	1.4 (1)	523	32.5 (46)	502	26.5 (44)	401	94.5 (15)

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

(2) Excludes records with unknown data or errors.

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

(4) Women who reported taking a multivitamin four times a weeks or more in the month before pregnancy; proxy for folic acid consumption.

(5) Pregnant women who reported taking a multivitamin in the past month; proxy for prenatal iron consumption.

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

# WIC PNSS & PedNSS

## Table 6B

### 2020 - 2022 Pregnancy Nutrition Surveillance <sup>(1)</sup>

### Michigan

### Comparison of Maternal Behavioral Indicators by County

### Combined 3 Years

<b>Comparison of Maternal Behavioral Indicators <sup>(2,3)</sup></b>									
<b>County</b>	Medical Care			WIC Enrollment		Multivitamin Consumption			
	1st Trimester		No Care	1st Trimester		Prepregnancy <sup>(4)</sup>		During Pregnancy <sup>(5)</sup>	
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Dickinson	320	90.6 (17)	6.9 (40)	348	34.8 (35)	335	26.3 (46)	278	93.2 (25)
Eaton	589	87.8 (33)	3.4 (9)	639	27.7 (73)	602	30.4 (28)	465	92.9 (27)
Emmet	332	89.2 (24)	5.4 (29)	344	28.5 (69)	333	37.5 (13)	253	92.5 (31)
Genesee	6,086	86.5 (41)	4.5 (20)	6,671	26.2 (76)	5,298	14.1 (79)	4,967	90.9 (45)
Gladwin	349	72.8 (78)	20.6 (79)	364	42.0 (10)	353	32.0 (23)	293	89.8 (57)
Gogebic	120	94.2 (4)	1.7 (3)	135	28.9 (67)	125	36.8 (15)	91	97.8 (2)
Gr Travers	940	79.3 (69)	14.8 (70)	1,002	30.1 (58)	961	28.3 (36)	713	90.2 (53)
Gratiot	474	87.6 (35)	7.0 (42)	514	37.7 (22)	427	32.1 (21)	405	95.6 (8)
Hillsdale	513	89.1 (25)	5.7 (31)	554	30.1 (58)	520	39.4 (11)	422	94.5 (15)
Houghton	451	80.3 (67)	12.0 (63)	495	32.9 (45)	474	36.9 (14)	392	93.1 (26)
Huron	346	81.5 (64)	8.1 (47)	359	26.2 (76)	330	34.5 (17)	250	90.8 (46)
Ingham	4,344	87.6 (35)	5.8 (32)	4,777	28.3 (71)	4,413	10.2 (82)	3,578	89.8 (57)
Ionia	726	91.2 (11)	4.4 (17)	778	30.1 (58)	741	21.5 (67)	561	95.4 (11)
Iosco	352	84.4 (49)	7.1 (43)	379	36.7 (24)	370	22.4 (61)	307	87.9 (74)
Iron	138	85.5 (43)	12.3 (65)	149	45.0 (3)	140	57.9 (2)	126	90.5 (50)
Isabella	908	84.5 (48)	10.1 (54)	964	37.9 (20)	920	32.2 (20)	777	91.6 (38)
Jackson	2,370	82.5 (59)	10.8 (59)	2,539	38.2 (18)	2,389	23.5 (58)	2,021	88.4 (69)
Kalamazoo	2,884	85.8 (42)	6.5 (36)	3,243	34.0 (41)	3,038	18.5 (74)	2,448	88.0 (72)
Kalkaska	233	78.1 (70)	15.0 (71)	251	37.8 (21)	233	29.2 (32)	193	89.1 (67)
Kent	7,908	84.0 (52)	6.5 (36)	8,650	24.0 (81)	7,323	20.8 (71)	6,386	90.7 (47)
Lake	156	69.9 (80)	14.7 (69)	161	38.5 (16)	158	26.6 (43)	130	83.8 (81)

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

(2) Excludes records with unknown data or errors.

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

(4) Women who reported taking a multivitamin four times a weeks or more in the month before pregnancy; proxy for folic acid consumption.

(5) Pregnant women who reported taking a multivitamin in the past month; proxy for prenatal iron consumption.

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

# WIC PNSS & PedNSS

## Table 6B

### 2020 - 2022 Pregnancy Nutrition Surveillance <sup>(1)</sup>

### Michigan

### Comparison of Maternal Behavioral Indicators by County

### Combined 3 Years

<b>Comparison of Maternal Behavioral Indicators <sup>(2,3)</sup></b>									
<b>County</b>	Medical Care			WIC Enrollment		Multivitamin Consumption			
	1st Trimester		No Care	1st Trimester		Prepregnancy <sup>(4)</sup>		During Pregnancy <sup>(5)</sup>	
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Lapeer	846	82.3 (60)	11.6 (62)	888	32.0 (50)	854	25.4 (51)	650	93.4 (24)
Leelanau	80	83.8 (54)	10.0 (52)	93	40.9 (12)	78	46.2 (3)	70	84.3 (80)
Lenawee	985	92.5 (7)	2.1 (5)	1,108	30.2 (57)	1,055	22.0 (64)	827	92.6 (28)
Livingston	811	83.8 (54)	10.2 (57)	872	29.8 (64)	802	40.5 (9)	626	94.1 (17)
Luce	90	80.0 (68)	15.6 (73)	101	52.5 (1)	89	33.7 (18)	85	94.1 (17)
Mackinac	79	82.3 (60)	10.1 (54)	85	35.3 (32)	82	39.0 (12)	68	92.6 (28)
Macomb	8,207	90.7 (16)	4.4 (17)	8,643	26.4 (75)	6,470	11.9 (80)	6,334	94.6 (14)
Manistee	226	81.9 (62)	13.3 (68)	235	35.3 (32)	223	78.5 (1)	187	90.4 (51)
Marquette	570	84.4 (49)	10.9 (60)	617	37.4 (23)	497	32.0 (23)	498	91.6 (38)
Mason	318	81.4 (65)	10.4 (58)	340	34.4 (39)	329	27.7 (39)	268	92.5 (31)
Mecosta	618	90.0 (19)	7.6 (45)	657	41.4 (11)	606	14.9 (78)	525	91.4 (41)
Menominee	180	89.4 (23)	5.0 (25)	224	29.9 (63)	182	25.8 (47)	150	94.0 (21)
Midland	810	88.5 (31)	5.9 (33)	851	29.3 (66)	829	25.7 (48)	627	94.9 (12)
Missaukee	177	84.2 (51)	13.0 (67)	194	34.5 (37)	193	31.6 (25)	158	91.8 (35)
Monroe	1,598	86.7 (37)	6.6 (39)	1,730	28.8 (68)	1,632	24.3 (55)	1,268	91.8 (35)
Montcalm	812	86.6 (40)	7.9 (46)	871	31.3 (52)	751	32.5 (19)	662	96.1 (7)
Montmorenc	119	84.9 (46)	4.2 (15)	124	33.1 (43)	121	25.6 (50)	98	96.9 (5)
Muskegon	2,857	86.7 (37)	6.0 (35)	3,109	36.6 (25)	2,635	24.6 (54)	2,387	89.6 (59)
Newaygo	917	73.1 (77)	18.6 (78)	994	42.1 (9)	831	22.5 (60)	797	90.0 (54)
Oakland	8,484	89.8 (21)	4.4 (17)	9,242	25.3 (80)	7,432	22.0 (64)	6,669	91.7 (37)
Oceana	374	67.4 (81)	24.9 (82)	421	38.5 (16)	404	26.5 (44)	326	86.2 (77)

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

(2) Excludes records with unknown data or errors.

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

(4) Women who reported taking a multivitamin four times a weeks or more in the month before pregnancy; proxy for folic acid consumption.

(5) Pregnant women who reported taking a multivitamin in the past month; proxy for prenatal iron consumption.

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

# WIC PNSS & PedNSS

## Table 6B

### 2020 - 2022 Pregnancy Nutrition Surveillance <sup>(1)</sup>

### Michigan

### Comparison of Maternal Behavioral Indicators by County

### Combined 3 Years

<b>Comparison of Maternal Behavioral Indicators</b> <sup>(2,3)</sup>									
<b>County</b>	Medical Care			WIC Enrollment		Multivitamin Consumption			
	1st Trimester		No Care	1st Trimester		Prepregnancy <sup>(4)</sup>		During Pregnancy <sup>(5)</sup>	
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Ogemaw	296	83.1 (57)	10.1 (54)	322	34.5 (37)	308	17.9 (75)	249	91.6 (38)
Ontonagon	41	87.8 (33)	7.3 (44)	45	26.7 (74)	45	40.0 (10)	39	97.4 (3)
Osceola	403	75.9 (74)	18.1 (77)	427	44.5 (5)	414	19.8 (73)	345	87.5 (76)
Oscoda	95	89.5 (22)	5.3 (28)	105	44.8 (4)	102	28.4 (35)	91	95.6 (8)
Otsego	354	94.6 (2)	2.5 (6)	372	30.6 (55)	345	29.3 (30)	282	92.6 (28)
Ottawa	2,571	91.0 (13)	4.9 (24)	2,796	29.7 (65)	2,524	25.2 (52)	1,957	89.9 (55)
Presque Is	100	96.0 (1)	2.0 (4)	106	31.1 (53)	102	43.1 (6)	88	88.6 (68)
Roscommon	258	89.1 (25)	5.0 (25)	273	39.6 (14)	249	25.7 (48)	225	88.4 (69)
Saginaw	3,064	83.9 (53)	6.9 (40)	3,264	34.7 (36)	3,093	19.9 (72)	2,576	89.2 (64)
Sanilac	448	92.9 (6)	4.0 (13)	507	36.3 (26)	486	43.0 (8)	407	94.1 (17)
Schoolcraf	100	88.0 (32)	3.0 (7)	109	46.8 (2)	104	22.1 (63)	93	93.5 (23)
Shiawassee	852	91.1 (12)	6.5 (36)	922	32.1 (49)	330	27.9 (38)	677	85.4 (78)
St Clair	1,540	70.4 (79)	22.1 (80)	1,701	43.4 (6)	1,600	24.7 (53)	1,401	87.8 (75)
St Joseph	926	64.6 (82)	23.5 (81)	1,064	36.3 (26)	1,024	21.2 (68)	845	89.6 (59)
Tuscola	672	81.1 (66)	12.5 (66)	698	33.8 (42)	674	28.8 (33)	531	92.3 (33)
Van Buren	1,050	76.3 (73)	17.1 (76)	1,179	34.3 (40)	1,040	10.7 (81)	900	88.0 (72)
Washtenaw	2,588	90.4 (18)	4.8 (23)	2,832	30.8 (54)	2,703	15.9 (77)	2,145	94.0 (21)
Wayne	32,724	86.7 (37)	3.7 (11)	35,030	22.5 (82)	26,520	21.1 (70)	24,672	89.5 (61)
Wexford	578	77.0 (71)	15.2 (72)	612	35.9 (29)	577	26.9 (41)	468	91.0 (43)
<b>Michigan</b>	<b>120,607</b>	<b>86.1</b>	<b>6.3</b>	<b>130,455</b>	<b>28.6</b>	<b>110,261</b>	<b>22.0</b>	<b>96,597</b>	<b>90.7</b>

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

(2) Excludes records with unknown data or errors.

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

(4) Women who reported taking a multivitamin four times a weeks or more in the month before pregnancy; proxy for folic acid consumption.

(5) Pregnant women who reported taking a multivitamin in the past month; proxy for prenatal iron consumption.

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

# WIC PNSS & PedNSS

## Table 7B

### 2020 - 2022 Pregnancy Nutrition Surveillance <sup>(1)</sup>

#### Michigan

#### Comparison of Smoking Indicators by County

#### Combined 3 Years

<b>Comparison of Smoking Indicators</b> <sup>(2,3)</sup>										
<b>County</b>	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes <sup>(4)</sup>		Smoking in Household			
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
	Number	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Alcona	99	37.4 (65)	96	26.0 (73)	23	34.8 (39)	76	14.5 (70)	96	3.1 (36)
Alger	62	43.5 (78)	62	22.6 (61)	19	31.6 (51)	56	10.7 (47)	63	6.3 (74)
Allegan	1,164	23.9 (16)	1,132	14.0 (25)	204	40.7 (23)	899	6.1 (18)	1,133	3.4 (40)
Alpena	376	40.4 (74)	349	24.1 (68)	108	31.5 (53)	311	11.6 (57)	350	2.6 (29)
Antrim	197	37.1 (64)	196	22.4 (60)	50	36.0 (36)	154	11.0 (54)	196	6.6 (76)
Arenac	262	35.1 (58)	266	22.9 (64)	77	32.5 (47)	216	18.1 (77)	266	10.2 (82)
Baraga	118	44.9 (79)	119	29.4 (79)	38	26.3 (69)	95	9.5 (38)	119	3.4 (40)
Barry	502	31.3 (44)	505	16.0 (33)	117	48.7 (5)	380	10.5 (44)	506	3.2 (38)
Bay	1,330	34.4 (54)	1,290	18.0 (42)	365	35.6 (37)	1,104	10.7 (47)	1,293	4.1 (54)
Benzie	191	36.1 (63)	183	20.2 (52)	53	37.7 (33)	146	11.0 (54)	183	6.6 (76)
Berrien	1,966	26.0 (24)	1,873	12.6 (18)	335	42.7 (16)	1,535	11.6 (57)	1,883	4.8 (63)
Branch	834	22.4 (14)	802	13.5 (20)	129	27.9 (67)	654	8.7 (36)	803	2.0 (14)
Calhoun	2,368	23.9 (16)	2,300	11.4 (12)	419	35.6 (37)	1,879	4.2 (10)	2,307	1.6 (9)
Cass	688	21.4 (11)	697	10.0 (9)	125	29.6 (60)	569	3.5 (3)	698	0.9 (1)
Charlevoix	265	28.3 (31)	259	14.3 (26)	59	33.9 (42)	213	10.8 (51)	259	3.9 (52)
Cheboygan	317	35.0 (57)	296	16.9 (36)	86	44.2 (12)	269	10.4 (42)	298	5.4 (68)
Chippewa	472	29.4 (35)	443	22.6 (61)	113	15.9 (81)	395	10.6 (45)	444	2.9 (33)
Clare	490	40.6 (76)	469	27.9 (76)	158	24.7 (72)	428	16.6 (75)	466	3.6 (46)
Clinton	304	30.6 (40)	308	14.3 (26)	76	40.8 (21)	247	4.0 (8)	308	1.3 (5)

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

(2) Excludes records with unknown data or errors.

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

(4) Among women who smoked 3 months prior to pregnancy.

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

# WIC PNSS & PedNSS

## Table 7B

### 2020 - 2022 Pregnancy Nutrition Surveillance <sup>(1)</sup>

### Michigan

### Comparison of Smoking Indicators by County

### Combined 3 Years

<b>Comparison of Smoking Indicators <sup>(2,3)</sup></b>										
<b>County</b>	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes <sup>(4)</sup>		Smoking in Household			
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
	Number	% (rank)	Number	% (rank)			Number	% (rank)	Number	% (rank)
Crawford	235	30.6 (40)	221	21.7 (55)	55	29.1 (63)	192	13.0 (64)	220	3.6 (46)
Delta	503	38.8 (69)	488	23.8 (66)	140	31.4 (56)	401	10.7 (47)	488	3.3 (39)
Dickinson	336	30.7 (42)	318	18.9 (48)	80	27.5 (68)	278	2.9 (1)	317	1.6 (9)
Eaton	609	31.4 (46)	593	13.7 (21)	141	46.1 (6)	465	7.3 (25)	594	2.5 (23)
Emmet	338	31.1 (43)	332	17.5 (39)	75	32.0 (49)	252	6.7 (21)	330	2.7 (31)
Genesee	6,337	21.4 (11)	6,198	11.9 (15)	959	39.9 (25)	4,961	8.0 (32)	6,188	2.9 (33)
Gladwin	356	36.0 (62)	347	24.2 (69)	93	22.6 (77)	293	15.7 (72)	347	5.8 (72)
Gogebic	128	41.4 (77)	122	21.3 (53)	33	42.4 (17)	91	20.9 (80)	123	5.7 (71)
Gr Travers	964	34.3 (53)	942	15.7 (32)	233	45.5 (7)	713	7.0 (22)	943	4.1 (54)
Gratiot	490	31.8 (47)	483	18.4 (45)	120	38.3 (31)	406	10.8 (51)	483	2.5 (23)
Hillsdale	521	34.9 (56)	516	24.8 (71)	135	29.6 (60)	422	10.7 (47)	515	4.1 (54)
Houghton	476	35.5 (60)	453	23.2 (65)	122	32.8 (45)	392	7.9 (29)	454	2.4 (21)
Huron	338	34.0 (52)	348	19.3 (49)	89	31.5 (53)	250	10.4 (42)	348	4.6 (61)
Ingham	4,571	17.7 (8)	4,584	8.8 (7)	605	44.3 (11)	3,569	4.1 (9)	4,580	2.3 (18)
Ionia	738	28.2 (30)	723	17.4 (38)	151	28.5 (66)	560	7.3 (25)	727	2.5 (23)
Iosco	370	37.8 (67)	354	26.0 (73)	105	21.0 (79)	307	14.0 (67)	354	5.1 (66)
Iron	143	49.0 (81)	134	33.6 (81)	53	20.8 (80)	125	14.4 (69)	134	4.5 (58)
Isabella	947	25.3 (21)	907	15.3 (31)	191	33.0 (43)	776	7.9 (29)	905	2.9 (33)
Jackson	2,433	29.1 (34)	2,400	18.4 (45)	571	29.6 (60)	2,021	7.8 (28)	2,397	2.3 (18)

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

(2) Excludes records with unknown data or errors.

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

(4) Among women who smoked 3 months prior to pregnancy.

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

# WIC PNSS & PedNSS

## Table 7B

### 2020 - 2022 Pregnancy Nutrition Surveillance <sup>(1)</sup>

### Michigan

### Comparison of Smoking Indicators by County

### Combined 3 Years

<b>Comparison of Smoking Indicators <sup>(2,3)</sup></b>										
<b>County</b>	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes <sup>(4)</sup>		Smoking in Household			
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
	Number	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Kalamazoo	3,069	20.8 (10)	2,919	10.4 (10)	458	37.6 (34)	2,441	5.1 (14)	2,917	2.1 (15)
Kalkaska	237	40.1 (73)	236	24.6 (70)	68	36.8 (35)	192	15.6 (71)	236	6.4 (75)
Kent	8,212	12.9 (4)	8,053	6.3 (4)	740	45.3 (8)	6,263	3.8 (6)	8,037	1.3 (5)
Lake	155	52.9 (82)	155	36.1 (82)	70	24.3 (73)	130	22.3 (82)	155	9.0 (80)
Lapeer	857	26.5 (26)	845	13.8 (23)	154	44.2 (12)	650	8.2 (33)	846	2.4 (21)
Leelanau	86	30.2 (39)	81	11.1 (11)	17	64.7 (1)	70	2.9 (1)	81	2.5 (23)
Lenawee	1,060	26.8 (27)	999	12.2 (16)	200	44.5 (10)	827	9.3 (37)	999	3.8 (50)
Livingston	851	27.7 (29)	811	15.0 (29)	156	40.4 (24)	628	4.9 (13)	809	1.9 (13)
Luce	97	38.1 (68)	91	22.0 (57)	26	42.3 (18)	85	10.6 (45)	89	3.4 (40)
Mackinac	84	28.6 (33)	79	17.7 (40)	16	31.3 (58)	67	11.9 (60)	79	2.5 (23)
Macomb	8,391	11.9 (3)	8,278	5.4 (3)	722	42.9 (15)	6,320	4.3 (11)	8,268	1.4 (7)
Manistee	227	31.3 (44)	223	22.0 (57)	61	26.2 (70)	187	9.6 (40)	224	4.9 (64)
Marquette	606	38.9 (70)	589	22.8 (63)	194	34.5 (41)	495	8.3 (34)	588	1.0 (2)
Mason	335	32.8 (50)	321	19.3 (49)	89	31.5 (53)	268	13.4 (66)	321	5.9 (73)
Mecosta	622	30.1 (38)	619	21.5 (54)	149	24.2 (74)	526	11.2 (56)	620	2.6 (29)
Menominee	199	37.7 (66)	189	28.6 (77)	49	28.6 (64)	150	16.0 (73)	189	3.7 (49)
Midland	829	24.8 (19)	812	13.9 (24)	152	39.5 (26)	627	5.1 (14)	808	1.5 (8)
Missaukee	194	25.8 (22)	178	18.0 (42)	31	38.7 (28)	158	9.5 (38)	177	2.8 (32)
Monroe	1,666	29.4 (35)	1,605	15.1 (30)	348	41.4 (20)	1,267	9.9 (41)	1,603	4.7 (62)

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

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(4) Among women who smoked 3 months prior to pregnancy.

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



# WIC PNSS & PedNSS

## Table 7B

### 2020 - 2022 Pregnancy Nutrition Surveillance <sup>(1)</sup>

#### Michigan

#### Comparison of Smoking Indicators by County

#### Combined 3 Years

<b>Comparison of Smoking Indicators</b> <sup>(2,3)</sup>										
<b>County</b>	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes <sup>(4)</sup>		Smoking in Household			
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
	Number	% (rank)	Number	% (rank)			Number	% (rank)	Number	% (rank)
Montcalm	849	34.4 (54)	825	18.5 (47)	216	38.4 (30)	662	12.7 (62)	826	3.8 (50)
Montmorenc	121	40.5 (75)	115	25.2 (72)	36	38.9 (27)	98	16.3 (74)	118	5.1 (66)
Muskegon	2,929	26.2 (25)	2,945	16.1 (34)	583	32.8 (45)	2,391	8.5 (35)	2,944	3.4 (40)
Newaygo	974	22.2 (13)	929	13.7 (21)	175	31.4 (56)	798	6.0 (17)	932	2.5 (23)
Oakland	8,897	9.9 (1)	8,557	4.6 (2)	623	42.1 (19)	6,657	3.7 (5)	8,561	1.2 (4)
Oceana	402	22.9 (15)	387	11.4 (12)	65	38.5 (29)	325	7.1 (24)	387	2.1 (15)
Ogemaw	307	35.2 (59)	296	24.0 (67)	77	28.6 (64)	249	20.9 (80)	297	7.1 (78)
Ontonagon	45	33.3 (51)	41	29.3 (78)	10	0.0 (82)	39	12.8 (63)	41	7.3 (79)
Osceola	416	32.0 (48)	404	21.8 (56)	101	23.8 (76)	345	14.2 (68)	404	4.5 (58)
Oscoda	102	28.4 (32)	95	20.0 (51)	22	31.8 (50)	91	6.6 (20)	95	4.2 (57)
Otsego	350	35.7 (61)	353	22.1 (59)	95	31.6 (51)	282	19.5 (79)	354	4.5 (58)
Ottawa	2,682	17.0 (7)	2,593	7.4 (6)	316	44.9 (9)	1,940	3.6 (4)	2,589	1.7 (12)
Presque Is	103	25.2 (20)	100	18.0 (42)	20	30.0 (59)	88	5.7 (16)	100	4.0 (53)
Roscommon	263	39.5 (72)	261	29.9 (80)	78	25.6 (71)	225	17.3 (76)	261	5.4 (68)
Saginaw	3,101	29.6 (37)	3,102	12.3 (17)	726	51.5 (4)	2,574	10.8 (51)	3,102	3.6 (46)
Sanilac	489	16.0 (5)	449	11.6 (14)	54	22.2 (78)	405	6.2 (19)	449	1.6 (9)
Schoolcraf	104	45.2 (80)	100	26.0 (73)	37	32.4 (48)	93	19.4 (78)	100	9.0 (80)
Shiawassee	897	23.9 (16)	854	12.6 (18)	161	34.8 (39)	671	7.5 (27)	847	3.4 (40)
St Clair	1,642	39.2 (71)	1,542	17.1 (37)	485	43.1 (14)	1,401	13.3 (65)	1,544	4.9 (64)

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(4) Among women who smoked 3 months prior to pregnancy.

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

# WIC PNSS & PedNSS

## Table 7B

### 2020 - 2022 Pregnancy Nutrition Surveillance <sup>(1)</sup>

#### Michigan

#### Comparison of Smoking Indicators by County

#### Combined 3 Years

<b>Comparison of Smoking Indicators</b> <sup>(2,3)</sup>										
<b>County</b>	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes <sup>(4)</sup>	Smoking in Household				
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy			Prenatal		Postpartum		
	Number	% (rank)	Number	% (rank)		Number	% (rank)	Number	% (rank)	
St Joseph	1,023	27.5 (28)	967	14.5 (28)	208	38.0 (32)	845	7.9 (29)	964	3.5 (45)
Tuscola	676	32.5 (49)	674	17.7 (40)	169	40.8 (21)	531	12.2 (61)	674	3.1 (36)
Van Buren	1,097	19.7 (9)	1,076	9.5 (8)	161	32.9 (44)	895	3.9 (7)	1,078	2.1 (15)
Washtenaw	2,734	16.2 (6)	2,609	6.3 (4)	314	53.2 (3)	2,142	4.3 (11)	2,611	1.0 (2)
Wayne	33,040	11.7 (2)	33,192	4.3 (1)	2,716	56.0 (2)	24,632	7.0 (22)	33,183	2.3 (18)
Wexford	583	25.9 (23)	590	16.8 (35)	112	24.1 (75)	467	11.6 (57)	589	5.4 (68)
<b>Michigan</b>	<b>124,524</b>	<b>19.5</b>	<b>122,282</b>	<b>9.9</b>	<b>17,765</b>	<b>40.9</b>	<b>96,341</b>	<b>7.1</b>	<b>122,248</b>	<b>2.5</b>

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

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

(4) Among women who smoked 3 months prior to pregnancy.

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# WIC PNSS & PedNSS

## Table 8B

### 2020 - 2022 Pregnancy Nutrition Surveillance <sup>(1)</sup>

### Michigan

### Comparison of Infant Health Indicators by County

### Combined 3 Years

<b>Comparison of Infant Health Indicators</b> <sup>(2,3)</sup>									
County	Birthweight			Preterm		Full Term LBW		Ever Breastfed	
	Low (4)		High (5)	(6)		(7)			
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Alcona	54	3.7 (2)	1.9 (1)	92	10.9 (34)	54	3.7 (34)	54	61.1 (79)
Alger	40	17.5 (81)	10.0 (65)	61	9.8 (16)	35	14.3 (82)	40	77.5 (52)
Allegan	641	9.8 (48)	5.9 (11)	1,097	13.7 (71)	552	3.8 (38)	650	75.8 (58)
Alpena	226	7.1 (14)	7.5 (31)	342	10.5 (26)	198	3.0 (20)	226	76.1 (56)
Antrim	117	7.7 (20)	6.8 (22)	186	7.5 (3)	104	1.9 (8)	121	81.0 (32)
Arenac	175	8.6 (33)	8.6 (49)	254	9.1 (8)	158	3.8 (38)	175	80.6 (36)
Baraga	78	7.7 (20)	11.5 (77)	113	9.7 (15)	67	4.5 (50)	78	73.1 (65)
Barry	297	10.8 (60)	5.4 (6)	494	12.6 (57)	257	4.7 (53)	302	84.8 (18)
Bay	802	10.8 (60)	9.1 (54)	1,255	12.4 (53)	694	3.9 (41)	808	72.4 (67)
Benzie	117	10.3 (55)	8.5 (48)	174	11.5 (41)	105	7.6 (81)	117	84.6 (19)
Berrien	1,135	8.5 (32)	5.4 (6)	1,823	10.9 (34)	1,002	4.9 (57)	1,136	74.0 (64)
Branch	509	8.8 (37)	7.9 (40)	785	9.2 (11)	449	4.7 (53)	514	78.6 (46)
Calhoun	1,362	10.5 (57)	6.6 (19)	2,237	10.4 (24)	1,202	5.3 (67)	1,374	75.8 (58)
Cass	424	7.1 (14)	9.0 (53)	664	11.6 (42)	367	3.0 (20)	426	79.3 (43)
Charlevoix	162	11.1 (62)	8.0 (41)	250	12.4 (53)	140	5.0 (63)	170	83.5 (24)
Cheboygan	174	9.8 (48)	7.5 (31)	289	11.8 (44)	147	4.8 (56)	174	82.2 (28)
Chippewa	257	8.6 (33)	12.1 (79)	421	10.0 (19)	219	3.7 (34)	257	72.0 (68)
Clare	301	8.0 (24)	8.0 (41)	459	10.0 (19)	273	5.1 (66)	300	75.0 (62)
Clinton	185	13.5 (80)	10.8 (74)	301	16.6 (80)	153	3.9 (41)	186	86.0 (13)

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(4) <2500 g.

(5) >4000 g.

(6) <37 weeks gestation.

(7) 37 or more weeks gestation and <2500 g.

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# WIC PNSS & PedNSS

## Table 8B

### 2020 - 2022 Pregnancy Nutrition Surveillance <sup>(1)</sup>

### Michigan

### Comparison of Infant Health Indicators by County

### Combined 3 Years

<b>Comparison of Infant Health Indicators</b> <sup>(2,3)</sup>									
<b>County</b>	Birthweight			Preterm		Full Term LBW		Ever Breastfed	
	Low (4)		High (5)	(6)		(7)			
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Crawford	118	9.3 (40)	10.2 (68)	210	13.3 (60)	103	4.9 (57)	119	88.2 (6)
Delta	282	5.7 (5)	8.2 (46)	471	9.1 (8)	252	2.0 (9)	283	84.1 (22)
Dickinson	203	6.9 (11)	5.9 (11)	314	11.8 (44)	179	2.8 (15)	204	78.4 (47)
Eaton	346	10.1 (54)	6.9 (23)	586	12.6 (57)	302	3.3 (26)	351	88.6 (4)
Emmet	203	8.4 (29)	6.9 (23)	319	9.4 (14)	178	2.8 (15)	208	88.0 (7)
Genesee	3,589	11.8 (69)	4.7 (2)	6,083	13.3 (60)	3,079	5.4 (70)	3,594	62.0 (78)
Gladwin	214	8.4 (29)	9.3 (58)	321	10.6 (28)	190	3.2 (23)	215	84.2 (21)
Gogebic	70	10.0 (51)	12.9 (80)	118	10.2 (22)	61	3.3 (26)	71	81.7 (30)
Gr Travers	597	9.5 (43)	8.9 (52)	901	11.1 (37)	526	3.6 (33)	601	86.9 (10)
Gratiot	287	8.4 (29)	7.7 (36)	462	10.8 (33)	248	0.8 (4)	287	81.2 (31)
Hillsdale	312	8.7 (35)	6.7 (20)	499	13.8 (72)	279	4.7 (53)	313	80.8 (34)
Houghton	277	6.5 (9)	9.7 (63)	447	9.2 (11)	252	4.0 (44)	277	85.6 (15)
Huron	235	6.8 (10)	9.8 (64)	342	9.9 (17)	211	3.3 (26)	235	78.3 (48)
Ingham	2,879	11.6 (66)	5.7 (10)	4,458	13.5 (69)	2,474	4.3 (48)	2,893	80.1 (40)
Ionia	481	7.7 (20)	10.0 (65)	716	10.9 (34)	431	3.5 (32)	480	86.5 (11)
Iosco	208	11.1 (62)	9.6 (61)	333	11.7 (43)	186	7.5 (80)	208	69.2 (74)
Iron	81	7.4 (16)	11.1 (75)	129	10.1 (21)	73	1.4 (5)	81	80.2 (38)
Isabella	543	9.6 (47)	9.6 (61)	887	10.7 (31)	482	5.4 (70)	544	75.7 (60)
Jackson	1,541	10.3 (55)	8.0 (41)	2,322	12.1 (47)	1,357	5.0 (63)	1,546	75.7 (60)

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(4) <2500 g.

(5) >4000 g.

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# WIC PNSS & PedNSS

## Table 8B

### 2020 - 2022 Pregnancy Nutrition Surveillance <sup>(1)</sup>

### Michigan

### Comparison of Infant Health Indicators by County

### Combined 3 Years

<b>Comparison of Infant Health Indicators</b> <sup>(2,3)</sup>									
<b>County</b>	Birthweight			Preterm		Full Term LBW		Ever Breastfed	
	Low (4)		High (5)	(6)		(7)			
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Kalamazoo	1,741	10.6 (58)	6.4 (18)	2,840	12.1 (47)	1,522	3.9 (41)	1,766	71.6 (69)
Kalkaska	159	11.3 (64)	10.1 (67)	226	10.6 (28)	139	4.3 (48)	159	84.3 (20)
Kent	4,563	13.1 (76)	6.0 (14)	7,890	15.1 (79)	3,855	5.4 (70)	4,615	76.7 (55)
Lake	87	12.6 (74)	11.5 (77)	151	13.9 (74)	73	2.7 (14)	87	79.3 (43)
Lapeer	506	9.5 (43)	7.7 (36)	813	13.3 (60)	424	4.2 (47)	508	81.9 (29)
Leelanau	53	13.2 (77)	9.4 (60)	79	11.4 (40)	44	4.5 (50)	53	90.6 (2)
Lenawee	612	6.0 (6)	9.2 (57)	987	8.8 (6)	562	2.8 (15)	612	70.3 (72)
Livingston	473	9.5 (43)	6.3 (17)	792	13.4 (66)	413	3.1 (22)	473	85.0 (17)
Luce	54	3.7 (2)	9.3 (58)	84	14.3 (77)	46	0.0 (1)	54	87.0 (9)
Mackinac	54	7.4 (16)	13.0 (81)	77	6.5 (1)	49	4.1 (45)	54	85.2 (16)
Macomb	4,694	12.1 (70)	4.9 (4)	8,012	13.3 (60)	4,016	4.9 (57)	4,716	65.6 (77)
Manistee	143	12.6 (74)	10.5 (71)	209	13.4 (66)	123	4.9 (57)	145	77.9 (49)
Marquette	362	6.9 (11)	9.1 (54)	562	9.1 (8)	324	3.4 (30)	363	86.2 (12)
Mason	211	10.0 (51)	7.1 (26)	305	12.1 (47)	183	3.8 (38)	211	76.8 (54)
Mecosta	358	7.5 (19)	8.1 (44)	601	10.5 (26)	325	2.8 (15)	359	79.4 (42)
Menominee	111	9.0 (39)	8.1 (44)	185	8.1 (5)	100	6.0 (76)	111	58.6 (80)
Midland	485	7.4 (16)	9.1 (54)	796	10.3 (23)	429	2.3 (11)	487	80.5 (37)
Missaukee	84	8.3 (28)	7.1 (26)	167	9.0 (7)	74	4.1 (45)	84	89.3 (3)
Monroe	901	8.0 (24)	7.0 (25)	1,560	11.3 (38)	801	2.4 (12)	902	70.6 (70)

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# WIC PNSS & PedNSS

## Table 8B

### 2020 - 2022 Pregnancy Nutrition Surveillance <sup>(1)</sup>

### Michigan

### Comparison of Infant Health Indicators by County

### Combined 3 Years

<b>Comparison of Infant Health Indicators</b> <sup>(2,3)</sup>									
<b>County</b>	Birthweight			Preterm		Full Term LBW		Ever Breastfed	
	Low (4)		High (5)	(6)		(7)			
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Montcalm	496	9.5 (43)	7.1 (26)	798	13.5 (69)	423	2.1 (10)	497	87.1 (8)
Montmorenc	69	11.6 (66)	14.5 (82)	111	9.9 (17)	59	6.8 (79)	70	82.9 (25)
Muskegon	1,889	10.7 (59)	6.1 (16)	2,834	12.8 (59)	1,631	5.4 (70)	1,896	70.4 (71)
Newaygo	557	7.9 (23)	7.7 (36)	882	11.9 (46)	488	2.9 (19)	559	82.6 (26)
Oakland	4,831	12.3 (72)	5.6 (9)	8,358	13.8 (72)	4,111	4.9 (57)	4,929	74.5 (63)
Oceana	246	11.4 (65)	7.3 (29)	362	13.3 (60)	207	5.3 (67)	250	82.4 (27)
Ogemaw	172	8.1 (26)	7.6 (34)	284	6.7 (2)	156	5.8 (75)	172	70.3 (72)
Ontonagon	27	25.9 (82)	11.1 (75)	40	22.5 (82)	20	5.0 (63)	27	92.6 (1)
Osceola	242	11.6 (66)	7.4 (30)	384	12.2 (51)	208	6.7 (78)	243	80.2 (38)
Oscoda	58	3.4 (1)	8.6 (49)	89	12.4 (53)	52	0.0 (1)	58	77.6 (50)
Otsego	224	9.8 (48)	10.7 (73)	344	9.3 (13)	199	4.5 (50)	243	77.0 (53)
Ottawa	1,327	9.4 (42)	7.5 (31)	2,526	13.3 (60)	1,141	3.2 (23)	1,552	83.8 (23)
Presque Is	66	12.1 (70)	10.6 (72)	97	14.4 (78)	54	3.7 (34)	66	78.8 (45)
Roscommon	153	3.9 (4)	5.9 (11)	245	7.8 (4)	136	1.5 (6)	153	81.0 (32)
Saginaw	1,931	13.2 (77)	5.4 (6)	3,018	13.4 (66)	1,672	5.6 (74)	1,941	68.6 (75)
Sanilac	276	8.7 (35)	7.6 (34)	442	10.6 (28)	246	4.9 (57)	280	56.8 (82)
Schoolcraf	67	6.0 (6)	6.0 (14)	99	18.2 (81)	57	0.0 (1)	67	77.6 (50)
Shiawassee	494	6.9 (11)	8.7 (51)	839	10.4 (24)	441	3.2 (23)	495	72.7 (66)
St Clair	947	10.0 (51)	6.7 (20)	1,489	12.2 (51)	823	3.4 (30)	947	68.1 (76)

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

(2) Excludes records with unknown data or errors.

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

(4) <2500 g.

(5) >4000 g.

(6) <37 weeks gestation.

(7) 37 or more weeks gestation and <2500 g.

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

# WIC PNSS & PedNSS

## Table 8B

### 2020 - 2022 Pregnancy Nutrition Surveillance <sup>(1)</sup>

### Michigan

### Comparison of Infant Health Indicators by County

### Combined 3 Years

<b>Comparison of Infant Health Indicators</b> <sup>(2,3)</sup>									
<b>County</b>	Birthweight			Preterm		Full Term LBW		Ever Breastfed	
	Low (4)		High (5)	(6)		(7)			
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
St Joseph	616	6.2 (8)	10.4 (69)	934	10.7 (31)	543	1.8 (7)	619	88.4 (5)
Tuscola	428	8.2 (27)	8.4 (47)	656	11.3 (38)	377	3.7 (34)	428	79.7 (41)
Van Buren	662	8.9 (38)	7.7 (36)	1,045	12.1 (47)	578	3.3 (26)	677	76.1 (56)
Washtenaw	1,511	12.5 (73)	5.2 (5)	2,531	14.2 (76)	1,273	5.3 (67)	1,525	80.7 (35)
Wayne	18,587	13.4 (79)	4.7 (2)	32,266	14.0 (75)	15,779	6.6 (77)	19,058	57.8 (81)
Wexford	386	9.3 (40)	10.4 (69)	564	12.4 (53)	332	2.4 (12)	387	85.8 (14)
<b>Michigan</b>	<b>71,436</b>	<b>11.3</b>	<b>6.2</b>	<b>118,823</b>	<b>13.0</b>	<b>61,548</b>	<b>5.0</b>	<b>72,517</b>	<b>48.4</b>

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

(2) Excludes records with unknown data or errors.

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

(4) <2500 g.

(5) >4000 g.

(6) <37 weeks gestation.

(7) 37 or more weeks gestation and <2500 g.

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