

# WIC PNSS & PedNSS

## Table 3B

### 2019 Pregnancy Nutrition Surveillance (1)

#### Michigan

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

Comparison of Racial and Ethnic Distribution (2)								
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	34	*	*	*	*	*	*	*
Alger	32	*	*	*	*	*	*	*
Allegan	504	76.8	1.6	15.7	0.2	0.0	4.2	1.6
Alpena	161	93.2	0.6	1.2	0.6	0.6	3.1	0.6
Antrim	90	*	*	*	*	*	*	*
Arenac	112	94.6	0.0	1.8	0.0	0.0	3.6	0.0
Baraga	34	*	*	*	*	*	*	*
Barry	228	92.5	0.0	5.3	0.0	0.4	0.9	0.9
Bay	537	79.9	1.7	12.1	0.0	0.2	5.4	0.7
Benzie	98	*	*	*	*	*	*	*
Berrien	986	48.3	36.9	8.3	0.6	0.8	4.6	0.5
Branch	344	88.1	0.6	8.4	0.0	0.0	1.7	1.2
Calhoun	930	63.2	20.0	5.9	0.2	4.4	5.7	0.5
Cass	341	61.6	7.6	22.6	0.3	0.3	6.7	0.9
Charlevoix	115	87.8	0.9	2.6	0.9	0.0	7.8	0.0
Cheboygan	140	90.0	1.4	2.1	0.0	0.0	6.4	0.0
Chippewa	223	49.8	0.4	4.0	26.0	0.9	17.5	0.9
Clare	213	94.4	0.5	1.9	0.9	0.9	1.4	0.0
Clinton	163	81.6	0.6	12.3	0.0	0.0	4.9	0.6
Crawford	92	*	*	*	*	*	*	*
Delta	219	84.0	0.0	2.7	0.5	0.0	12.8	0.0
Dickinson	133	87.2	0.8	3.8	0.0	0.0	5.3	3.0
Eaton	267	84.3	4.9	6.4	0.0	2.6	1.5	0.4

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Emmet	166	88.6	1.2	2.4	1.8	0.0	6.0	0.0
Genesee	2,816	47.9	38.6	5.3	0.0	0.1	7.7	0.4
Gladwin	117	96.6	0.0	1.7	0.0	0.0	1.7	0.0
Gogebic	73	*	*	*	*	*	*	*
Gr Travers	403	84.6	0.7	5.0	1.2	1.2	6.5	0.7
Gratiot	238	85.7	0.4	12.2	0.0	0.0	1.3	0.4
Hillsdale	252	92.9	0.4	3.2	0.0	0.4	2.0	1.2
Houghton	169	89.3	1.2	1.2	0.6	2.4	4.7	0.6
Huron	150	93.3	0.0	4.0	0.0	0.7	1.3	0.7
Ingham	1,848	41.6	29.0	14.9	0.1	5.2	8.8	0.3
Ionia	360	85.3	0.0	10.3	0.0	0.3	3.9	0.3
Iosco	149	85.2	2.0	4.0	0.0	0.7	8.1	0.0
Iron	66	*	*	*	*	*	*	*
Isabella	360	80.0	2.2	6.9	3.9	1.4	5.3	0.3
Jackson	1,002	72.9	13.4	5.3	0.2	0.2	7.7	0.4
Kalamazoo	1,501	47.6	33.0	9.7	0.1	1.2	8.1	0.3
Kalkaska	100	94.0	1.0	1.0	0.0	1.0	3.0	0.0
Kent	3,631	33.2	28.3	28.8	0.4	4.0	4.8	0.4
Lake	56	*	*	*	*	*	*	*
Lapeer	427	83.4	0.2	12.4	0.0	0.5	2.8	0.7
Leelanau	36	*	*	*	*	*	*	*
Lenawee	434	73.3	1.8	17.3	0.0	0.0	7.1	0.5
Livingston	367	92.4	0.5	4.1	0.0	0.3	1.6	1.1

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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	47	*	*	*	*	*	*	*
Mackinac	40	*	*	*	*	*	*	*
Macomb	3,383	55.3	28.3	4.2	0.1	7.0	4.9	0.3
Manistee	118	78.8	2.5	6.8	2.5	0.8	7.6	0.8
Marquette	266	90.6	0.4	1.9	0.8	0.0	6.4	0.0
Mason	144	78.5	1.4	13.2	0.0	0.7	6.3	0.0
Mecosta	250	86.4	5.2	2.8	0.0	0.0	5.2	0.4
Menominee	105	65.7	0.0	10.5	10.5	0.0	12.4	1.0
Midland	335	93.1	1.2	1.8	0.0	0.6	3.3	0.0
Missaukee	69	*	*	*	*	*	*	*
Monroe	680	81.6	6.2	6.2	0.1	0.4	4.9	0.6
Montcalm	346	91.0	0.3	6.1	0.0	0.0	2.3	0.3
Montmorenc	53	*	*	*	*	*	*	*
Muskegon	1,363	53.9	27.9	9.5	0.4	0.4	7.6	0.3
Newaygo	343	77.6	0.3	18.4	0.3	0.3	3.2	0.0
Oakland	3,723	42.0	40.7	11.0	0.0	2.0	4.1	0.1
Oceana	166	63.3	1.2	34.3	0.0	0.0	1.2	0.0
Ogemaw	147	89.1	0.0	6.8	0.7	0.0	3.4	0.0
Ontonagon	21	*	*	*	*	*	*	*
Osceola	145	88.3	1.4	3.4	0.0	0.0	6.9	0.0
Oscoda	41	*	*	*	*	*	*	*
Otsego	170	97.1	0.0	1.2	0.0	0.0	1.8	0.0
Ottawa	1,162	56.5	4.7	31.1	0.3	2.8	3.8	0.9

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<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	21	*	*	*	*	*	*	*
Roscommon	119	91.6	0.0	0.8	0.0	0.0	5.9	1.7
Saginaw	1,351	38.0	41.2	14.9	0.0	1.0	4.7	0.2
Sanilac	212	93.4	0.0	5.2	0.0	0.0	1.4	0.0
Schoolcraf	43	*	*	*	*	*	*	*
Shiawassee	413	89.8	0.5	4.8	0.0	0.0	4.6	0.2
St Clair	765	81.8	6.3	6.4	0.4	0.4	4.4	0.3
St Joseph	471	72.4	0.6	18.0	0.0	0.2	7.9	0.8
Tuscola	302	93.0	0.0	4.6	0.0	0.0	2.3	0.0
Van Buren	488	64.8	1.8	28.5	0.0	0.4	3.9	0.6
Washtenaw	1,119	36.6	40.0	10.3	0.2	1.9	10.6	0.4
Wayne	14,634	26.7	58.7	9.2	0.1	2.5	2.5	0.3
Wexford	282	91.1	0.4	2.8	0.0	0.7	4.3	0.7
<b>Michigan</b>	<b>54,099</b>	<b>51.1</b>	<b>30.6</b>	<b>10.6</b>	<b>0.4</b>	<b>2.1</b>	<b>4.8</b>	<b>0.4</b>
<b>National (Prior Year)</b>	<b>181,949</b>	<b>53.8</b>	<b>23.0</b>	<b>14.9</b>	<b>1.5</b>	<b>2.8</b>	<b>3.7</b>	<b>0.4</b>

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## Table 4B

### 2019 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	34	*	*	*	*	*	*	*
Alger	32	*	*	*	*	*	*	*
Allegan	504	0.0	2.8	7.5	62.7	25.2	1.8	0.0
Alpena	161	0.0	3.1	7.5	67.1	20.5	1.9	0.0
Antrim	90	*	*	*	*	*	*	*
Arenac	112	0.0	1.8	3.6	73.2	18.8	2.7	0.0
Baraga	34	*	*	*	*	*	*	*
Barry	228	0.0	3.1	7.5	61.8	25.4	1.3	0.9
Bay	537	0.2	3.0	7.8	62.4	25.0	1.7	0.0
Benzie	98	*	*	*	*	*	*	*
Berrien	986	0.1	2.5	10.2	60.1	23.7	1.3	1.9
Branch	344	0.0	1.2	11.0	60.2	24.1	3.5	0.0
Calhoun	930	0.4	2.7	8.1	64.5	23.2	0.9	0.2
Cass	341	0.3	4.4	13.8	57.8	22.3	1.5	0.0
Charlevoix	115	0.0	1.7	4.3	74.8	19.1	0.0	0.0
Cheboygan	140	0.0	2.9	9.3	58.6	27.1	2.1	0.0
Chippewa	223	0.0	2.7	7.2	62.8	25.6	1.8	0.0
Clare	213	0.0	2.8	6.6	71.4	17.8	0.9	0.5
Clinton	163	0.0	1.8	4.9	63.2	28.8	1.2	0.0
Crawford	92	*	*	*	*	*	*	*
Delta	219	0.0	1.8	9.6	65.8	21.5	1.4	0.0
Dickinson	133	0.8	0.8	9.0	61.7	26.3	1.5	0.0
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Emmet	166	0.0	1.2	6.6	65.7	24.1	2.4	0.0

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Hillsdale	252	0.0	2.0	8.3	69.4	18.3	1.6	0.4
Houghton	169	0.0	2.4	7.7	52.1	33.1	4.7	0.0
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Ingham	1,848	0.1	2.4	8.3	61.0	26.5	1.6	0.2
Ionia	360	0.0	1.7	9.7	61.9	25.6	1.1	0.0
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Kent	3,631	0.1	2.9	7.4	58.1	29.1	2.1	0.3
Lake	56	*	*	*	*	*	*	*
Lapeer	427	0.0	3.3	5.4	65.1	25.1	1.2	0.0
Leelanau	36	*	*	*	*	*	*	*
Lenawee	434	0.0	1.8	9.2	65.4	22.4	1.2	0.0
Livingston	367	0.0	2.5	4.1	61.9	29.2	2.5	0.0
Luce	47	*	*	*	*	*	*	*
Mackinac	40	*	*	*	*	*	*	*

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Manistee	118	0.0	2.5	13.6	58.5	22.0	3.4	0.0
Marquette	266	0.0	0.8	9.4	60.9	27.1	1.9	0.0
Mason	144	0.0	2.8	9.0	64.6	22.9	0.7	0.0
Mecosta	250	0.4	0.8	6.8	69.6	21.2	0.8	0.4
Menominee	105	0.0	5.7	8.6	62.9	21.9	1.0	0.0
Midland	335	0.0	1.5	4.5	66.6	25.4	2.1	0.0
Missaukee	69	*	*	*	*	*	*	*
Monroe	680	0.0	3.2	9.6	63.7	22.4	1.2	0.0
Montcalm	346	0.3	3.8	6.6	69.9	17.6	1.7	0.0
Montmorenc	53	*	*	*	*	*	*	*
Muskegon	1,363	0.2	3.7	10.5	62.2	22.2	1.0	0.2
Newaygo	343	0.3	2.0	9.9	60.3	25.1	2.3	0.0
Oakland	3,723	0.1	1.2	5.8	58.6	31.6	2.5	0.3
Oceana	166	0.0	4.8	9.6	63.3	20.5	1.8	0.0
Ogemaw	147	0.0	2.0	10.9	66.7	19.0	1.4	0.0
Ontonagon	21	*	*	*	*	*	*	*
Osceola	145	0.7	4.1	9.0	67.6	17.9	0.7	0.0
Oscoda	41	*	*	*	*	*	*	*
Otsego	170	0.0	1.2	8.2	62.4	28.2	0.0	0.0
Ottawa	1,162	0.0	3.0	6.8	60.5	28.5	1.2	0.0
Presque Is	21	*	*	*	*	*	*	*
Roscommon	119	0.0	2.5	10.1	63.9	22.7	0.0	0.8
Saginaw	1,351	0.1	3.2	8.2	65.4	21.8	1.2	0.1

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Schoolcraf	43	*	*	*	*	*	*	*
Shiawassee	413	0.0	4.1	9.4	66.3	18.4	1.7	0.0
St Clair	765	0.0	3.3	8.0	63.7	23.1	2.0	0.0
St Joseph	471	0.0	2.8	10.0	60.1	25.1	2.1	0.0
Tuscola	302	0.3	3.0	6.0	67.5	20.9	2.3	0.0
Van Buren	488	0.0	3.3	9.8	59.4	25.0	2.0	0.4
Washtenaw	1,119	0.1	1.9	7.1	60.1	28.9	1.9	0.1
Wayne	14,634	0.1	2.1	6.6	61.1	27.3	2.7	0.1
Wexford	282	0.0	2.5	8.5	63.5	23.4	1.8	0.4
<b>Michigan</b>	<b>54,102</b>	<b>0.1</b>	<b>2.4</b>	<b>7.4</b>	<b>61.8</b>	<b>26.1</b>	<b>2.0</b>	<b>0.2</b>
<b>National (Prior Year)</b>	<b>181,959</b>	<b>0.1</b>	<b>2.9</b>	<b>8.6</b>	<b>61.8</b>	<b>24.6</b>	<b>1.8</b>	<b>0.1</b>

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# WIC PNSS & PedNSS

## Table 5B

### 2019 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	16	*	*	5	*	*	3	*	8	*	29	*	29	*
Alger	22	*	*	2	*	*	6	*	8	*	28	*	28	*
Allegan	388	6.2 (49)	61.6 (34)	167	22.2 (36)	48.5 (11)	86	*	161	26.1 (7)	443	7.4 (30)	443	7.9 (4)
Alpena	151	5.3 (43)	65.6 (55)	104	23.1 (38)	50.0 (14)	20	*	27	*	148	4.7 (6)	148	18.2 (58)
Antrim	63	*	*	23	*	*	15	*	8	*	89	*	88	*
Arenac	87	*	*	60	*	*	17	*	26	*	111	9.9 (55)	111	18.9 (61)
Baraga	29	*	*	18	*	*	8	*	11	*	31	*	31	*
Barry	121	6.6 (53)	51.2 (2)	34	*	*	37	*	53	*	205	5.9 (12)	205	11.2 (26)
Bay	447	2.9 (6)	62.0 (37)	291	17.5 (16)	52.6 (27)	87	*	77	*	494	5.1 (8)	494	8.9 (10)
Benzie	91	*	*	70	*	*	14	*	16	*	93	*	93	*
Berrien	839	4.4 (29)	60.7 (27)	610	21.8 (35)	48.0 (7)	134	43.3 (7)	143	21.0 (4)	893	8.0 (37)	893	16.5 (55)
Branch	264	4.9 (37)	61.0 (30)	125	19.2 (25)	52.8 (28)	66	*	65	*	317	7.6 (32)	317	10.1 (17)
Calhoun	727	3.9 (24)	63.0 (44)	399	20.6 (32)	53.1 (29)	119	41.2 (4)	210	27.1 (8)	839	9.2 (47)	838	10.0 (15)
Cass	303	5.3 (43)	58.7 (13)	228	18.4 (19)	50.0 (14)	45	*	36	*	311	8.7 (45)	313	14.7 (43)
Charlevoix	89	*	*	33	*	*	10	*	19	*	111	4.5 (3)	111	9.0 (11)
Cheboygan	134	8.2 (56)	54.5 (6)	30	*	*	19	*	34	*	128	7.0 (20)	128	11.7 (27)
Chippewa	194	5.2 (39)	55.7 (8)	132	12.9 (4)	56.1 (38)	27	*	48	*	197	5.1 (8)	197	12.7 (33)

(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 2019 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	199	6.0 (48)	53.3 (4)	120	10.0 (1)	52.5 (25)	22	*	35	*	199	8.0 (37)	199	10.1 (17)
Clinton	152	5.3 (43)	59.9 (23)	120	15.8 (8)	51.7 (20)	23	*	49	*	152	9.2 (47)	152	15.1 (46)
Crawford	81	*	*	63	*	*	11	*	26	*	85	*	85	*
Delta	203	3.4 (14)	60.1 (24)	152	14.5 (6)	56.6 (39)	34	*	56	*	200	9.5 (52)	200	18.5 (60)
Dickinson	96	*	*	34	*	*	24	*	34	*	118	3.4 (1)	118	14.4 (40)
Eaton	186	4.8 (35)	62.9 (43)	118	22.9 (37)	48.3 (8)	40	*	57	*	239	11.7 (60)	240	14.6 (42)
Emmet	147	4.8 (35)	63.3 (48)	59	*	*	25	*	22	*	157	4.5 (3)	157	17.8 (57)
Genesee	2,183	5.3 (43)	58.9 (15)	1,131	19.2 (25)	51.9 (21)	520	49.2 (14)	515	31.1 (11)	2,601	7.2 (25)	2,602	14.7 (43)
Gladwin	107	1.9 (2)	58.9 (15)	67	*	*	17	*	18	*	107	9.3 (50)	107	15.9 (51)
Gogebic	63	*	*	22	*	*	9	*	13	*	66	*	66	*
Gr Travers	354	3.7 (18)	53.4 (5)	286	13.3 (5)	54.5 (34)	55	*	67	*	374	11.0 (59)	374	7.5 (3)
Gratiot	230	2.6 (4)	66.1 (56)	192	24.0 (39)	47.9 (6)	35	*	46	*	221	12.2 (61)	222	14.4 (40)
Hillsdale	227	6.6 (53)	59.5 (21)	171	19.3 (27)	54.4 (32)	35	*	62	*	232	8.6 (42)	232	6.5 (1)
Houghton	119	2.5 (3)	52.9 (3)	49	*	*	21	*	57	*	150	7.3 (27)	150	7.3 (2)
Huron	129	6.2 (49)	63.6 (49)	94	*	*	20	*	35	*	137	5.1 (8)	138	8.0 (5)
Ingham	1,534	4.2 (26)	61.9 (35)	1,199	18.3 (18)	52.0 (22)	333	48.0 (12)	369	31.4 (12)	1,718	7.3 (27)	1,719	10.5 (20)
Ionia	282	3.2 (9)	64.5 (52)	189	15.3 (7)	56.6 (39)	45	*	96	*	329	10.6 (58)	328	16.5 (55)

(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 2019 Pregnancy Nutrition Surveillance (1) Michigan

### Comparison of Maternal Health Indicators by County

<b>Comparison of Maternal Health Indicators</b> (2,3)														
<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	88	*	*	34	*	*	22	*	26	*	135	4.4 (2)	135	10.4 (19)
Iron	55	*	*	28	*	*	7	*	13	*	54	*	54	*
Isabella	291	4.5 (32)	63.6 (49)	220	15.9 (9)	51.4 (19)	48	*	72	*	326	8.6 (42)	327	12.2 (30)
Jackson	719	4.2 (26)	62.0 (37)	425	20.0 (31)	54.4 (32)	144	38.9 (1)	154	33.8 (15)	913	7.1 (23)	915	9.3 (12)
Kalamazoo	1,220	3.7 (18)	60.9 (29)	625	17.4 (13)	54.9 (35)	193	45.6 (9)	350	34.0 (16)	1,357	9.4 (51)	1,357	10.9 (22)
Kalkaska	85	*	*	70	*	*	19	*	30	*	95	*	95	*
Kent	2,503	4.2 (26)	59.7 (22)	1,060	28.0 (41)	40.8 (2)	682	41.6 (6)	1,257	32.3 (13)	3,361	7.7 (34)	3,366	13.6 (36)
Lake	50	*	*	35	*	*	7	*	10	*	50	*	51	*
Lapeer	416	2.6 (4)	58.9 (15)	369	17.3 (12)	50.7 (16)	73	*	109	34.9 (17)	395	4.6 (5)	395	8.4 (8)
Leelanau	33	*	*	26	*	*	7	*	6	*	35	*	35	*
Lenawee	335	3.0 (7)	61.2 (31)	52	*	*	91	*	119	42.9 (22)	394	8.6 (42)	394	11.7 (27)
Livingston	349	5.2 (39)	49.6 (1)	221	21.7 (34)	48.4 (10)	53	*	129	13.2 (1)	329	13.4 (62)	329	15.8 (50)
Luce	47	*	*	33	*	*	6	*	6	*	40	*	40	*
Mackinac	39	*	*	36	*	*	4	*	11	*	36	*	36	*
Macomb	2,898	3.7 (18)	60.4 (25)	2,270	19.3 (27)	52.0 (22)	646	39.3 (2)	957	25.8 (6)	3,145	7.6 (32)	3,146	9.6 (14)
Manistee	83	*	*	30	*	*	20	*	36	*	111	9.0 (46)	111	16.2 (52)
Marquette	236	3.4 (14)	60.6 (26)	173	16.2 (11)	53.8 (30)	38	*	59	*	230	4.8 (7)	232	16.4 (54)

(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 2019 Pregnancy Nutrition Surveillance (1) Michigan

### Comparison of Maternal Health Indicators by County

Comparison of Maternal Health Indicators (2,3)														
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)
Mason	124	3.2 (9)	58.9 (15)	78	*	*	32	*	33	*	135	10.4 (57)	135	11.1 (25)
Mecosta	209	3.3 (13)	61.2 (31)	120	12.5 (2)	55.8 (37)	27	*	56	*	236	8.1 (39)	235	14.0 (37)
Menominee	95	*	*	69	*	*	14	*	27	*	90	*	91	*
Midland	319	3.4 (14)	63.0 (44)	21	*	*	49	*	127	14.2 (2)	316	7.9 (35)	316	13.3 (35)
Missaukee	66	*	*	54	*	*	8	*	16	*	60	*	60	*
Monroe	566	3.2 (9)	65.4 (54)	358	24.0 (39)	46.9 (3)	118	50.0 (15)	145	30.3 (9)	624	7.5 (31)	625	16.3 (53)
Montcalm	323	6.5 (52)	58.8 (14)	265	17.4 (13)	49.4 (12)	52	*	117	17.1 (3)	331	6.6 (16)	331	15.4 (48)
Montmorenc	49	*	*	19	*	*	6	*	13	*	48	*	48	*
Muskegon	1,226	4.4 (29)	62.7 (40)	798	18.5 (20)	52.5 (25)	181	45.3 (8)	180	21.7 (5)	1,245	8.4 (41)	1,246	18.3 (59)
Newaygo	314	3.2 (9)	62.7 (40)	259	18.5 (20)	49.4 (12)	53	*	75	*	326	9.8 (53)	326	14.1 (38)
Oakland	3,208	4.1 (25)	58.6 (12)	2,030	17.7 (17)	54.3 (31)	657	48.4 (13)	848	35.3 (18)	3,410	6.4 (15)	3,411	11.0 (23)
Oceana	135	4.4 (29)	65.2 (53)	89	*	*	30	*	26	*	147	6.8 (19)	146	12.3 (31)
Ogemaw	124	7.3 (55)	58.9 (15)	77	*	*	22	*	32	*	139	5.8 (11)	139	8.6 (9)
Ontonagon	21	*	*	17	*	*	4	*	7	*	19	*	19	*
Osceola	130	0.8 (1)	63.1 (46)	85	*	*	20	*	34	*	133	6.0 (13)	134	14.9 (45)
Oscoda	34	*	*	16	*	*	2	*	9	*	36	*	36	*
Otsego	131	4.6 (33)	55.7 (8)	28	*	*	26	*	22	*	166	7.2 (25)	166	10.8 (21)

(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 2019 Pregnancy Nutrition Surveillance (1) Michigan

### Comparison of Maternal Health Indicators by County

<b>Comparison of Maternal Health Indicators</b> (2,3)														
<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	862	5.2 (39)	59.0 (20)	514	12.8 (3)	51.2 (17)	165	41.2 (4)	359	36.5 (19)	1,061	9.2 (47)	1,062	8.1 (6)
Presque Is	21	*	*	15	*	*	2	*	3	*	19	*	19	*
Roscommon	107	4.7 (34)	57.0 (10)	83	*	*	16	*	16	*	104	6.7 (17)	105	20.0 (62)
Saginaw	1,159	3.5 (17)	63.2 (47)	887	19.4 (29)	51.3 (18)	235	46.0 (10)	478	30.5 (10)	1,256	7.0 (20)	1,257	11.9 (29)
Sanilac	33	*	*	18	*	*	39	*	36	*	193	7.3 (27)	193	8.3 (7)
Schoolcraf	26	*	*	13	*	*	3	*	8	*	39	*	39	*
Shiawassee	398	3.8 (22)	63.6 (49)	332	19.0 (24)	47.3 (5)	64	*	89	*	375	10.1 (56)	376	14.1 (38)
St Clair	719	6.3 (51)	55.6 (7)	632	17.4 (13)	55.5 (36)	108	40.7 (3)	129	37.2 (20)	708	8.2 (40)	709	15.7 (49)
St Joseph	419	5.0 (38)	62.8 (42)	169	18.9 (23)	58.0 (41)	66	*	79	*	424	7.1 (23)	424	9.4 (13)
Tuscola	223	3.1 (8)	61.4 (33)	168	16.1 (10)	58.9 (42)	39	*	64	*	287	9.8 (53)	287	15.3 (47)
Van Buren	435	5.7 (47)	62.3 (39)	241	41.1 (42)	34.0 (1)	60	*	78	*	441	7.9 (35)	441	10.0 (15)
Washtenaw	982	3.8 (22)	60.7 (27)	658	21.1 (33)	48.3 (8)	208	46.2 (11)	330	33.6 (14)	991	7.0 (20)	993	12.4 (32)
Wayne	11,291	3.7 (18)	61.9 (35)	7,007	18.5 (20)	52.2 (24)	2,711	54.6 (16)	2,860	38.4 (21)	13,634	6.3 (14)	13,634	11.0 (23)
Wexford	248	5.2 (39)	57.7 (11)	132	19.7 (30)	47.0 (4)	39	*	51	*	253	6.7 (17)	253	13.0 (34)
<b>Michigan</b>	<b>43,733</b>	<b>4.2</b>	<b>60.6</b>	<b>27,372</b>	<b>19.1</b>	<b>51.5</b>	<b>9,098</b>	<b>45.0</b>	<b>12,203</b>	<b>30.7</b>	<b>49,829</b>	<b>7.3</b>	<b>49,855</b>	<b>11.9</b>
<b>National (Prior Year)</b>	<b>159,852</b>	<b>4.1</b>	<b>60.3</b>	<b>114,229</b>	<b>22.5</b>	<b>48.3</b>	<b>44,569</b>	<b>18.2</b>	<b>57,476</b>	<b>18.5</b>	<b>100,642</b>	<b>10.0</b>	<b>99,796</b>	<b>9.4</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) 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 6B

### 2019 Pregnancy Nutrition Surveillance (1)

#### Michigan

#### Comparison of Maternal Behavioral Indicators by County

<b>Comparison of Maternal Behavioral Indicators (2,3)</b>									
County	Medical Care			WIC Enrollment		Multivitamin Consumption			
	1st Trimester		No Care	1st Trimester		Pregpregnancy (4)		During Pregnancy (5)	
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Alcona	30	*	*	33	*	30	*	26	*
Alger	28	*	*	32	*	31	*	26	*
Allegan	445	92.1 (5)	2.9 (4)	497	32.0 (43)	396	20.5 (37)	366	87.7 (34)
Alpena	145	80.0 (47)	13.1 (46)	155	43.9 (3)	145	22.8 (27)	128	89.8 (25)
Antrim	89	*	*	87	*	81	*	77	*
Arenac	111	86.5 (22)	9.9 (38)	112	34.8 (31)	99	*	79	*
Baraga	30	*	*	33	*	33	*	28	*
Barry	203	89.7 (12)	7.4 (27)	226	33.2 (38)	212	25.9 (18)	178	95.5 (2)
Bay	493	76.5 (52)	18.7 (57)	533	39.2 (11)	491	15.3 (54)	445	89.4 (27)
Benzie	93	*	*	98	*	81	*	77	*
Berrien	871	71.3 (60)	13.9 (49)	972	30.9 (48)	862	15.2 (56)	731	88.5 (31)
Branch	279	82.8 (40)	9.0 (32)	340	32.9 (39)	296	17.2 (47)	251	81.7 (55)
Calhoun	822	88.4 (16)	6.6 (24)	913	35.6 (26)	657	19.0 (42)	689	83.5 (51)
Cass	311	81.0 (45)	10.9 (40)	337	44.8 (2)	278	33.8 (9)	277	80.5 (56)
Charlevoix	110	85.5 (25)	6.4 (22)	113	38.9 (14)	102	20.6 (35)	89	*
Cheboygan	132	81.1 (44)	12.9 (45)	137	35.8 (25)	126	20.6 (35)	112	89.3 (28)
Chippewa	196	85.2 (28)	9.2 (34)	217	39.2 (11)	180	42.8 (2)	168	84.5 (47)
Clare	196	75.5 (54)	16.8 (52)	210	46.7 (1)	179	25.7 (19)	174	85.6 (44)
Clinton	152	85.5 (25)	9.2 (34)	160	32.5 (41)	139	25.2 (21)	120	90.0 (23)
Crawford	83	*	*	92	*	83	*	75	*

(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

### 2019 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	199	92.5 (3)	1.5 (2)	217	42.9 (5)	198	24.2 (25)	175	92.6 (12)
Dickinson	117	89.7 (12)	6.8 (25)	131	35.1 (28)	120	40.8 (5)	108	96.3 (1)
Eaton	241	86.7 (21)	4.1 (13)	266	27.8 (53)	241	24.9 (23)	192	92.2 (15)
Emmet	159	89.3 (15)	5.0 (16)	164	31.1 (47)	158	29.7 (13)	135	86.7 (39)
Genesee	2,594	86.0 (23)	4.2 (14)	2,764	24.3 (57)	2,141	4.3 (61)	1,985	86.1 (43)
Gladwin	108	75.9 (53)	19.4 (60)	116	37.1 (20)	109	32.1 (12)	98	*
Gogebic	65	*	*	70	*	63	*	57	*
Gr Travers	373	82.3 (41)	11.0 (42)	399	27.6 (54)	350	22.0 (30)	280	87.1 (37)
Gratiot	220	74.1 (57)	19.1 (58)	233	38.2 (17)	207	25.6 (20)	186	94.6 (4)
Hillsdale	229	80.3 (46)	11.8 (43)	251	31.9 (44)	216	19.0 (42)	189	84.1 (50)
Houghton	152	82.9 (39)	13.2 (47)	169	39.1 (13)	153	42.5 (3)	134	94.0 (7)
Huron	137	87.6 (19)	8.0 (29)	149	32.2 (42)	126	32.5 (11)	112	87.5 (35)
Ingham	1,705	85.6 (24)	5.7 (19)	1,832	28.9 (52)	1,635	8.3 (60)	1,369	90.7 (19)
Ionia	322	95.3 (1)	2.8 (3)	357	33.3 (36)	316	21.2 (31)	265	90.9 (18)
Iosco	134	84.3 (35)	10.4 (39)	141	29.1 (51)	130	20.0 (39)	120	94.2 (5)
Iron	56	*	*	66	*	51	*	51	*
Isabella	333	85.3 (27)	9.6 (36)	355	34.1 (34)	313	24.9 (23)	279	92.8 (11)
Jackson	908	84.1 (36)	8.5 (30)	989	38.7 (15)	878	17.1 (48)	798	85.3 (45)
Kalamazoo	1,349	84.8 (31)	8.5 (30)	1,488	39.4 (10)	1,352	15.8 (52)	1,188	82.6 (52)
Kalkaska	95	*	*	98	*	85	*	73	*
Kent	3,333	84.6 (34)	5.5 (18)	3,586	23.5 (58)	3,109	20.9 (33)	2,692	90.5 (20)

(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

### 2019 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)
Lake	52	*	*	56	*	51	*	48	*
Lapeer	395	84.8 (31)	9.1 (33)	421	35.2 (27)	385	15.1 (57)	328	90.2 (22)
Leelanau	35	*	*	36	*	29	*	28	*
Lenawee	387	92.2 (4)	3.6 (8)	429	23.3 (59)	373	18.2 (44)	322	89.1 (29)
Livingston	328	91.2 (6)	3.0 (5)	359	21.2 (62)	267	41.6 (4)	237	90.3 (21)
Luce	41	*	*	47	*	37	*	43	*
Mackinac	36	*	*	40	*	33	*	25	*
Macomb	3,126	90.4 (11)	4.0 (12)	3,319	22.4 (60)	2,347	15.3 (54)	2,330	92.6 (12)
Manistee	112	84.8 (31)	13.4 (48)	116	30.2 (49)	102	77.5 (1)	93	*
Marquette	228	91.2 (6)	4.4 (15)	264	34.5 (33)	201	40.3 (6)	217	89.9 (24)
Mason	133	77.4 (50)	16.5 (51)	142	33.8 (35)	124	22.6 (29)	117	87.2 (36)
Mecosta	235	88.1 (18)	6.0 (20)	247	41.7 (6)	184	17.4 (46)	196	88.8 (30)
Menominee	89	*	*	104	34.6 (32)	81	*	76	*
Midland	316	94.3 (2)	1.3 (1)	333	21.0 (63)	299	33.4 (10)	241	94.2 (5)
Missaukee	60	*	*	68	*	63	*	55	*
Monroe	622	83.4 (38)	7.4 (27)	672	30.2 (49)	604	20.2 (38)	516	89.5 (26)
Montcalm	330	74.2 (56)	19.1 (58)	344	36.3 (23)	307	23.5 (26)	274	93.1 (9)
Montmorenc	48	*	*	52	*	43	*	36	*
Muskegon	1,224	88.4 (16)	5.1 (17)	1,331	39.6 (8)	1,142	15.4 (53)	1,048	82.4 (53)
Newaygo	322	81.7 (43)	11.8 (43)	341	36.7 (21)	212	34.9 (8)	275	93.1 (9)
Oakland	3,360	87.1 (20)	6.5 (23)	3,692	26.5 (56)	2,681	16.6 (49)	2,709	86.7 (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) 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

### 2019 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	146	68.5 (62)	24.0 (62)	165	33.3 (36)	141	22.7 (28)	127	76.4 (57)
Ogemaw	137	78.8 (48)	10.9 (40)	146	36.3 (23)	129	17.8 (45)	115	94.8 (3)
Ontonagon	19	*	*	21	*	20	*	17	*
Osceola	133	75.2 (55)	17.3 (55)	145	36.6 (22)	127	16.5 (50)	110	84.5 (47)
Oscoda	36	*	*	41	*	33	*	30	*
Otsego	166	91.0 (8)	3.6 (8)	168	35.1 (28)	148	25.0 (22)	128	92.2 (15)
Ottawa	1,045	90.8 (9)	3.8 (11)	1,144	31.9 (44)	950	28.5 (14)	832	86.2 (42)
Presque Is	19	*	*	20	*	17	*	15	*
Roscommon	101	85.1 (29)	3.0 (5)	115	43.5 (4)	103	27.2 (16)	98	*
Saginaw	1,240	83.8 (37)	6.0 (20)	1,345	32.9 (39)	1,174	14.3 (58)	1,051	85.3 (45)
Sanilac	191	89.5 (14)	7.3 (26)	211	40.3 (7)	196	36.2 (7)	183	92.3 (14)
Schoolcraf	39	*	*	39	*	38	*	35	*
Shiawassee	372	76.6 (51)	16.9 (53)	410	35.1 (28)	367	21.0 (32)	324	87.0 (38)
St Clair	702	72.2 (59)	21.1 (61)	755	37.4 (18)	629	20.8 (34)	609	84.2 (49)
St Joseph	408	71.1 (61)	17.4 (56)	464	37.3 (19)	424	19.6 (40)	372	87.9 (33)
Tuscola	288	81.9 (42)	9.7 (37)	295	31.5 (46)	257	26.8 (17)	218	94.0 (7)
Van Buren	441	77.6 (49)	17.0 (54)	483	38.5 (16)	359	10.6 (59)	393	88.0 (32)
Washtenaw	994	90.6 (10)	3.1 (7)	1,092	27.3 (55)	974	15.9 (51)	842	91.3 (17)
Wayne	13,532	84.9 (30)	3.6 (8)	14,395	22.1 (61)	9,797	19.4 (41)	10,205	86.5 (41)
Wexford	252	73.4 (58)	15.5 (50)	273	39.6 (8)	240	27.9 (15)	223	82.1 (54)

(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

### 2019 Pregnancy Nutrition Surveillance (1)

#### Michigan

#### Comparison of Maternal Behavioral Indicators by County

<b>Michigan</b>	<b>49,415</b>	<b>84.9</b>	<b>6.6</b>	<b>53,324</b>	<b>28.5</b>	<b>42,172</b>	<b>19.1</b>	<b>39,761</b>	<b>87.7</b>
<b>National (Prior Year)</b>	<b>125,577</b>	<b>72.2</b>	<b>5.9</b>	<b>159,369</b>	<b>19.0</b>	<b>98,317</b>	<b>21.7</b>	<b>96,069</b>	<b>88.0</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) 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

### 2019 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)
Alcona	30	*	29	*	6	*	26	*	29	*
Alger	31	*	28	*	12	*	26	*	28	*
Allegan	434	31.8 (21)	444	18.0 (22)	114	34.2 (16)	367	7.9 (14)	444	1.4 (6)
Alpena	146	51.4 (60)	148	34.5 (62)	64	*	128	12.5 (34)	148	3.4 (38)
Antrim	81	*	89	*	31	*	77	*	89	*
Arenac	99	*	111	30.6 (57)	35	*	79	*	111	10.8 (62)
Baraga	33	*	31	*	9	*	28	*	31	*
Barry	212	33.5 (26)	205	17.1 (18)	57	*	178	9.0 (23)	205	5.4 (55)
Bay	495	32.3 (23)	496	22.6 (35)	137	21.2 (23)	444	14.6 (47)	495	4.6 (49)
Benzie	90	*	93	*	30	*	77	*	93	*
Berrien	861	32.1 (22)	894	16.1 (16)	215	40.5 (8)	731	13.4 (39)	894	4.7 (50)
Branch	297	33.3 (25)	318	17.9 (21)	75	*	250	11.6 (29)	318	2.2 (21)
Calhoun	813	28.4 (14)	834	19.2 (25)	182	23.1 (22)	698	8.9 (21)	838	2.3 (22)
Cass	314	23.2 (10)	313	10.2 (6)	64	*	277	8.3 (17)	313	1.3 (4)
Charlevoix	102	40.2 (48)	111	26.1 (45)	36	*	89	*	109	6.4 (59)
Cheboygan	127	50.4 (58)	128	27.3 (51)	50	*	112	14.3 (44)	128	4.7 (50)
Chippewa	190	44.7 (56)	195	31.8 (60)	70	*	167	15.0 (49)	197	6.6 (60)
Clare	189	50.8 (59)	199	27.1 (50)	81	*	174	14.4 (46)	199	3.5 (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

### 2019 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	147	29.9 (17)	150	16.7 (17)	36	*	120	6.7 (7)	152	2.6 (26)
Crawford	83	*	85	*	26	*	75	*	85	*
Delta	198	46.5 (57)	200	25.0 (44)	77	*	175	13.7 (41)	200	5.5 (57)
Dickinson	120	34.2 (27)	118	26.3 (46)	35	*	108	8.3 (17)	117	1.7 (13)
Eaton	242	38.8 (44)	240	24.2 (39)	66	*	192	6.8 (9)	240	2.9 (31)
Emmet	158	41.1 (51)	157	24.2 (39)	55	*	135	12.6 (35)	157	4.5 (47)
Genesee	2,412	26.4 (12)	2,616	15.3 (14)	492	34.6 (15)	1,983	9.1 (24)	2,608	1.6 (10)
Gladwin	110	34.5 (28)	108	18.5 (24)	30	*	98	*	108	2.8 (29)
Gogebic	64	*	66	*	26	*	57	*	66	*
Gr Travers	350	35.1 (31)	374	20.1 (26)	101	35.6 (12)	280	8.9 (21)	374	2.1 (19)
Gratiot	209	35.9 (33)	221	21.3 (30)	63	*	186	9.7 (25)	222	1.8 (15)
Hillsdale	216	44.0 (55)	232	31.0 (58)	77	*	189	17.5 (53)	232	3.0 (32)
Houghton	158	32.9 (24)	150	24.0 (38)	42	*	134	6.7 (7)	150	2.0 (18)
Huron	136	39.7 (46)	138	22.5 (34)	43	*	112	18.8 (55)	138	5.1 (53)
Ingham	1,639	18.2 (4)	1,719	9.9 (5)	247	37.7 (10)	1,360	7.6 (12)	1,711	3.3 (37)
Ionia	316	35.8 (32)	329	21.9 (32)	95	*	265	10.9 (28)	329	2.4 (24)
Iosco	131	42.7 (53)	135	29.6 (54)	45	*	119	16.8 (51)	135	3.0 (32)
Iron	54	*	54	*	20	*	51	*	54	*
Isabella	326	38.7 (41)	330	24.5 (42)	101	34.7 (14)	279	14.3 (44)	331	2.7 (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) 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

### 2019 Pregnancy Nutrition Surveillance (1)

#### Michigan

#### Comparison of Smoking Indicators by County

<b>Comparison of Smoking Indicators (2,3)</b>										
County	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	897	38.7 (41)	914	26.3 (46)	288	30.2 (17)	796	13.1 (38)	915	2.8 (29)
Kalamazoo	1,359	24.2 (11)	1,355	14.9 (13)	267	26.6 (20)	1,187	7.6 (12)	1,353	1.3 (4)
Kalkaska	85	*	95	*	32	*	73	*	95	*
Kent	3,214	17.9 (3)	3,371	8.9 (3)	443	40.9 (7)	2,652	4.4 (2)	3,351	1.6 (10)
Lake	51	*	51	*	28	*	48	*	51	*
Lapeer	385	26.8 (13)	395	14.4 (12)	73	*	328	7.3 (11)	395	0.8 (1)
Leelanau	32	*	35	*	9	*	29	*	35	*
Lenawee	374	34.8 (29)	394	15.7 (15)	93	*	318	8.5 (20)	395	4.3 (44)
Livingston	317	28.4 (14)	326	18.4 (23)	65	*	237	5.9 (5)	328	2.1 (19)
Luce	45	*	41	*	19	*	43	*	41	*
Mackinac	34	*	36	*	5	*	25	*	36	*
Macomb	2,964	19.0 (5)	3,144	9.1 (4)	412	47.3 (3)	2,330	7.9 (14)	3,145	1.7 (13)
Manistee	106	36.8 (37)	111	28.8 (52)	34	*	93	*	111	5.4 (55)
Marquette	242	40.5 (49)	233	30.0 (55)	82	*	218	8.3 (17)	232	3.0 (32)
Mason	126	38.1 (38)	135	21.5 (31)	44	*	117	13.7 (41)	135	4.4 (46)
Mecosta	217	36.4 (36)	236	24.6 (43)	72	*	196	16.3 (50)	236	3.0 (32)
Menominee	93	*	91	*	34	*	76	*	90	*
Midland	300	29.0 (16)	316	20.3 (28)	69	*	241	7.1 (10)	315	3.5 (39)
Missaukee	64	*	60	*	17	*	55	*	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

### 2019 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	606	36.3 (35)	624	20.8 (29)	180	37.2 (11)	516	11.8 (31)	622	2.3 (22)
Montcalm	310	41.0 (50)	332	26.5 (48)	107	29.0 (18)	274	13.9 (43)	333	5.1 (53)
Montmorenc	43	*	48	*	11	*	36	*	48	*
Muskegon	1,187	30.6 (18)	1,241	20.2 (27)	314	24.8 (21)	1,048	12.2 (33)	1,244	4.5 (47)
Newaygo	309	31.1 (20)	326	17.8 (20)	86	*	275	9.8 (26)	326	1.8 (15)
Oakland	3,331	13.1 (1)	3,411	6.2 (1)	338	43.5 (5)	2,702	6.4 (6)	3,406	1.8 (15)
Oceana	141	22.7 (8)	147	13.6 (11)	27	*	127	4.7 (4)	147	1.4 (6)
Ogemaw	130	43.1 (54)	138	31.2 (59)	48	*	115	18.3 (54)	137	5.8 (58)
Ontonagon	20	*	19	*	7	*	17	*	19	*
Osceola	127	42.5 (52)	134	26.9 (49)	39	*	110	17.3 (52)	134	3.0 (32)
Oscoda	34	*	36	*	13	*	30	*	36	*
Otsego	150	38.7 (41)	166	30.1 (56)	48	*	128	20.3 (57)	166	2.4 (24)
Ottawa	1,011	20.5 (6)	1,062	11.3 (7)	176	42.0 (6)	830	4.6 (3)	1,060	1.1 (3)
Presque Is	17	*	19	*	3	*	15	*	19	*
Roscommon	105	52.4 (61)	105	32.4 (61)	46	*	98	*	105	4.8 (52)
Saginaw	1,178	34.9 (30)	1,262	13.5 (10)	353	51.8 (2)	1,050	10.6 (27)	1,261	1.4 (6)
Sanilac	199	30.7 (19)	193	17.6 (19)	48	*	183	12.0 (32)	193	2.6 (26)
Schoolcraf	38	*	39	*	16	*	35	*	39	*
Shiawassee	374	38.2 (39)	376	24.2 (39)	121	28.9 (19)	324	14.8 (48)	375	3.5 (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

### 2019 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	691	38.4 (40)	711	22.4 (33)	216	35.2 (13)	607	18.9 (56)	707	7.2 (61)
St Joseph	423	39.7 (46)	422	23.0 (36)	126	40.5 (8)	370	13.0 (37)	420	3.8 (43)
Tuscola	258	39.1 (45)	288	23.6 (37)	84	*	218	12.8 (36)	288	1.4 (6)
Van Buren	438	21.9 (7)	441	12.7 (9)	77	*	392	4.3 (1)	442	0.9 (2)
Washtenaw	986	22.8 (9)	995	11.4 (8)	179	46.9 (4)	840	8.0 (16)	995	1.6 (10)
Wayne	12,452	16.4 (2)	13,639	6.8 (2)	1,598	53.8 (1)	10,159	11.6 (29)	13,629	3.6 (42)
Wexford	245	35.9 (33)	253	29.2 (53)	71	*	223	13.5 (40)	253	4.3 (44)
<b>Michigan</b>	<b>47,367</b>	<b>24.7</b>	<b>49,881</b>	<b>13.5</b>	<b>9,363</b>	<b>38.4</b>	<b>39,647</b>	<b>10.1</b>	<b>49,826</b>	<b>2.9</b>
<b>National (Prior Year)</b>	<b>155,621</b>	<b>27.7</b>	<b>167,457</b>	<b>14.5</b>	<b>26,902</b>	<b>35.4</b>	<b>120,434</b>	<b>11.5</b>	<b>146,763</b>	<b>7.1</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.

\* 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

### 2019 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	28	*	*	28	*	24	*	28	*
Alger	28	*	*	28	*	26	*	28	*
Allegan	419	7.4 (21)	11.0 (53)	426	12.9 (49)	362	1.7 (5)	424	80.2 (22)
Alpena	133	12.8 (59)	12.8 (60)	135	9.6 (13)	117	6.8 (56)	132	75.8 (32)
Antrim	80	*	*	84	*	69	*	82	*
Arenac	101	13.9 (61)	6.9 (26)	107	15.0 (58)	85	*	102	73.5 (44)
Baraga	31	*	*	31	*	29	*	31	*
Barry	197	8.1 (28)	10.7 (51)	201	10.9 (26)	174	4.0 (32)	197	81.7 (15)
Bay	468	8.5 (33)	6.6 (21)	481	9.8 (17)	424	4.5 (40)	469	63.1 (55)
Benzie	91	*	*	93	*	83	*	91	*
Berrien	841	7.7 (24)	5.0 (8)	867	9.9 (19)	748	4.0 (32)	843	71.4 (47)
Branch	299	7.4 (21)	8.7 (42)	312	10.9 (26)	266	1.9 (7)	302	75.5 (35)
Calhoun	803	9.0 (38)	7.7 (35)	813	9.7 (15)	715	4.6 (45)	805	73.8 (43)
Cass	294	7.1 (18)	6.8 (24)	303	9.9 (19)	263	3.0 (19)	294	74.1 (41)
Charlevoix	94	*	*	105	12.4 (42)	82	*	102	91.2 (1)
Cheboygan	120	8.3 (32)	6.7 (23)	121	10.7 (25)	104	2.9 (17)	120	75.8 (32)
Chippewa	179	9.5 (42)	11.7 (57)	182	11.5 (31)	154	2.6 (11)	179	61.5 (58)
Clare	191	4.7 (2)	3.1 (2)	193	10.4 (23)	168	1.8 (6)	191	79.6 (25)
Clinton	147	8.8 (35)	11.6 (55)	147	8.8 (9)	131	4.6 (45)	147	86.4 (8)

(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

### 2019 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	74	*	*	82	*	69	*	74	*
Delta	191	9.4 (41)	7.3 (31)	192	10.9 (26)	169	4.1 (35)	191	80.1 (23)
Dickinson	114	7.9 (26)	10.5 (50)	116	8.6 (6)	104	4.8 (48)	114	78.1 (29)
Eaton	222	8.1 (28)	9.0 (46)	238	11.3 (29)	197	5.1 (51)	230	80.4 (20)
Emmet	151	6.0 (6)	7.3 (31)	154	13.0 (51)	131	0.0 (1)	152	87.5 (5)
Genesee	2,509	11.6 (53)	6.0 (15)	2,551	13.8 (56)	2,148	5.9 (55)	2,513	55.0 (62)
Gladwin	101	5.9 (5)	6.9 (26)	107	15.0 (58)	87	*	101	87.1 (6)
Gogebic	65	*	*	63	*	56	*	65	*
Gr Travers	353	6.2 (12)	13.6 (61)	364	8.8 (9)	318	1.9 (7)	353	82.4 (14)
Gratiot	206	5.8 (4)	11.7 (57)	210	8.6 (6)	183	2.7 (14)	207	87.9 (3)
Hillsdale	215	6.0 (6)	10.7 (51)	225	7.6 (2)	197	2.0 (9)	215	80.9 (19)
Houghton	136	8.8 (35)	12.5 (59)	141	7.8 (5)	125	5.6 (53)	136	88.2 (2)
Huron	127	11.8 (55)	7.1 (30)	132	12.1 (36)	112	3.6 (27)	127	78.7 (28)
Ingham	1,602	9.6 (43)	6.6 (21)	1,671	11.7 (34)	1,415	4.4 (39)	1,618	77.8 (30)
Ionia	317	9.1 (39)	8.8 (44)	320	12.2 (40)	276	2.9 (17)	317	82.6 (13)
Iosco	122	6.6 (15)	5.7 (12)	126	8.7 (8)	110	4.5 (40)	123	60.2 (59)
Iron	47	*	*	51	*	40	*	47	*
Isabella	307	8.5 (33)	7.8 (38)	322	12.1 (36)	272	3.7 (28)	307	78.8 (27)
Jackson	871	10.2 (45)	7.3 (31)	885	11.5 (31)	768	3.9 (29)	870	71.7 (46)

(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.

(6) <37 weeks gestation.

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

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# WIC PNSS & PedNSS

## Table 8B

### 2019 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	1,274	11.6 (53)	7.5 (34)	1,318	12.8 (47)	1,110	4.3 (38)	1,288	71.2 (48)
Kalkaska	88	*	*	90	*	76	*	89	*
Kent	3,188	12.3 (57)	5.8 (13)	3,268	15.2 (60)	2,685	4.5 (40)	3,197	75.7 (34)
Lake	47	*	*	48	*	37	*	47	*
Lapeer	379	7.1 (18)	8.2 (40)	382	9.7 (15)	338	3.3 (23)	379	79.9 (24)
Leelanau	33	*	*	33	*	30	*	33	*
Lenawee	370	7.0 (16)	6.5 (17)	390	12.1 (36)	322	1.6 (4)	369	74.0 (42)
Livingston	322	10.6 (49)	6.8 (24)	322	12.7 (45)	279	3.9 (29)	322	84.5 (10)
Luce	40	*	*	40	*	35	*	40	*
Mackinac	34	*	*	36	*	33	*	34	*
Macomb	3,016	10.0 (44)	5.8 (13)	3,057	12.7 (45)	2,593	4.1 (35)	3,046	62.7 (57)
Manistee	100	13.0 (60)	3.0 (1)	104	17.3 (61)	81	*	100	85.0 (9)
Marquette	225	9.3 (40)	11.6 (55)	231	12.1 (36)	198	4.5 (40)	226	87.6 (4)
Mason	126	10.3 (46)	9.5 (48)	131	11.5 (31)	110	4.5 (40)	126	74.6 (39)
Mecosta	228	6.1 (10)	8.8 (44)	228	11.4 (30)	200	1.5 (3)	229	68.6 (53)
Menominee	87	*	*	88	*	76	*	87	*
Midland	303	7.3 (20)	11.2 (54)	313	9.3 (12)	274	2.6 (11)	303	82.8 (12)
Missaukee	50	*	*	54	*	46	*	50	*
Monroe	592	10.5 (47)	6.9 (26)	606	11.7 (34)	517	4.8 (48)	593	65.3 (54)

(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

### 2019 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)
Montcalm	308	8.1 (28)	6.5 (17)	318	12.9 (49)	269	3.3 (23)	308	86.7 (7)
Montmorenc	45	*	*	45	*	39	*	45	*
Muskegon	1,188	10.5 (47)	5.1 (9)	1,208	14.0 (57)	1,002	4.0 (32)	1,190	69.0 (52)
Newaygo	309	6.1 (10)	7.8 (38)	316	12.3 (41)	270	2.6 (11)	310	81.0 (18)
Oakland	3,233	11.8 (55)	6.5 (17)	3,349	12.8 (47)	2,817	4.7 (47)	3,283	70.8 (49)
Oceana	142	4.9 (3)	5.6 (11)	143	7.7 (4)	130	3.1 (21)	142	74.6 (39)
Ogemaw	129	6.2 (12)	7.0 (29)	132	4.5 (1)	122	4.9 (50)	129	75.2 (38)
Ontonagon	18	*	*	19	*	18	*	18	*
Osceola	127	11.0 (50)	4.7 (4)	131	7.6 (2)	118	7.6 (57)	129	79.1 (26)
Oscoda	32	*	*	36	*	29	*	32	*
Otsego	142	7.7 (24)	7.7 (35)	163	9.2 (11)	127	3.9 (29)	157	73.2 (45)
Ottawa	993	7.0 (16)	8.7 (42)	1,028	10.2 (21)	888	2.8 (15)	1,009	80.3 (21)
Presque Is	19	*	*	19	*	18	*	19	*
Roscommon	102	2.9 (1)	4.9 (7)	99	*	88	*	102	75.5 (35)
Saginaw	1,212	11.4 (52)	4.3 (3)	1,233	13.7 (55)	1,046	4.1 (35)	1,212	62.8 (56)
Sanilac	186	7.5 (23)	4.8 (5)	191	13.6 (53)	160	0.0 (1)	186	56.5 (60)
Schoolcraf	39	*	*	35	*	32	*	39	*
Shiawassee	360	8.1 (28)	6.1 (16)	364	12.4 (42)	315	3.2 (22)	360	75.3 (37)
St Clair	682	6.0 (6)	9.1 (47)	697	10.2 (21)	608	3.3 (23)	685	69.1 (51)

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(4) <2500 g.

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# WIC PNSS & PedNSS

## Table 8B

### 2019 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)
St Joseph	399	8.0 (27)	6.5 (17)	409	10.5 (24)	352	2.8 (15)	403	82.9 (11)
Tuscola	271	8.9 (37)	8.5 (41)	272	13.6 (53)	229	2.2 (10)	270	81.5 (16)
Van Buren	414	6.5 (14)	9.9 (49)	425	9.6 (13)	368	3.3 (23)	420	69.3 (50)
Washtenaw	946	11.0 (50)	5.3 (10)	958	12.4 (42)	824	5.2 (52)	945	81.2 (17)
Wayne	12,823	12.5 (58)	4.8 (5)	13,259	13.5 (52)	10,950	5.8 (54)	13,013	55.5 (61)
Wexford	233	6.0 (6)	7.7 (35)	235	9.8 (17)	202	3.0 (19)	233	77.7 (31)
<b>Michigan</b>	<b>47,135</b>	<b>10.4</b>	<b>6.4</b>	<b>48,449</b>	<b>12.5</b>	<b>40,866</b>	<b>4.5</b>	<b>47,531</b>	<b>67.8</b>
<b>National (Prior Year)</b>	<b>121,176</b>	<b>9.3</b>	<b>6.7</b>	<b>121,542</b>	<b>11.8</b>	<b>103,169</b>	<b>3.9</b>	<b>119,843</b>	<b>56.8</b>

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

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# WIC PNSS & PedNSS

## Table 3B

### 2017 - 2019 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	116	92.2	0.9	3.4	0.0	0.0	3.4	0.0
Alger	100	86.0	0.0	1.0	8.0	0.0	5.0	0.0
Allegan	2,321	65.8	2.8	24.6	0.2	1.9	3.3	1.4
Alpena	497	93.6	0.6	2.2	0.2	0.4	2.6	0.4
Antrim	313	92.0	0.3	2.6	0.3	0.3	4.5	0.0
Arenac	325	95.1	0.0	2.2	0.0	0.3	2.5	0.0
Baraga	132	55.3	0.0	1.5	39.4	0.0	3.0	0.8
Barry	745	93.7	0.4	4.4	0.0	0.4	0.8	0.3
Bay	1,703	80.1	2.2	10.6	0.0	0.4	6.0	0.8
Benzie	272	91.2	0.7	2.9	1.1	0.4	2.2	1.5
Berrien	2,845	48.5	37.4	7.8	0.4	0.8	4.2	0.9
Branch	1,061	87.2	0.5	9.5	0.0	0.3	2.0	0.6
Calhoun	2,946	61.3	19.9	6.8	0.1	5.2	6.1	0.5
Cass	1,097	61.4	7.1	22.9	0.3	0.5	6.8	0.9
Charlevoix	404	85.9	1.0	3.5	0.5	0.5	8.7	0.0
Cheboygan	409	86.3	0.7	2.7	0.0	0.5	9.8	0.0
Chippewa	706	54.7	0.4	2.7	20.8	0.4	20.3	0.6
Clare	624	92.9	0.3	3.4	0.3	0.5	2.1	0.5
Clinton	534	82.0	0.7	14.0	0.0	0.0	2.8	0.4
Crawford	268	95.5	0.0	1.5	0.4	0.0	1.9	0.7
Delta	681	86.2	0.1	2.2	0.3	0.7	10.3	0.1
Dickinson	421	91.4	0.5	2.6	0.5	0.0	4.0	1.0
Eaton	873	84.8	5.3	5.7	0.1	1.1	2.5	0.5

(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

### 2017 - 2019 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  %
Emmet	533	88.2	0.9	2.1	1.9	0.4	6.6	0.0
Genesee	8,485	47.3	40.0	4.9	0.1	0.3	6.9	0.5
Gladwin	409	95.6	0.2	1.7	0.0	0.0	2.2	0.2
Gogebic	254	81.9	1.2	2.4	8.3	0.4	3.9	2.0
Gr Travers	1,342	84.2	1.1	6.6	1.3	1.1	5.0	0.7
Gratiot	709	86.3	0.3	12.1	0.0	0.1	1.0	0.1
Hillsdale	816	93.3	0.4	2.3	0.0	0.4	2.7	1.0
Houghton	556	89.0	1.4	1.6	0.2	3.6	3.2	0.9
Huron	460	94.1	0.0	3.5	0.2	0.2	1.1	0.9
Ingham	5,437	42.4	27.8	15.3	0.2	5.6	8.2	0.4
Ionia	1,118	87.5	0.1	9.2	0.0	0.2	3.0	0.1
Iosco	514	89.1	0.8	2.9	0.4	0.2	6.4	0.2
Iron	203	90.6	0.5	1.0	0.0	0.0	4.9	3.0
Isabella	1,144	80.2	3.6	5.6	3.0	1.9	5.6	0.1
Jackson	3,160	71.8	14.7	5.5	0.1	0.4	7.2	0.3
Kalamazoo	4,509	47.5	33.1	9.7	0.2	1.2	7.9	0.5
Kalkaska	304	92.1	0.3	2.3	0.3	1.0	3.6	0.3
Kent	11,496	35.1	26.6	27.9	0.3	4.4	5.1	0.5
Lake	167	69.5	13.8	6.6	0.0	0.0	9.6	0.6
Lapeer	1,270	81.5	0.3	13.3	0.1	0.4	4.0	0.4
Leelanau	132	59.1	0.8	22.7	7.6	1.5	7.6	0.8
Lenawee	1,419	75.2	1.8	16.3	0.0	0.1	5.9	0.7
Livingston	1,116	91.3	0.4	3.6	0.2	1.3	2.1	1.2
Luce	158	85.4	0.0	2.5	0.6	0.0	11.4	0.0

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

(2) Excludes data with errors.

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# WIC PNSS & PedNSS

## Table 3B

### 2017 - 2019 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	116	54.3	0.9	0.9	0.9	0.0	43.1	0.0
Macomb	10,468	56.5	27.9	4.5	0.1	6.0	4.6	0.4
Manistee	357	79.0	1.4	8.4	2.2	0.6	8.1	0.3
Marquette	803	87.0	0.5	3.2	0.9	0.4	7.5	0.5
Mason	467	84.2	1.3	10.7	0.0	0.2	3.6	0.0
Mecosta	774	87.7	3.9	3.1	0.3	0.3	4.4	0.4
Menominee	299	66.6	0.7	9.4	9.4	0.0	11.0	3.0
Midland	1,078	93.4	0.8	1.8	0.1	0.9	2.8	0.2
Missaukee	230	94.3	0.4	4.8	0.0	0.0	0.4	0.0
Monroe	1,976	81.9	6.0	6.4	0.1	0.4	4.5	0.7
Montcalm	1,059	92.4	0.2	4.5	0.2	0.1	2.2	0.4
Montmorenc	153	96.1	0.0	2.6	0.0	0.0	0.7	0.7
Muskegon	4,330	54.8	28.4	8.8	0.3	0.5	7.0	0.3
Newaygo	1,067	79.9	0.2	15.7	0.1	0.7	2.9	0.6
Oakland	11,404	41.2	41.7	10.8	0.1	2.1	3.8	0.3
Oceana	562	60.5	0.5	36.1	0.2	0.0	2.0	0.7
Ogemaw	442	90.5	0.5	4.5	0.5	0.0	3.6	0.5
Ontonagon	54	*	*	*	*	*	*	*
Osceola	454	92.7	1.3	1.8	0.4	0.0	3.5	0.2
Oscoda	154	92.2	0.0	3.9	0.0	0.6	2.6	0.6
Otsego	525	95.0	0.4	2.1	0.0	0.8	1.7	0.0
Ottawa	2,713	61.3	3.9	26.8	0.1	2.4	4.5	1.0
Presque Is	122	92.6	0.8	1.6	0.0	0.0	4.9	0.0
Roscommon	365	91.2	0.3	2.2	0.0	0.0	5.2	1.1

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(2) Excludes data with errors.

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# WIC PNSS & PedNSS

## Table 3B

### 2017 - 2019 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	4,220	37.5	41.6	15.4	0.0	0.6	4.4	0.5
Sanilac	650	93.4	0.2	4.8	0.0	0.0	1.5	0.2
Schoolcraf	154	79.9	0.6	0.0	3.9	0.0	15.6	0.0
Shiawassee	1,193	88.9	0.3	5.8	0.1	0.1	4.5	0.3
St Clair	2,336	82.4	5.6	5.9	0.1	0.4	5.1	0.5
St Joseph	1,434	71.4	2.4	19.9	0.0	0.2	5.1	1.0
Tuscola	990	91.9	0.5	4.5	0.0	0.2	2.7	0.1
Van Buren	1,471	61.6	3.1	27.7	0.3	0.5	4.3	2.6
Washtenaw	3,396	36.8	39.6	10.0	0.2	2.8	10.0	0.6
Wayne	45,195	27.5	57.9	9.2	0.1	2.6	2.5	0.3
Wexford	907	92.3	0.1	3.2	0.0	0.2	3.6	0.6
<b>Michigan</b>	<b>167,191</b>	<b>51.6</b>	<b>30.3</b>	<b>10.5</b>	<b>0.4</b>	<b>2.2</b>	<b>4.6</b>	<b>0.5</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

### 2017 - 2019 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	116	0.0	1.7	7.8	59.5	31.0	0.0	0.0
Alger	100	0.0	2.0	7.0	60.0	29.0	2.0	0.0
Allegan	2,321	0.1	3.7	8.4	61.9	24.3	1.7	0.0
Alpena	497	0.0	3.6	9.5	64.8	20.5	1.6	0.0
Antrim	313	0.0	1.9	8.6	61.3	26.5	1.6	0.0
Arenac	325	0.0	2.2	6.5	68.3	20.6	2.5	0.0
Baraga	132	0.0	3.8	9.8	64.4	21.2	0.8	0.0
Barry	745	0.0	3.1	9.3	64.6	21.5	1.3	0.3
Bay	1,703	0.1	2.6	8.7	64.5	22.4	1.7	0.0
Benzie	272	0.0	3.3	7.4	60.7	26.8	1.5	0.4
Berrien	2,845	0.1	3.6	9.7	62.0	22.1	1.5	0.9
Branch	1,061	0.0	2.0	9.3	61.6	23.9	3.0	0.1
Calhoun	2,946	0.2	3.2	8.8	63.8	22.6	1.2	0.1
Cass	1,097	0.3	4.1	10.1	60.8	23.1	1.6	0.0
Charlevoix	404	0.0	1.2	6.9	66.6	24.0	1.2	0.0
Cheboygan	409	0.2	1.7	7.6	66.0	23.5	1.0	0.0
Chippewa	706	0.1	1.4	7.4	62.3	27.2	1.6	0.0
Clare	624	0.3	2.7	9.5	67.8	17.9	1.6	0.2
Clinton	534	0.0	3.0	8.1	64.4	22.5	2.1	0.0
Crawford	268	0.0	1.5	8.2	64.2	25.0	1.1	0.0
Delta	681	0.0	2.1	9.3	63.6	24.2	0.9	0.0
Dickinson	421	0.2	1.9	9.3	60.1	26.6	1.7	0.2
Eaton	873	0.1	2.2	9.4	60.6	26.0	1.3	0.5
Emmet	533	0.0	0.8	8.4	64.5	25.0	1.3	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

### 2017 - 2019 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 %
Genesee	8,485	0.2	2.7	8.4	65.1	22.2	1.3	0.1
Gladwin	409	0.0	2.7	8.1	68.0	20.8	0.5	0.0
Gogebic	254	0.0	1.2	8.7	64.6	24.8	0.8	0.0
Gr Travers	1,342	0.0	2.6	6.5	62.1	26.2	2.3	0.3
Gratiot	709	0.1	2.4	8.0	64.2	23.7	1.6	0.0
Hillsdale	816	0.1	2.7	10.2	67.4	18.5	1.0	0.1
Houghton	556	0.0	2.5	7.4	57.4	29.0	3.6	0.2
Huron	460	0.0	2.0	7.4	64.6	25.0	1.1	0.0
Ingham	5,437	0.2	3.0	7.7	61.3	25.9	1.8	0.1
Ionia	1,118	0.0	2.7	9.0	66.7	20.6	1.0	0.0
Iosco	514	0.0	3.9	8.9	65.4	21.0	0.8	0.0
Iron	203	0.0	2.5	9.4	59.1	27.6	1.5	0.0
Isabella	1,144	0.1	2.7	8.0	65.5	22.6	0.9	0.2
Jackson	3,160	0.1	3.3	9.2	66.3	20.1	0.8	0.2
Kalamazoo	4,509	0.1	3.5	9.2	61.9	23.2	2.0	0.0
Kalkaska	304	0.0	4.3	7.6	67.4	20.1	0.7	0.0
Kent	11,496	0.1	3.0	7.7	59.3	27.4	2.1	0.3
Lake	167	0.0	1.8	10.8	67.1	18.6	1.8	0.0
Lapeer	1,270	0.1	2.8	7.4	65.3	23.1	1.2	0.1
Leelanau	132	0.0	0.8	6.8	59.8	29.5	1.5	1.5
Lenawee	1,419	0.0	2.4	9.7	65.1	21.8	0.9	0.0
Livingston	1,116	0.0	2.0	6.2	60.3	29.7	1.8	0.0
Luce	158	0.0	4.4	5.7	71.5	18.4	0.0	0.0
Mackinac	116	0.0	3.4	5.2	62.9	26.7	1.7	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

### 2017 - 2019 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	10,468	0.0	1.3	4.8	61.8	29.7	2.4	0.0
Manistee	357	0.0	4.2	13.4	57.7	21.6	2.8	0.3
Marquette	803	0.1	2.5	7.3	59.9	29.0	1.1	0.0
Mason	467	0.2	3.9	6.2	68.7	20.6	0.4	0.0
Mecosta	774	0.1	2.5	9.2	68.5	18.7	0.9	0.1
Menominee	299	0.0	5.7	10.4	60.2	22.1	1.7	0.0
Midland	1,078	0.0	1.7	7.1	66.0	23.7	1.5	0.1
Missaukee	230	0.0	1.7	10.9	69.1	16.1	2.2	0.0
Monroe	1,976	0.1	3.1	9.8	63.2	22.5	1.3	0.1
Montcalm	1,059	0.3	3.0	9.8	68.4	17.2	1.3	0.0
Montmorenc	153	0.0	2.6	4.6	73.2	19.0	0.7	0.0
Muskegon	4,330	0.3	3.7	9.4	64.5	20.7	1.3	0.1
Newaygo	1,067	0.1	2.6	9.6	64.1	21.8	1.8	0.0
Oakland	11,404	0.1	1.7	6.4	59.6	29.5	2.4	0.1
Oceana	562	0.2	4.1	7.8	65.8	20.5	1.6	0.0
Ogemaw	442	0.0	2.5	8.8	66.3	21.0	1.4	0.0
Ontonagon	54	*	*	*	*	*	*	*
Osceola	454	0.2	4.6	11.0	61.7	21.6	0.9	0.0
Oscoda	154	0.0	4.5	9.1	71.4	14.9	0.0	0.0
Otsego	525	0.0	2.3	9.0	63.8	24.6	0.4	0.0
Ottawa	2,713	0.1	2.5	7.2	61.2	27.4	1.7	0.0
Presque Is	122	0.0	2.5	8.2	63.1	23.0	3.3	0.0
Roscommon	365	0.0	3.0	11.2	63.0	22.2	0.3	0.3
Saginaw	4,220	0.2	3.2	8.7	65.5	20.8	1.5	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 4B

### 2017 - 2019 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	650	0.0	3.8	9.4	63.4	22.8	0.6	0.0
Schoolcraf	154	0.0	4.5	7.8	65.6	22.1	0.0	0.0
Shiawassee	1,193	0.1	3.3	9.9	68.7	16.8	1.3	0.0
St Clair	2,336	0.1	3.3	8.3	64.1	22.9	1.3	0.0
St Joseph	1,434	0.0	3.1	10.3	64.2	20.7	1.6	0.0
Tuscola	990	0.2	2.6	8.1	65.4	21.8	1.8	0.1
Van Buren	1,471	0.0	3.3	10.1	61.0	23.8	1.6	0.2
Washtenaw	3,396	0.1	2.5	6.4	60.4	28.0	2.5	0.1
Wayne	45,195	0.1	2.3	6.6	61.6	26.7	2.6	0.1
Wexford	907	0.0	2.8	7.6	66.4	22.2	1.0	0.1
<b>Michigan</b>	<b>167,191</b>	<b>0.1</b>	<b>2.6</b>	<b>7.6</b>	<b>62.5</b>	<b>25.2</b>	<b>1.9</b>	<b>0.1</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

### 2017 - 2019 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	68	*	*	15	*	*	15	*	27	*	106	3.8 (2)	106	10.4 (25)
Alger	73	*	*	17	*	*	10	*	27	*	94	*	93	*
Allegan	1,831	4.9 (53)	59.9 (46)	980	20.8 (57)	47.7 (6)	353	48.4 (31)	534	35.8 (39)	2,090	8.3 (61)	2,095	10.6 (30)
Alpena	465	3.7 (22)	59.6 (41)	349	19.5 (45)	55.0 (58)	64	*	109	29.4 (27)	457	4.4 (5)	457	10.9 (34)
Antrim	234	7.7 (77)	54.7 (9)	97	*	*	36	*	37	*	298	8.1 (56)	298	10.4 (25)
Arenac	225	3.6 (16)	55.6 (13)	144	19.4 (43)	49.3 (15)	55	*	51	*	317	6.6 (23)	317	13.2 (63)
Baraga	118	2.5 (2)	50.8 (2)	67	*	*	17	*	33	*	118	6.8 (30)	118	10.2 (23)
Barry	422	5.9 (72)	53.8 (8)	128	15.6 (10)	54.7 (54)	102	36.3 (15)	163	16.6 (6)	675	7.0 (35)	676	12.0 (45)
Bay	1,416	4.0 (28)	61.1 (62)	1,032	19.3 (41)	52.1 (31)	255	32.5 (10)	234	17.9 (8)	1,591	6.6 (23)	1,591	10.1 (22)
Benzie	250	5.2 (61)	54.8 (11)	186	19.4 (43)	54.8 (57)	42	*	41	*	253	9.1 (74)	253	10.7 (31)
Berrien	2,398	3.8 (23)	60.8 (58)	1,768	19.0 (39)	53.4 (40)	431	47.6 (30)	455	32.1 (30)	2,588	6.3 (22)	2,588	12.9 (55)
Branch	793	5.5 (68)	61.2 (65)	379	17.9 (30)	51.7 (25)	176	14.8 (1)	177	26.6 (18)	973	8.4 (66)	973	7.9 (5)
Calhoun	2,351	3.2 (11)	61.1 (62)	1,346	20.1 (51)	54.3 (50)	390	46.9 (27)	583	32.8 (31)	2,686	7.7 (50)	2,682	9.3 (13)
Cass	951	3.6 (16)	60.7 (57)	605	16.9 (19)	53.9 (47)	123	43.1 (22)	137	29.9 (28)	998	7.0 (35)	1,000	12.9 (55)
Charlevoix	313	3.2 (11)	57.2 (24)	165	20.0 (50)	53.3 (39)	53	*	67	*	383	6.0 (15)	384	7.8 (4)
Cheboygan	383	7.0 (74)	55.9 (18)	176	16.5 (14)	53.4 (40)	68	*	71	*	383	8.1 (56)	383	8.9 (11)
Chippewa	519	4.0 (28)	59.9 (46)	254	16.5 (14)	56.3 (62)	89	*	122	27.9 (24)	632	7.3 (42)	631	11.9 (44)

(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

### 2017 - 2019 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	591	5.2 (61)	59.2 (39)	445	17.3 (22)	51.7 (25)	86	*	90	*	579	6.2 (20)	579	8.1 (6)
Clinton	490	5.1 (59)	60.6 (56)	378	15.1 (4)	53.4 (40)	75	*	145	14.5 (4)	496	7.9 (51)	496	13.7 (67)
Crawford	235	4.7 (50)	58.3 (31)	187	15.5 (8)	59.4 (66)	31	*	66	*	252	6.7 (26)	252	10.3 (24)
Delta	483	2.7 (6)	55.7 (15)	283	15.5 (8)	53.7 (46)	86	*	152	26.3 (17)	607	11.2 (79)	607	13.5 (66)
Dickinson	325	5.2 (61)	52.9 (7)	122	11.5 (1)	48.4 (10)	56	*	87	*	378	4.2 (3)	378	13.2 (63)
Eaton	593	4.2 (35)	60.0 (49)	389	18.8 (37)	52.7 (36)	147	42.2 (21)	177	16.9 (7)	798	10.3 (78)	801	15.9 (79)
Emmet	461	4.1 (33)	55.7 (15)	203	19.7 (47)	48.8 (12)	89	*	77	*	509	5.9 (13)	509	12.4 (50)
Genesee	6,738	5.3 (65)	57.6 (27)	3,393	18.5 (33)	52.0 (28)	1,524	51.4 (36)	1,408	34.0 (35)	7,906	7.6 (49)	7,906	15.4 (76)
Gladwin	362	2.8 (7)	58.8 (36)	243	11.5 (1)	54.7 (54)	52	*	65	*	386	5.7 (10)	387	13.2 (63)
Gogebic	193	3.6 (16)	59.6 (41)	85	*	*	33	*	59	*	221	9.0 (73)	221	10.0 (21)
Gr Travers	1,214	4.4 (45)	51.6 (3)	995	15.9 (12)	53.5 (45)	189	56.1 (41)	194	37.6 (41)	1,267	8.0 (54)	1,269	9.9 (19)
Gratiot	641	4.8 (51)	60.8 (58)	465	20.2 (52)	52.0 (28)	102	15.7 (2)	136	5.9 (1)	657	9.9 (77)	658	13.8 (69)
Hillsdale	741	5.8 (71)	58.0 (29)	531	19.6 (46)	51.6 (24)	104	37.5 (16)	169	27.2 (21)	754	5.7 (10)	754	6.8 (3)
Houghton	348	4.3 (40)	47.1 (1)	144	16.0 (13)	44.4 (3)	81	*	166	13.3 (2)	509	6.1 (17)	510	9.8 (16)
Huron	377	5.0 (56)	64.7 (76)	289	16.6 (16)	51.2 (23)	57	*	113	22.1 (13)	430	7.9 (51)	431	12.5 (53)
Ingham	4,602	4.5 (49)	60.1 (51)	3,695	18.5 (33)	52.0 (28)	939	47.3 (29)	917	33.4 (33)	5,104	6.9 (33)	5,106	9.7 (14)
Ionia	748	4.3 (40)	62.2 (68)	495	15.4 (6)	54.7 (54)	161	24.2 (3)	293	14.3 (3)	1,021	8.3 (61)	1,019	15.6 (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) 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

### 2017 - 2019 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	370	5.4 (67)	60.3 (54)	167	15.6 (10)	50.9 (20)	78	*	101	35.6 (38)	475	5.1 (7)	475	8.4 (8)
Iron	144	7.6 (75)	52.8 (6)	44	*	*	26	*	36	*	168	8.9 (72)	168	13.1 (60)
Isabella	948	4.2 (35)	61.4 (66)	639	17.2 (21)	54.1 (49)	173	32.9 (11)	234	26.1 (16)	1,064	7.4 (45)	1,065	11.0 (36)
Jackson	2,334	5.7 (70)	60.2 (52)	1,346	18.6 (36)	53.4 (40)	476	46.4 (26)	542	41.5 (49)	2,913	6.1 (17)	2,916	10.7 (31)
Kalamazoo	3,653	4.0 (28)	59.8 (44)	1,932	17.3 (22)	54.3 (50)	588	49.8 (34)	1,018	38.9 (47)	4,093	8.3 (61)	4,095	10.4 (25)
Kalkaska	266	6.0 (73)	56.0 (19)	209	18.2 (32)	55.5 (60)	57	*	84	*	287	8.7 (71)	287	9.8 (16)
Kent	8,108	4.2 (35)	58.5 (34)	3,760	26.1 (64)	42.9 (2)	1,961	44.4 (23)	3,600	36.6 (40)	10,656	7.5 (48)	10,666	12.2 (48)
Lake	149	8.7 (78)	61.7 (67)	102	17.6 (26)	52.9 (38)	20	*	34	*	152	7.9 (51)	153	12.4 (50)
Lapeer	1,238	4.2 (35)	57.6 (27)	1,083	17.1 (20)	52.4 (33)	211	39.3 (18)	326	33.1 (32)	1,186	4.2 (3)	1,186	6.5 (1)
Leelanau	121	2.5 (2)	66.1 (78)	93	*	*	22	*	20	*	123	8.1 (56)	123	6.5 (1)
Lenawee	1,126	3.6 (16)	57.5 (25)	270	22.2 (62)	47.0 (5)	285	47.0 (28)	344	38.4 (45)	1,296	7.3 (42)	1,297	13.0 (58)
Livingston	1,035	5.0 (56)	52.5 (5)	684	17.4 (25)	52.5 (34)	179	34.1 (12)	378	15.1 (5)	1,018	12.0 (80)	1,018	14.7 (74)
Luce	150	4.0 (28)	64.0 (74)	88	*	*	18	*	33	*	142	7.0 (35)	143	9.8 (16)
Mackinac	115	2.6 (4)	62.6 (70)	101	26.7 (65)	56.4 (63)	11	*	29	*	106	9.4 (76)	106	14.2 (71)
Macomb	9,313	4.3 (40)	59.4 (40)	7,491	18.5 (33)	51.9 (27)	1,960	45.1 (25)	2,672	33.9 (34)	9,743	8.3 (61)	9,743	10.4 (25)
Manistee	285	3.5 (15)	58.2 (30)	87	*	*	53	*	98	*	335	8.1 (56)	335	11.3 (39)
Marquette	704	3.6 (16)	55.7 (15)	514	19.3 (41)	47.7 (6)	105	36.2 (14)	198	23.7 (14)	711	5.1 (7)	717	14.5 (73)

(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

### 2017 - 2019 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	369	4.9 (53)	54.7 (9)	158	21.5 (61)	46.2 (4)	84	*	95	*	434	6.7 (26)	434	11.8 (41)
Mecosta	641	4.4 (45)	56.9 (20)	376	17.3 (22)	54.0 (48)	109	28.4 (6)	178	20.2 (10)	725	5.5 (9)	724	13.0 (58)
Menominee	207	2.9 (10)	55.6 (13)	133	15.0 (3)	52.6 (35)	42	*	72	*	253	7.1 (38)	254	11.8 (41)
Midland	934	2.8 (7)	60.2 (52)	189	21.2 (60)	54.5 (53)	157	31.8 (9)	400	25.3 (15)	1,023	6.0 (15)	1,024	12.7 (54)
Missaukee	219	5.0 (56)	57.5 (25)	176	17.6 (26)	53.4 (40)	27	*	46	*	214	1.9 (1)	214	11.7 (40)
Monroe	1,501	3.9 (26)	59.8 (44)	883	22.9 (63)	48.1 (8)	330	53.0 (38)	415	34.0 (35)	1,808	7.4 (45)	1,809	13.9 (70)
Montcalm	988	5.2 (61)	59.6 (41)	808	20.2 (52)	51.0 (21)	148	25.7 (5)	298	18.8 (9)	998	8.5 (69)	1,000	14.9 (75)
Montmorenc	145	7.6 (75)	51.7 (4)	85	*	*	22	*	36	*	143	4.9 (6)	143	8.4 (8)
Muskegon	3,996	4.0 (28)	61.1 (62)	2,848	19.9 (49)	50.3 (18)	570	44.7 (24)	508	27.6 (23)	3,985	8.2 (60)	3,992	14.4 (72)
Newaygo	978	3.4 (14)	62.8 (71)	682	21.1 (59)	49.1 (13)	148	41.9 (20)	215	28.4 (25)	1,009	9.3 (75)	1,010	12.0 (45)
Oakland	9,910	4.1 (33)	58.4 (32)	6,614	18.0 (31)	52.7 (36)	2,055	50.1 (35)	2,544	38.2 (43)	10,589	5.8 (12)	10,590	10.5 (29)
Oceana	469	2.6 (4)	64.8 (77)	317	17.7 (28)	51.1 (22)	81	*	101	26.7 (19)	503	6.8 (30)	502	13.1 (60)
Ogemaw	369	4.3 (40)	59.9 (46)	237	19.8 (48)	48.5 (11)	59	*	99	*	412	8.0 (54)	412	10.7 (31)
Ontonagon	48	*	*	32	*	*	9	*	14	*	46	*	46	*
Osceola	393	2.8 (7)	64.6 (75)	252	20.6 (55)	54.4 (52)	56	*	101	26.7 (19)	415	7.2 (40)	415	11.8 (41)
Oscoda	126	3.2 (11)	54.8 (11)	66	*	*	16	*	29	*	140	7.1 (38)	140	8.6 (10)
Otsego	320	4.4 (45)	56.9 (20)	95	*	*	78	*	84	*	495	5.9 (13)	495	8.3 (7)

(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

### 2017 - 2019 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	2,093	4.3 (40)	58.4 (32)	1,310	15.4 (6)	49.8 (17)	370	48.9 (32)	779	38.8 (46)	2,493	8.3 (61)	2,496	9.7 (14)
Presque Is	116	0.9 (1)	62.9 (72)	90	*	*	16	*	23	*	117	6.8 (30)	117	11.1 (37)
Roscommon	332	5.1 (59)	59.0 (37)	197	17.8 (29)	57.4 (65)	44	*	71	*	334	7.2 (40)	337	15.7 (78)
Saginaw	3,589	3.6 (16)	63.3 (73)	2,691	20.8 (57)	49.1 (13)	706	52.5 (37)	1,411	40.2 (48)	3,925	6.2 (20)	3,924	11.2 (38)
Sanilac	183	4.9 (53)	59.0 (37)	72	*	*	105	31.4 (8)	122	21.3 (11)	594	6.6 (23)	594	9.9 (19)
Schoolcraf	95	*	*	25	*	*	13	*	35	*	143	8.4 (66)	143	18.9 (80)
Shiawassee	1,144	4.8 (51)	60.8 (58)	948	19.2 (40)	48.3 (9)	178	38.8 (17)	240	35.4 (37)	1,102	8.6 (70)	1,103	12.1 (47)
St Clair	2,212	5.6 (69)	57.0 (23)	1,898	16.8 (18)	56.2 (61)	324	49.7 (33)	458	37.6 (41)	2,138	6.9 (33)	2,145	13.7 (67)
St Joseph	1,143	4.2 (35)	60.4 (55)	558	16.7 (17)	55.4 (59)	199	30.7 (7)	262	28.6 (26)	1,296	6.7 (26)	1,298	12.9 (55)
Tuscola	738	5.3 (65)	56.9 (20)	570	15.3 (5)	56.8 (64)	124	25.0 (4)	185	21.6 (12)	948	8.4 (66)	948	12.4 (50)
Van Buren	1,264	4.4 (45)	62.5 (69)	700	41.3 (66)	30.7 (1)	179	34.6 (13)	239	27.2 (21)	1,310	7.3 (42)	1,310	8.9 (11)
Washtenaw	3,067	3.8 (23)	60.0 (49)	2,013	20.2 (52)	49.7 (16)	630	54.0 (39)	927	38.3 (44)	3,047	7.4 (45)	3,048	13.1 (60)
Wayne	35,574	3.9 (26)	61.0 (61)	23,429	18.8 (37)	52.2 (32)	8,289	55.7 (40)	8,452	41.5 (49)	42,344	6.7 (26)	42,350	10.9 (34)
Wexford	846	3.8 (23)	58.7 (35)	611	20.6 (55)	50.4 (19)	121	39.7 (19)	190	30.0 (29)	836	6.1 (17)	836	12.3 (49)
<b>Michigan</b>	<b>136,140</b>	<b>4.2</b>	<b>59.6</b>	<b>87,782</b>	<b>19.1</b>	<b>51.5</b>	<b>27,604</b>	<b>47.9</b>	<b>35,578</b>	<b>35.0</b>	<b>154,877</b>	<b>7.1</b>	<b>154,947</b>	<b>11.5</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) 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

### 2017 - 2019 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	108	85.2 (30)	9.3 (41)	115	29.6 (71)	106	24.5 (36)	89	*
Alger	94	*	*	100	47.0 (4)	88	*	79	*
Allegan	2,047	89.9 (10)	4.5 (12)	2,292	34.5 (53)	1,600	23.0 (44)	1,721	81.2 (70)
Alpena	453	83.9 (41)	9.9 (46)	486	37.0 (36)	453	26.3 (31)	397	92.7 (12)
Antrim	300	85.0 (32)	8.7 (35)	304	42.4 (13)	277	23.5 (42)	249	86.7 (52)
Arenac	315	81.6 (51)	14.0 (60)	322	35.7 (48)	286	28.0 (25)	248	85.5 (61)
Baraga	117	92.3 (2)	1.7 (2)	130	40.0 (19)	123	28.5 (22)	112	95.5 (3)
Barry	676	89.9 (10)	6.7 (25)	735	34.3 (55)	678	23.7 (38)	579	94.6 (4)
Bay	1,579	74.3 (72)	20.4 (77)	1,690	41.6 (16)	1,550	15.2 (73)	1,408	84.3 (65)
Benzie	252	81.3 (53)	12.7 (55)	268	32.8 (60)	181	33.7 (11)	203	85.7 (58)
Berrien	2,537	72.5 (76)	13.3 (57)	2,809	30.5 (67)	2,404	14.4 (74)	2,108	88.8 (38)
Branch	833	82.2 (49)	9.7 (44)	1,043	36.2 (45)	912	21.8 (49)	834	80.3 (73)
Calhoun	2,621	89.0 (14)	5.1 (15)	2,901	36.4 (43)	2,032	17.0 (66)	2,237	81.4 (68)
Cass	982	84.7 (35)	8.4 (32)	1,075	43.6 (11)	899	40.9 (6)	892	77.6 (76)
Charlevoix	384	85.2 (30)	7.8 (29)	400	34.5 (53)	370	28.1 (24)	318	88.1 (43)
Cheboygan	387	83.5 (44)	9.3 (41)	404	35.4 (49)	360	23.6 (39)	322	88.8 (38)
Chippewa	636	85.8 (27)	10.4 (48)	680	46.3 (5)	590	49.0 (4)	566	84.5 (64)
Clare	574	76.5 (67)	15.5 (66)	616	44.3 (9)	540	18.5 (58)	521	88.3 (41)
Clinton	496	86.3 (23)	6.5 (24)	524	31.1 (65)	448	24.8 (34)	390	89.2 (35)
Crawford	251	86.9 (21)	8.0 (30)	266	42.1 (14)	242	26.4 (30)	218	90.8 (26)
Delta	608	91.0 (5)	2.6 (4)	671	44.4 (8)	617	24.3 (37)	559	92.5 (13)

(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

### 2017 - 2019 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	380	89.5 (12)	7.4 (27)	414	39.4 (23)	385	33.0 (12)	342	94.2 (5)
Eaton	798	88.3 (17)	3.0 (6)	868	26.6 (74)	775	22.5 (45)	643	93.3 (7)
Emmet	508	90.6 (8)	5.3 (16)	528	29.7 (70)	493	32.3 (13)	412	87.4 (48)
Genesee	7,856	86.1 (25)	3.9 (9)	8,315	23.8 (79)	6,577	8.3 (78)	5,977	88.4 (40)
Gladwin	387	74.9 (71)	19.4 (75)	407	43.5 (12)	379	29.3 (17)	342	88.3 (41)
Gogebic	217	90.8 (7)	1.8 (3)	247	34.0 (56)	220	28.6 (20)	192	95.8 (2)
Gr Travers	1,266	77.8 (63)	14.6 (64)	1,324	29.9 (69)	1,178	23.6 (39)	932	87.6 (45)
Gratiot	655	79.1 (59)	14.0 (60)	696	36.2 (45)	622	25.7 (32)	552	92.9 (10)
Hillsdale	749	79.3 (57)	11.3 (51)	806	36.7 (41)	706	18.1 (61)	623	84.1 (66)
Houghton	514	82.3 (48)	13.2 (56)	541	35.1 (50)	499	49.7 (3)	437	91.5 (19)
Huron	426	83.1 (46)	11.7 (53)	457	38.9 (27)	387	36.7 (8)	347	87.0 (51)
Ingham	5,051	84.9 (34)	7.3 (26)	5,380	29.1 (73)	4,804	7.8 (79)	4,060	90.5 (27)
Ionia	1,014	91.8 (3)	4.2 (10)	1,108	34.7 (52)	997	19.9 (55)	847	93.0 (9)
Iosco	467	85.4 (29)	9.0 (39)	505	34.9 (51)	456	18.9 (57)	416	91.3 (24)
Iron	175	78.9 (60)	18.3 (72)	203	52.7 (2)	172	57.6 (1)	177	86.4 (54)
Isabella	1,071	85.0 (32)	8.8 (36)	1,131	36.3 (44)	976	27.7 (26)	911	93.2 (8)
Jackson	2,890	85.7 (28)	7.4 (27)	3,121	39.3 (24)	2,748	15.4 (72)	2,559	86.0 (56)
Kalamazoo	4,056	81.1 (54)	10.4 (48)	4,450	39.5 (21)	4,034	16.2 (70)	3,564	81.3 (69)
Kalkaska	287	75.6 (69)	17.4 (70)	299	39.5 (21)	267	22.1 (47)	243	85.6 (59)
Kent	10,578	83.6 (43)	6.1 (21)	11,350	26.4 (75)	9,491	20.0 (54)	8,736	90.5 (27)
Lake	154	69.5 (78)	18.8 (74)	166	50.6 (3)	149	12.1 (76)	141	80.9 (71)

(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

### 2017 - 2019 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)
Lapeer	1,182	84.5 (37)	9.8 (45)	1,249	33.9 (57)	1,157	16.4 (68)	987	89.7 (34)
Leelanau	122	75.4 (70)	13.9 (59)	130	30.8 (66)	96	*	87	*
Lenawee	1,288	88.1 (18)	5.5 (17)	1,395	26.2 (76)	1,230	21.1 (52)	1,052	87.3 (49)
Livingston	1,016	91.1 (4)	3.2 (7)	1,097	21.8 (81)	816	38.5 (7)	724	92.1 (15)
Luce	144	73.6 (74)	20.1 (76)	156	46.2 (6)	112	28.6 (20)	130	91.5 (19)
Mackinac	106	73.6 (74)	21.7 (78)	115	36.5 (42)	104	28.8 (19)	88	*
Macomb	9,640	89.0 (14)	4.7 (14)	10,282	24.4 (78)	7,181	17.4 (63)	7,487	91.5 (19)
Manistee	335	89.3 (13)	8.1 (31)	352	31.8 (62)	315	54.0 (2)	282	93.6 (6)
Marquette	707	88.7 (16)	6.1 (21)	794	37.5 (32)	593	35.8 (9)	634	91.3 (24)
Mason	432	82.2 (49)	11.6 (52)	463	36.9 (39)	411	29.0 (18)	383	91.4 (22)
Mecosta	722	87.8 (19)	5.8 (20)	759	38.3 (29)	556	23.6 (39)	596	90.3 (29)
Menominee	250	86.0 (26)	10.4 (48)	293	37.2 (34)	234	23.5 (42)	222	90.1 (33)
Midland	1,021	87.6 (20)	8.6 (34)	1,063	29.4 (72)	967	32.0 (15)	810	95.9 (1)
Missaukee	214	69.2 (79)	22.0 (79)	226	41.6 (16)	168	32.1 (14)	180	85.6 (59)
Monroe	1,801	82.8 (47)	8.9 (38)	1,946	31.3 (64)	1,761	18.3 (60)	1,489	87.5 (47)
Montcalm	990	80.2 (56)	14.2 (63)	1,040	37.5 (32)	919	21.7 (50)	811	92.0 (16)
Montmorenc	142	84.5 (37)	4.2 (10)	150	32.0 (61)	130	28.5 (22)	119	91.6 (18)
Muskegon	3,926	86.3 (23)	6.4 (23)	4,214	39.0 (26)	3,691	17.3 (65)	3,363	80.0 (74)
Newaygo	999	83.4 (45)	9.9 (46)	1,062	39.6 (20)	618	35.1 (10)	862	92.2 (14)
Oakland	10,465	86.7 (22)	5.5 (17)	11,261	26.0 (77)	8,103	15.5 (71)	8,305	87.6 (45)
Oceana	488	74.0 (73)	18.6 (73)	551	36.8 (40)	477	22.2 (46)	427	78.0 (75)

(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

### 2017 - 2019 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	410	78.3 (62)	13.4 (58)	435	37.0 (36)	387	21.2 (51)	358	91.9 (17)
Ontonagon	45	*	*	54	*	50	*	44	*
Osceola	416	76.2 (68)	17.5 (71)	451	42.1 (14)	409	19.8 (56)	378	80.7 (72)
Oscoda	140	81.4 (52)	9.3 (41)	154	37.0 (36)	136	22.1 (47)	123	90.2 (32)
Otsego	498	94.0 (1)	1.4 (1)	520	33.8 (58)	467	27.0 (29)	399	89.0 (36)
Ottawa	2,440	90.9 (6)	3.8 (8)	2,674	31.8 (62)	2,048	27.5 (27)	1,877	83.6 (67)
Presque Is	117	84.6 (36)	8.5 (33)	120	44.2 (10)	111	25.2 (33)	96	*
Roscommon	330	84.5 (37)	5.5 (17)	356	44.9 (7)	325	24.6 (35)	300	90.3 (29)
Saginaw	3,879	78.9 (60)	9.2 (40)	4,185	33.5 (59)	3,594	13.5 (75)	3,270	84.8 (62)
Sanilac	579	84.3 (40)	8.8 (36)	643	38.7 (28)	504	41.9 (5)	519	87.3 (49)
Schoolcraf	144	80.6 (55)	12.5 (54)	147	55.1 (1)	141	20.6 (53)	134	90.3 (29)
Shiawassee	1,085	76.6 (66)	16.1 (68)	1,184	37.8 (31)	1,076	16.4 (68)	939	87.9 (44)
St Clair	2,138	69.2 (79)	22.6 (80)	2,314	38.0 (30)	1,977	18.0 (62)	1,880	85.9 (57)
St Joseph	1,250	72.3 (77)	17.2 (69)	1,407	37.1 (35)	1,273	17.4 (63)	1,131	88.9 (37)
Tuscola	946	77.8 (63)	14.1 (62)	972	36.1 (47)	867	27.3 (28)	738	92.8 (11)
Van Buren	1,304	79.2 (58)	15.7 (67)	1,448	39.2 (25)	1,086	11.8 (77)	1,144	86.7 (52)
Washtenaw	3,045	90.6 (8)	2.7 (5)	3,342	30.3 (68)	3,029	16.7 (67)	2,612	91.4 (22)
Wayne	41,923	83.7 (42)	4.5 (12)	44,436	23.0 (80)	30,768	18.4 (59)	32,100	86.3 (55)
Wexford	833	76.7 (65)	15.0 (65)	881	40.7 (18)	674	31.5 (16)	707	84.6 (63)
<b>Michigan</b>	<b>153,335</b>	<b>84.1</b>	<b>7.0</b>	<b>164,632</b>	<b>29.5</b>	<b>129,731</b>	<b>19.1</b>	<b>124,345</b>	<b>87.4</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) 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

### 2017 - 2019 Pregnancy Nutrition Surveillance (1)

### Michigan

### Comparison of Smoking Indicators by County

### Combined 3 Years

Comparison of Smoking Indicators (2,3)										
County	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	107	46.7 (66)	106	29.2 (61)	37	*	89	*	106	3.8 (50)
Alger	89	*	94	*	43	*	79	*	94	*
Allegan	2,000	27.6 (11)	2,091	15.3 (14)	490	37.6 (20)	1,735	8.3 (16)	2,097	2.1 (19)
Alpena	457	49.2 (73)	456	29.6 (63)	180	32.8 (37)	397	17.9 (61)	456	4.2 (56)
Antrim	280	47.9 (67)	300	33.7 (75)	119	30.3 (44)	249	25.7 (75)	300	9.0 (78)
Arenac	286	48.3 (69)	317	28.1 (57)	119	36.1 (23)	248	23.0 (72)	317	7.9 (77)
Baraga	123	45.5 (63)	118	33.9 (76)	47	*	112	12.5 (34)	118	3.4 (42)
Barry	686	34.7 (27)	678	19.6 (24)	191	39.3 (15)	579	9.2 (18)	678	2.8 (32)
Bay	1,554	38.7 (42)	1,594	24.1 (46)	542	30.3 (44)	1,407	13.6 (43)	1,594	3.7 (46)
Benzie	241	44.8 (61)	252	30.2 (65)	89	*	204	15.2 (50)	253	4.7 (67)
Berrien	2,451	29.6 (15)	2,593	15.2 (13)	569	39.2 (16)	2,108	12.7 (37)	2,593	3.7 (46)
Branch	957	33.2 (24)	975	19.4 (23)	259	33.6 (34)	833	12.5 (34)	975	3.1 (37)
Calhoun	2,567	31.0 (18)	2,674	18.5 (21)	673	26.2 (54)	2,255	10.1 (26)	2,686	2.4 (24)
Cass	984	25.3 (9)	1,001	12.6 (9)	216	28.7 (46)	893	7.2 (8)	1,001	1.9 (17)
Charlevoix	370	38.6 (41)	383	21.9 (35)	125	38.4 (19)	318	10.7 (27)	382	5.5 (73)
Cheboygan	362	52.2 (78)	382	28.5 (59)	155	38.7 (17)	322	16.8 (57)	383	3.7 (46)
Chippewa	634	43.1 (55)	629	32.3 (73)	231	17.3 (65)	569	23.6 (73)	629	14.5 (80)
Clare	566	48.4 (70)	578	31.0 (69)	235	26.0 (56)	521	17.9 (61)	578	4.5 (63)
Clinton	478	34.1 (26)	495	18.0 (19)	134	47.8 (3)	391	7.7 (11)	498	1.6 (9)

(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

### 2017 - 2019 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
Crawford	246	43.1 (55)	254	27.6 (55)	88	*	218	15.6 (51)	254	1.2 (5)
Delta	620	43.9 (58)	608	24.2 (47)	218	34.4 (31)	559	12.5 (34)	608	2.8 (32)
Dickinson	394	39.1 (44)	378	26.5 (52)	122	25.4 (57)	342	7.3 (10)	379	1.6 (9)
Eaton	780	39.9 (49)	802	22.1 (37)	236	38.6 (18)	643	7.8 (13)	802	2.5 (26)
Emmet	493	36.3 (32)	509	19.8 (27)	153	35.9 (24)	412	10.9 (28)	509	3.1 (37)
Genesee	7,212	28.0 (13)	7,943	15.9 (15)	1,674	35.6 (27)	5,980	9.4 (19)	7,939	2.2 (21)
Gladwin	382	41.1 (51)	388	25.3 (50)	132	26.5 (52)	341	18.2 (63)	388	4.6 (64)
Gogebic	220	51.4 (77)	220	39.5 (80)	82	*	192	15.1 (49)	221	3.6 (44)
Gr Travers	1,179	35.4 (30)	1,270	21.3 (34)	339	34.8 (28)	932	9.7 (21)	1,270	3.1 (37)
Gratiot	633	40.0 (50)	658	24.0 (45)	212	34.4 (31)	552	10.0 (24)	659	1.4 (6)
Hillsdale	709	44.3 (60)	754	29.8 (64)	253	26.5 (52)	623	16.9 (58)	754	4.9 (68)
Houghton	509	31.4 (19)	510	21.2 (33)	135	25.2 (59)	436	7.8 (13)	510	1.6 (9)
Huron	428	35.3 (29)	431	20.4 (30)	127	40.2 (12)	349	16.3 (54)	431	3.9 (53)
Ingham	4,828	17.9 (3)	5,104	11.3 (6)	702	33.6 (34)	4,052	6.9 (7)	5,098	3.7 (46)
Ionia	998	37.6 (37)	1,024	21.9 (35)	314	31.2 (43)	847	11.5 (32)	1,024	2.7 (27)
Iosco	458	49.1 (72)	475	34.7 (77)	190	24.7 (60)	415	22.2 (70)	475	4.6 (64)
Iron	185	46.5 (65)	168	36.3 (79)	71	*	176	14.8 (47)	168	5.4 (70)
Isabella	1,045	39.5 (47)	1,066	23.3 (43)	339	39.5 (14)	911	14.3 (46)	1,069	3.0 (36)
Jackson	2,845	39.2 (45)	2,916	26.2 (51)	948	28.5 (49)	2,557	13.4 (42)	2,916	2.7 (27)

(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

### 2017 - 2019 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)
Kalamazoo	4,058	27.7 (12)	4,091	15.9 (15)	911	32.5 (38)	3,564	9.5 (20)	4,091	1.7 (12)
Kalkaska	271	49.8 (75)	287	28.9 (60)	121	39.7 (13)	243	22.6 (71)	287	5.2 (69)
Kent	10,214	19.1 (4)	10,678	9.4 (3)	1,527	42.9 (10)	8,696	5.6 (4)	10,662	1.9 (17)
Lake	150	60.0 (80)	152	32.2 (72)	79	*	141	24.8 (74)	152	4.6 (64)
Lapeer	1,160	29.7 (16)	1,185	13.7 (11)	263	43.3 (9)	987	4.2 (1)	1,184	0.6 (1)
Leelanau	115	28.7 (14)	123	11.4 (7)	25	*	88	*	123	0.8 (3)
Lenawee	1,239	38.3 (38)	1,300	17.6 (18)	362	47.0 (4)	1,048	9.7 (21)	1,302	3.9 (53)
Livingston	981	32.5 (23)	1,013	18.5 (21)	230	41.7 (11)	727	8.0 (15)	1,018	2.7 (27)
Luce	137	48.9 (71)	144	29.2 (61)	59	*	130	18.5 (64)	144	0.7 (2)
Mackinac	106	38.7 (42)	106	28.3 (58)	31	*	88	*	106	3.8 (50)
Macomb	9,254	20.4 (5)	9,742	9.8 (4)	1,454	46.1 (5)	7,518	7.2 (8)	9,746	1.8 (15)
Manistee	323	36.8 (33)	336	22.9 (39)	103	26.2 (54)	282	11.0 (29)	336	4.2 (56)
Marquette	730	41.9 (52)	717	27.6 (55)	258	33.7 (33)	638	10.0 (24)	716	2.1 (19)
Mason	416	33.7 (25)	436	19.7 (26)	120	36.7 (21)	383	9.9 (23)	435	3.2 (40)
Mecosta	682	39.6 (48)	725	24.8 (49)	228	32.0 (39)	596	16.1 (52)	725	3.9 (53)
Menominee	261	51.3 (76)	252	32.9 (74)	102	31.4 (42)	222	17.6 (59)	253	2.4 (24)
Midland	968	29.8 (17)	1,024	19.8 (27)	237	28.3 (50)	809	8.5 (17)	1,023	2.2 (21)
Missaukee	201	32.3 (22)	215	18.1 (20)	58	*	180	16.7 (56)	215	4.2 (56)
Monroe	1,766	37.4 (36)	1,810	23.2 (42)	518	33.0 (36)	1,489	12.9 (39)	1,809	2.9 (35)

(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

### 2017 - 2019 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	939	41.9 (52)	1,001	24.3 (48)	324	35.8 (26)	812	14.8 (47)	1,002	4.2 (56)
Montmorenc	130	46.2 (64)	144	30.6 (67)	54	*	119	26.1 (76)	144	9.0 (78)
Muskegon	3,803	31.7 (20)	3,980	20.9 (32)	1,035	27.6 (51)	3,365	13.0 (40)	3,993	5.4 (70)
Newaygo	971	35.4 (30)	1,010	19.6 (24)	296	36.5 (22)	861	12.7 (37)	1,010	1.8 (15)
Oakland	10,220	14.3 (1)	10,595	6.9 (1)	1,117	43.4 (8)	8,308	6.0 (5)	10,590	1.7 (12)
Oceana	478	27.4 (10)	503	17.3 (17)	112	28.6 (48)	427	6.8 (6)	504	1.0 (4)
Ogemaw	399	45.1 (62)	414	32.1 (71)	155	24.5 (61)	358	20.7 (68)	413	5.8 (75)
Ontonagon	50	*	46	*	15	*	44	*	46	*
Osceola	410	44.1 (59)	415	27.0 (54)	150	28.7 (46)	378	22.0 (69)	415	4.3 (60)
Oscoda	138	52.2 (78)	140	35.0 (78)	60	*	123	16.3 (54)	140	3.6 (44)
Otsego	471	42.3 (54)	495	30.3 (66)	154	25.3 (58)	399	19.3 (66)	495	5.7 (74)
Ottawa	2,346	22.7 (6)	2,492	11.4 (7)	460	45.7 (6)	1,885	5.1 (3)	2,492	1.4 (6)
Presque Is	111	43.2 (57)	117	23.1 (41)	40	*	96	*	117	4.3 (60)
Roscommon	330	48.2 (68)	338	31.1 (70)	136	34.6 (30)	300	20.3 (67)	338	5.9 (76)
Saginaw	3,675	34.8 (28)	3,931	14.1 (12)	1,091	49.5 (2)	3,270	11.2 (30)	3,932	2.2 (21)
Sanilac	580	31.7 (20)	591	20.1 (29)	163	22.1 (63)	529	11.2 (30)	593	2.7 (27)
Schoolcraf	141	49.6 (74)	143	30.8 (68)	66	*	134	18.7 (65)	143	2.8 (32)
Shiawassee	1,080	38.5 (40)	1,102	22.9 (39)	360	31.7 (41)	938	16.2 (53)	1,102	3.3 (41)
St Clair	2,099	39.2 (45)	2,150	23.6 (44)	684	31.9 (40)	1,878	17.8 (60)	2,146	5.4 (70)

(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

### 2017 - 2019 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>										
County	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
St Joseph	1,276	37.3 (35)	1,296	20.6 (31)	365	35.9 (24)	1,129	13.2 (41)	1,295	3.5 (43)
Tuscola	873	38.4 (39)	949	22.4 (38)	279	34.8 (28)	738	14.1 (45)	950	2.7 (27)
Van Buren	1,284	22.8 (7)	1,311	12.7 (10)	248	22.6 (62)	1,143	4.5 (2)	1,309	1.4 (6)
Washtenaw	3,045	23.6 (8)	3,057	11.0 (5)	546	45.4 (7)	2,610	7.7 (11)	3,056	1.7 (12)
Wayne	38,830	17.7 (2)	42,368	6.9 (1)	5,466	54.5 (1)	32,076	12.1 (33)	42,357	3.8 (50)
Wexford	794	37.0 (34)	836	26.6 (53)	241	19.9 (64)	707	14.0 (44)	836	4.3 (60)
<b>Michigan</b>	<b>146,996</b>	<b>26.0</b>	<b>155,033</b>	<b>13.8</b>	<b>31,092</b>	<b>38.9</b>	<b>124,354</b>	<b>10.6</b>	<b>155,026</b>	<b>3.0</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.

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

# WIC PNSS & PedNSS

## Table 8B

### 2017 - 2019 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	99	*	*	101	10.9 (45)	89	*	99	*
Alger	90	*	*	93	*	85	*	90	*
Allegan	1,990	8.6 (48)	9.5 (56)	2,029	12.4 (65)	1,731	3.0 (21)	2,009	77.4 (40)
Alpena	425	10.1 (65)	12.0 (76)	434	9.2 (14)	383	4.7 (65)	423	71.9 (59)
Antrim	269	7.1 (20)	10.4 (65)	282	8.5 (9)	242	4.5 (62)	277	81.6 (17)
Arenac	288	11.5 (73)	8.0 (31)	299	11.7 (58)	251	5.2 (71)	289	70.9 (61)
Baraga	110	5.5 (6)	10.9 (69)	116	7.8 (7)	100	2.0 (5)	109	82.6 (15)
Barry	648	8.3 (43)	10.3 (63)	665	9.9 (24)	580	4.1 (55)	655	80.2 (24)
Bay	1,507	7.4 (27)	8.6 (43)	1,543	9.7 (20)	1,364	3.4 (39)	1,508	67.0 (70)
Benzie	241	7.5 (30)	10.4 (65)	242	9.9 (24)	215	2.3 (8)	241	84.2 (8)
Berrien	2,440	8.2 (42)	6.8 (12)	2,528	9.9 (24)	2,185	4.3 (58)	2,445	71.5 (60)
Branch	921	6.5 (10)	8.0 (31)	943	10.8 (42)	813	2.1 (6)	930	79.1 (32)
Calhoun	2,554	9.3 (55)	7.6 (25)	2,605	10.9 (45)	2,256	3.9 (51)	2,559	73.2 (55)
Cass	929	7.4 (27)	8.2 (37)	948	12.1 (63)	804	2.9 (17)	931	77.9 (36)
Charlevoix	328	8.5 (47)	9.1 (50)	367	8.7 (11)	299	3.0 (21)	360	85.3 (5)
Cheboygan	356	9.3 (55)	7.9 (27)	364	10.2 (33)	315	4.4 (60)	356	78.7 (33)
Chippewa	591	8.1 (40)	11.2 (71)	589	11.2 (50)	505	2.6 (10)	593	68.6 (68)
Clare	546	5.9 (9)	7.9 (27)	558	9.5 (16)	491	2.9 (17)	546	72.7 (57)
Clinton	476	8.8 (53)	10.1 (61)	477	10.1 (31)	422	3.8 (48)	477	86.0 (4)

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# WIC PNSS & PedNSS

## Table 8B

### 2017 - 2019 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	227	7.9 (37)	11.5 (74)	245	10.6 (39)	201	3.0 (21)	227	81.1 (20)
Delta	568	7.6 (32)	8.8 (45)	580	10.3 (35)	508	3.0 (21)	568	79.2 (30)
Dickinson	363	7.7 (34)	8.3 (39)	370	8.4 (8)	329	3.3 (34)	363	75.8 (46)
Eaton	760	7.9 (37)	8.7 (44)	798	10.5 (37)	683	2.8 (14)	779	83.3 (12)
Emmet	479	7.5 (30)	8.4 (40)	495	9.3 (15)	432	3.2 (31)	487	83.6 (11)
Genesee	7,668	12.1 (77)	5.4 (4)	7,751	13.8 (74)	6,531	5.9 (75)	7,687	57.1 (78)
Gladwin	357	8.1 (40)	9.0 (48)	378	11.4 (54)	317	3.5 (43)	358	84.4 (7)
Gogebic	214	7.0 (18)	9.8 (58)	214	10.7 (40)	186	2.7 (12)	214	70.6 (62)
Gr Travers	1,203	7.7 (34)	11.6 (75)	1,234	8.8 (12)	1,089	2.8 (14)	1,203	85.0 (6)
Gratiot	622	7.6 (32)	9.5 (56)	634	10.4 (36)	549	3.3 (34)	623	82.7 (14)
Hillsdale	693	5.6 (7)	8.8 (45)	729	9.7 (20)	624	2.1 (6)	694	79.4 (29)
Houghton	460	5.7 (8)	11.3 (72)	478	7.7 (6)	412	3.2 (31)	461	86.8 (3)
Huron	404	8.7 (52)	11.4 (73)	415	11.3 (53)	359	3.1 (28)	405	77.5 (39)
Ingham	4,794	9.8 (62)	6.8 (12)	4,971	12.0 (61)	4,213	4.5 (62)	4,830	78.6 (34)
Ionia	983	9.1 (54)	6.8 (12)	997	12.4 (65)	857	2.8 (14)	985	81.9 (16)
Iosco	449	7.1 (20)	8.0 (31)	458	8.5 (9)	410	4.6 (64)	450	64.7 (73)
Iron	150	9.3 (55)	9.3 (54)	158	11.4 (54)	132	5.3 (72)	150	80.7 (22)
Isabella	987	8.3 (43)	7.9 (27)	1,034	9.7 (20)	896	4.8 (66)	988	77.7 (38)
Jackson	2,759	9.5 (59)	7.4 (19)	2,822	12.5 (68)	2,405	3.6 (45)	2,759	73.4 (54)

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### Michigan

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### 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	3,834	10.2 (67)	8.0 (31)	3,951	12.7 (71)	3,327	3.8 (48)	3,866	72.3 (58)
Kalkaska	266	10.2 (67)	7.5 (24)	272	11.0 (48)	234	5.1 (70)	267	89.5 (1)
Kent	10,117	11.1 (72)	6.8 (12)	10,387	13.9 (78)	8,666	4.3 (58)	10,155	75.9 (45)
Lake	142	9.9 (63)	4.9 (1)	145	19.3 (80)	113	6.2 (77)	142	76.8 (44)
Lapeer	1,129	7.8 (36)	8.5 (41)	1,137	10.5 (37)	997	3.3 (34)	1,130	79.6 (28)
Leelanau	114	5.3 (4)	7.9 (27)	119	10.1 (31)	101	1.0 (2)	114	88.6 (2)
Lenawee	1,225	6.5 (10)	8.2 (37)	1,268	9.9 (24)	1,093	3.0 (21)	1,225	72.9 (56)
Livingston	991	9.6 (60)	9.0 (48)	1,003	12.0 (61)	869	3.6 (45)	991	79.2 (30)
Luce	138	6.5 (10)	14.5 (79)	140	10.0 (29)	122	0.8 (1)	138	75.4 (48)
Mackinac	102	3.9 (2)	12.7 (78)	104	5.8 (1)	96	*	102	81.4 (18)
Macomb	9,303	10.1 (65)	5.4 (4)	9,482	12.6 (70)	8,022	4.2 (56)	9,426	62.0 (75)
Manistee	313	9.9 (63)	10.5 (68)	322	11.2 (50)	273	4.0 (54)	312	81.1 (20)
Marquette	693	10.2 (67)	9.1 (50)	711	11.8 (59)	610	5.6 (73)	696	83.3 (12)
Mason	417	9.6 (60)	7.2 (17)	427	13.8 (74)	357	3.9 (51)	417	77.0 (42)
Mecosta	691	7.2 (23)	7.7 (26)	696	11.5 (57)	605	3.0 (21)	692	74.4 (50)
Menominee	246	9.3 (55)	8.9 (47)	246	13.8 (74)	210	3.3 (34)	246	65.4 (72)
Midland	974	6.7 (16)	10.2 (62)	999	9.7 (20)	875	2.3 (8)	975	77.8 (37)
Missaukee	183	4.4 (3)	10.9 (69)	201	7.0 (4)	169	3.0 (21)	183	79.8 (27)
Monroe	1,717	8.6 (48)	6.6 (10)	1,758	11.1 (49)	1,509	3.4 (39)	1,701	64.4 (74)

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# WIC PNSS & PedNSS

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### 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	946	7.2 (23)	7.4 (19)	960	10.8 (42)	835	2.6 (10)	947	83.8 (9)
Montmorenc	137	11.7 (75)	6.6 (10)	137	12.4 (65)	118	5.9 (75)	137	73.7 (53)
Muskegon	3,795	10.8 (71)	5.4 (4)	3,839	14.7 (79)	3,155	4.2 (56)	3,800	66.0 (71)
Newaygo	944	6.9 (17)	8.5 (41)	967	11.8 (59)	832	2.9 (17)	944	77.0 (42)
Oakland	10,050	11.7 (75)	5.7 (8)	10,348	13.1 (72)	8,681	4.9 (69)	10,171	69.5 (66)
Oceana	482	6.6 (15)	6.4 (9)	481	6.9 (3)	442	3.8 (48)	482	77.2 (41)
Ogemaw	393	7.4 (27)	9.4 (55)	396	7.3 (5)	359	3.6 (45)	393	68.2 (69)
Ontonagon	44	*	*	46	*	44	*	44	*
Osceola	391	7.2 (23)	9.2 (52)	400	9.5 (16)	355	3.9 (51)	393	81.4 (18)
Oscoda	133	5.3 (4)	6.8 (12)	137	6.6 (2)	125	4.8 (66)	133	74.4 (50)
Otsego	382	8.6 (48)	9.2 (52)	478	8.8 (12)	344	3.5 (43)	451	78.0 (35)
Ottawa	2,341	8.6 (48)	9.8 (58)	2,426	11.2 (50)	2,071	3.3 (34)	2,373	80.2 (24)
Presque Is	115	2.6 (1)	12.2 (77)	115	9.6 (18)	103	1.9 (4)	115	69.6 (65)
Roscommon	323	6.5 (10)	7.4 (19)	323	9.9 (24)	287	3.1 (28)	324	74.4 (50)
Saginaw	3,778	11.6 (74)	5.2 (3)	3,826	12.5 (68)	3,291	4.4 (60)	3,780	60.3 (76)
Sanilac	574	7.1 (20)	7.3 (18)	585	12.1 (63)	499	1.0 (2)	574	58.5 (77)
Schoolcraf	132	12.9 (79)	9.8 (58)	129	10.9 (45)	113	8.0 (78)	132	69.7 (64)
Shiawassee	1,054	7.9 (37)	7.4 (19)	1,068	9.6 (18)	950	3.4 (39)	1,054	75.1 (49)
St Clair	2,046	7.2 (23)	8.1 (35)	2,087	10.7 (40)	1,819	3.2 (31)	2,048	70.1 (63)

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	Low (4)		High (5)	(6)		(7)			
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
St Joseph	1,217	8.3 (43)	7.4 (19)	1,245	10.8 (42)	1,074	2.7 (12)	1,225	83.8 (9)
Tuscola	900	8.3 (43)	10.4 (65)	914	11.4 (54)	786	3.1 (28)	899	75.6 (47)
Van Buren	1,225	6.5 (10)	10.3 (63)	1,257	10.0 (29)	1,085	2.9 (17)	1,239	68.7 (67)
Washtenaw	2,913	10.6 (70)	5.4 (4)	2,967	13.4 (73)	2,519	4.8 (66)	2,848	80.7 (22)
Wayne	39,594	12.1 (77)	5.0 (2)	41,138	13.8 (74)	33,729	5.6 (73)	40,287	54.9 (79)
Wexford	781	7.0 (18)	8.1 (35)	792	10.2 (33)	682	3.4 (39)	782	80.2 (24)
<b>Michigan</b>	<b>146,255</b>	<b>10.3</b>	<b>6.6</b>	<b>150,442</b>	<b>12.5</b>	<b>126,827</b>	<b>4.4</b>	<b>147,505</b>	<b>57.5</b>

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