

WIC PNNS & PedNSS

Table 3B

2018 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	43	*	*	*	*	*	*	*
Alger	28	*	*	*	*	*	*	*
Allegan	532	77.8	2.1	14.7	0.2	0.6	3.4	1.3
Alpena	148	95.9	0.0	2.0	0.0	0.0	2.0	0.0
Antrim	113	94.7	0.9	0.9	0.0	0.0	3.5	0.0
Arenac	117	95.7	0.0	2.6	0.0	0.0	1.7	0.0
Baraga	46	*	*	*	*	*	*	*
Barry	273	93.0	0.4	4.8	0.0	0.4	1.5	0.0
Bay	554	80.3	0.9	10.5	0.0	0.0	7.6	0.7
Benzie	87	*	*	*	*	*	*	*
Berrien	924	47.3	37.1	7.9	0.4	1.2	4.4	1.6
Branch	380	86.1	0.5	9.5	0.0	0.5	2.9	0.5
Calhoun	1,013	62.7	18.3	7.0	0.0	4.9	6.6	0.5
Cass	346	61.6	7.5	21.7	0.3	0.6	7.2	1.2
Charlevoix	149	83.9	1.3	4.7	0.7	0.0	9.4	0.0
Cheboygan	128	88.3	0.8	2.3	0.0	0.0	8.6	0.0
Chippewa	243	57.6	0.4	2.9	16.5	0.4	21.4	0.8
Clare	198	93.9	0.5	3.5	0.0	0.0	2.0	0.0
Clinton	182	81.3	0.0	15.9	0.0	0.0	2.2	0.5
Crawford	76	*	*	*	*	*	*	*
Delta	220	87.7	0.0	0.9	0.0	0.9	10.5	0.0
Dickinson	144	93.8	0.7	1.4	0.0	0.0	4.2	0.0
Eaton	296	85.1	5.4	5.4	0.3	0.0	3.0	0.7

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors

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Emmet	175	89.1	0.0	2.9	2.9	0.6	4.6	0.0
Genesee	2,730	46.6	40.7	4.7	0.1	0.4	6.9	0.7
Gladwin	147	95.9	0.7	1.4	0.0	0.0	1.4	0.7
Gogebic	83	*	*	*	*	*	*	*
Gr Travers	436	81.7	1.1	8.7	1.6	1.4	4.4	1.1
Gratiot	238	87.8	0.0	10.9	0.0	0.0	1.3	0.0
Hillsdale	266	94.0	0.8	2.3	0.0	0.4	1.9	0.8
Houghton	193	86.0	1.6	3.1	0.0	4.7	2.6	2.1
Huron	136	95.6	0.0	2.2	0.7	0.0	1.5	0.0
Ingham	1,758	43.1	26.8	16.4	0.2	5.0	8.1	0.4
Ionia	365	87.7	0.3	8.5	0.0	0.0	3.6	0.0
Iosco	199	91.5	0.0	2.0	1.0	0.0	5.0	0.5
Iron	64	*	*	*	*	*	*	*
Isabella	388	81.2	4.4	5.7	2.8	0.5	5.4	0.0
Jackson	1,081	72.1	14.3	5.2	0.0	0.4	7.7	0.4
Kalamazoo	1,467	46.7	31.6	9.7	0.2	1.0	10.4	0.3
Kalkaska	108	88.9	0.0	4.6	0.0	0.9	4.6	0.9
Kent	3,855	34.9	26.6	27.5	0.3	4.5	5.6	0.6
Lake	48	*	*	*	*	*	*	*
Lapeer	437	80.3	0.7	13.5	0.2	0.5	4.8	0.0
Leelanau	42	*	*	*	*	*	*	*
Lenawee	486	75.3	1.6	16.9	0.0	0.0	5.3	0.8
Livingston	379	92.9	0.3	3.4	0.0	1.3	1.8	0.3

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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	60	*	*	*	*	*	*	*
Mackinac	33	*	*	*	*	*	*	*
Macomb	3,496	56.4	27.9	4.5	0.2	5.6	4.9	0.4
Manistee	111	80.2	0.9	9.9	0.9	0.0	8.1	0.0
Marquette	294	85.0	0.3	4.1	1.7	0.0	8.5	0.3
Mason	145	83.4	2.1	11.7	0.0	0.0	2.8	0.0
Mecosta	276	87.0	2.5	3.6	0.7	0.7	4.7	0.7
Menominee	95	*	*	*	*	*	*	*
Midland	336	93.2	0.9	1.8	0.0	1.5	2.7	0.0
Missaukee	86	*	*	*	*	*	*	*
Monroe	641	81.0	4.8	7.8	0.0	0.5	5.5	0.5
Montcalm	359	93.3	0.3	3.3	0.3	0.0	2.8	0.0
Montmorenc	51	*	*	*	*	*	*	*
Muskegon	1,462	55.1	28.2	8.8	0.1	0.4	7.0	0.2
Newaygo	353	80.5	0.3	13.9	0.0	1.1	3.7	0.6
Oakland	3,729	41.1	41.5	10.1	0.1	2.1	4.7	0.4
Oceana	199	59.3	0.5	38.2	0.0	0.0	1.5	0.5
Ogemaw	139	90.6	0.0	2.9	0.7	0.0	4.3	1.4
Ontonagon	15	*	*	*	*	*	*	*
Osceola	144	94.4	1.4	0.7	0.7	0.0	2.8	0.0
Oscoda	59	*	*	*	*	*	*	*
Otsego	163	93.3	1.2	3.1	0.0	0.6	1.8	0.0
Ottawa	1,133	57.0	3.8	29.7	0.0	2.5	5.8	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 %
Presque Is	49	*	*	*	*	*	*	*
Roscommon	126	91.3	0.0	2.4	0.0	0.0	5.6	0.8
Saginaw	1,390	36.5	41.8	16.8	0.0	0.2	4.2	0.5
Sanilac	208	92.3	0.0	5.8	0.0	0.0	1.4	0.5
Schoolcraf	47	*	*	*	*	*	*	*
Shiawassee	386	89.9	0.3	4.9	0.3	0.3	4.4	0.0
St Clair	772	82.1	5.4	6.1	0.0	0.1	5.6	0.6
St Joseph	474	69.6	2.3	21.3	0.0	0.2	5.1	1.5
Tuscola	357	90.2	0.0	5.6	0.0	0.0	3.9	0.3
Van Buren	474	59.9	3.0	26.6	0.6	0.4	6.1	3.4
Washtenaw	1,076	36.6	39.4	10.4	0.4	2.3	9.8	1.1
Wayne	14,980	27.5	57.3	9.1	0.1	2.8	2.8	0.3
Wexford	295	91.9	0.0	3.1	0.0	0.0	4.7	0.3
Michigan	55,407	51.7	29.9	10.5	0.4	2.1	4.9	0.5
National (Prior Year)	94,408	50.1	22.6	18.8	2.0	2.9	3.3	0.4

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Table 4B

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Comparison of Age Distribution by County

Comparison of Age Distribution (2)								
County	Number Included in Analysis	< 15 Years %	15 - 17 Years %	18 - 19 Years %	20 - 29 Years %	30 - 39 Years %	>= 40 Years %	Unknown %
Alcona	43	*	*	*	*	*	*	*
Alger	28	*	*	*	*	*	*	*
Allegan	532	0.0	4.7	9.4	60.9	23.7	1.3	0.0
Alpena	148	0.0	6.1	9.5	62.8	19.6	2.0	0.0
Antrim	113	0.0	1.8	11.5	63.7	22.1	0.9	0.0
Arenac	117	0.0	1.7	5.1	65.8	23.1	4.3	0.0
Baraga	46	*	*	*	*	*	*	*
Barry	273	0.0	1.8	9.9	63.7	22.7	1.8	0.0
Bay	554	0.0	2.3	10.6	64.3	20.9	1.8	0.0
Benzie	87	*	*	*	*	*	*	*
Berrien	924	0.0	3.7	10.3	62.9	21.1	1.5	0.5
Branch	380	0.0	2.4	8.9	62.6	23.4	2.6	0.0
Calhoun	1,013	0.0	3.5	9.9	62.5	22.7	1.3	0.2
Cass	346	0.6	1.7	8.7	63.9	22.8	2.3	0.0
Charlevoix	149	0.0	0.0	7.4	69.1	22.1	1.3	0.0
Cheboygan	128	0.8	1.6	8.6	64.1	25.0	0.0	0.0
Chippewa	243	0.4	1.2	7.8	60.9	28.4	1.2	0.0
Clare	198	0.5	2.5	10.6	65.2	19.2	2.0	0.0
Clinton	182	0.0	2.2	8.8	65.9	20.9	2.2	0.0
Crawford	76	*	*	*	*	*	*	*
Delta	220	0.0	2.7	8.2	61.8	26.8	0.5	0.0
Dickinson	144	0.0	1.4	10.4	61.8	25.0	1.4	0.0
Eaton	296	0.0	0.7	12.5	61.1	24.3	0.7	0.7
Emmet	175	0.0	0.0	6.3	64.6	28.0	1.1	0.0

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Gladwin	147	0.0	2.0	10.9	70.7	16.3	0.0	0.0
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Gr Travers	436	0.0	3.0	7.3	62.4	24.8	2.5	0.0
Gratiot	238	0.0	2.1	9.2	63.9	23.5	1.3	0.0
Hillsdale	266	0.4	3.0	12.0	63.9	19.9	0.8	0.0
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Ionia	365	0.0	3.3	7.1	69.9	18.6	1.1	0.0
Iosco	199	0.0	4.0	9.5	64.3	21.6	0.5	0.0
Iron	64	*	*	*	*	*	*	*
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Jackson	1,081	0.1	3.6	8.9	67.3	19.2	0.5	0.4
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Kalkaska	108	0.0	0.9	7.4	75.0	16.7	0.0	0.0
Kent	3,855	0.2	2.6	8.2	59.0	27.7	1.9	0.4
Lake	48	*	*	*	*	*	*	*
Lapeer	437	0.0	3.4	7.8	62.5	24.3	1.8	0.2
Leelanau	42	*	*	*	*	*	*	*
Lenawee	486	0.0	2.5	10.3	64.6	21.8	0.8	0.0
Livingston	379	0.0	1.6	7.4	61.2	28.2	1.6	0.0
Luce	60	*	*	*	*	*	*	*
Mackinac	33	*	*	*	*	*	*	*

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Mason	145	0.7	4.8	4.8	69.0	20.0	0.7	0.0
Mecosta	276	0.0	2.2	11.6	67.4	17.8	1.1	0.0
Menominee	95	*	*	*	*	*	*	*
Midland	336	0.0	2.1	6.5	67.6	22.6	1.2	0.0
Missaukee	86	*	*	*	*	*	*	*
Monroe	641	0.0	2.5	9.2	62.2	24.2	1.9	0.0
Montcalm	359	0.0	3.3	12.0	66.9	16.7	1.1	0.0
Montmorenc	51	*	*	*	*	*	*	*
Muskegon	1,462	0.3	3.5	9.2	65.8	19.9	1.3	0.0
Newaygo	353	0.0	2.8	7.6	69.4	19.3	0.8	0.0
Oakland	3,729	0.1	1.8	6.8	60.6	28.2	2.5	0.0
Oceana	199	0.5	4.0	6.5	65.3	21.6	2.0	0.0
Ogemaw	139	0.0	3.6	7.9	65.5	21.6	1.4	0.0
Ontonagon	15	*	*	*	*	*	*	*
Osceola	144	0.0	5.6	13.9	59.0	20.8	0.7	0.0
Oscoda	59	*	*	*	*	*	*	*
Otsego	163	0.0	2.5	9.8	65.0	22.1	0.6	0.0
Ottawa	1,133	0.3	2.3	7.7	61.4	26.0	2.2	0.1
Presque Is	49	*	*	*	*	*	*	*
Roscommon	126	0.0	3.2	11.1	61.9	23.0	0.8	0.0
Saginaw	1,390	0.2	3.3	9.6	65.0	20.1	1.7	0.0

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Sanilac	208	0.0	1.9	7.7	61.1	27.4	1.9	0.0
Schoolcraf	47	*	*	*	*	*	*	*
Shiawassee	386	0.3	2.6	8.5	70.7	16.3	1.6	0.0
St Clair	772	0.1	3.4	8.2	64.5	22.5	1.2	0.1
St Joseph	474	0.0	3.6	8.2	69.0	17.5	1.7	0.0
Tuscola	357	0.0	2.8	9.2	64.4	22.7	0.8	0.0
Van Buren	474	0.0	3.4	9.1	60.3	25.5	1.5	0.2
Washtenaw	1,076	0.2	2.6	5.4	59.9	28.7	3.1	0.2
Wayne	14,980	0.1	2.4	6.6	61.3	27.0	2.5	0.1
Wexford	295	0.0	4.1	5.4	66.8	22.7	1.0	0.0
Michigan	55,413	0.1	2.6	7.7	62.5	25.1	2.0	0.1
National (Prior Year)	98,943	0.1	2.7	7.5	61.8	25.7	2.0	0.1

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WIC PNNS & PedNSS

Table 5B 2018 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)
Alcona	23	*	*	4	*	*	8	*	12	*	42	*	42	*
Alger	17	*	*	6	*	*	1	*	8	*	28	*	27	*
Allegan	396	4.3 (33)	60.9 (39)	193	18.1 (22)	48.7 (11)	83	*	128	33.6 (9)	485	7.6 (39)	488	11.5 (38)
Alpena	139	2.9 (9)	58.3 (21)	105	18.1 (22)	56.2 (37)	19	*	35	*	137	4.4 (11)	137	7.3 (5)
Antrim	87	*	*	37	*	*	15	*	11	*	105	6.7 (26)	106	9.4 (16)
Arenac	74	*	*	38	*	*	19	*	13	*	112	2.7 (1)	112	8.0 (9)
Baraga	40	*	*	15	*	*	4	*	9	*	40	*	40	*
Barry	154	7.1 (55)	51.9 (6)	45	*	*	35	*	60	*	250	8.0 (47)	250	11.2 (33)
Bay	478	4.0 (24)	61.1 (43)	372	17.7 (18)	51.9 (23)	89	*	69	*	521	7.7 (42)	521	10.4 (22)
Benzie	77	*	*	56	*	*	11	*	16	*	83	*	83	*
Berrien	774	3.2 (10)	61.8 (46)	575	17.0 (12)	56.0 (36)	152	50.7 (7)	140	26.4 (3)	835	5.9 (22)	835	11.0 (28)
Branch	282	7.4 (56)	62.4 (50)	161	16.1 (8)	54.0 (31)	62	*	53	*	346	7.5 (36)	346	7.2 (3)
Calhoun	824	3.4 (14)	59.7 (33)	498	21.5 (32)	54.6 (32)	146	50.0 (6)	192	31.8 (6)	921	7.2 (32)	922	9.0 (13)
Cass	296	2.7 (5)	62.8 (52)	168	16.7 (10)	56.5 (38)	42	*	37	*	313	8.6 (55)	313	15.3 (57)
Charlevoix	107	2.8 (7)	54.2 (10)	52	*	*	22	*	24	*	138	6.5 (25)	139	7.2 (3)
Cheboygan	121	6.6 (53)	58.7 (26)	60	*	*	23	*	14	*	121	10.7 (62)	121	9.9 (20)
Chippewa	175	4.0 (24)	62.9 (53)	92	*	*	38	*	38	*	220	8.2 (51)	219	10.5 (23)

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

(2) Excludes records with unknown data or errors.

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

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

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

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

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Table 5B 2018 Pregnancy Nutrition Surveillance (1) Michigan

Comparison of Maternal Health Indicators by County

Comparison of Maternal Health Indicators (2,3)														
County	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	189	4.8 (42)	60.3 (35)	153	20.9 (29)	48.4 (10)	29	*	26	*	184	3.3 (3)	184	7.6 (8)
Clinton	166	4.8 (42)	66.3 (57)	128	14.8 (2)	52.3 (24)	19	*	49	*	172	8.1 (50)	172	11.0 (28)
Crawford	61	*	*	52	*	*	10	*	15	*	73	*	73	*
Delta	133	0.8 (1)	51.1 (4)	72	*	*	26	*	52	*	196	10.2 (60)	196	8.7 (11)
Dickinson	119	4.2 (30)	55.5 (12)	49	*	*	17	*	21	*	135	3.7 (6)	135	14.8 (53)
Eaton	212	2.4 (3)	61.8 (46)	134	17.2 (14)	58.2 (40)	47	*	51	*	269	7.8 (43)	270	15.2 (56)
Emmet	149	2.7 (5)	53.7 (8)	68	*	*	30	*	31	*	169	8.3 (52)	169	11.2 (33)
Genesee	2,146	5.1 (46)	56.8 (16)	971	17.5 (16)	51.0 (16)	521	55.9 (11)	419	34.6 (10)	2,536	8.0 (47)	2,540	16.3 (60)
Gladwin	125	4.0 (24)	57.6 (17)	94	*	*	23	*	20	*	141	4.3 (10)	141	13.5 (49)
Gogebic	68	*	*	28	*	*	10	*	23	*	70	*	70	*
Gr Travers	397	3.8 (21)	51.9 (6)	328	17.4 (15)	53.4 (29)	57	*	59	*	408	9.3 (58)	409	11.7 (39)
Gratiot	215	6.5 (52)	58.6 (24)	165	15.8 (7)	58.2 (40)	34	*	53	*	221	10.4 (61)	221	14.5 (52)
Hillsdale	252	5.2 (48)	58.3 (21)	187	15.0 (3)	55.6 (34)	39	*	49	*	243	4.1 (8)	243	7.4 (6)
Houghton	116	7.8 (58)	45.7 (1)	51	*	*	40	*	61	*	179	5.0 (13)	180	11.7 (39)
Huron	106	3.8 (21)	67.9 (58)	87	*	*	17	*	37	*	131	7.6 (39)	131	18.3 (62)
Ingham	1,481	4.9 (44)	59.4 (30)	1,206	19.2 (27)	52.6 (27)	275	49.1 (5)	235	31.9 (7)	1,644	6.3 (24)	1,645	9.5 (17)
Ionia	212	4.7 (39)	58.0 (20)	131	15.3 (5)	55.7 (35)	66	*	104	21.2 (2)	332	7.5 (36)	331	16.9 (61)

(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 PNNS & PedNSS

Table 5B 2018 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)
Iosco	142	7.0 (54)	59.2 (28)	71	*	*	33	*	41	*	184	3.3 (3)	184	9.8 (19)
Iron	45	*	*	7	*	*	7	*	12	*	53	*	53	*
Isabella	305	3.3 (13)	61.0 (41)	182	20.9 (29)	50.5 (14)	64	*	84	*	365	5.5 (18)	365	11.2 (33)
Jackson	818	6.1 (50)	60.1 (34)	455	15.2 (4)	52.5 (25)	171	43.3 (2)	194	42.3 (17)	1,004	5.4 (17)	1,005	11.3 (36)
Kalamazoo	1,199	3.9 (23)	59.2 (28)	631	16.5 (9)	55.2 (33)	195	53.3 (9)	339	43.7 (20)	1,340	7.0 (28)	1,341	9.5 (17)
Kalkaska	95	*	*	72	*	*	25	*	24	*	99	*	99	*
Kent	2,705	3.7 (18)	58.6 (24)	1,229	25.4 (41)	42.8 (2)	592	45.6 (3)	1,281	41.3 (15)	3,582	7.2 (32)	3,585	12.3 (41)
Lake	46	*	*	35	*	*	6	*	10	*	47	*	47	*
Lapeer	431	5.1 (46)	55.5 (12)	377	16.7 (10)	52.5 (25)	68	*	127	32.3 (8)	409	3.4 (5)	409	4.4 (1)
Leelanau	38	*	*	29	*	*	3	*	8	*	39	*	39	*
Lenawee	421	4.3 (33)	54.6 (11)	116	23.3 (36)	43.1 (3)	95	*	123	42.3 (17)	442	7.0 (28)	443	13.8 (50)
Livingston	359	4.7 (39)	51.8 (5)	253	15.4 (6)	53.4 (29)	61	*	125	18.4 (1)	358	11.2 (63)	357	15.4 (59)
Luce	55	*	*	34	*	*	7	*	17	*	52	*	53	*
Mackinac	33	*	*	27	*	*	4	*	8	*	30	*	30	*
Macomb	3,213	4.6 (37)	60.4 (36)	2,627	18.5 (25)	50.8 (15)	650	48.8 (4)	905	40.0 (13)	3,263	9.1 (57)	3,261	11.1 (31)
Manistee	88	*	*	20	*	*	13	*	32	*	108	3.7 (6)	108	11.1 (31)
Marquette	258	3.5 (15)	50.8 (3)	196	22.4 (34)	43.9 (4)	38	*	80	*	267	4.1 (8)	268	19.0 (63)

(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 PNNS & PedNSS

Table 5B 2018 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	107	4.7 (39)	49.5 (2)	31	*	*	29	*	25	*	132	3.0 (2)	132	9.1 (15)
Mecosta	219	5.0 (45)	53.9 (9)	131	23.7 (38)	51.1 (18)	38	*	66	*	250	4.4 (11)	250	10.8 (24)
Menominee	59	*	*	32	*	*	18	*	25	*	78	*	78	*
Midland	282	2.8 (7)	59.6 (32)	50	*	*	46	*	168	28.6 (4)	320	5.9 (22)	321	15.3 (57)
Missaukee	82	*	*	66	*	*	10	*	16	*	81	*	81	*
Monroe	514	4.5 (36)	57.6 (17)	315	23.5 (37)	47.0 (7)	101	58.4 (14)	132	37.9 (12)	577	7.5 (36)	577	12.3 (41)
Montcalm	334	6.0 (49)	60.8 (37)	263	19.8 (28)	52.9 (28)	48	*	96	*	336	9.8 (59)	337	15.1 (54)
Montmorenc	48	*	*	33	*	*	7	*	11	*	48	*	48	*
Muskegon	1,354	4.0 (24)	60.8 (37)	978	20.9 (29)	49.0 (13)	172	40.7 (1)	183	31.7 (5)	1,344	7.2 (32)	1,348	13.4 (48)
Newaygo	318	3.5 (15)	61.0 (41)	198	25.3 (40)	44.9 (5)	54	*	72	*	332	9.0 (56)	333	10.8 (24)
Oakland	3,247	4.2 (30)	57.8 (19)	2,072	17.9 (19)	51.4 (20)	666	50.9 (8)	830	41.1 (14)	3,474	5.1 (14)	3,474	9.0 (13)
Oceana	173	1.7 (2)	63.0 (54)	119	24.4 (39)	47.1 (8)	27	*	38	*	182	5.5 (18)	182	11.0 (28)
Ogemaw	121	2.5 (4)	59.5 (31)	72	*	*	20	*	28	*	125	8.0 (47)	125	8.0 (9)
Ontonagon	14	*	*	11	*	*	4	*	2	*	13	*	13	*
Osceola	126	3.2 (10)	61.9 (48)	80	*	*	18	*	38	*	133	8.3 (52)	132	11.4 (37)
Oscoda	47	*	*	29	*	*	8	*	13	*	56	*	56	*
Otsego	83	*	*	27	*	*	24	*	30	*	149	7.4 (35)	149	6.0 (2)

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

(2) Excludes records with unknown data or errors.

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

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

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

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

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

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

WIC PNNS & PedNSS

Table 5B 2018 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)
Ottawa	908	3.7 (18)	58.7 (26)	611	17.0 (12)	48.9 (12)	158	56.3 (13)	319	42.9 (19)	1,046	7.8 (43)	1,048	10.3 (21)
Presque Is	45	*	*	36	*	*	5	*	11	*	47	*	47	*
Roscommon	115	3.5 (15)	66.1 (56)	73	*	*	14	*	32	*	118	7.6 (39)	119	15.1 (54)
Saginaw	1,181	4.2 (30)	62.1 (49)	843	21.5 (32)	47.7 (9)	223	60.5 (15)	476	44.1 (21)	1,294	5.6 (20)	1,293	10.8 (24)
Sanilac	43	*	*	23	*	*	34	*	42	*	189	5.8 (21)	189	7.4 (6)
Schoolcraf	25	*	*	7	*	*	4	*	14	*	45	*	45	*
Shiawassee	371	4.6 (37)	60.9 (39)	307	22.5 (35)	46.9 (6)	53	*	87	*	362	8.3 (52)	362	13.3 (47)
St Clair	734	6.1 (50)	56.4 (15)	623	18.3 (24)	57.3 (39)	91	*	180	36.1 (11)	702	5.3 (16)	704	13.1 (45)
St Joseph	371	4.3 (33)	58.5 (23)	196	17.9 (19)	51.0 (16)	75	*	81	*	432	5.1 (14)	432	13.2 (46)
Tuscola	272	7.4 (56)	55.5 (12)	220	14.5 (1)	58.2 (40)	54	*	64	*	342	7.9 (46)	342	12.6 (43)
Van Buren	405	4.0 (24)	65.4 (55)	234	42.3 (42)	28.2 (1)	54	*	78	*	422	7.1 (31)	422	8.8 (12)
Washtenaw	1,001	3.7 (18)	61.5 (45)	674	18.0 (21)	51.2 (19)	201	53.7 (10)	310	41.3 (15)	969	7.8 (43)	969	13.8 (50)
Wayne	11,899	4.0 (24)	61.2 (44)	7,787	19.1 (26)	51.6 (22)	2,736	56.0 (12)	2,931	44.7 (22)	14,022	6.9 (27)	14,027	10.9 (27)
Wexford	280	3.2 (10)	62.5 (51)	204	17.6 (17)	51.5 (21)	37	*	71	*	270	7.0 (28)	270	13.0 (44)
Michigan	45,296	4.3	59.5	29,118	19.1	51.0	9,090	49.4	12,050	37.9	51,368	7.0	51,399	11.4
National (Prior Year)	78,830	4.2	58.1	60,587	20.6	48.3	19,110	33.8	18,650	29.5	62,888	9.8	62,050	11.8

(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) 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 PNNS & PedNSS

Table 6B

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Comparison of Maternal Behavioral Indicators by County

Comparison of Maternal Behavioral Indicators (2,3)									
County	Medical Care			WIC Enrollment		Multivitamin Consumption			
	1st Trimester		No Care	1st Trimester		Prepregnancy (4)		During Pregnancy (5)	
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Alcona	42	*	*	43	*	40	*	32	*
Alger	28	*	*	28	*	22	*	21	*
Allegan	486	89.3 (12)	5.1 (17)	524	32.3 (40)	397	20.9 (37)	395	86.1 (40)
Alpena	135	86.7 (25)	7.4 (29)	147	35.4 (30)	136	24.3 (28)	117	92.3 (11)
Antrim	107	91.6 (6)	5.6 (18)	108	41.7 (7)	99	*	86	*
Arenac	110	77.3 (53)	15.5 (56)	116	31.9 (44)	103	28.2 (18)	93	*
Baraga	40	*	*	45	*	41	*	36	*
Barry	251	86.5 (26)	9.6 (38)	268	35.1 (31)	255	22.0 (32)	221	94.6 (5)
Bay	517	73.9 (61)	20.7 (62)	551	41.7 (7)	513	14.0 (58)	468	82.5 (52)
Benzie	82	*	*	85	*	52	*	64	*
Berrien	816	73.0 (62)	11.2 (44)	911	29.7 (53)	778	15.4 (53)	671	90.0 (24)
Branch	298	80.9 (45)	9.7 (39)	374	34.8 (34)	336	25.3 (23)	303	83.2 (50)
Calhoun	904	89.2 (13)	4.9 (16)	1,002	36.0 (27)	711	15.9 (51)	777	81.6 (53)
Cass	304	83.2 (38)	7.6 (31)	339	39.8 (13)	275	40.0 (4)	281	79.4 (56)
Charlevoix	140	87.9 (18)	7.1 (26)	148	29.7 (53)	142	35.9 (8)	117	91.5 (16)
Cheboygan	121	85.1 (31)	7.4 (29)	127	32.3 (40)	108	29.6 (15)	101	92.1 (13)
Chippewa	222	86.9 (24)	8.1 (34)	233	46.8 (1)	207	45.9 (3)	198	82.8 (51)
Clare	183	74.3 (60)	15.3 (55)	195	40.5 (11)	170	17.6 (44)	166	88.0 (34)
Clinton	172	87.2 (20)	4.7 (14)	178	30.3 (52)	150	28.7 (16)	127	85.0 (46)
Crawford	74	*	*	76	*	69	*	61	*

(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 PNNS & PedNSS

Table 6B

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Comparison of Maternal Behavioral Indicators by County

Comparison of Maternal Behavioral Indicators (2,3)									
County	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	197	92.4 (5)	1.0 (2)	215	44.2 (3)	201	24.4 (27)	181	92.3 (11)
Dickinson	138	88.4 (16)	8.0 (33)	142	41.5 (9)	134	24.6 (26)	122	95.1 (4)
Eaton	268	89.2 (13)	3.0 (6)	294	32.0 (43)	265	19.6 (39)	227	92.1 (13)
Emmet	168	93.5 (4)	4.2 (10)	174	25.3 (60)	157	36.3 (7)	127	88.2 (33)
Genesee	2,524	85.5 (30)	4.4 (11)	2,677	23.0 (62)	2,253	11.6 (60)	1,924	89.3 (29)
Gladwin	140	76.4 (56)	18.6 (60)	147	42.9 (5)	134	26.9 (20)	120	90.0 (24)
Gogebic	69	*	*	81	*	73	*	63	*
Gr Travers	411	78.6 (49)	15.1 (54)	431	29.7 (53)	390	23.3 (30)	309	86.1 (40)
Gratiot	222	78.8 (48)	13.1 (48)	235	34.0 (36)	210	24.3 (28)	180	92.8 (9)
Hillsdale	242	78.1 (51)	12.4 (46)	262	35.9 (28)	226	15.5 (52)	198	83.8 (49)
Houghton	182	83.5 (37)	10.4 (41)	187	28.3 (56)	172	51.2 (1)	147	89.1 (30)
Huron	130	80.0 (47)	13.1 (48)	136	37.5 (22)	119	38.7 (5)	99	*
Ingham	1,626	87.2 (20)	6.3 (21)	1,741	30.8 (50)	1,551	6.5 (61)	1,315	92.8 (9)
Ionia	331	93.7 (3)	2.4 (3)	363	31.7 (45)	328	21.0 (36)	280	96.8 (1)
Iosco	180	88.9 (15)	7.2 (28)	198	33.3 (37)	176	19.3 (40)	161	90.7 (22)
Iron	57	*	*	64	*	56	*	57	*
Isabella	364	85.7 (29)	7.1 (26)	383	36.6 (25)	325	28.6 (17)	314	91.7 (15)
Jackson	997	88.1 (17)	5.7 (19)	1,070	40.6 (10)	954	14.7 (56)	879	85.4 (44)
Kalamazoo	1,324	81.9 (42)	9.5 (37)	1,447	39.7 (14)	1,323	15.4 (53)	1,168	80.2 (54)
Kalkaska	99	*	*	105	39.0 (17)	93	*	88	*
Kent	3,569	83.6 (35)	6.3 (21)	3,812	28.1 (57)	3,203	18.5 (42)	2,952	91.0 (18)

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

(2) Excludes records with unknown data or errors.

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

(4) 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 PNNS & PedNSS

Table 6B

2018 Pregnancy Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Maternal Behavioral Indicators by County

Comparison of Maternal Behavioral Indicators ^(2,3)									
County	Medical Care			WIC Enrollment		Multivitamin Consumption			
	1st Trimester		No Care	1st Trimester		Pregnancy ⁽⁴⁾		During Pregnancy ⁽⁵⁾	
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Lake	47	*	*	48	*	42	*	42	*
Lapeer	408	82.1 (41)	13.2 (50)	429	35.0 (32)	401	16.0 (50)	336	88.7 (31)
Leelanau	39	*	*	42	*	35	*	24	*
Lenawee	442	84.4 (33)	7.7 (32)	475	27.2 (58)	415	25.5 (22)	351	85.2 (45)
Livingston	356	90.4 (7)	3.7 (8)	371	22.1 (64)	266	35.0 (9)	247	93.1 (7)
Luce	53	*	*	59	*	41	*	49	*
Mackinac	30	*	*	33	*	28	*	26	*
Macomb	3,232	89.4 (11)	4.5 (13)	3,435	25.0 (61)	2,408	17.1 (46)	2,473	91.0 (18)
Manistee	107	94.4 (2)	2.8 (5)	111	32.4 (39)	98	*	86	*
Marquette	264	87.5 (19)	6.8 (24)	289	34.9 (33)	218	30.3 (14)	215	94.0 (6)
Mason	132	86.4 (27)	6.8 (24)	144	31.3 (46)	126	37.3 (6)	115	96.5 (2)
Mecosta	249	90.0 (10)	4.0 (9)	266	35.7 (29)	217	27.6 (19)	202	90.6 (23)
Menominee	76	*	*	93	*	71	*	68	*
Midland	323	84.8 (32)	11.1 (43)	332	32.8 (38)	296	31.8 (12)	256	95.7 (3)
Missaukee	82	*	*	86	*	57	*	71	*
Monroe	578	78.4 (50)	12.5 (47)	630	30.8 (50)	569	18.8 (41)	471	85.8 (43)
Montcalm	332	80.7 (46)	15.7 (57)	353	39.4 (15)	308	21.1 (35)	273	90.8 (21)
Montmorenc	47	*	*	50	*	41	*	38	*
Muskegon	1,326	86.3 (28)	6.7 (23)	1,425	38.8 (18)	1,238	21.4 (34)	1,113	79.8 (55)
Newaygo	330	81.2 (44)	10.6 (42)	352	38.6 (19)	197	31.0 (13)	289	91.3 (17)
Oakland	3,419	87.1 (23)	4.8 (15)	3,665	25.9 (59)	2,573	14.5 (57)	2,702	87.2 (36)

(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 PNNS & PedNSS

Table 6B

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Comparison of Maternal Behavioral Indicators by County

Comparison of Maternal Behavioral Indicators (2,3)									
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)
Oceana	173	74.6 (59)	17.3 (59)	193	38.3 (20)	173	20.2 (38)	155	75.5 (59)
Ogemaw	123	81.3 (43)	14.6 (52)	135	43.0 (4)	121	24.8 (25)	117	89.7 (28)
Ontonagon	13	*	*	15	*	13	*	12	*
Osceola	133	75.2 (57)	19.5 (61)	143	42.0 (6)	127	22.0 (32)	119	79.0 (57)
Oscoda	56	*	*	59	*	55	*	47	*
Otsego	150	94.7 (1)	0.7 (1)	162	32.1 (42)	142	33.8 (11)	116	87.1 (37)
Ottawa	1,022	90.4 (7)	3.6 (7)	1,121	31.2 (47)	804	26.1 (21)	758	78.4 (58)
Presque Is	47	*	*	48	*	43	*	38	*
Roscommon	117	87.2 (20)	6.0 (20)	124	46.8 (1)	113	23.0 (31)	105	87.6 (35)
Saginaw	1,280	76.6 (55)	9.4 (36)	1,372	31.2 (47)	1,183	14.8 (55)	1,045	84.6 (47)
Sanilac	182	82.4 (40)	9.3 (35)	206	37.4 (23)	151	51.0 (2)	161	83.9 (48)
Schoolcraf	45	*	*	47	*	44	*	42	*
Shiawassee	359	77.2 (54)	15.9 (58)	384	39.1 (16)	353	13.0 (59)	307	89.9 (26)
St Clair	705	67.9 (63)	22.4 (63)	766	36.8 (24)	639	17.2 (45)	613	86.9 (38)
St Joseph	418	75.1 (58)	13.6 (51)	464	34.1 (35)	428	16.6 (48)	381	89.8 (27)
Tuscola	341	77.7 (52)	14.7 (53)	351	36.2 (26)	309	25.2 (24)	266	92.9 (8)
Van Buren	420	83.6 (35)	11.9 (45)	468	37.6 (21)	342	16.7 (47)	363	88.4 (32)
Washtenaw	968	90.4 (7)	2.4 (3)	1,068	31.0 (49)	961	16.1 (49)	822	90.9 (20)
Wayne	13,876	83.8 (34)	4.4 (11)	14,750	22.9 (63)	10,125	18.1 (43)	10,528	86.1 (40)
Wexford	272	82.7 (39)	10.3 (40)	289	40.5 (11)	225	34.2 (10)	234	86.8 (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 PNNS & PedNSS

Table 6B

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Comparison of Maternal Behavioral Indicators by County

Michigan	50,875	84.3	6.8	54,591	29.4	42,983	19.1	40,941	87.4
National (Prior Year)	82,216	68.1	9.0	92,908	20.8	67,301	23.1	68,644	87.7

(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) 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 PNNS & PedNSS

Table 7B

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Comparison of Smoking Indicators by County

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)	Number	% (rank)
Alcona	40	*	42	*	19	*	32	*	42	*
Alger	23	*	28	*	11	*	21	*	28	*
Allegan	455	29.0 (14)	486	17.3 (18)	118	35.6 (13)	398	8.3 (16)	488	1.8 (17)
Alpena	138	49.3 (59)	137	25.5 (50)	54	*	117	12.0 (33)	137	2.2 (25)
Antrim	101	51.5 (62)	107	36.4 (62)	44	*	86	*	107	6.5 (59)
Arenac	103	49.5 (61)	112	25.9 (51)	43	*	93	*	112	6.3 (57)
Baraga	41	*	40	*	19	*	36	*	40	*
Barry	255	38.8 (38)	250	19.2 (25)	79	*	221	7.7 (14)	250	1.6 (15)
Bay	512	41.6 (50)	522	24.9 (46)	197	33.0 (16)	468	12.2 (35)	522	3.1 (38)
Benzie	75	*	83	*	32	*	65	*	83	*
Berrien	786	27.4 (12)	839	13.9 (10)	167	41.3 (10)	671	13.4 (42)	839	3.6 (43)
Branch	345	31.6 (20)	346	21.1 (29)	88	*	303	12.9 (37)	346	2.3 (27)
Calhoun	885	32.5 (21)	919	18.6 (22)	246	24.8 (25)	777	9.5 (25)	924	2.1 (23)
Cass	305	27.2 (10)	314	16.2 (14)	72	*	281	3.9 (3)	314	2.9 (36)
Charlevoix	142	38.0 (34)	139	19.4 (26)	48	*	117	11.1 (31)	139	2.2 (25)
Cheboygan	109	48.6 (58)	120	27.5 (55)	46	*	101	12.9 (37)	121	3.3 (40)
Chippewa	223	42.2 (53)	219	33.8 (60)	81	*	201	25.9 (59)	218	18.3 (63)
Clare	180	49.4 (60)	184	35.3 (61)	77	*	166	18.1 (51)	184	4.9 (53)

(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 PNNS & PedNSS

Table 7B

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Comparison of Smoking Indicators by County

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)
Clinton	160	39.4 (43)	172	18.0 (20)	50	*	127	9.4 (24)	173	1.2 (7)
Crawford	70	*	75	*	28	*	61	*	75	*
Delta	201	46.8 (57)	197	24.4 (45)	75	*	181	14.4 (47)	197	1.0 (5)
Dickinson	136	40.4 (46)	135	27.4 (54)	49	*	122	9.8 (28)	136	1.5 (13)
Eaton	265	40.8 (47)	270	18.9 (23)	86	*	227	9.7 (26)	270	1.5 (13)
Emmet	157	36.9 (32)	169	18.3 (21)	48	*	127	5.5 (6)	169	1.2 (7)
Genesee	2,326	28.5 (13)	2,551	16.3 (15)	553	35.8 (11)	1,927	8.6 (17)	2,551	2.3 (27)
Gladwin	136	41.9 (51)	141	27.0 (53)	49	*	120	15.0 (48)	141	2.8 (34)
Gogebic	72	*	70	*	28	*	63	*	70	*
Gr Travers	391	33.8 (23)	410	21.5 (33)	114	31.6 (19)	309	11.0 (30)	410	3.2 (39)
Gratiot	212	39.2 (41)	222	22.1 (37)	69	*	180	6.7 (10)	222	0.9 (4)
Hillsdale	228	43.4 (54)	243	28.8 (57)	80	*	198	19.2 (55)	243	7.0 (60)
Houghton	176	29.0 (14)	180	21.7 (36)	44	*	146	6.2 (9)	180	1.1 (6)
Huron	128	34.4 (26)	131	23.7 (40)	39	*	100	14.0 (44)	131	4.6 (52)
Ingham	1,557	17.4 (2)	1,644	11.9 (7)	216	28.7 (23)	1,315	5.9 (7)	1,645	3.6 (43)
Ionia	328	37.8 (33)	333	20.7 (28)	104	29.8 (22)	280	8.9 (21)	333	2.1 (23)
Iosco	177	53.7 (63)	184	39.1 (63)	81	*	161	23.0 (58)	184	2.7 (33)
Iron	60	*	53	*	25	*	57	*	53	*
Isabella	353	38.2 (35)	364	21.4 (32)	111	45.9 (7)	314	14.0 (44)	365	3.8 (48)

(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 PNNS & PedNSS

Table 7B

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Comparison of Smoking Indicators by County

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)
Jackson	982	38.2 (35)	1,007	25.9 (51)	321	26.5 (24)	879	10.7 (29)	1,007	2.3 (27)
Kalamazoo	1,333	25.4 (9)	1,339	14.3 (11)	270	35.6 (13)	1,168	8.7 (19)	1,341	1.4 (11)
Kalkaska	97	*	99	*	47	*	88	*	99	*
Kent	3,421	19.6 (4)	3,588	9.1 (3)	529	44.0 (9)	2,950	6.0 (8)	3,590	1.8 (17)
Lake	43	*	47	*	27	*	42	*	47	*
Lapeer	402	30.3 (18)	408	12.0 (8)	94	*	336	3.0 (1)	407	0.7 (3)
Leelanau	38	*	39	*	6	*	24	*	39	*
Lenawee	419	39.1 (40)	446	17.5 (19)	130	48.5 (2)	351	9.1 (23)	446	3.6 (43)
Livingston	338	34.6 (27)	358	19.0 (24)	89	*	248	6.9 (12)	358	3.4 (42)
Luce	54	*	53	*	17	*	49	*	53	*
Mackinac	29	*	30	*	10	*	26	*	30	*
Macomb	3,063	21.4 (5)	3,262	10.2 (4)	496	46.8 (3)	2,488	7.7 (14)	3,263	1.9 (20)
Manistee	100	34.0 (24)	108	21.3 (30)	32	*	86	*	108	2.8 (34)
Marquette	265	40.0 (44)	267	25.1 (47)	86	*	216	9.7 (26)	266	1.9 (20)
Mason	128	29.7 (17)	134	22.4 (38)	32	*	115	8.7 (19)	134	3.7 (46)
Mecosta	239	38.9 (39)	250	24.0 (42)	77	*	202	15.8 (49)	250	4.0 (51)
Menominee	82	*	78	*	26	*	68	*	78	*
Midland	296	31.1 (19)	321	21.5 (33)	77	*	256	8.6 (17)	321	2.5 (30)
Missaukee	77	*	82	*	17	*	71	*	82	*

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

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

* 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 PNNS & PedNSS

Table 7B

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Comparison of Smoking Indicators by County

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)
Monroe	571	38.4 (37)	579	24.2 (43)	162	31.5 (20)	471	13.4 (42)	580	1.9 (20)
Montcalm	313	43.8 (55)	337	25.2 (48)	115	35.7 (12)	273	17.2 (50)	337	3.9 (49)
Montmorenc	41	*	49	*	21	*	38	*	49	*
Muskegon	1,279	33.2 (22)	1,345	21.3 (30)	360	32.5 (17)	1,114	13.1 (40)	1,350	5.8 (56)
Newaygo	327	35.5 (31)	333	16.8 (16)	96	*	289	14.2 (46)	333	1.2 (7)
Oakland	3,315	14.7 (1)	3,475	6.4 (1)	376	45.2 (8)	2,706	5.4 (5)	3,476	1.8 (17)
Oceana	173	27.2 (10)	181	17.1 (17)	38	*	155	9.0 (22)	182	0.5 (1)
Ogemaw	123	41.5 (49)	125	28.0 (56)	45	*	117	19.7 (57)	125	6.4 (58)
Ontonagon	13	*	13	*	4	*	12	*	13	*
Osceola	127	45.7 (56)	132	30.3 (58)	49	*	119	26.1 (60)	132	5.3 (54)
Oscoda	56	*	56	*	24	*	47	*	56	*
Otsego	143	42.0 (52)	149	24.2 (43)	42	*	116	18.1 (51)	149	9.4 (62)
Ottawa	970	23.5 (7)	1,044	11.1 (5)	202	46.5 (5)	763	4.3 (4)	1,045	1.2 (7)
Presque Is	43	*	47	*	17	*	38	*	47	*
Roscommon	115	40.9 (48)	119	31.1 (59)	41	*	105	19.0 (54)	119	8.4 (61)
Saginaw	1,187	34.1 (25)	1,293	14.9 (12)	340	46.8 (3)	1,045	11.8 (32)	1,295	2.6 (31)
Sanilac	181	29.3 (16)	188	16.0 (13)	45	*	163	6.7 (10)	188	0.5 (1)
Schoolcraf	44	*	45	*	21	*	42	*	45	*
Shiawassee	355	39.2 (41)	363	22.9 (39)	121	30.6 (21)	307	18.6 (53)	362	3.3 (40)

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

(2) Excludes records with unknown data or errors.

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

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

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

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

WIC PNNS & PedNSS

Table 7B

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Comparison of Smoking Indicators by County

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)	Number	% (rank)
St Clair	678	40.1 (45)	707	23.8 (41)	225	32.4 (18)	613	19.6 (56)	707	5.5 (55)
St Joseph	430	34.7 (28)	432	19.4 (26)	120	35.0 (15)	381	12.9 (37)	432	3.0 (37)
Tuscola	313	35.1 (29)	342	21.6 (35)	93	*	266	13.2 (41)	343	2.6 (31)
Van Buren	413	22.8 (6)	422	13.7 (9)	88	*	363	3.6 (2)	421	1.4 (11)
Washtenaw	965	23.9 (8)	975	11.4 (6)	166	46.4 (6)	823	7.2 (13)	975	1.6 (15)
Wayne	12,844	17.6 (3)	14,034	7.0 (2)	1,769	54.7 (1)	10,544	12.0 (33)	14,037	3.9 (49)
Wexford	266	35.3 (30)	270	25.2 (48)	78	*	234	12.8 (36)	270	3.7 (46)
Michigan	48,601	26.1	51,441	13.9	10,331	38.9	40,995	10.4	51,462	3.0
National (Prior Year)	79,888	27.4	86,864	13.9	19,045	38.3	72,847	9.3	87,350	2.8

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

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

WIC PNNS & PedNSS

Table 8B

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Comparison of Infant Health Indicators by County

Comparison of Infant Health Indicators (2,3)									
County	Birthweight			Preterm		Full Term LBW		Ever Breastfed	
	Low (4)		High (5)	(6)		(7)			
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Alcona	39	*	*	40	*	38	*	39	*
Alger	27	*	*	28	*	25	*	27	*
Allegan	468	9.0 (43)	8.3 (30)	475	13.5 (55)	399	4.0 (42)	470	78.5 (27)
Alpena	133	6.0 (8)	9.8 (46)	135	8.1 (11)	123	1.6 (5)	133	72.2 (46)
Antrim	96	*	*	100	8.0 (8)	86	*	101	77.2 (33)
Arenac	102	8.8 (41)	8.8 (37)	106	9.4 (22)	92	*	102	67.6 (53)
Baraga	39	*	*	39	*	33	*	38	*
Barry	239	7.1 (17)	10.9 (53)	246	8.1 (11)	221	4.5 (47)	241	79.3 (21)
Bay	494	7.1 (17)	8.9 (39)	511	9.2 (21)	450	2.4 (11)	494	72.7 (43)
Benzie	80	*	*	81	*	68	*	80	*
Berrien	785	8.2 (32)	7.5 (23)	814	8.6 (16)	715	4.2 (43)	785	69.7 (50)
Branch	324	7.4 (21)	5.6 (9)	332	12.3 (48)	281	2.1 (7)	328	78.7 (23)
Calhoun	884	8.3 (35)	7.7 (25)	900	10.6 (33)	785	3.3 (28)	886	72.0 (47)
Cass	290	6.9 (13)	7.2 (19)	295	13.6 (56)	247	2.4 (11)	290	78.3 (28)
Charlevoix	117	6.8 (12)	6.0 (11)	134	6.7 (2)	109	2.8 (16)	132	82.6 (9)
Cheboygan	109	10.1 (49)	9.2 (42)	113	9.7 (27)	97	*	109	82.6 (9)
Chippewa	207	4.3 (2)	10.1 (48)	207	9.7 (27)	180	1.1 (3)	208	73.6 (41)
Clare	175	6.9 (13)	11.4 (56)	177	9.0 (17)	158	3.8 (34)	175	70.3 (49)
Clinton	169	7.7 (25)	8.3 (30)	168	11.9 (43)	147	2.7 (15)	169	84.6 (3)

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

(2) Excludes records with unknown data or errors.

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

(4) <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 PNNS & PedNSS

Table 8B

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Comparison of Infant Health Indicators by County

Comparison of Infant Health Indicators (2,3)									
County	Birthweight			Preterm		Full Term LBW		Ever Breastfed	
	Low (4)		High (5)	(6)		(7)			
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Crawford	65	*	*	74	*	53	*	65	*
Delta	181	6.6 (10)	11.0 (54)	186	9.1 (19)	164	3.0 (21)	181	82.9 (8)
Dickinson	130	6.9 (13)	8.5 (34)	132	9.1 (19)	116	2.6 (14)	130	72.3 (45)
Eaton	256	5.5 (6)	10.2 (50)	268	9.0 (17)	237	1.7 (6)	263	84.4 (4)
Emmet	158	10.1 (49)	10.1 (48)	164	8.5 (13)	144	5.6 (57)	161	82.6 (9)
Genesee	2,477	12.7 (62)	5.5 (7)	2,495	13.8 (58)	2,103	6.1 (59)	2,481	58.6 (61)
Gladwin	130	7.7 (25)	10.8 (52)	137	10.2 (31)	116	3.4 (31)	130	82.3 (13)
Gogebic	66	*	*	68	*	60	*	66	*
Gr Travers	395	8.4 (37)	11.9 (59)	402	9.5 (24)	356	2.2 (9)	395	85.3 (2)
Gratiot	210	10.5 (54)	7.1 (18)	217	14.7 (60)	179	3.9 (38)	210	78.6 (25)
Hillsdale	225	5.8 (7)	6.2 (13)	238	10.5 (32)	200	3.0 (21)	225	79.6 (19)
Houghton	162	4.3 (2)	8.6 (35)	169	7.1 (5)	145	2.8 (16)	163	86.5 (1)
Huron	121	6.6 (10)	16.5 (62)	125	8.0 (8)	112	3.6 (32)	121	80.2 (15)
Ingham	1,548	10.1 (49)	7.2 (19)	1,600	13.1 (53)	1,345	4.8 (53)	1,556	78.7 (23)
Ionia	320	9.1 (44)	5.3 (5)	325	11.7 (40)	283	2.1 (7)	321	84.1 (5)
Iosco	179	7.8 (29)	8.4 (33)	181	9.4 (22)	162	3.7 (33)	179	68.7 (52)
Iron	46	*	*	48	*	43	*	46	*
Isabella	339	7.7 (25)	8.8 (37)	352	8.0 (8)	313	4.8 (53)	340	75.0 (39)
Jackson	945	9.7 (46)	7.6 (24)	973	12.0 (45)	828	3.9 (38)	946	74.6 (40)

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

(2) Excludes records with unknown data or errors.

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

(4) <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 PNNS & PedNSS

Table 8B

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Comparison of Infant Health Indicators by County

Comparison of Infant Health Indicators (2,3)									
County	Birthweight			Preterm		Full Term LBW		Ever Breastfed	
	Low (4)		High (5)	(6)		(7)			
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Kalamazoo	1,251	9.2 (45)	9.0 (41)	1,288	12.8 (51)	1,084	3.2 (25)	1,262	73.5 (42)
Kalkaska	92	*	*	92	*	80	*	92	*
Kent	3,403	10.6 (55)	7.4 (22)	3,499	13.1 (53)	2,940	4.5 (47)	3,415	76.2 (36)
Lake	42	*	*	43	*	35	*	42	*
Lapeer	388	8.5 (38)	8.2 (28)	392	11.2 (38)	339	2.9 (19)	388	78.6 (25)
Leelanau	37	*	*	39	*	33	*	37	*
Lenawee	423	5.4 (5)	9.2 (42)	433	8.5 (13)	382	3.9 (38)	425	67.1 (55)
Livingston	346	10.1 (49)	11.6 (57)	351	12.0 (45)	305	4.3 (44)	346	78.3 (28)
Luce	53	*	*	52	*	47	*	53	*
Mackinac	30	*	*	30	*	28	*	30	*
Macomb	3,127	9.9 (48)	5.2 (3)	3,163	12.6 (50)	2,696	4.4 (46)	3,145	62.5 (59)
Manistee	104	3.8 (1)	16.3 (61)	105	6.7 (2)	97	*	104	77.9 (31)
Marquette	258	10.9 (57)	6.2 (13)	263	12.9 (52)	224	4.9 (56)	258	82.6 (9)
Mason	128	10.2 (53)	3.9 (1)	132	18.9 (63)	104	2.9 (19)	128	78.1 (30)
Mecosta	230	8.3 (35)	7.8 (26)	236	14.8 (61)	192	3.1 (23)	230	79.6 (19)
Menominee	76	*	*	76	*	66	*	76	*
Midland	303	6.9 (13)	8.3 (30)	314	11.1 (36)	267	2.2 (9)	303	76.9 (34)
Missaukee	71	*	*	80	*	66	*	71	*
Monroe	552	7.4 (21)	6.7 (15)	565	11.7 (40)	482	2.5 (13)	552	65.0 (57)

(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 PNNS & PedNSS

Table 8B

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Comparison of Infant Health Indicators by County

Comparison of Infant Health Indicators (2,3)									
County	Birthweight			Preterm		Full Term LBW		Ever Breastfed	
	Low (4)		High (5)	(6)		(7)			
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Montcalm	317	6.0 (8)	8.2 (28)	324	9.6 (26)	285	1.4 (4)	318	79.2 (22)
Montmorenc	46	*	*	46	*	38	*	46	*
Muskegon	1,281	11.4 (60)	5.5 (7)	1,292	15.8 (62)	1,053	4.5 (47)	1,282	65.1 (56)
Newaygo	314	7.3 (19)	6.7 (15)	321	12.5 (49)	275	3.3 (28)	314	76.8 (35)
Oakland	3,287	11.0 (58)	5.4 (6)	3,375	12.2 (47)	2,854	4.8 (53)	3,325	69.7 (50)
Oceana	175	7.4 (21)	6.9 (17)	173	6.9 (4)	160	3.8 (34)	174	79.9 (17)
Ogemaw	118	8.5 (38)	14.4 (60)	117	8.5 (13)	105	1.0 (2)	118	62.7 (58)
Ontonagon	13	*	*	13	*	13	*	13	*
Osceola	124	8.1 (31)	11.3 (55)	126	9.5 (24)	111	4.5 (47)	124	77.4 (32)
Oscoda	53	*	*	53	*	49	*	53	*
Otsego	114	8.8 (41)	6.1 (12)	145	6.2 (1)	106	3.8 (34)	141	83.7 (6)
Ottawa	990	9.8 (47)	9.6 (44)	1,028	11.9 (43)	873	3.9 (38)	999	80.0 (16)
Presque Is	47	*	*	46	*	41	*	47	*
Roscommon	115	8.7 (40)	9.6 (44)	116	7.8 (6)	107	4.7 (52)	115	75.7 (38)
Saginaw	1,249	10.6 (55)	5.8 (10)	1,255	11.1 (36)	1,100	4.3 (44)	1,250	59.0 (60)
Sanilac	184	4.9 (4)	10.3 (51)	188	11.7 (40)	162	0.6 (1)	184	54.9 (63)
Schoolcraf	41	*	*	42	*	35	*	41	*
Shiawassee	343	8.2 (32)	7.9 (27)	348	7.8 (6)	316	3.8 (34)	343	75.8 (37)
St Clair	673	7.6 (24)	8.9 (39)	687	10.8 (35)	598	3.3 (28)	673	71.6 (48)

(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 PNNS & PedNSS

Table 8B

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Comparison of Infant Health Indicators by County

Comparison of Infant Health Indicators (2,3)									
County	Birthweight			Preterm		Full Term LBW		Ever Breastfed	
	Low (4)		High (5)	(6)		(7)			
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
St Joseph	400	7.3 (19)	7.3 (21)	413	9.9 (29)	361	2.8 (16)	401	83.5 (7)
Tuscola	320	7.8 (29)	11.6 (57)	332	9.9 (29)	285	3.2 (25)	320	72.5 (44)
Van Buren	391	7.7 (25)	10.0 (47)	405	10.6 (33)	345	3.2 (25)	396	67.2 (54)
Washtenaw	934	11.1 (59)	5.2 (3)	956	13.7 (57)	810	4.6 (51)	911	81.3 (14)
Wayne	13,152	12.1 (61)	5.1 (2)	13,660	14.2 (59)	11,179	5.7 (58)	13,369	55.7 (62)
Wexford	257	8.2 (32)	8.6 (35)	261	11.5 (39)	224	3.1 (23)	257	79.8 (18)
Michigan	48,594	10.2	6.7	49,968	12.5	42,176	4.5	48,971	67.7
National (Prior Year)	87,958	9.4	6.8	85,742	11.3	73,871	4.1	88,626	58.4

(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 PNNS & PedNSS

Table 3B

2016 - 2018 Pregnancy Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Racial and Ethnic Distribution by County

Combined 3 Years

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	117	94.0	0.0	1.7	0.0	0.0	4.3	0.0
Alger	95	*	*	*	*	*	*	*
Allegan	3,245	60.8	3.0	29.2	0.1	3.0	2.7	1.3
Alpena	513	94.0	0.6	2.5	0.0	0.4	1.9	0.6
Antrim	346	93.9	0.3	1.7	0.3	0.0	3.5	0.3
Arenac	313	95.2	0.0	1.9	0.3	0.3	1.9	0.3
Baraga	144	51.4	0.0	0.7	43.1	0.0	4.2	0.7
Barry	804	93.9	0.4	3.7	0.1	0.6	1.1	0.1
Bay	1,821	80.5	2.5	10.1	0.1	0.3	5.7	0.9
Benzie	283	89.0	0.4	5.7	0.7	0.7	2.1	1.4
Berrien	2,857	49.6	36.7	7.5	0.3	0.8	3.9	1.3
Branch	1,083	86.1	0.4	10.2	0.0	0.5	2.4	0.5
Calhoun	3,157	62.0	19.0	6.7	0.2	5.5	6.1	0.6
Cass	1,146	61.4	6.6	23.6	0.3	0.7	6.3	1.0
Charlevoix	436	85.1	0.9	4.4	0.2	0.5	8.9	0.0
Cheboygan	386	83.7	1.0	2.6	0.0	0.8	11.9	0.0
Chippewa	712	57.9	0.4	2.2	17.3	0.6	21.3	0.3
Clare	649	91.8	0.2	4.0	0.2	0.2	2.6	1.1
Clinton	601	83.5	0.8	13.0	0.0	0.2	2.3	0.2
Crawford	252	94.4	0.0	0.8	0.4	0.4	3.6	0.4
Delta	705	85.4	0.1	2.4	0.4	1.0	10.2	0.4
Dickinson	464	92.7	0.2	1.7	0.4	0.6	3.4	0.9
Eaton	945	86.8	4.7	5.4	0.1	0.3	2.4	0.3

(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 PNNS & PedNSS

Table 3B

2016 - 2018 Pregnancy Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Racial and Ethnic Distribution by County

Combined 3 Years

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 %
Emmet	548	88.0	1.3	2.0	2.2	0.4	6.2	0.0
Genesee	8,730	47.8	39.9	4.9	0.1	0.4	6.4	0.5
Gladwin	451	96.0	0.2	2.0	0.0	0.0	1.6	0.2
Gogebic	262	84.7	1.1	2.3	7.6	0.4	2.7	1.1
Gr Travers	1,455	85.6	1.1	7.2	1.2	1.0	3.2	0.6
Gratiot	701	86.7	0.3	11.3	0.0	0.3	1.3	0.1
Hillsdale	882	92.4	0.3	2.6	0.0	0.2	2.9	1.5
Houghton	577	89.3	1.2	1.6	0.0	4.5	2.8	0.7
Huron	502	93.6	0.2	4.0	0.4	0.0	1.2	0.6
Ingham	5,498	43.8	26.5	15.3	0.2	5.9	7.6	0.6
Ionia	1,172	88.1	0.1	9.0	0.0	0.2	2.6	0.0
Iosco	547	90.9	0.4	2.7	0.4	0.0	5.5	0.2
Iron	210	92.9	0.5	2.4	0.0	0.0	2.9	1.4
Isabella	1,171	81.0	4.3	4.5	2.5	2.3	5.3	0.1
Jackson	3,304	72.7	14.2	5.6	0.1	0.6	6.5	0.3
Kalamazoo	4,709	48.5	33.6	9.6	0.1	1.1	6.6	0.5
Kalkaska	302	91.7	0.0	2.6	0.3	1.0	4.0	0.3
Kent	12,070	37.3	24.6	28.1	0.2	4.2	5.0	0.5
Lake	178	69.1	16.9	7.3	0.0	0.0	6.2	0.6
Lapeer	1,312	80.3	0.4	13.7	0.2	0.3	4.8	0.4
Leelanau	147	59.9	1.4	23.1	6.8	2.0	4.8	2.0
Lenawee	1,571	75.7	1.7	16.5	0.0	0.1	4.9	1.0
Livingston	1,184	90.8	0.5	3.8	0.3	1.6	2.2	0.8
Luce	146	83.6	0.0	2.1	0.7	0.0	13.7	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 PNNS & PedNSS

Table 3B

2016 - 2018 Pregnancy Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Racial and Ethnic Distribution by County

Combined 3 Years

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 %
Mackinac	122	46.7	1.6	3.3	1.6	0.0	46.7	0.0
Macomb	10,878	57.9	27.4	4.4	0.1	5.5	4.4	0.4
Manistee	382	79.3	1.3	7.9	1.8	0.5	8.9	0.3
Marquette	875	84.8	0.6	3.8	1.1	0.5	8.6	0.7
Mason	496	85.1	0.8	10.7	0.0	0.0	3.4	0.0
Mecosta	800	88.8	3.6	2.9	0.4	0.4	3.6	0.4
Menominee	309	68.6	1.0	7.1	10.7	0.0	9.4	3.2
Midland	1,140	92.9	0.7	2.0	0.1	1.1	2.9	0.4
Missaukee	245	94.3	0.4	4.5	0.4	0.0	0.4	0.0
Monroe	1,980	81.8	6.4	6.6	0.1	0.4	4.1	0.7
Montcalm	1,096	93.1	0.4	4.1	0.2	0.1	1.8	0.4
Montmorenc	140	96.4	0.0	2.1	0.7	0.0	0.0	0.7
Muskegon	4,551	56.6	27.5	8.5	0.3	0.4	6.4	0.3
Newaygo	1,111	81.9	0.2	14.0	0.1	0.6	2.5	0.6
Oakland	11,687	41.8	41.0	10.9	0.1	2.2	3.6	0.4
Oceana	629	57.1	0.3	39.4	0.2	0.0	2.1	1.0
Ogemaw	455	91.4	0.4	3.3	0.2	0.0	4.0	0.7
Ontonagon	54	*	*	*	*	*	*	*
Osceola	428	94.2	1.2	1.9	0.7	0.0	1.6	0.5
Oscoda	161	92.5	0.0	3.1	0.0	0.6	3.1	0.6
Otsego	551	94.6	0.5	2.2	0.0	0.9	1.8	0.0
Ottawa	2,017	70.0	2.8	19.5	0.0	2.0	4.7	0.9
Presque Is	148	91.2	1.4	1.4	0.0	0.7	5.4	0.0
Roscommon	393	90.6	0.5	2.8	0.0	0.8	4.3	1.0

(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 PNNS & PedNSS

Table 3B

2016 - 2018 Pregnancy Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Racial and Ethnic Distribution by County

Combined 3 Years

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 %
Saginaw	4,367	37.3	42.1	15.5	0.0	0.4	4.0	0.5
Sanilac	683	93.7	0.1	4.4	0.0	0.0	1.5	0.3
Schoolcraf	175	78.3	0.6	0.6	5.1	0.0	15.4	0.0
Shiawassee	1,199	88.3	0.4	6.2	0.2	0.3	4.3	0.3
St Clair	2,470	82.0	5.7	5.9	0.1	0.4	5.3	0.6
St Joseph	1,485	72.1	3.5	19.5	0.1	0.2	3.7	0.9
Tuscola	1,027	92.3	0.5	4.5	0.0	0.2	2.3	0.2
Van Buren	1,545	60.1	4.1	27.6	0.3	0.6	3.9	3.4
Washtenaw	3,575	37.3	39.0	10.0	0.2	3.4	9.3	0.8
Wayne	46,219	27.9	57.6	9.2	0.1	2.6	2.4	0.3
Wexford	944	93.2	0.1	2.6	0.0	0.3	3.4	0.3
Michigan	173,232	52.4	29.7	10.5	0.3	2.2	4.3	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 PNNS & PedNSS

Table 4B

2016 - 2018 Pregnancy Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Age Distribution by County

Combined 3 Years

Comparison of Age Distribution ⁽²⁾								
County	Number Included in Analysis	< 15 Years %	15 - 17 Years %	18 - 19 Years %	20 - 29 Years %	30 - 39 Years %	>= 40 Years %	Unknown %
Alcona	117	0.0	1.7	9.4	59.8	28.2	0.9	0.0
Alger	95	*	*	*	*	*	*	*
Allegan	3,245	0.2	3.7	8.3	62.8	23.3	1.7	0.0
Alpena	513	0.0	3.3	9.9	63.0	22.2	1.6	0.0
Antrim	346	0.0	2.0	10.7	62.1	24.0	1.2	0.0
Arenac	313	0.0	3.5	9.3	65.5	20.1	1.6	0.0
Baraga	144	0.0	3.5	10.4	61.1	22.9	2.1	0.0
Barry	804	0.1	3.5	9.8	66.0	19.4	1.1	0.0
Bay	1,821	0.1	2.9	8.9	64.5	22.3	1.3	0.0
Benzie	283	0.0	2.5	8.1	64.3	23.0	1.8	0.4
Berrien	2,857	0.3	4.2	9.7	63.2	20.9	1.3	0.4
Branch	1,083	0.0	2.8	8.8	62.7	23.4	2.3	0.1
Calhoun	3,157	0.1	3.3	9.1	64.2	21.7	1.5	0.2
Cass	1,146	0.2	3.5	9.2	62.2	23.2	1.7	0.0
Charlevoix	436	0.0	1.1	8.9	64.9	23.4	1.6	0.0
Cheboygan	386	0.3	1.3	6.2	71.0	20.7	0.5	0.0
Chippewa	712	0.1	1.7	7.6	63.8	25.4	1.4	0.0
Clare	649	0.3	2.9	11.2	67.2	16.5	1.8	0.0
Clinton	601	0.0	2.8	10.6	62.2	22.0	2.3	0.0
Crawford	252	0.0	3.2	9.1	62.3	25.4	0.0	0.0
Delta	705	0.0	2.6	8.7	61.0	26.7	1.1	0.0
Dickinson	464	0.0	3.2	8.6	62.3	24.4	1.3	0.2
Eaton	945	0.2	1.7	9.3	62.8	24.6	1.0	0.5
Emmet	548	0.0	0.9	9.7	64.1	24.5	0.9	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 PNNS & PedNSS

Table 4B

2016 - 2018 Pregnancy Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Age Distribution by County

Combined 3 Years

Comparison of Age Distribution ⁽²⁾								
County	Number Included in Analysis	< 15 Years %	15 - 17 Years %	18 - 19 Years %	20 - 29 Years %	30 - 39 Years %	>= 40 Years %	Unknown %
Genesee	8,730	0.3	2.6	8.9	66.0	21.0	1.2	0.0
Gladwin	451	0.0	2.7	9.5	68.5	18.4	0.4	0.4
Gogebic	262	0.0	2.3	8.8	66.0	22.5	0.4	0.0
Gr Travers	1,455	0.0	3.0	7.2	62.1	25.6	1.9	0.3
Gratiot	701	0.1	2.1	7.4	65.5	23.3	1.6	0.0
Hillsdale	882	0.1	3.2	10.7	66.9	18.3	0.9	0.0
Houghton	577	0.0	2.4	7.6	60.1	27.0	2.6	0.2
Huron	502	0.0	2.4	9.4	62.2	25.1	0.8	0.2
Ingham	5,498	0.3	3.3	7.7	61.6	25.3	1.8	0.1
Ionia	1,172	0.1	3.2	8.8	69.4	17.7	0.8	0.0
Iosco	547	0.0	4.6	8.2	65.4	21.4	0.4	0.0
Iron	210	0.0	1.9	10.5	59.5	25.7	2.4	0.0
Isabella	1,171	0.0	2.8	7.9	65.3	23.0	0.9	0.2
Jackson	3,304	0.2	3.5	9.1	66.9	19.3	0.8	0.2
Kalamazoo	4,709	0.2	3.9	9.9	62.5	21.8	1.6	0.1
Kalkaska	302	0.0	2.3	6.3	71.9	18.9	0.7	0.0
Kent	12,070	0.2	3.2	7.7	60.0	26.4	2.0	0.6
Lake	178	0.0	3.4	12.4	66.9	15.7	1.7	0.0
Lapeer	1,312	0.2	2.7	8.2	64.9	22.5	1.5	0.1
Leelanau	147	0.0	1.4	7.5	59.9	28.6	1.4	1.4
Lenawee	1,571	0.0	3.2	10.2	63.7	21.8	1.1	0.0
Livingston	1,184	0.0	1.6	6.1	62.1	28.7	1.5	0.0
Luce	146	0.0	4.1	6.2	70.5	19.2	0.0	0.0
Mackinac	122	0.0	2.5	2.5	68.0	25.4	1.6	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 PNNS & PedNSS

Table 4B

2016 - 2018 Pregnancy Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Age Distribution by County

Combined 3 Years

Comparison of Age Distribution ⁽²⁾								
County	Number Included in Analysis	< 15 Years %	15 - 17 Years %	18 - 19 Years %	20 - 29 Years %	30 - 39 Years %	>= 40 Years %	Unknown %
Macomb	10,878	0.1	1.5	5.1	62.0	29.0	2.4	0.0
Manistee	382	0.0	5.0	13.4	58.6	20.7	2.1	0.3
Marquette	875	0.1	3.9	6.7	60.5	27.8	1.0	0.0
Mason	496	0.2	3.8	5.8	71.4	18.1	0.6	0.0
Mecosta	800	0.0	3.4	9.9	68.9	17.0	0.9	0.0
Menominee	309	0.0	5.2	10.4	58.9	23.9	1.6	0.0
Midland	1,140	0.0	2.0	7.4	66.8	22.4	1.4	0.1
Missaukee	245	0.0	3.3	9.4	68.2	16.7	2.4	0.0
Monroe	1,980	0.1	3.4	10.2	63.0	22.1	1.3	0.1
Montcalm	1,096	0.2	2.6	11.3	68.2	16.6	1.1	0.0
Montmorenc	140	0.0	2.1	7.9	68.6	21.4	0.0	0.0
Muskegon	4,551	0.2	3.7	9.1	65.3	20.3	1.4	0.0
Newaygo	1,111	0.1	3.2	9.1	65.3	20.4	1.9	0.0
Oakland	11,687	0.1	2.1	6.8	60.7	28.0	2.3	0.1
Oceana	629	0.2	3.5	8.1	66.3	20.5	1.4	0.0
Ogemaw	455	0.0	2.6	7.7	68.4	20.0	1.3	0.0
Ontonagon	54	*	*	*	*	*	*	*
Osceola	428	0.2	5.1	11.4	59.3	22.4	1.4	0.0
Oscoda	161	0.0	2.5	9.3	76.4	11.8	0.0	0.0
Otsego	551	0.2	3.1	8.9	65.2	22.3	0.4	0.0
Ottawa	2,017	0.1	2.1	6.6	62.4	26.7	1.9	0.0
Presque Is	148	0.0	2.0	9.5	64.2	20.9	3.4	0.0
Roscommon	393	0.0	2.8	10.2	64.1	22.4	0.5	0.0
Saginaw	4,367	0.3	3.6	8.9	65.0	20.8	1.4	0.0

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

(2) Excludes data with errors.

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

WIC PNNS & PedNSS

Table 4B

2016 - 2018 Pregnancy Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Age Distribution by County

Combined 3 Years

Comparison of Age Distribution ⁽²⁾								
County	Number Included in Analysis	< 15 Years %	15 - 17 Years %	18 - 19 Years %	20 - 29 Years %	30 - 39 Years %	>= 40 Years %	Unknown %
Sanilac	683	0.0	5.0	8.6	61.3	24.2	0.9	0.0
Schoolcraf	175	0.6	2.9	9.1	65.1	22.3	0.0	0.0
Shiawassee	1,199	0.3	2.8	10.1	69.0	16.9	1.0	0.0
St Clair	2,470	0.2	3.3	8.6	64.5	22.0	1.4	0.0
St Joseph	1,485	0.1	4.0	10.8	64.8	18.9	1.3	0.0
Tuscola	1,027	0.2	3.1	8.7	65.2	21.3	1.4	0.1
Van Buren	1,545	0.1	3.8	9.3	62.1	22.8	1.9	0.1
Washtenaw	3,575	0.1	2.7	6.2	60.5	27.8	2.6	0.1
Wayne	46,219	0.1	2.5	6.6	62.2	26.0	2.4	0.1
Wexford	944	0.0	3.4	8.4	66.8	20.9	0.5	0.0
Michigan	173,232	0.1	2.8	7.8	63.0	24.3	1.9	0.1

(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 PNNS & PedNSS

Table 5B

2016 - 2018 Pregnancy Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Maternal Health Indicators by County

Combined 3 Years

Comparison of Maternal Health Indicators ^(2,3)														
County	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	86	*	*	28	*	*	19	*	31	*	112	5.4 (14)	112	8.9 (18)
Alger	77	*	*	35	*	*	8	*	24	*	91	*	90	*
Allegan	2,633	4.5 (48)	60.0 (57)	1,492	21.4 (62)	47.1 (4)	444	51.4 (32)	641	39.9 (46)	2,920	8.5 (72)	2,925	10.5 (34)
Alpena	481	3.5 (14)	57.4 (31)	398	20.6 (53)	51.8 (33)	73	*	106	29.2 (22)	473	4.2 (2)	473	7.2 (9)
Antrim	254	6.7 (77)	53.9 (9)	117	24.8 (68)	53.0 (48)	35	*	51	*	319	6.6 (35)	321	7.2 (9)
Arenac	222	4.5 (48)	50.9 (2)	139	16.5 (14)	52.5 (41)	52	*	40	*	301	6.0 (21)	301	10.0 (26)
Baraga	133	4.5 (48)	54.9 (16)	76	*	*	16	*	33	*	129	7.0 (44)	129	10.9 (37)
Barry	511	6.3 (74)	57.3 (30)	184	14.1 (3)	55.4 (67)	103	34.0 (7)	165	18.2 (5)	735	7.9 (60)	736	13.2 (69)
Bay	1,509	4.2 (36)	59.0 (48)	1,129	19.4 (44)	50.9 (30)	259	37.8 (13)	236	23.3 (12)	1,703	7.6 (55)	1,703	10.1 (28)
Benzie	264	3.4 (11)	57.2 (27)	202	20.8 (57)	50.5 (21)	36	*	34	*	262	6.5 (34)	262	7.3 (11)
Berrien	2,443	3.8 (20)	59.6 (52)	1,748	17.6 (25)	55.2 (65)	457	47.5 (25)	503	35.8 (35)	2,575	6.3 (28)	2,575	11.4 (48)
Branch	842	5.3 (66)	60.9 (69)	450	15.1 (5)	54.4 (60)	155	12.9 (1)	154	23.4 (13)	978	7.9 (60)	978	6.5 (4)
Calhoun	2,572	3.4 (11)	58.5 (43)	1,442	19.9 (49)	52.8 (45)	434	52.1 (34)	570	36.8 (37)	2,888	6.8 (40)	2,886	8.8 (17)
Cass	972	3.5 (14)	60.3 (63)	579	17.6 (25)	53.2 (52)	135	44.4 (24)	145	29.7 (23)	1,033	6.3 (28)	1,032	11.8 (53)
Charlevoix	354	4.0 (27)	54.2 (13)	213	19.7 (45)	54.9 (64)	56	*	71	*	415	6.7 (37)	416	7.5 (12)
Cheboygan	360	5.3 (66)	58.6 (44)	248	18.1 (31)	50.4 (19)	68	*	55	*	368	7.1 (46)	368	6.5 (4)
Chippewa	509	2.9 (7)	62.3 (72)	160	20.0 (51)	53.1 (50)	87	*	103	31.1 (26)	647	8.0 (64)	646	12.2 (56)

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

(2) Excludes records with unknown data or errors.

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

(4) 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 PNNS & PedNSS

Table 5B

2016 - 2018 Pregnancy Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Maternal Health Indicators by County

Combined 3 Years

Comparison of Maternal Health Indicators ^(2,3)														
County	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	612	5.1 (63)	62.3 (72)	486	18.3 (34)	51.6 (32)	90	*	81	*	603	6.8 (40)	603	6.3 (3)
Clinton	551	4.7 (52)	59.9 (54)	437	16.7 (18)	54.5 (61)	88	*	162	21.0 (8)	559	6.6 (35)	561	12.7 (63)
Crawford	227	4.8 (56)	59.9 (54)	177	16.4 (13)	62.1 (71)	27	*	57	*	237	5.1 (11)	238	9.2 (19)
Delta	494	4.0 (27)	54.0 (10)	253	20.6 (53)	45.5 (3)	79	*	145	30.3 (25)	630	13.5 (80)	630	11.1 (42)
Dickinson	386	4.1 (33)	51.6 (3)	176	13.1 (1)	48.9 (13)	52	*	94	*	416	3.4 (1)	415	12.3 (57)
Eaton	648	4.3 (39)	57.6 (32)	416	15.9 (10)	54.6 (62)	163	38.7 (16)	210	22.4 (11)	872	8.9 (76)	874	15.8 (78)
Emmet	466	3.9 (24)	52.6 (7)	228	20.6 (53)	47.8 (7)	91	*	78	*	520	6.2 (25)	521	9.4 (20)
Genesee	7,189	5.0 (58)	57.0 (25)	3,296	17.7 (28)	52.4 (40)	1,542	49.8 (30)	1,392	34.3 (32)	8,158	7.7 (56)	8,160	15.0 (76)
Gladwin	408	3.9 (24)	61.0 (70)	287	13.6 (2)	53.0 (48)	50	*	77	*	426	4.2 (2)	427	12.6 (61)
Gogebic	196	4.6 (51)	54.1 (12)	92	*	*	32	*	63	*	226	8.4 (71)	226	6.2 (2)
Gr Travers	1,313	4.7 (52)	51.8 (4)	1,033	16.9 (20)	52.5 (41)	208	60.6 (39)	209	45.5 (50)	1,381	6.9 (43)	1,383	9.5 (21)
Gratiot	617	6.5 (76)	57.2 (27)	394	19.3 (43)	54.3 (58)	97	*	132	12.9 (1)	652	6.7 (37)	652	13.5 (72)
Hillsdale	771	5.8 (72)	58.4 (42)	514	18.5 (37)	50.2 (17)	121	38.0 (14)	156	25.6 (14)	814	4.3 (5)	815	6.5 (4)
Houghton	388	4.4 (43)	47.2 (1)	171	14.6 (4)	52.0 (35)	85	*	165	16.4 (3)	538	5.6 (17)	539	11.7 (51)
Huron	412	3.9 (24)	65.3 (77)	334	16.2 (12)	53.3 (54)	50	*	115	26.1 (16)	474	9.7 (78)	472	14.6 (75)
Ingham	4,703	5.0 (58)	58.7 (46)	3,614	18.1 (31)	52.9 (47)	897	42.9 (20)	955	31.3 (27)	5,123	6.0 (21)	5,125	9.6 (24)
Ionia	849	4.8 (56)	57.8 (35)	607	15.2 (7)	53.9 (57)	185	22.2 (2)	273	15.4 (2)	1,065	6.3 (28)	1,063	13.9 (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 PNNS & PedNSS

Table 5B

2016 - 2018 Pregnancy Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Maternal Health Indicators by County

Combined 3 Years

Comparison of Maternal Health Indicators ^(2,3)														
County	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	452	5.3 (66)	60.2 (60)	245	17.6 (25)	50.6 (24)	76	*	103	36.9 (38)	515	4.7 (8)	515	8.0 (13)
Iron	150	4.0 (27)	56.7 (23)	25	*	*	26	*	36	*	181	5.5 (15)	182	15.9 (79)
Isabella	1,021	3.7 (17)	59.8 (53)	648	18.1 (31)	52.2 (38)	179	34.1 (8)	242	27.7 (21)	1,095	7.0 (44)	1,095	9.6 (24)
Jackson	2,450	5.9 (73)	59.4 (51)	1,364	16.5 (14)	52.5 (41)	484	49.6 (29)	610	42.8 (48)	3,041	5.9 (19)	3,041	10.9 (37)
Kalamazoo	3,888	4.0 (27)	59.2 (50)	2,254	18.0 (30)	54.3 (58)	612	48.2 (27)	1,009	39.0 (45)	4,280	8.0 (64)	4,283	9.5 (21)
Kalkaska	274	4.7 (52)	54.0 (10)	208	21.2 (61)	50.5 (21)	53	*	74	*	285	7.7 (56)	285	6.0 (1)
Kent	8,794	4.1 (33)	57.6 (32)	4,412	24.9 (69)	44.7 (2)	1,904	44.1 (23)	3,410	38.1 (42)	11,148	7.1 (46)	11,160	11.7 (51)
Lake	160	4.4 (43)	60.6 (65)	106	19.8 (46)	52.8 (45)	20	*	32	*	163	4.3 (5)	164	10.4 (31)
Lapeer	1,276	4.7 (52)	56.4 (22)	1,096	16.6 (17)	53.7 (55)	213	38.5 (15)	338	32.2 (29)	1,224	5.0 (10)	1,224	6.8 (8)
Leelanau	135	1.5 (2)	60.0 (57)	100	17.0 (22)	58.0 (69)	21	*	25	*	134	5.2 (13)	134	6.7 (7)
Lenawee	1,300	3.8 (20)	57.1 (26)	477	24.7 (67)	47.6 (6)	292	42.8 (19)	349	33.0 (30)	1,431	7.3 (49)	1,433	12.9 (66)
Livingston	1,095	5.6 (70)	52.5 (5)	742	15.1 (5)	53.1 (50)	205	30.2 (5)	388	17.3 (4)	1,085	10.2 (79)	1,088	12.6 (61)
Luce	138	3.6 (16)	69.6 (79)	73	*	*	16	*	33	*	136	7.4 (52)	137	10.2 (29)
Mackinac	122	0.8 (1)	59.0 (48)	107	25.2 (70)	50.5 (21)	13	*	23	*	113	8.0 (64)	113	15.0 (76)
Macomb	9,807	4.4 (43)	58.3 (41)	7,922	18.4 (35)	52.0 (35)	1,973	47.5 (25)	2,575	37.6 (40)	10,086	8.3 (70)	10,090	10.7 (35)
Manistee	337	5.0 (58)	60.2 (60)	170	16.5 (14)	51.2 (31)	68	*	99	*	358	7.8 (59)	358	9.5 (21)
Marquette	774	3.7 (17)	53.5 (8)	569	19.9 (49)	47.3 (5)	114	35.1 (10)	240	22.1 (10)	774	6.2 (25)	776	12.8 (65)

(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 PNNS & PedNSS

Table 5B

2016 - 2018 Pregnancy Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Maternal Health Indicators by County

Combined 3 Years

Comparison of Maternal Health Indicators ^(2,3)														
County	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	408	5.1 (63)	55.1 (17)	207	19.8 (46)	47.8 (7)	75	*	94	*	457	4.2 (2)	457	12.3 (57)
Mecosta	678	4.3 (39)	57.7 (34)	424	20.8 (57)	50.7 (26)	126	31.0 (6)	173	20.2 (7)	749	4.4 (7)	749	11.2 (44)
Menominee	198	2.0 (4)	52.5 (5)	100	20.0 (51)	50.0 (16)	40	*	61	*	260	7.3 (49)	260	10.4 (31)
Midland	982	3.3 (10)	57.9 (37)	447	22.6 (66)	50.3 (18)	159	34.6 (9)	376	31.9 (28)	1,078	5.5 (15)	1,079	11.3 (46)
Missaukee	230	4.3 (39)	60.4 (64)	187	18.7 (38)	50.8 (28)	31	*	53	*	233	4.7 (8)	233	11.6 (49)
Monroe	1,463	4.4 (43)	55.9 (20)	780	22.3 (63)	48.3 (10)	336	48.5 (28)	409	35.5 (34)	1,814	7.4 (52)	1,814	12.4 (59)
Montcalm	1,030	5.0 (58)	57.9 (37)	836	20.9 (59)	50.8 (28)	153	27.5 (3)	290	20.0 (6)	1,021	8.8 (75)	1,024	13.0 (68)
Montmorenc	131	7.6 (79)	54.2 (13)	93	*	*	21	*	30	*	129	6.2 (25)	129	11.6 (49)
Muskegon	4,254	4.2 (36)	59.9 (54)	3,205	20.7 (56)	49.8 (15)	582	43.6 (22)	462	30.1 (24)	4,204	8.1 (67)	4,208	13.2 (69)
Newaygo	1,020	3.8 (20)	62.5 (74)	672	22.3 (63)	48.5 (11)	147	43.5 (21)	208	34.1 (31)	1,044	9.1 (77)	1,047	12.9 (66)
Oakland	10,282	4.2 (36)	58.2 (40)	7,009	18.4 (35)	52.0 (35)	2,191	50.0 (31)	2,617	38.7 (43)	10,884	5.9 (19)	10,881	10.4 (31)
Oceana	531	2.4 (5)	65.5 (78)	385	19.0 (40)	50.6 (24)	76	*	108	26.9 (20)	563	6.4 (33)	563	12.4 (59)
Ogemaw	392	2.6 (6)	60.7 (67)	245	18.8 (39)	48.6 (12)	58	*	100	35.0 (33)	422	8.5 (72)	422	10.9 (37)
Ontonagon	47	*	*	23	*	*	6	*	11	*	46	*	46	*
Osceola	371	4.3 (39)	62.5 (74)	247	17.8 (29)	57.5 (68)	50	*	94	*	390	8.2 (69)	389	10.0 (26)
Oscoda	138	2.9 (7)	58.0 (39)	73	*	*	17	*	31	*	151	7.9 (60)	151	8.6 (16)
Otsego	342	4.4 (43)	56.1 (21)	166	17.5 (24)	51.8 (33)	90	*	95	*	510	5.1 (11)	510	8.2 (15)

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

(2) Excludes records with unknown data or errors.

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

(4) 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 PNNS & PedNSS

Table 5B

2016 - 2018 Pregnancy Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Maternal Health Indicators by County

Combined 3 Years

Comparison of Maternal Health Indicators ^(2,3)														
County	Prepregnancy BMI (4)			Weight Gain (5)			Anemia (Low Hb/Hct) (6)				Gestational Diabetes During Pregnancy		Hypertension During Pregnancy	
	Under- weight		Over- weight	< Ideal		> Ideal	3rd Trimester		Postpartum					
	Number	% (Rank)	% (Rank)	Number	% (Rank)	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Ottawa	1,625	3.7 (17)	56.9 (24)	1,008	16.0 (11)	50.7 (26)	265	52.8 (36)	507	38.7 (43)	1,858	7.4 (52)	1,859	10.8 (36)
Presque Is	127	1.6 (3)	60.6 (65)	94	*	*	25	*	34	*	143	6.3 (28)	143	11.2 (44)
Roscommon	362	5.0 (58)	58.6 (44)	168	15.5 (9)	59.5 (70)	45	*	76	*	363	7.2 (48)	365	13.2 (69)
Saginaw	3,683	3.8 (20)	62.5 (74)	2,661	22.3 (63)	48.1 (9)	708	54.9 (37)	1,389	43.3 (49)	4,049	6.0 (21)	4,047	11.3 (46)
Sanilac	360	6.4 (75)	57.2 (27)	124	15.3 (8)	53.2 (52)	97	*	131	26.0 (15)	622	6.1 (24)	623	11.1 (42)
Schoolcraf	125	5.6 (70)	55.2 (18)	42	*	*	13	*	39	*	165	8.5 (72)	165	17.0 (80)
Shiawassee	1,151	5.1 (63)	60.1 (59)	957	19.2 (42)	50.4 (19)	184	39.7 (17)	224	37.5 (39)	1,128	7.9 (60)	1,128	10.3 (30)
St Clair	2,330	5.5 (69)	55.7 (19)	1,939	16.7 (18)	54.8 (63)	356	51.4 (32)	495	36.0 (36)	2,226	6.8 (40)	2,236	12.1 (54)
St Joseph	1,159	4.0 (27)	60.8 (68)	709	17.2 (23)	55.3 (66)	195	35.9 (11)	265	26.8 (19)	1,352	6.3 (28)	1,354	14.2 (74)
Tuscola	786	6.7 (77)	54.5 (15)	573	16.9 (20)	53.8 (56)	136	27.9 (4)	176	21.6 (9)	981	8.1 (67)	981	11.0 (40)
Van Buren	1,319	3.2 (9)	62.2 (71)	700	39.7 (71)	30.9 (1)	178	36.5 (12)	256	26.2 (17)	1,362	7.3 (49)	1,362	8.1 (14)
Washtenaw	3,263	4.0 (27)	58.8 (47)	2,088	19.8 (46)	49.1 (14)	632	52.7 (35)	953	37.9 (41)	3,224	7.7 (56)	3,226	12.7 (63)
Wayne	36,969	4.1 (33)	60.2 (60)	24,892	19.0 (40)	52.2 (38)	8,468	55.2 (38)	8,550	42.5 (47)	43,445	6.7 (37)	43,458	11.0 (40)
Wexford	905	3.4 (11)	57.8 (35)	749	21.1 (60)	52.5 (41)	124	41.9 (18)	204	26.5 (18)	883	5.7 (18)	883	12.1 (54)
Michigan	143,426	4.3	58.8	93,551	19.2	51.4	28,148	47.8	35,457	36.4	160,515	7.0	160,593	11.2

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

(2) Excludes records with unknown data or errors.

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

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

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

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

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

WIC PNNS & PedNSS

Table 6B

2016 - 2018 Pregnancy Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Maternal Behavioral Indicators by County Combined 3 Years

Comparison of Maternal Behavioral Indicators ^(2,3)									
County	Medical Care			WIC Enrollment		Multivitamin Consumption			
	1st Trimester		No Care	1st Trimester		Prepregnancy ⁽⁴⁾		During Pregnancy ⁽⁵⁾	
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Alcona	113	85.8 (28)	8.0 (29)	116	31.9 (66)	108	24.1 (40)	92	*
Alger	91	*	*	95	*	81	*	76	*
Allegan	2,840	88.7 (12)	5.6 (16)	3,209	37.3 (46)	2,084	24.4 (39)	2,451	77.6 (78)
Alpena	470	86.2 (26)	8.5 (34)	505	38.2 (40)	474	27.2 (24)	424	92.9 (6)
Antrim	324	83.6 (37)	11.7 (50)	337	42.7 (16)	311	26.0 (30)	271	84.9 (61)
Arenac	298	79.9 (56)	14.8 (59)	310	35.2 (52)	278	24.5 (38)	253	85.8 (56)
Baraga	129	89.9 (9)	3.1 (4)	142	43.0 (15)	129	27.1 (25)	121	95.0 (2)
Barry	736	92.3 (3)	4.6 (11)	792	36.0 (49)	679	20.8 (52)	633	93.8 (3)
Bay	1,665	74.3 (71)	19.6 (75)	1,802	44.0 (13)	1,672	17.6 (62)	1,529	83.8 (65)
Benzie	258	77.9 (60)	15.9 (63)	276	34.4 (56)	160	30.6 (19)	207	83.6 (66)
Berrien	2,532	74.9 (67)	11.1 (46)	2,820	30.8 (68)	2,340	14.7 (75)	2,135	89.2 (34)
Branch	813	80.4 (54)	10.8 (45)	1,057	40.8 (25)	935	24.6 (36)	889	80.9 (71)
Calhoun	2,810	89.7 (10)	4.2 (10)	3,119	37.6 (45)	2,107	16.8 (70)	2,457	80.6 (73)
Cass	1,009	87.0 (20)	6.6 (21)	1,117	42.3 (18)	938	45.2 (4)	931	78.1 (77)
Charlevoix	417	84.2 (34)	10.3 (44)	432	37.7 (42)	404	29.7 (21)	341	90.0 (29)
Cheboygan	368	83.7 (36)	8.2 (32)	379	35.6 (51)	340	22.1 (45)	303	88.8 (42)
Chippewa	650	87.8 (17)	9.7 (42)	686	48.5 (3)	617	56.4 (2)	599	86.1 (55)
Clare	598	73.4 (72)	18.2 (72)	639	44.0 (13)	567	16.2 (71)	543	89.0 (40)
Clinton	558	87.6 (18)	4.8 (12)	592	32.8 (64)	511	23.7 (43)	450	89.1 (38)
Crawford	238	86.6 (22)	8.8 (35)	249	47.4 (5)	222	24.8 (34)	208	90.4 (26)
Delta	631	90.2 (7)	3.6 (7)	692	45.1 (10)	639	25.7 (32)	581	91.0 (17)

(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 PNNS & PedNSS

Table 6B

2016 - 2018 Pregnancy Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Maternal Behavioral Indicators by County Combined 3 Years

Comparison of Maternal Behavioral Indicators ^(2,3)									
County	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)
Dickinson	420	88.1 (14)	9.3 (39)	453	42.6 (17)	418	24.6 (36)	379	91.3 (13)
Eaton	858	90.2 (7)	2.3 (3)	939	28.6 (75)	815	21.3 (49)	708	93.2 (5)
Emmet	520	89.2 (11)	6.3 (19)	544	31.8 (67)	502	31.7 (14)	422	89.8 (32)
Genesee	8,067	86.2 (26)	3.3 (6)	8,565	25.0 (78)	6,429	11.2 (78)	6,236	89.1 (38)
Gladwin	427	74.5 (70)	20.4 (77)	450	47.1 (6)	411	26.8 (26)	381	89.2 (34)
Gogebic	223	92.4 (2)	1.3 (1)	257	34.2 (58)	229	31.0 (18)	199	93.5 (4)
Gr Travers	1,377	73.1 (73)	18.1 (70)	1,433	30.5 (70)	1,283	23.9 (41)	1,001	88.1 (47)
Gratiot	648	82.7 (44)	11.4 (48)	690	39.9 (27)	622	26.5 (29)	563	89.7 (33)
Hillsdale	809	76.5 (63)	13.3 (55)	867	39.1 (35)	776	18.3 (60)	695	83.5 (67)
Houghton	542	80.8 (53)	14.8 (59)	560	34.5 (55)	523	48.0 (3)	465	89.9 (31)
Huron	469	81.0 (51)	13.6 (57)	499	41.7 (20)	425	35.3 (8)	380	87.9 (48)
Ingham	5,075	82.5 (46)	9.1 (37)	5,434	29.5 (73)	4,753	10.1 (80)	4,139	90.2 (28)
Ionia	1,063	86.9 (21)	6.8 (22)	1,159	36.4 (48)	1,058	19.5 (59)	919	92.5 (9)
Iosco	508	86.6 (22)	8.1 (31)	539	38.4 (39)	491	20.2 (57)	444	90.5 (23)
Iron	188	80.9 (52)	17.0 (68)	210	57.6 (2)	182	64.8 (1)	187	85.0 (60)
Isabella	1,096	84.9 (30)	7.6 (26)	1,160	38.9 (36)	999	29.4 (22)	944	92.8 (7)
Jackson	3,009	85.8 (28)	7.5 (24)	3,254	40.7 (26)	2,899	14.9 (74)	2,710	85.4 (59)
Kalamazoo	4,243	78.7 (58)	12.4 (53)	4,635	39.5 (30)	4,234	16.2 (71)	3,788	81.5 (70)
Kalkaska	285	74.7 (69)	20.0 (76)	298	41.6 (21)	268	21.3 (49)	251	85.7 (58)
Kent	11,065	82.4 (50)	7.5 (24)	11,915	29.5 (73)	9,733	20.4 (56)	9,394	90.0 (29)
Lake	164	72.0 (75)	16.5 (65)	175	48.0 (4)	156	15.4 (73)	151	86.8 (50)

(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) 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 PNNS & PedNSS

Table 6B

2016 - 2018 Pregnancy Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Maternal Behavioral Indicators by County Combined 3 Years

Comparison of Maternal Behavioral Indicators ^(2,3)									
County	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)
Lapeer	1,220	83.0 (40)	11.6 (49)	1,291	34.3 (57)	1,197	18.3 (60)	1,027	88.8 (42)
Leelanau	133	71.4 (76)	16.5 (65)	145	29.7 (71)	101	34.7 (10)	97	*
Lenawee	1,422	86.3 (25)	6.3 (19)	1,546	29.7 (71)	1,367	21.8 (47)	1,173	88.5 (45)
Livingston	1,086	90.7 (5)	3.9 (9)	1,169	23.4 (80)	909	34.2 (11)	793	91.6 (11)
Luce	137	75.2 (66)	19.0 (73)	142	45.8 (8)	100	33.0 (12)	112	91.1 (15)
Mackinac	113	69.9 (78)	20.4 (77)	121	41.3 (23)	112	20.5 (55)	100	83.0 (69)
Macomb	9,970	88.0 (16)	4.9 (13)	10,675	25.9 (76)	7,171	20.9 (51)	7,983	90.5 (23)
Manistee	353	88.1 (14)	5.7 (17)	375	30.7 (69)	338	35.5 (7)	305	92.5 (9)
Marquette	770	88.4 (13)	5.8 (18)	857	39.2 (34)	621	36.6 (6)	686	92.6 (8)
Mason	455	80.2 (55)	13.0 (54)	491	39.3 (32)	444	30.2 (20)	410	91.2 (14)
Mecosta	747	84.5 (33)	8.8 (35)	782	37.7 (42)	481	31.8 (13)	627	90.3 (27)
Menominee	256	87.1 (19)	7.8 (27)	302	39.7 (28)	248	19.8 (58)	236	86.4 (53)
Midland	1,075	84.2 (34)	12.1 (52)	1,121	33.6 (61)	1,036	31.5 (15)	887	96.4 (1)
Missaukee	233	63.9 (80)	28.3 (80)	240	44.2 (12)	172	26.7 (27)	196	80.1 (75)
Monroe	1,807	82.8 (41)	9.7 (42)	1,953	33.1 (63)	1,772	17.3 (65)	1,519	86.8 (50)
Montcalm	1,015	84.8 (31)	9.6 (41)	1,073	37.7 (42)	935	20.7 (53)	846	91.1 (15)
Montmorenc	128	82.8 (41)	7.0 (23)	138	33.3 (62)	121	24.8 (34)	111	91.0 (17)
Muskegon	4,148	83.3 (38)	8.4 (33)	4,440	39.3 (32)	3,932	16.9 (68)	3,586	79.3 (76)
Newaygo	1,040	84.7 (32)	9.1 (37)	1,098	41.4 (22)	641	34.9 (9)	905	91.0 (17)
Oakland	10,801	86.5 (24)	5.2 (15)	11,519	25.5 (77)	8,387	17.5 (64)	8,631	89.2 (34)
Oceana	542	75.8 (65)	18.1 (70)	616	39.4 (31)	540	20.6 (54)	489	80.2 (74)

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(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 PNNS & PedNSS

Table 6B

2016 - 2018 Pregnancy Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Maternal Behavioral Indicators by County Combined 3 Years

Comparison of Maternal Behavioral Indicators ^(2,3)									
County	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)
Ogemaw	421	77.7 (61)	13.5 (56)	445	36.9 (47)	398	21.9 (46)	369	90.5 (23)
Ontonagon	45	*	*	54	*	51	*	46	*
Osceola	391	78.0 (59)	15.9 (63)	425	44.5 (11)	388	21.4 (48)	364	80.8 (72)
Oscoda	151	82.8 (41)	7.9 (28)	159	35.8 (50)	142	23.2 (44)	128	90.6 (22)
Otsego	514	92.6 (1)	1.6 (2)	545	33.8 (60)	497	26.6 (28)	424	88.9 (41)
Ottawa	1,820	91.2 (4)	3.7 (8)	1,990	33.9 (59)	1,425	28.1 (23)	1,415	83.5 (67)
Presque Is	143	83.2 (39)	11.2 (47)	147	45.6 (9)	139	25.9 (31)	122	91.0 (17)
Roscommon	361	82.5 (46)	8.0 (29)	385	47.0 (7)	348	23.9 (41)	325	89.2 (34)
Saginaw	4,000	74.9 (67)	11.8 (51)	4,325	35.0 (54)	3,657	12.1 (77)	3,440	83.9 (64)
Sanilac	610	82.5 (46)	9.3 (39)	672	35.1 (53)	448	43.1 (5)	531	84.2 (63)
Schoolcraf	166	82.5 (46)	13.9 (58)	170	59.4 (1)	161	31.1 (17)	152	88.2 (46)
Shiawassee	1,106	76.9 (62)	15.6 (62)	1,187	38.6 (38)	1,086	14.1 (76)	956	87.7 (49)
St Clair	2,234	66.3 (79)	24.9 (79)	2,449	39.6 (29)	2,124	16.9 (68)	2,015	86.4 (53)
St Joseph	1,315	72.7 (74)	18.0 (69)	1,455	37.8 (41)	1,328	17.3 (65)	1,192	88.6 (44)
Tuscola	973	71.4 (76)	19.3 (74)	1,014	38.8 (37)	917	25.5 (33)	792	91.5 (12)
Van Buren	1,351	79.8 (57)	15.2 (61)	1,517	41.0 (24)	1,182	10.9 (79)	1,198	84.7 (62)
Washtenaw	3,218	90.4 (6)	3.1 (4)	3,527	32.2 (65)	3,239	17.1 (67)	2,796	90.7 (21)
Wayne	42,985	82.7 (44)	5.1 (14)	45,431	23.9 (79)	31,872	17.6 (62)	33,532	86.6 (52)
Wexford	882	75.9 (64)	16.7 (67)	916	42.0 (19)	654	31.2 (16)	744	85.8 (56)
Michigan	158,822	83.2	7.7	170,497	30.9	133,582	19.4	131,162	87.3

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

(2) Excludes records with unknown data or errors.

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

(4) 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 PNNS & PedNSS

Table 7B

2016 - 2018 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)	Number	% (rank)
Alcona	109	50.5 (71)	112	32.1 (71)	45	*	92	*	112	3.6 (46)
Alger	82	*	91	*	45	*	76	*	91	*
Allegan	2,811	27.2 (11)	2,916	14.3 (10)	702	39.3 (17)	2,483	8.0 (11)	2,926	2.2 (23)
Alpena	477	46.8 (62)	472	26.7 (53)	180	36.1 (22)	424	20.5 (64)	472	3.0 (35)
Antrim	314	51.3 (75)	323	35.3 (77)	133	28.6 (50)	271	23.6 (75)	323	7.7 (78)
Arenac	278	50.7 (73)	301	24.6 (45)	124	35.5 (24)	252	20.6 (66)	301	6.0 (71)
Baraga	131	51.9 (76)	130	36.2 (78)	58	*	121	14.0 (41)	130	2.3 (24)
Barry	734	33.0 (20)	738	20.5 (28)	198	31.3 (43)	631	9.5 (18)	738	1.4 (4)
Bay	1,673	44.0 (55)	1,704	25.5 (49)	661	34.5 (30)	1,529	12.9 (35)	1,705	3.3 (42)
Benzie	246	48.0 (65)	261	32.6 (72)	103	30.1 (46)	208	16.8 (54)	262	6.1 (72)
Berrien	2,447	30.0 (14)	2,578	14.5 (11)	576	42.4 (12)	2,134	12.5 (31)	2,580	3.1 (38)
Branch	995	33.1 (21)	979	21.3 (35)	275	28.7 (48)	889	13.2 (37)	979	3.8 (49)
Calhoun	2,762	33.7 (23)	2,878	18.7 (22)	813	29.8 (47)	2,467	11.2 (27)	2,889	3.0 (35)
Cass	1,010	26.8 (10)	1,034	14.9 (12)	236	24.2 (63)	932	6.8 (6)	1,034	1.8 (14)
Charlevoix	404	38.9 (38)	415	20.5 (28)	136	39.7 (14)	341	12.3 (30)	416	4.1 (57)
Cheboygan	341	48.4 (67)	367	28.3 (58)	141	38.3 (20)	303	20.5 (64)	368	3.8 (49)
Chippewa	661	42.2 (50)	646	32.0 (70)	236	17.4 (66)	603	28.2 (78)	644	18.0 (80)
Clare	591	46.2 (60)	602	31.7 (69)	238	22.3 (65)	543	21.5 (70)	602	4.3 (62)
Clinton	546	37.4 (34)	562	19.2 (23)	171	48.0 (3)	451	8.4 (14)	563	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 PNNS & PedNSS

Table 7B

2016 - 2018 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)	Number
Crawford	233	48.9 (68)	240	31.3 (65)	98	*	208	19.2 (62)	240	1.7 (12)
Delta	644	43.9 (54)	631	26.6 (52)	221	27.1 (57)	581	13.1 (36)	631	1.9 (18)
Dickinson	436	41.3 (47)	417	24.9 (47)	144	31.3 (43)	379	7.1 (7)	419	1.2 (3)
Eaton	835	38.8 (37)	875	23.2 (40)	256	35.2 (27)	708	8.3 (13)	875	2.1 (20)
Emmet	502	36.3 (32)	521	17.9 (20)	154	39.6 (15)	422	10.4 (22)	521	2.1 (20)
Genesee	7,415	29.7 (13)	8,183	15.9 (15)	1,894	37.9 (21)	6,239	10.6 (24)	8,192	2.4 (27)
Gladwin	420	47.1 (63)	427	29.7 (61)	170	25.9 (59)	380	22.6 (74)	427	6.1 (72)
Gogebic	228	49.1 (69)	225	38.2 (79)	82	*	199	14.6 (44)	226	4.0 (55)
Gr Travers	1,287	35.9 (28)	1,385	21.9 (37)	375	34.7 (29)	1,001	8.6 (16)	1,385	3.2 (40)
Gratiot	639	41.3 (47)	652	24.7 (46)	222	36.0 (23)	563	10.7 (25)	653	2.3 (24)
Hillsdale	783	43.7 (53)	814	29.2 (60)	281	23.5 (64)	695	16.7 (53)	816	5.8 (70)
Houghton	528	32.4 (18)	539	20.6 (30)	152	27.6 (55)	463	8.4 (14)	539	1.7 (12)
Huron	467	34.0 (24)	474	20.0 (26)	139	44.6 (8)	382	16.2 (51)	474	3.6 (46)
Ingham	4,901	21.1 (4)	5,125	12.7 (9)	832	33.4 (35)	4,141	7.8 (9)	5,129	3.9 (53)
Ionia	1,061	41.0 (45)	1,069	23.3 (41)	356	32.9 (36)	918	13.7 (40)	1,069	2.7 (32)
Iosco	492	50.6 (72)	515	34.0 (76)	214	28.0 (54)	444	20.9 (68)	515	4.1 (57)
Iron	198	46.0 (58)	182	31.3 (65)	75	*	186	14.5 (43)	182	3.8 (49)
Isabella	1,079	38.5 (36)	1,093	21.9 (37)	342	38.6 (19)	944	12.6 (33)	1,094	3.0 (35)
Jackson	2,993	40.3 (43)	3,043	25.8 (50)	1,033	28.1 (53)	2,710	15.0 (48)	3,043	3.2 (40)

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

(2) Excludes records with unknown data or errors.

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

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

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

WIC PNNS & PedNSS

Table 7B

2016 - 2018 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)	Number	% (rank)
Kalamazoo	4,256	30.5 (15)	4,281	16.7 (16)	1,049	34.2 (32)	3,790	10.8 (26)	4,284	2.1 (20)
Kalkaska	279	53.8 (78)	285	32.6 (72)	132	32.6 (37)	251	21.5 (70)	285	4.6 (65)
Kent	10,802	19.9 (3)	11,181	9.7 (4)	1,715	44.1 (10)	9,390	6.3 (4)	11,184	1.9 (18)
Lake	160	54.4 (79)	164	31.1 (64)	79	*	151	27.2 (77)	164	3.7 (48)
Lapeer	1,203	32.3 (17)	1,223	15.3 (13)	305	40.0 (13)	1,027	3.7 (1)	1,221	0.9 (2)
Leelanau	129	29.5 (12)	134	9.0 (3)	29	*	97	*	134	1.5 (5)
Lenawee	1,376	36.4 (33)	1,441	18.0 (21)	394	44.2 (9)	1,174	9.9 (19)	1,442	3.3 (42)
Livingston	1,061	35.9 (28)	1,085	17.5 (19)	269	47.6 (4)	798	8.8 (17)	1,088	2.5 (29)
Luce	121	51.2 (74)	137	30.7 (63)	55	*	112	19.6 (63)	137	0.7 (1)
Mackinac	114	48.2 (66)	113	32.7 (74)	44	*	100	16.0 (50)	113	5.3 (68)
Macomb	9,702	21.9 (5)	10,095	10.6 (5)	1,673	44.7 (7)	8,019	7.3 (8)	10,102	1.8 (14)
Manistee	345	41.2 (46)	359	20.9 (32)	126	32.5 (38)	305	11.5 (28)	359	2.8 (34)
Marquette	790	39.9 (41)	775	25.2 (48)	272	35.3 (26)	687	10.2 (21)	777	1.5 (5)
Mason	448	34.2 (25)	459	19.4 (24)	129	39.5 (16)	410	10.5 (23)	458	3.1 (38)
Mecosta	716	41.9 (49)	749	26.7 (53)	250	35.2 (27)	627	14.8 (46)	749	4.1 (57)
Menominee	269	54.6 (80)	259	38.2 (79)	110	25.5 (61)	236	16.5 (52)	261	2.7 (32)
Midland	1,036	31.3 (16)	1,079	20.9 (32)	274	26.6 (58)	886	7.9 (10)	1,079	1.5 (5)
Missaukee	212	33.5 (22)	234	17.1 (18)	67	*	196	17.9 (59)	234	3.8 (49)
Monroe	1,785	38.1 (35)	1,816	23.3 (41)	533	33.8 (34)	1,520	14.7 (45)	1,817	3.5 (45)

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

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

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

WIC PNNS & PedNSS

Table 7B

2016 - 2018 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)
Montcalm	983	43.1 (51)	1,024	24.4 (44)	345	39.1 (18)	846	17.0 (55)	1,024	4.1 (57)
Montmorenc	121	52.1 (77)	131	27.5 (57)	59	*	111	25.2 (76)	131	9.2 (79)
Muskegon	4,020	32.4 (18)	4,193	21.1 (34)	1,112	27.4 (56)	3,586	13.6 (39)	4,214	5.6 (69)
Newaygo	1,015	36.0 (31)	1,049	19.6 (25)	310	35.5 (24)	904	13.4 (38)	1,049	2.3 (24)
Oakland	10,552	15.7 (1)	10,888	7.8 (2)	1,266	43.9 (11)	8,640	6.4 (5)	10,890	1.8 (14)
Oceana	543	26.5 (9)	563	16.9 (17)	124	28.2 (52)	489	10.0 (20)	565	1.6 (9)
Ogemaw	412	46.4 (61)	425	31.5 (67)	161	28.6 (50)	369	21.7 (72)	425	6.8 (77)
Ontonagon	51	*	46	*	16	*	46	*	46	*
Osceola	392	45.2 (56)	389	26.7 (53)	148	31.1 (45)	364	21.4 (69)	389	4.4 (63)
Oscoda	144	49.3 (70)	151	33.8 (75)	62	*	128	17.2 (57)	151	4.6 (65)
Otsego	499	43.3 (52)	510	29.0 (59)	164	28.7 (48)	424	18.6 (61)	510	6.3 (74)
Ottawa	1,760	25.3 (8)	1,855	12.6 (8)	393	44.8 (6)	1,426	6.0 (3)	1,857	1.6 (9)
Presque Is	139	45.3 (57)	143	25.9 (51)	54	*	122	22.1 (73)	143	6.3 (74)
Roscommon	356	47.2 (64)	366	30.6 (62)	144	31.9 (41)	325	20.6 (66)	366	6.3 (74)
Saginaw	3,849	35.6 (27)	4,051	15.3 (13)	1,163	48.2 (2)	3,444	12.5 (31)	4,056	2.6 (30)
Sanilac	600	35.0 (26)	620	20.6 (30)	187	34.2 (32)	542	11.6 (29)	622	2.6 (30)
Schoolcraf	161	46.0 (58)	165	31.5 (67)	67	*	152	17.1 (56)	165	4.8 (67)
Shiawassee	1,081	39.0 (39)	1,122	21.7 (36)	374	32.4 (39)	955	18.1 (60)	1,128	2.4 (27)
St Clair	2,223	39.2 (40)	2,240	24.1 (43)	720	31.4 (42)	2,016	17.3 (58)	2,240	4.0 (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) Among women who smoked 3 months prior to pregnancy.

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

WIC PNNS & PedNSS

Table 7B

2016 - 2018 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)	Number
St Joseph	1,333	35.9 (28)	1,354	20.0 (26)	380	32.4 (39)	1,192	14.2 (42)	1,355	3.4 (44)
Tuscola	925	39.9 (41)	981	22.0 (39)	316	34.5 (30)	792	14.8 (46)	982	3.9 (53)
Van Buren	1,342	22.3 (6)	1,364	12.3 (7)	258	25.6 (60)	1,200	3.8 (2)	1,360	1.5 (5)
Washtenaw	3,245	25.1 (7)	3,235	11.1 (6)	618	45.1 (5)	2,794	8.2 (12)	3,233	1.8 (14)
Wayne	40,101	19.0 (2)	43,472	7.6 (1)	6,161	53.6 (1)	33,555	12.6 (33)	43,475	4.2 (61)
Wexford	840	40.8 (44)	885	27.1 (56)	286	25.2 (62)	744	15.5 (49)	885	4.5 (64)
Michigan	153,367	27.3	160,682	14.4	34,505	39.2	131,305	11.2	160,776	3.2

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

(2) Excludes records with unknown data or errors.

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

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

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

WIC PNNS & PedNSS

Table 8B

2016 - 2018 Pregnancy Nutrition Surveillance ⁽¹⁾ Michigan Comparison of Infant Health Indicators by County Combined 3 Years

Comparison of Infant Health Indicators ^(2,3)									
County	Birthweight			Preterm		Full Term LBW		Ever Breastfed	
	Low (4)		High (5)	(6)		(7)			
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Alcona	103	9.7 (67)	11.7 (76)	107	13.1 (70)	92	*	103	74.8 (47)
Alger	85	*	*	89	*	80	*	85	*
Allegan	2,762	8.6 (52)	9.2 (52)	2,840	12.0 (58)	2,411	3.2 (28)	2,801	76.7 (41)
Alpena	445	8.1 (38)	11.9 (77)	457	9.4 (20)	402	3.5 (39)	443	67.0 (65)
Antrim	281	6.0 (7)	7.1 (15)	302	6.3 (2)	258	3.9 (53)	297	79.5 (27)
Arenac	274	8.0 (36)	9.1 (50)	284	9.5 (22)	246	3.7 (45)	273	68.9 (62)
Baraga	117	5.1 (6)	9.4 (55)	125	9.6 (24)	103	1.0 (2)	116	81.0 (19)
Barry	697	9.0 (56)	9.3 (53)	725	10.2 (33)	620	4.4 (63)	716	78.1 (36)
Bay	1,613	6.9 (17)	10.2 (60)	1,644	9.3 (18)	1,457	2.7 (16)	1,613	67.2 (64)
Benzie	243	8.2 (44)	8.2 (33)	246	8.9 (11)	216	3.7 (45)	240	82.9 (10)
Berrien	2,430	8.1 (38)	7.8 (24)	2,513	10.0 (29)	2,176	4.0 (56)	2,434	71.2 (59)
Branch	913	6.0 (7)	7.9 (28)	931	10.2 (33)	802	2.2 (8)	924	79.8 (25)
Calhoun	2,743	9.2 (58)	7.7 (22)	2,801	10.5 (40)	2,441	4.2 (59)	2,749	72.0 (56)
Cass	958	7.4 (26)	8.7 (39)	967	13.1 (70)	814	2.8 (17)	961	79.7 (26)
Charlevoix	365	7.9 (34)	9.0 (48)	398	7.5 (3)	335	3.3 (31)	390	82.3 (12)
Cheboygan	339	9.4 (63)	7.7 (22)	344	9.0 (13)	302	5.3 (72)	339	79.4 (29)
Chippewa	614	7.0 (21)	11.6 (75)	612	11.6 (56)	523	1.9 (6)	615	71.4 (58)
Clare	565	6.2 (11)	8.1 (31)	577	9.2 (16)	509	2.9 (20)	563	65.2 (71)
Clinton	536	7.3 (24)	8.8 (43)	543	9.9 (27)	480	2.5 (13)	538	87.2 (3)

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

(2) Excludes records with unknown data or errors.

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

(4) <2500 g.

(5) >4000 g.

(6) <37 weeks gestation.

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

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

WIC PNNS & PedNSS

Table 8B

2016 - 2018 Pregnancy Nutrition Surveillance ⁽¹⁾ Michigan Comparison of Infant Health Indicators by County Combined 3 Years

Comparison of Infant Health Indicators ^(2,3)									
County	Birthweight			Preterm		Full Term LBW		Ever Breastfed	
	Low (4)		High (5)	(6)		(7)			
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Crawford	220	9.5 (65)	11.4 (72)	231	13.0 (69)	189	3.7 (45)	220	80.5 (23)
Delta	582	8.1 (38)	10.5 (63)	600	10.2 (33)	523	3.6 (43)	570	77.7 (38)
Dickinson	397	6.8 (16)	8.8 (43)	400	9.3 (18)	352	2.6 (15)	396	74.5 (49)
Eaton	814	8.6 (52)	7.0 (14)	869	11.0 (49)	726	2.2 (8)	845	83.9 (7)
Emmet	490	8.8 (55)	11.2 (71)	507	8.3 (6)	446	4.9 (70)	498	83.9 (7)
Genesee	7,950	11.7 (77)	5.3 (4)	8,005	13.8 (77)	6,768	5.4 (73)	7,962	58.6 (79)
Gladwin	398	9.3 (61)	8.8 (43)	415	10.1 (32)	357	3.9 (53)	399	81.5 (16)
Gogebic	218	8.7 (54)	8.7 (39)	220	12.3 (62)	188	3.7 (45)	218	66.1 (66)
Gr Travers	1,314	8.4 (49)	10.9 (70)	1,342	9.2 (16)	1,185	3.2 (28)	1,313	86.2 (6)
Gratiot	618	8.1 (38)	8.1 (31)	629	10.3 (37)	550	3.8 (51)	618	80.9 (20)
Hillsdale	753	4.9 (3)	8.2 (33)	782	9.0 (13)	681	1.8 (5)	753	79.0 (31)
Houghton	487	6.2 (11)	10.3 (62)	508	9.6 (24)	426	2.3 (11)	489	87.3 (2)
Huron	452	6.9 (17)	12.6 (78)	460	10.0 (29)	408	2.9 (20)	452	75.0 (46)
Ingham	4,838	9.9 (69)	6.8 (12)	5,000	12.5 (64)	4,223	4.5 (64)	4,878	78.9 (32)
Ionia	1,029	8.5 (50)	7.2 (16)	1,041	12.6 (65)	896	2.8 (17)	1,030	80.7 (21)
Iosco	494	6.1 (10)	9.3 (53)	498	9.0 (13)	444	3.4 (34)	494	65.4 (69)
Iron	163	9.2 (58)	8.0 (29)	169	12.4 (63)	144	5.6 (77)	163	82.2 (13)
Isabella	1,009	8.2 (44)	8.8 (43)	1,056	8.1 (5)	926	5.4 (73)	1,009	77.9 (37)
Jackson	2,880	9.0 (56)	7.4 (17)	2,934	12.6 (65)	2,492	3.3 (31)	2,879	74.3 (50)

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

(2) Excludes records with unknown data or errors.

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

(4) <2500 g.

(5) >4000 g.

(6) <37 weeks gestation.

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

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

WIC PNNS & PedNSS

Table 8B

2016 - 2018 Pregnancy Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Infant Health Indicators by County

Combined 3 Years

Comparison of Infant Health Indicators ^(2,3)									
County	Birthweight			Preterm		Full Term LBW		Ever Breastfed	
	Low (4)		High (5)	(6)		(7)			
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Kalamazoo	4,006	9.4 (63)	8.6 (38)	4,118	12.0 (58)	3,494	3.9 (53)	4,033	71.9 (57)
Kalkaska	268	7.8 (32)	7.5 (19)	272	9.9 (27)	240	3.3 (31)	267	86.5 (5)
Kent	10,593	10.2 (70)	7.4 (17)	10,884	13.2 (72)	9,145	4.1 (57)	10,633	75.5 (44)
Lake	153	10.5 (71)	3.9 (1)	156	17.3 (80)	123	4.9 (70)	153	73.2 (54)
Lapeer	1,168	7.4 (26)	9.1 (50)	1,175	10.3 (37)	1,034	3.1 (27)	1,167	76.9 (40)
Leelanau	122	6.6 (15)	13.9 (79)	129	10.9 (47)	107	0.9 (1)	122	89.3 (1)
Lenawee	1,357	6.2 (11)	8.9 (47)	1,392	9.5 (22)	1,221	3.4 (34)	1,354	72.5 (55)
Livingston	1,047	8.1 (38)	9.9 (58)	1,074	10.5 (40)	934	3.7 (45)	1,043	78.9 (32)
Luce	129	4.7 (2)	14.0 (80)	130	8.5 (7)	115	1.7 (4)	129	76.0 (42)
Mackinac	109	6.4 (14)	8.3 (35)	110	10.0 (29)	98	*	109	87.2 (3)
Macomb	9,564	10.5 (71)	5.6 (7)	9,810	12.6 (65)	8,227	4.5 (64)	9,768	60.8 (76)
Manistee	337	8.0 (36)	10.7 (66)	345	10.4 (39)	296	3.4 (34)	336	79.5 (27)
Marquette	746	9.7 (67)	8.7 (39)	757	12.2 (60)	645	4.7 (66)	746	81.6 (15)
Mason	445	9.2 (58)	5.8 (9)	449	13.6 (76)	382	4.2 (59)	445	78.2 (34)
Mecosta	707	7.4 (26)	7.8 (24)	710	10.7 (42)	621	3.4 (34)	706	77.1 (39)
Menominee	251	9.6 (66)	7.6 (21)	254	12.6 (65)	217	4.1 (57)	251	60.6 (77)
Midland	1,020	7.1 (23)	10.1 (59)	1,041	10.9 (47)	904	2.5 (13)	1,020	75.7 (43)
Missaukee	206	4.9 (3)	10.7 (66)	222	8.6 (8)	186	3.2 (28)	205	81.5 (16)
Monroe	1,733	8.1 (38)	6.9 (13)	1,773	11.4 (53)	1,519	2.9 (20)	1,697	63.5 (72)

(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.

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	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Montcalm	977	7.0 (21)	7.8 (24)	985	10.2 (33)	865	2.9 (20)	978	82.7 (11)
Montmorenc	125	12.0 (79)	9.6 (57)	127	11.8 (57)	109	5.5 (76)	125	65.6 (68)
Muskegon	3,968	10.5 (71)	5.5 (5)	4,044	14.3 (79)	3,325	4.3 (62)	3,976	65.7 (67)
Newaygo	973	7.9 (34)	9.0 (48)	993	11.4 (53)	856	3.0 (25)	969	73.5 (52)
Oakland	10,310	11.5 (75)	5.6 (7)	10,610	13.3 (73)	8,863	4.7 (66)	10,415	68.4 (63)
Oceana	532	7.3 (24)	7.5 (19)	536	7.8 (4)	484	3.7 (45)	532	79.3 (30)
Ogemaw	403	8.2 (44)	10.2 (60)	405	8.9 (11)	361	3.6 (43)	402	65.4 (69)
Ontonagon	44	*	*	46	*	40	*	44	*
Osceola	365	6.0 (7)	10.7 (66)	371	11.1 (50)	325	2.2 (8)	365	81.9 (14)
Oscoda	142	4.9 (3)	4.9 (2)	143	5.6 (1)	133	3.8 (51)	142	75.4 (45)
Otsego	381	7.6 (30)	9.4 (55)	491	8.8 (10)	343	3.5 (39)	463	78.2 (34)
Ottawa	1,747	9.3 (61)	11.4 (72)	1,812	11.4 (53)	1,542	3.4 (34)	1,766	80.6 (22)
Presque Is	139	3.6 (1)	11.5 (74)	139	9.4 (20)	125	1.6 (3)	139	63.3 (73)
Roscommon	343	8.5 (50)	6.7 (11)	349	9.7 (26)	307	4.2 (59)	344	73.8 (51)
Saginaw	3,875	11.6 (76)	6.0 (10)	3,930	12.2 (60)	3,381	4.8 (69)	3,879	59.6 (78)
Sanilac	596	6.9 (17)	8.7 (39)	610	10.7 (42)	524	2.1 (7)	596	62.9 (74)
Schoolcraf	148	13.5 (80)	10.8 (69)	149	13.4 (74)	126	8.7 (78)	147	62.6 (75)
Shiawassee	1,074	8.2 (44)	8.4 (36)	1,090	8.7 (9)	975	3.5 (39)	1,073	74.7 (48)
St Clair	2,124	7.8 (32)	8.0 (29)	2,167	11.2 (51)	1,877	3.0 (25)	2,123	69.2 (61)

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	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
St Joseph	1,262	7.7 (31)	7.8 (24)	1,298	10.8 (45)	1,116	2.8 (17)	1,268	83.1 (9)
Tuscola	930	7.4 (26)	10.6 (65)	953	10.8 (45)	821	2.9 (20)	929	73.4 (53)
Van Buren	1,267	6.9 (17)	10.5 (63)	1,294	10.7 (42)	1,113	2.4 (12)	1,277	70.2 (60)
Washtenaw	3,076	10.8 (74)	5.5 (5)	3,140	13.4 (74)	2,652	4.7 (66)	2,945	81.4 (18)
Wayne	40,461	11.8 (78)	5.0 (3)	42,162	13.8 (77)	34,454	5.4 (73)	41,158	53.8 (80)
Wexford	831	8.3 (48)	8.4 (36)	838	11.3 (52)	718	3.5 (39)	831	80.4 (24)
Michigan	151,265	10.0	6.8	155,722	12.4	131,154	4.3	152,480	57.8

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