

WIC PNNS & PedNSS

Table 3B

2017 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	39	*	*	*	*	*	*	*
Alger	40	*	*	*	*	*	*	*
Allegan	1,285	56.5	3.7	32.1	0.2	3.3	3.0	1.3
Alpena	188	92.0	1.1	3.2	0.0	0.5	2.7	0.5
Antrim	110	90.9	0.0	3.6	0.9	0.0	4.5	0.0
Arenac	96	*	*	*	*	*	*	*
Baraga	52	*	*	*	*	*	*	*
Barry	244	95.5	0.8	3.3	0.0	0.4	0.0	0.0
Bay	612	80.1	3.8	9.3	0.0	0.8	5.2	0.8
Benzie	87	*	*	*	*	*	*	*
Berrien	935	49.8	38.1	7.1	0.2	0.4	3.6	0.7
Branch	337	87.5	0.3	10.7	0.0	0.3	1.2	0.0
Calhoun	1,003	58.2	21.3	7.3	0.2	6.3	6.1	0.6
Cass	410	61.2	6.3	24.1	0.2	0.7	6.6	0.7
Charlevoix	140	86.4	0.7	2.9	0.0	1.4	8.6	0.0
Cheboygan	141	80.9	0.0	3.5	0.0	1.4	14.2	0.0
Chippewa	240	56.3	0.4	1.3	20.4	0.0	21.7	0.0
Clare	213	90.6	0.0	4.7	0.0	0.5	2.8	1.4
Clinton	189	83.1	1.6	13.8	0.0	0.0	1.6	0.0
Crawford	100	95.0	0.0	0.0	1.0	0.0	3.0	1.0
Delta	242	86.8	0.4	2.9	0.4	1.2	7.9	0.4
Dickinson	144	93.1	0.0	2.8	1.4	0.0	2.8	0.0
Eaton	310	84.8	5.5	5.5	0.0	1.0	2.9	0.3

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors

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

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Emmet	192	87.0	1.6	1.0	1.0	0.5	8.9	0.0
Genesee	2,939	47.3	40.6	4.8	0.1	0.4	6.2	0.4
Gladwin	145	94.5	0.0	2.1	0.0	0.0	3.4	0.0
Gogebic	98	*	*	*	*	*	*	*
Gr Travers	503	86.1	1.4	6.2	1.0	0.8	4.4	0.2
Gratiot	233	85.4	0.4	13.3	0.0	0.4	0.4	0.0
Hillsdale	298	93.0	0.0	1.7	0.0	0.3	4.0	1.0
Houghton	194	91.8	1.5	0.5	0.0	3.6	2.6	0.0
Huron	174	93.7	0.0	4.0	0.0	0.0	0.6	1.7
Ingham	1,831	42.7	27.5	14.7	0.3	6.7	7.8	0.4
Ionia	393	89.3	0.0	8.9	0.0	0.3	1.5	0.0
Iosco	166	89.8	0.6	3.0	0.0	0.0	6.6	0.0
Iron	73	*	*	*	*	*	*	*
Isabella	396	79.5	4.0	4.3	2.3	3.8	6.1	0.0
Jackson	1,077	70.7	16.2	5.9	0.2	0.7	6.2	0.1
Kalamazoo	1,541	48.2	34.6	9.8	0.1	1.3	5.3	0.7
Kalkaska	96	*	*	*	*	*	*	*
Kent	4,010	37.1	25.0	27.4	0.3	4.7	5.0	0.5
Lake	63	*	*	*	*	*	*	*
Lapeer	406	80.8	0.0	14.0	0.0	0.2	4.4	0.5
Leelanau	54	*	*	*	*	*	*	*
Lenawee	499	76.8	1.8	14.8	0.0	0.2	5.4	0.8
Livingston	370	88.6	0.3	3.2	0.5	2.4	2.7	2.2

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Luce	51	*	*	*	*	*	*	*
Mackinac	43	*	*	*	*	*	*	*
Macomb	3,589	57.7	27.6	4.8	0.0	5.5	4.1	0.4
Manistee	128	78.1	0.8	8.6	3.1	0.8	8.6	0.0
Marquette	243	85.6	0.8	3.7	0.0	1.2	7.4	1.2
Mason	178	89.3	0.6	7.9	0.0	0.0	2.2	0.0
Mecosta	248	89.9	4.0	2.8	0.0	0.0	3.2	0.0
Menominee	99	*	*	*	*	*	*	*
Midland	407	93.9	0.5	1.7	0.2	0.7	2.5	0.5
Missaukee	75	*	*	*	*	*	*	*
Monroe	655	83.2	7.0	5.2	0.2	0.3	3.2	0.9
Montcalm	354	92.9	0.0	4.2	0.3	0.3	1.4	0.8
Montmorenc	49	*	*	*	*	*	*	*
Muskegon	1,505	55.3	29.0	8.0	0.3	0.6	6.3	0.5
Newaygo	371	81.7	0.0	14.8	0.0	0.5	1.9	1.1
Oakland	3,952	40.6	42.7	11.2	0.1	2.2	2.8	0.4
Oceana	197	59.4	0.0	35.5	0.5	0.0	3.0	1.5
Ogemaw	156	91.7	1.3	3.8	0.0	0.0	3.2	0.0
Ontonagon	18	*	*	*	*	*	*	*
Osceola	165	95.2	1.2	1.2	0.6	0.0	1.2	0.6
Oscoda	54	*	*	*	*	*	*	*
Otsego	192	94.8	0.0	2.1	0.0	1.6	1.6	0.0
Ottawa	418	86.1	1.9	7.2	0.0	1.2	2.9	0.7

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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	52	*	*	*	*	*	*	*
Roscommon	120	90.8	0.8	3.3	0.0	0.0	4.2	0.8
Saginaw	1,479	38.0	41.7	14.6	0.1	0.7	4.3	0.7
Sanilac	230	94.3	0.4	3.5	0.0	0.0	1.7	0.0
Schoolcraf	64	*	*	*	*	*	*	*
Shiawassee	394	86.8	0.3	7.6	0.0	0.0	4.6	0.5
St Clair	799	83.2	5.1	5.3	0.0	0.6	5.1	0.6
St Joseph	489	72.2	4.1	20.2	0.0	0.2	2.5	0.8
Tuscola	331	92.7	1.5	3.3	0.0	0.6	1.8	0.0
Van Buren	509	60.1	4.3	28.1	0.2	0.6	2.9	3.7
Washtenaw	1,201	37.1	39.3	9.5	0.1	4.2	9.5	0.4
Wayne	15,581	28.1	57.7	9.2	0.1	2.5	2.1	0.3
Wexford	330	93.6	0.0	3.6	0.0	0.0	2.1	0.6
Michigan	57,669	52.1	30.4	10.4	0.3	2.3	4.0	0.5
National (Prior Year)	120,297	55.2	27.3	9.5	1.5	2.3	3.9	0.3

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Table 4B

2017 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	39	*	*	*	*	*	*	*
Alger	40	*	*	*	*	*	*	*
Allegan	1,285	0.2	3.6	8.2	61.9	24.1	1.9	0.0
Alpena	188	0.0	2.1	11.2	64.4	21.3	1.1	0.0
Antrim	110	0.0	1.8	6.4	65.5	23.6	2.7	0.0
Arenac	96	*	*	*	*	*	*	*
Baraga	52	*	*	*	*	*	*	*
Barry	244	0.0	4.5	10.2	68.0	16.4	0.8	0.0
Bay	612	0.2	2.5	7.7	66.7	21.4	1.6	0.0
Benzie	87	*	*	*	*	*	*	*
Berrien	935	0.2	4.7	8.6	63.2	21.4	1.6	0.3
Branch	337	0.0	2.4	8.0	62.0	24.3	3.0	0.3
Calhoun	1,003	0.1	3.4	8.5	64.5	22.0	1.5	0.0
Cass	410	0.0	5.9	8.3	60.7	23.9	1.2	0.0
Charlevoix	140	0.0	2.1	8.6	57.1	30.0	2.1	0.0
Cheboygan	141	0.0	0.7	5.0	75.2	18.4	0.7	0.0
Chippewa	240	0.0	0.4	7.1	63.3	27.5	1.7	0.0
Clare	213	0.5	2.8	11.3	66.7	16.9	1.9	0.0
Clinton	189	0.0	4.8	10.1	64.0	18.5	2.6	0.0
Crawford	100	0.0	1.0	9.0	61.0	29.0	0.0	0.0
Delta	242	0.0	1.7	9.9	63.2	24.4	0.8	0.0
Dickinson	144	0.0	3.5	8.3	56.9	28.5	2.1	0.7
Eaton	310	0.0	1.6	7.7	62.6	26.5	1.0	0.6
Emmet	192	0.0	1.0	12.0	63.5	22.9	0.5	0.0

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Gladwin	145	0.0	3.4	9.0	64.8	22.1	0.7	0.0
Gogebic	98	*	*	*	*	*	*	*
Gr Travers	503	0.0	2.8	7.2	61.8	25.8	1.8	0.6
Gratiot	233	0.0	3.4	5.6	63.5	25.8	1.7	0.0
Hillsdale	298	0.0	3.0	10.1	68.8	17.4	0.7	0.0
Houghton	194	0.0	2.1	9.8	57.7	28.4	2.1	0.0
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Iron	73	*	*	*	*	*	*	*
Isabella	396	0.0	2.8	7.6	65.7	23.0	0.8	0.3
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Kalamazoo	1,541	0.1	4.0	9.3	62.2	22.5	1.9	0.1
Kalkaska	96	*	*	*	*	*	*	*
Kent	4,010	0.2	3.5	7.5	60.6	25.5	2.3	0.4
Lake	63	*	*	*	*	*	*	*
Lapeer	406	0.2	1.7	9.1	68.5	20.0	0.5	0.0
Leelanau	54	*	*	*	*	*	*	*
Lenawee	499	0.0	2.8	9.6	65.3	21.4	0.8	0.0
Livingston	370	0.0	1.9	7.0	57.8	31.9	1.4	0.0
Luce	51	*	*	*	*	*	*	*
Mackinac	43	*	*	*	*	*	*	*

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Marquette	243	0.0	4.9	5.8	56.8	31.3	1.2	0.0
Mason	178	0.0	3.9	5.1	71.9	19.1	0.0	0.0
Mecosta	248	0.0	4.4	8.9	68.5	17.3	0.8	0.0
Menominee	99	*	*	*	*	*	*	*
Midland	407	0.0	1.5	9.6	64.1	23.3	1.2	0.2
Missaukee	75	*	*	*	*	*	*	*
Monroe	655	0.2	3.7	10.7	63.7	20.9	0.8	0.2
Montcalm	354	0.6	2.0	10.7	68.4	17.2	1.1	0.0
Montmorenc	49	*	*	*	*	*	*	*
Muskegon	1,505	0.2	3.9	8.7	65.4	20.1	1.7	0.0
Newaygo	371	0.0	3.0	11.1	62.5	21.3	2.2	0.0
Oakland	3,952	0.1	2.2	6.7	59.7	28.9	2.3	0.1
Oceana	197	0.0	3.6	7.6	68.5	19.3	1.0	0.0
Ogemaw	156	0.0	1.9	7.7	66.7	22.4	1.3	0.0
Ontonagon	18	*	*	*	*	*	*	*
Osceola	165	0.0	4.2	10.3	58.8	25.5	1.2	0.0
Oscoda	54	*	*	*	*	*	*	*
Otsego	192	0.0	3.1	8.9	64.1	23.4	0.5	0.0
Ottawa	418	0.0	1.4	6.7	62.4	28.0	1.4	0.0
Presque Is	52	*	*	*	*	*	*	*
Roscommon	120	0.0	3.3	12.5	63.3	20.8	0.0	0.0
Saginaw	1,479	0.3	3.2	8.3	66.1	20.4	1.5	0.1

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Michigan

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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	230	0.0	6.1	7.8	60.9	25.2	0.0	0.0
Schoolcraf	64	*	*	*	*	*	*	*
Shiawassee	394	0.0	3.0	11.7	69.0	15.7	0.5	0.0
St Clair	799	0.1	3.1	8.6	64.1	23.2	0.9	0.0
St Joseph	489	0.0	3.1	12.7	63.6	19.6	1.0	0.0
Tuscola	331	0.3	2.1	8.8	64.4	21.8	2.4	0.3
Van Buren	509	0.0	3.3	11.2	63.1	21.0	1.4	0.0
Washtenaw	1,201	0.2	3.0	6.7	61.1	26.6	2.5	0.0
Wayne	15,581	0.1	2.5	6.5	62.4	25.9	2.5	0.2
Wexford	330	0.0	1.8	8.8	68.5	20.6	0.3	0.0
Michigan	57,676	0.1	2.8	7.7	63.1	24.3	1.8	0.1
National (Prior Year)	120,303	0.2	3.4	9.1	63.1	22.7	1.5	0.1

(1) Reporting period is January 1 through December 31

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WIC PNNS & PedNSS

Table 5B 2017 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)
Alcona	29	*	*	6	*	*	4	*	7	*	35	*	35	*
Alger	34	*	*	9	*	*	3	*	11	*	38	*	38	*
Allegan	1,047	4.7 (39)	58.9 (34)	620	21.3 (33)	47.1 (6)	184	53.3 (12)	245	43.3 (18)	1,162	9.0 (52)	1,164	11.3 (36)
Alpena	175	2.9 (9)	55.4 (12)	140	17.9 (17)	57.9 (42)	25	*	47	*	172	4.1 (2)	172	7.6 (10)
Antrim	84	*	*	37	*	*	6	*	18	*	104	6.7 (23)	104	9.6 (19)
Arenac	64	*	*	46	*	*	19	*	12	*	94	*	94	*
Baraga	49	*	*	34	*	*	5	*	13	*	47	*	47	*
Barry	147	4.1 (28)	57.8 (27)	49	*	*	30	*	50	*	220	6.8 (28)	221	13.6 (51)
Bay	491	5.1 (48)	60.3 (48)	369	22.2 (37)	52.0 (19)	79	*	88	*	576	6.9 (29)	576	10.8 (28)
Benzie	82	*	*	60	*	*	17	*	9	*	77	*	77	*
Berrien	785	3.6 (21)	60.0 (44)	583	18.0 (18)	56.4 (40)	145	48.3 (5)	172	45.9 (19)	860	5.1 (12)	860	10.9 (31)
Branch	247	4.0 (25)	59.9 (40)	93	*	*	48	*	59	*	310	10.3 (57)	310	6.5 (3)
Calhoun	800	2.5 (4)	60.8 (50)	449	18.0 (18)	55.0 (34)	125	48.8 (6)	181	40.3 (15)	926	7.0 (32)	922	9.0 (15)
Cass	352	2.8 (7)	60.5 (49)	209	15.3 (6)	56.0 (38)	36	*	64	*	374	4.3 (4)	374	9.4 (17)
Charlevoix	117	3.4 (16)	54.7 (8)	80	*	*	21	*	24	*	134	6.7 (23)	134	7.5 (9)
Cheboygan	128	6.3 (58)	54.7 (8)	86	*	*	26	*	23	*	134	6.7 (23)	134	5.2 (2)
Chippewa	150	2.7 (5)	62.0 (52)	30	*	*	24	*	36	*	215	8.4 (51)	215	12.6 (44)

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

(2) Excludes records with unknown data or errors.

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

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

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

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

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Table 5B 2017 Pregnancy Nutrition Surveillance (1) Michigan

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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)
Clare	203	4.9 (44)	64.0 (56)	172	19.2 (26)	54.1 (32)	35	*	29	*	196	7.1 (34)	196	6.6 (5)
Clinton	172	5.2 (50)	55.8 (14)	130	14.6 (2)	56.2 (39)	33	*	47	*	172	6.4 (18)	172	15.1 (58)
Crawford	93	*	*	72	*	*	10	*	25	*	94	*	94	*
Delta	147	3.4 (16)	53.7 (6)	59	*	*	26	*	44	*	211	13.7 (62)	211	13.3 (49)
Dickinson	110	4.5 (36)	50.0 (2)	39	*	*	15	*	32	*	125	5.6 (13)	125	10.4 (25)
Eaton	195	5.6 (54)	55.4 (12)	137	16.8 (13)	51.1 (15)	60	*	69	*	290	11.4 (60)	291	17.5 (62)
Emmet	165	4.8 (42)	50.9 (4)	76	*	*	34	*	24	*	183	4.9 (11)	183	8.7 (13)
Genesee	2,409	5.5 (53)	57.0 (22)	1,291	18.6 (23)	52.8 (24)	483	49.1 (7)	474	36.7 (9)	2,769	7.5 (42)	2,764	15.3 (59)
Gladwin	130	2.3 (3)	60.0 (44)	82	*	*	12	*	27	*	138	4.3 (4)	139	10.8 (28)
Gogebic	62	*	*	35	*	*	14	*	23	*	85	*	85	*
Gr Travers	463	5.4 (52)	50.1 (3)	381	16.5 (12)	52.8 (24)	77	*	68	*	485	4.5 (7)	486	10.3 (24)
Gratiot	196	5.6 (54)	57.1 (23)	108	20.4 (29)	50.0 (11)	33	*	37	*	215	7.0 (32)	215	12.6 (44)
Hillsdale	262	5.7 (56)	56.5 (21)	173	24.9 (41)	44.5 (3)	30	*	58	*	279	4.7 (8)	279	6.5 (3)
Houghton	113	2.7 (5)	42.5 (1)	44	*	*	20	*	48	*	180	6.1 (16)	180	10.0 (22)
Huron	142	4.9 (44)	63.4 (55)	108	20.4 (29)	42.6 (2)	20	*	41	*	162	10.5 (58)	162	11.7 (39)
Ingham	1,587	4.5 (36)	59.1 (36)	1,290	18.1 (21)	51.6 (17)	331	45.0 (1)	313	36.7 (9)	1,742	7.2 (37)	1,742	9.1 (16)
Ionia	254	5.1 (48)	63.0 (53)	175	15.4 (7)	52.0 (19)	50	*	93	*	360	6.9 (29)	360	13.6 (51)

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

(2) Excludes records with unknown data or errors.

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

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

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

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

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

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

WIC PNNS & PedNSS

Table 5B 2017 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	140	4.3 (30)	60.0 (44)	62	*	*	23	*	34	*	156	7.7 (43)	156	5.1 (1)
Iron	44	*	*	9	*	*	12	*	11	*	61	*	61	*
Isabella	352	4.8 (42)	59.9 (40)	237	15.6 (9)	59.5 (43)	61	*	78	*	373	8.3 (49)	373	9.7 (20)
Jackson	797	6.5 (59)	58.7 (32)	466	20.8 (32)	53.4 (30)	161	56.5 (15)	194	46.9 (21)	996	5.8 (14)	996	11.3 (36)
Kalamazoo	1,234	4.3 (30)	59.4 (38)	676	18.0 (18)	53.1 (28)	200	50.5 (8)	329	39.2 (13)	1,396	8.3 (49)	1,397	10.7 (27)
Kalkaska	86	*	*	67	*	*	13	*	30	*	93	*	93	*
Kent	2,900	4.7 (39)	57.2 (24)	1,471	25.4 (42)	44.5 (3)	687	46.0 (2)	1,062	36.2 (8)	3,713	7.7 (43)	3,715	10.8 (28)
Lake	53	*	*	32	*	*	7	*	14	*	55	*	55	*
Lapeer	391	4.9 (44)	58.6 (31)	337	17.2 (14)	54.0 (31)	70	*	90	*	382	4.7 (8)	382	6.8 (6)
Leelanau	50	*	*	38	*	*	12	*	6	*	49	*	49	*
Lenawee	370	3.5 (19)	57.3 (25)	102	23.5 (40)	51.0 (14)	99	*	102	28.4 (2)	460	6.5 (19)	460	13.3 (49)
Livingston	327	5.2 (50)	56.3 (19)	210	15.2 (4)	55.7 (36)	65	*	124	13.7 (1)	331	11.5 (61)	332	13.0 (47)
Luce	48	*	*	21	*	*	5	*	10	*	50	*	50	*
Mackinac	43	*	*	38	*	*	3	*	10	*	40	*	40	*
Macomb	3,202	4.6 (38)	57.5 (26)	2,594	17.7 (16)	52.8 (24)	664	47.1 (3)	810	36.8 (11)	3,335	8.2 (48)	3,336	10.5 (26)
Manistee	114	4.4 (34)	56.1 (17)	37	*	*	20	*	30	*	116	11.2 (59)	116	6.9 (7)
Marquette	210	3.8 (24)	56.2 (18)	145	18.6 (23)	45.5 (5)	29	*	59	*	214	6.5 (19)	217	6.9 (7)

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

(2) Excludes records with unknown data or errors.

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

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

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

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

* 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 2017 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	138	6.5 (59)	55.1 (10)	49	*	*	23	*	37	*	167	6.6 (21)	167	14.4 (56)
Mecosta	213	4.7 (39)	55.9 (15)	125	15.2 (4)	55.2 (35)	44	*	56	*	239	4.2 (3)	239	14.2 (54)
Menominee	53	*	*	32	*	*	10	*	20	*	85	*	85	*
Midland	333	2.1 (2)	58.0 (30)	118	22.0 (36)	54.2 (33)	62	*	105	33.3 (5)	387	4.4 (6)	387	10.1 (23)
Missaukee	71	*	*	56	*	*	9	*	14	*	73	*	73	*
Monroe	421	4.3 (30)	55.1 (10)	210	20.0 (27)	51.9 (18)	111	51.4 (10)	138	34.1 (7)	607	7.1 (34)	607	12.9 (46)
Montcalm	331	3.0 (10)	59.2 (37)	280	23.2 (38)	50.7 (12)	48	*	85	*	331	9.1 (54)	332	14.2 (54)
Montmorenc	48	*	*	33	*	*	9	*	12	*	47	*	47	*
Muskegon	1,416	3.7 (22)	60.0 (44)	1,072	20.1 (28)	49.9 (10)	217	47.5 (4)	145	29.7 (3)	1,396	9.0 (52)	1,398	12.0 (40)
Newaygo	346	3.5 (19)	64.5 (57)	225	20.4 (29)	52.4 (22)	41	*	68	*	351	9.1 (54)	351	11.1 (34)
Oakland	3,455	4.0 (25)	58.8 (33)	2,512	18.4 (22)	52.5 (23)	732	51.0 (9)	866	38.3 (12)	3,705	6.0 (15)	3,705	11.6 (38)
Oceana	161	1.9 (1)	66.5 (60)	109	15.6 (9)	52.3 (21)	24	*	37	*	174	8.0 (46)	174	16.1 (60)
Ogemaw	124	3.2 (14)	61.3 (51)	88	*	*	17	*	39	*	148	10.1 (56)	148	14.9 (57)
Ontonagon	13	*	*	4	*	*	1	*	5	*	14	*	14	*
Osceola	137	4.4 (34)	68.6 (61)	87	*	*	18	*	29	*	149	7.4 (39)	149	9.4 (17)
Oscoda	45	*	*	21	*	*	6	*	7	*	48	*	48	*
Otsego	106	2.8 (7)	63.2 (54)	40	*	*	28	*	32	*	180	3.3 (1)	180	7.8 (11)

(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 2017 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	323	3.4 (16)	56.0 (16)	185	17.3 (15)	48.6 (8)	47	*	101	33.7 (6)	386	6.7 (23)	386	12.2 (41)
Presque Is	50	*	*	39	*	*	9	*	9	*	51	*	51	*
Roscommon	110	7.3 (61)	53.6 (5)	41	*	*	14	*	23	*	112	7.1 (34)	113	12.4 (42)
Saginaw	1,249	3.1 (11)	64.6 (59)	961	21.4 (34)	48.4 (7)	248	51.6 (11)	457	46.2 (20)	1,375	6.1 (16)	1,374	10.9 (31)
Sanilac	107	3.7 (22)	64.5 (57)	31	*	*	32	*	44	*	212	6.6 (21)	212	13.7 (53)
Schoolcraf	44	*	*	5	*	*	6	*	13	*	59	*	59	*
Shiawassee	375	6.1 (57)	57.9 (29)	309	16.2 (11)	50.8 (13)	61	*	64	*	365	7.4 (39)	365	8.8 (14)
St Clair	759	4.3 (30)	58.9 (34)	643	14.6 (2)	55.7 (36)	125	54.4 (13)	149	39.6 (14)	728	7.3 (38)	732	12.4 (42)
St Joseph	353	3.1 (11)	59.5 (39)	193	13.5 (1)	57.5 (41)	58	*	102	30.4 (4)	440	8.0 (46)	442	16.1 (60)
Tuscola	243	4.9 (44)	54.3 (7)	182	15.4 (7)	53.3 (29)	31	*	57	*	319	7.8 (45)	319	9.7 (20)
Van Buren	424	3.3 (15)	59.9 (40)	225	40.4 (43)	29.8 (1)	65	*	83	*	447	6.9 (29)	447	8.1 (12)
Washtenaw	1,084	4.0 (25)	57.8 (27)	681	21.6 (35)	49.6 (9)	221	61.5 (16)	287	40.4 (16)	1,087	7.4 (39)	1,086	13.2 (48)
Wayne	12,384	4.1 (28)	59.9 (40)	8,635	18.7 (25)	52.8 (24)	2,842	56.4 (14)	2,661	41.5 (17)	14,688	6.7 (23)	14,689	11.0 (33)
Wexford	318	3.1 (11)	56.3 (19)	275	23.3 (39)	51.3 (16)	45	*	68	*	313	4.8 (10)	313	11.2 (35)
Michigan	47,111	4.3	58.8	31,292	19.1	51.9	9,416	49.2	11,325	36.6	53,680	7.1	53,693	11.2
National (Prior Year)	106,629	4.4	58.2	62,805	21.4	50.4	35,452	17.4	20,899	27.9	60,377	6.9	60,411	10.7

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

(2) Excludes records with unknown data or errors.

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

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

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

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

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WIC PNNS & PedNSS

Table 6B

2017 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)
Alcona	36	*	*	39	*	36	*	31	*
Alger	38	*	*	40	*	35	*	32	*
Allegan	1,116	89.2 (8)	4.9 (9)	1,271	36.4 (36)	807	25.3 (21)	960	76.7 (58)
Alpena	173	85.0 (27)	9.2 (32)	184	32.6 (46)	172	30.8 (13)	152	95.4 (3)
Antrim	104	82.7 (35)	12.5 (43)	109	47.7 (3)	97	*	86	*
Arenac	94	*	*	94	*	84	*	76	*
Baraga	47	*	*	52	*	49	*	48	*
Barry	222	94.1 (2)	2.7 (3)	241	34.4 (40)	211	23.7 (27)	180	93.9 (5)
Bay	569	72.8 (59)	21.6 (61)	606	43.6 (12)	546	16.3 (47)	495	81.4 (53)
Benzie	77	*	*	85	*	48	*	62	*
Berrien	850	73.3 (58)	14.7 (49)	926	31.0 (52)	764	12.3 (57)	706	87.8 (35)
Branch	256	83.2 (34)	10.5 (40)	329	41.3 (18)	280	22.5 (31)	280	76.1 (59)
Calhoun	895	89.3 (7)	3.9 (7)	986	37.4 (34)	664	16.1 (50)	771	79.5 (55)
Cass	367	89.1 (9)	6.8 (18)	399	45.9 (6)	346	47.4 (3)	334	73.7 (60)
Charlevoix	134	82.1 (40)	9.7 (34)	139	36.0 (39)	126	25.4 (20)	112	89.3 (29)
Cheboygan	134	84.3 (31)	7.5 (26)	140	37.9 (32)	126	21.4 (32)	109	85.3 (45)
Chippewa	218	85.3 (25)	13.8 (46)	230	52.6 (1)	203	57.6 (1)	200	86.0 (44)
Clare	195	79.5 (46)	14.4 (48)	211	45.5 (8)	191	12.6 (56)	181	91.2 (19)
Clinton	172	86.0 (22)	5.8 (15)	186	30.6 (53)	159	20.8 (34)	143	92.3 (9)
Crawford	94	*	*	98	*	90	*	82	*

(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

2017 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	212	88.2 (13)	5.2 (12)	239	46.0 (5)	218	24.3 (24)	203	92.6 (8)
Dickinson	125	90.4 (6)	7.2 (23)	141	41.1 (19)	131	34.4 (9)	112	91.1 (20)
Eaton	289	88.9 (11)	2.1 (2)	308	20.5 (62)	269	23.0 (30)	224	95.5 (2)
Emmet	181	89.0 (10)	6.6 (17)	190	32.6 (46)	178	30.9 (11)	150	87.3 (38)
Genesee	2,738	86.7 (20)	3.1 (6)	2,874	24.1 (59)	2,183	8.9 (59)	2,068	89.7 (27)
Gladwin	139	72.7 (60)	20.1 (59)	144	49.3 (2)	136	29.4 (15)	124	87.9 (34)
Gogebic	83	*	*	96	*	84	*	72	*
Gr Travers	482	73.7 (57)	17.0 (55)	494	32.0 (50)	438	25.1 (23)	343	89.2 (30)
Gratiot	213	84.5 (29)	9.9 (38)	228	36.4 (36)	205	27.3 (18)	186	91.4 (15)
Hillsdale	278	79.5 (46)	10.1 (39)	293	41.6 (15)	264	19.7 (38)	236	84.3 (50)
Houghton	180	80.6 (45)	16.1 (54)	185	38.4 (29)	174	54.6 (2)	156	91.7 (13)
Huron	159	81.8 (42)	13.8 (46)	172	45.9 (6)	142	38.7 (7)	136	85.3 (45)
Ingham	1,720	81.9 (41)	9.8 (36)	1,807	27.6 (55)	1,618	8.6 (60)	1,376	88.3 (33)
Ionia	361	87.0 (17)	7.2 (23)	388	38.7 (25)	353	17.6 (44)	302	91.4 (15)
Iosco	153	82.4 (38)	9.8 (36)	166	41.6 (15)	150	17.3 (45)	135	89.6 (28)
Iron	62	*	*	73	*	65	*	69	*
Isabella	374	84.0 (33)	9.6 (33)	393	38.2 (31)	338	29.3 (16)	318	95.0 (4)
Jackson	985	84.7 (28)	8.2 (31)	1,062	38.6 (26)	916	14.4 (55)	882	87.2 (39)
Kalamazoo	1,383	76.8 (50)	12.9 (45)	1,515	39.3 (24)	1,359	17.3 (45)	1,208	81.2 (54)
Kalkaska	93	*	*	96	*	89	*	82	*
Kent	3,676	82.6 (36)	6.3 (16)	3,952	27.5 (56)	3,179	20.7 (35)	3,092	90.0 (25)

(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.

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

WIC PNNS & PedNSS

Table 6B

2017 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)
Lake	55	*	*	62	*	56	*	51	*
Lapeer	379	86.8 (19)	6.9 (19)	399	31.6 (51)	371	18.3 (41)	323	90.1 (23)
Leelanau	48	*	*	52	*	32	*	35	*
Lenawee	459	88.2 (13)	5.0 (10)	491	27.7 (54)	442	19.5 (40)	379	87.6 (37)
Livingston	332	91.9 (4)	3.0 (5)	367	22.1 (61)	283	38.9 (6)	240	92.9 (7)
Luce	50	*	*	50	*	34	*	38	*
Mackinac	40	*	*	42	*	43	*	37	*
Macomb	3,282	87.3 (16)	5.5 (14)	3,528	25.7 (57)	2,426	19.7 (38)	2,684	91.0 (21)
Manistee	116	88.8 (12)	7.8 (29)	125	32.8 (44)	115	23.5 (28)	103	93.2 (6)
Marquette	215	87.4 (15)	7.0 (20)	241	44.0 (11)	174	37.4 (8)	202	90.1 (23)
Mason	167	82.6 (36)	11.4 (41)	177	44.1 (10)	161	27.3 (18)	151	90.7 (22)
Mecosta	238	85.3 (25)	7.6 (28)	246	37.8 (33)	155	25.2 (22)	198	91.4 (15)
Menominee	85	*	*	96	*	82	*	78	*
Midland	382	84.3 (31)	12.6 (44)	398	33.7 (42)	372	30.9 (11)	313	97.4 (1)
Missaukee	72	*	*	72	*	48	*	54	*
Monroe	601	86.4 (21)	7.0 (20)	644	33.1 (43)	588	16.0 (51)	502	87.1 (40)
Montcalm	328	85.7 (24)	7.9 (30)	343	36.7 (35)	304	20.4 (37)	264	92.0 (11)
Montmorenc	47	*	*	48	*	46	*	45	*
Muskegon	1,376	84.4 (30)	7.3 (25)	1,458	38.5 (27)	1,311	15.2 (52)	1,202	78.0 (57)
Newaygo	347	87.0 (17)	7.5 (26)	369	43.4 (13)	209	39.2 (5)	298	92.3 (9)
Oakland	3,686	85.9 (23)	5.1 (11)	3,904	25.7 (57)	2,849	15.2 (52)	2,894	88.9 (31)

(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

2017 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)
Oceana	169	78.1 (48)	15.4 (51)	193	38.3 (30)	163	23.9 (25)	145	82.1 (52)
Ogemaw	150	75.3 (54)	14.7 (49)	154	32.5 (48)	137	21.2 (33)	126	91.3 (18)
Ontonagon	13	*	*	18	*	17	*	15	*
Osceola	150	78.0 (49)	16.0 (53)	163	47.2 (4)	155	20.6 (36)	149	79.2 (56)
Oscoda	48	*	*	54	*	48	*	46	*
Otsego	182	96.2 (1)	0.0 (1)	190	34.2 (41)	177	23.2 (29)	155	87.7 (36)
Ottawa	373	92.5 (3)	4.3 (8)	409	32.8 (44)	294	28.2 (17)	287	89.9 (26)
Presque Is	51	*	*	52	*	51	*	43	*
Roscommon	112	81.3 (43)	7.1 (22)	117	44.4 (9)	109	23.9 (25)	97	*
Saginaw	1,359	76.7 (51)	12.0 (42)	1,468	36.3 (38)	1,237	11.5 (58)	1,174	84.6 (49)
Sanilac	206	81.1 (44)	9.7 (34)	226	38.5 (27)	157	40.1 (4)	175	85.1 (47)
Schoolcraf	60	*	*	61	*	59	*	57	*
Shiawassee	354	76.0 (53)	15.5 (52)	390	39.5 (23)	356	14.9 (54)	308	86.7 (41)
St Clair	731	67.4 (62)	24.4 (62)	793	39.7 (22)	709	16.2 (48)	658	86.5 (42)
St Joseph	424	70.8 (61)	20.5 (60)	479	39.9 (21)	421	16.2 (48)	378	88.9 (31)
Tuscola	317	74.1 (55)	17.4 (56)	326	40.2 (20)	301	29.9 (14)	254	91.7 (13)
Van Buren	443	76.7 (51)	18.1 (57)	497	41.4 (17)	385	8.6 (60)	388	83.8 (51)
Washtenaw	1,083	90.7 (5)	2.7 (3)	1,182	32.5 (48)	1,094	17.9 (42)	948	91.9 (12)
Wayne	14,515	82.4 (38)	5.4 (13)	15,291	23.8 (60)	10,846	17.8 (43)	11,367	86.4 (43)
Wexford	309	74.1 (55)	18.8 (58)	319	42.0 (14)	209	32.5 (10)	250	84.8 (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) 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

2017 Pregnancy Nutrition Surveillance (1)

Michigan

Comparison of Maternal Behavioral Indicators by County

Michigan	53,045	83.1	7.7	56,717	30.6	44,576	19.0	43,643	87.3
National (Prior Year)	88,167	83.4	5.4	108,369	19.0	50,771	25.4	50,162	87.6

(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

2017 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	37	*	35	*	12	*	31	*	35	*
Alger	35	*	38	*	20	*	32	*	38	*
Allegan	1,111	25.4 (8)	1,161	13.4 (10)	258	39.9 (9)	970	8.5 (14)	1,165	2.5 (23)
Alpena	173	47.4 (57)	171	28.7 (51)	62	*	152	27.0 (58)	171	6.4 (57)
Antrim	98	*	104	36.5 (62)	44	*	86	*	104	8.7 (61)
Arenac	84	*	94	*	41	*	76	*	94	*
Baraga	49	*	47	*	19	*	48	*	47	*
Barry	219	31.1 (14)	223	22.4 (35)	55	*	180	11.1 (22)	223	1.8 (13)
Bay	547	41.9 (46)	576	24.7 (42)	208	33.7 (18)	495	13.9 (39)	577	3.5 (33)
Benzie	76	*	76	*	27	*	62	*	77	*
Berrien	804	29.2 (11)	860	15.5 (13)	187	35.8 (13)	706	11.2 (23)	860	2.7 (26)
Branch	315	34.9 (26)	311	19.0 (24)	96	*	280	12.9 (31)	311	4.8 (51)
Calhoun	869	31.9 (18)	921	17.7 (18)	245	29.8 (23)	780	11.7 (27)	924	2.8 (27)
Cass	365	25.5 (9)	374	11.5 (6)	80	*	335	9.0 (16)	374	1.6 (7)
Charlevoix	126	38.1 (32)	133	21.1 (29)	41	*	112	13.4 (33)	134	8.2 (59)
Cheboygan	126	57.1 (61)	134	30.6 (56)	59	*	109	22.9 (55)	134	3.0 (29)
Chippewa	221	42.5 (48)	215	31.2 (58)	80	*	201	28.4 (60)	214	17.8 (62)
Clare	197	45.2 (52)	195	30.8 (57)	77	*	181	21.0 (53)	195	5.1 (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

2017 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)
Clinton	171	32.7 (22)	173	19.1 (25)	48	*	144	6.9 (10)	173	1.2 (4)
Crawford	93	*	94	*	34	*	82	*	94	*
Delta	221	38.9 (34)	211	23.2 (37)	66	*	203	9.9 (19)	211	1.9 (16)
Dickinson	138	42.0 (47)	125	25.6 (45)	38	*	112	3.6 (3)	126	1.6 (7)
Eaton	273	39.9 (40)	292	23.3 (38)	84	*	224	6.7 (9)	292	3.1 (32)
Emmet	178	31.5 (16)	183	17.5 (17)	50	*	150	14.0 (40)	183	3.8 (38)
Genesee	2,474	29.2 (11)	2,776	16.1 (15)	629	36.2 (12)	2,070	10.3 (20)	2,780	2.8 (27)
Gladwin	136	45.6 (55)	139	28.8 (52)	53	*	123	27.6 (59)	139	7.9 (58)
Gogebic	84	*	84	*	28	*	72	*	85	*
Gr Travers	438	37.0 (29)	486	22.2 (33)	124	37.1 (11)	343	9.0 (16)	486	3.9 (40)
Gratiot	212	44.8 (51)	215	28.8 (52)	80	*	186	13.4 (33)	215	1.4 (5)
Hillsdale	265	45.3 (53)	279	29.7 (54)	96	*	236	14.4 (43)	279	4.7 (48)
Houghton	175	32.6 (21)	180	18.3 (21)	49	*	156	10.3 (20)	180	1.7 (11)
Huron	164	32.3 (20)	162	16.0 (14)	45	*	137	16.1 (48)	162	2.5 (23)
Ingham	1,632	18.1 (2)	1,741	12.2 (8)	239	33.9 (17)	1,377	7.3 (11)	1,742	4.2 (43)
Ionia	354	39.0 (35)	362	22.9 (36)	115	33.0 (19)	302	14.2 (41)	362	3.6 (34)
Iosco	150	49.3 (58)	156	34.0 (59)	64	*	135	25.9 (57)	156	8.3 (60)
Iron	71	*	61	*	26	*	68	*	61	*
Isabella	366	41.5 (45)	372	23.9 (39)	127	37.8 (10)	318	14.5 (44)	373	2.4 (21)

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

(2) Excludes records with unknown data or errors.

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

(4) 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

2017 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)
Jackson	966	40.7 (42)	995	26.4 (49)	339	28.9 (24)	882	16.3 (51)	994	3.0 (29)
Kalamazoo	1,366	33.5 (24)	1,397	18.3 (21)	374	34.5 (15)	1,209	12.0 (28)	1,397	2.2 (18)
Kalkaska	89	*	93	*	42	*	82	*	93	*
Kent	3,579	19.9 (4)	3,719	10.1 (4)	555	43.4 (5)	3,094	6.2 (7)	3,721	2.1 (17)
Lake	56	*	54	*	24	*	51	*	54	*
Lapeer	373	32.2 (19)	382	14.7 (12)	96	*	323	2.2 (1)	382	0.3 (1)
Leelanau	45	*	49	*	10	*	35	*	49	*
Lenawee	446	40.6 (41)	460	19.3 (26)	139	47.5 (3)	379	11.3 (26)	461	3.9 (40)
Livingston	326	34.4 (25)	329	17.9 (19)	76	*	242	11.2 (23)	332	2.4 (21)
Luce	38	*	50	*	23	*	38	*	50	*
Mackinac	43	*	40	*	16	*	37	*	40	*
Macomb	3,227	20.9 (5)	3,336	9.9 (3)	546	44.5 (4)	2,700	6.0 (5)	3,338	1.6 (7)
Manistee	117	39.3 (37)	117	18.8 (23)	37	*	103	2.9 (2)	117	4.3 (44)
Marquette	223	45.7 (56)	217	28.1 (50)	90	*	204	12.3 (29)	218	1.4 (5)
Mason	162	33.3 (23)	167	16.2 (16)	44	*	151	7.9 (12)	166	1.8 (13)
Mecosta	226	43.4 (49)	239	25.9 (47)	79	*	198	16.2 (50)	239	4.6 (46)
Menominee	86	*	83	*	42	*	78	*	85	*
Midland	372	29.3 (13)	387	18.1 (20)	91	*	312	9.6 (18)	387	1.0 (2)
Missaukee	60	*	73	*	24	*	54	*	73	*

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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

2017 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)
Monroe	589	37.7 (31)	607	24.7 (42)	176	30.1 (22)	502	13.5 (35)	607	4.6 (46)
Montcalm	316	40.8 (43)	332	21.1 (29)	102	43.1 (7)	265	13.2 (32)	332	3.6 (34)
Montmorenc	46	*	47	*	22	*	45	*	47	*
Muskegon	1,337	31.1 (14)	1,394	21.1 (29)	361	25.2 (26)	1,203	13.5 (35)	1,399	5.7 (56)
Newaygo	335	39.4 (38)	351	23.9 (39)	114	30.7 (21)	297	13.8 (37)	351	2.3 (19)
Oakland	3,574	15.2 (1)	3,709	7.9 (2)	403	41.7 (8)	2,900	6.1 (6)	3,708	1.6 (7)
Oceana	164	31.7 (17)	175	20.6 (28)	47	*	145	6.2 (7)	175	1.1 (3)
Ogemaw	146	50.0 (59)	151	36.4 (61)	62	*	126	23.8 (56)	151	5.3 (54)
Ontonagon	17	*	14	*	4	*	15	*	14	*
Osceola	156	44.2 (50)	149	24.2 (41)	62	*	149	22.1 (54)	149	4.7 (48)
Oscoda	48	*	48	*	23	*	46	*	48	*
Otsego	178	45.5 (54)	180	35.6 (60)	64	*	155	19.4 (52)	180	5.6 (55)
Ottawa	365	26.6 (10)	386	12.7 (9)	82	*	292	8.6 (15)	387	2.3 (19)
Presque Is	51	*	51	*	20	*	43	*	51	*
Roscommon	110	51.8 (60)	114	29.8 (55)	49	*	97	*	114	4.4 (45)
Saginaw	1,310	35.3 (28)	1,376	13.7 (11)	398	49.7 (2)	1,175	11.2 (23)	1,376	2.6 (25)
Sanilac	200	35.0 (27)	210	26.2 (48)	70	*	183	14.2 (41)	212	4.7 (48)
Schoolcraf	59	*	59	*	29	*	57	*	59	*
Shiawassee	351	38.2 (33)	363	21.5 (32)	118	35.6 (14)	307	15.3 (46)	365	3.0 (29)

(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

2017 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	730	39.2 (36)	732	24.7 (42)	243	28.4 (25)	658	15.2 (45)	732	3.6 (34)
St Joseph	423	37.6 (30)	442	19.5 (27)	119	31.9 (20)	378	13.8 (37)	443	3.6 (34)
Tuscola	302	41.1 (44)	319	22.3 (34)	102	34.3 (16)	254	16.1 (48)	319	4.1 (42)
Van Buren	433	23.8 (6)	448	11.6 (7)	83	*	388	5.4 (4)	446	1.8 (13)
Washtenaw	1,094	24.1 (7)	1,087	10.4 (5)	201	43.3 (6)	947	7.9 (12)	1,086	1.7 (11)
Wayne	13,534	18.9 (3)	14,695	6.9 (1)	2,099	55.0 (1)	11,373	12.7 (30)	14,691	3.8 (38)
Wexford	283	39.6 (39)	313	25.6 (45)	92	*	250	15.6 (47)	313	4.8 (51)
Michigan	51,028	27.1	53,711	14.1	11,398	39.3	43,712	11.3	53,738	3.2
National (Prior Year)	112,214	29.5	114,607	15.2	15,803	35.0	75,630	14.7	88,858	11.7

(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) 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

2017 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	32	*	*	33	*	27	*	32	*
Alger	35	*	*	37	*	34	*	35	*
Allegan	1,103	9.0 (37)	9.4 (37)	1,128	11.7 (43)	970	3.1 (22)	1,115	75.9 (31)
Alpena	159	11.3 (56)	13.2 (58)	164	9.8 (21)	143	5.6 (54)	158	68.4 (49)
Antrim	93	*	*	98	*	87	*	94	*
Arenac	85	*	*	86	*	74	*	85	*
Baraga	40	*	*	46	*	38	*	40	*
Barry	212	9.9 (45)	9.4 (37)	218	11.0 (33)	185	3.8 (31)	217	79.7 (18)
Bay	545	6.8 (11)	10.1 (45)	551	10.0 (23)	490	3.5 (29)	545	65.1 (53)
Benzie	70	*	*	68	*	64	*	70	*
Berrien	814	8.7 (33)	8.0 (28)	847	11.2 (36)	722	4.7 (49)	817	73.2 (43)
Branch	298	4.7 (3)	10.1 (45)	299	9.0 (13)	266	2.3 (9)	300	83.3 (9)
Calhoun	867	10.6 (54)	7.4 (20)	892	12.3 (47)	756	4.0 (36)	868	73.8 (39)
Cass	345	8.1 (27)	10.1 (45)	350	12.9 (52)	294	3.1 (22)	347	80.7 (14)
Charlevoix	117	7.7 (22)	13.7 (61)	128	7.8 (6)	108	2.8 (15)	126	83.3 (9)
Cheboygan	127	9.4 (39)	7.9 (26)	130	10.0 (23)	114	5.3 (52)	127	78.0 (24)
Chippewa	205	10.7 (55)	11.7 (55)	200	12.5 (50)	171	4.1 (40)	206	69.9 (46)
Clare	180	6.1 (7)	9.4 (37)	188	9.0 (13)	165	3.0 (20)	180	67.8 (51)
Clinton	160	10.0 (48)	10.6 (48)	162	9.3 (17)	144	4.2 (42)	161	87.0 (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) <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 2017 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	88	*	*	89	*	79	*	88	*
Delta	196	6.6 (10)	8.2 (30)	202	10.9 (31)	175	1.7 (4)	196	75.0 (34)
Dickinson	119	8.4 (29)	5.9 (8)	122	7.4 (4)	109	2.8 (15)	119	77.3 (29)
Eaton	282	9.9 (45)	7.1 (17)	292	11.3 (40)	249	2.0 (5)	286	84.6 (7)
Emmet	170	6.5 (9)	7.6 (24)	177	6.8 (2)	157	3.8 (31)	174	81.0 (13)
Genesee	2,682	11.9 (58)	4.8 (1)	2,705	13.8 (57)	2,280	5.7 (55)	2,693	57.8 (60)
Gladwin	126	10.3 (49)	8.7 (34)	134	9.7 (19)	114	6.1 (58)	127	84.3 (8)
Gogebic	83	*	*	83	*	70	*	83	*
Gr Travers	455	8.4 (29)	9.7 (42)	468	8.3 (8)	415	4.1 (40)	455	86.6 (3)
Gratiot	206	6.3 (8)	9.7 (42)	207	7.7 (5)	187	3.2 (25)	206	81.6 (12)
Hillsdale	253	5.1 (4)	9.5 (40)	266	10.9 (31)	227	1.3 (2)	254	78.0 (24)
Houghton	162	4.3 (2)	13.0 (57)	168	8.3 (8)	142	1.4 (3)	162	85.8 (4)
Huron	156	7.7 (22)	10.9 (49)	158	13.3 (53)	135	2.2 (7)	157	74.5 (36)
Ingham	1,644	9.7 (42)	6.7 (13)	1,700	11.4 (41)	1,453	4.3 (45)	1,656	79.4 (22)
Ionia	346	9.0 (37)	6.4 (10)	352	13.4 (55)	298	3.4 (28)	347	79.3 (23)
Iosco	148	6.8 (11)	9.5 (40)	151	7.3 (3)	138	5.8 (56)	148	63.5 (56)
Iron	57	*	*	59	*	49	*	57	*
Isabella	341	8.8 (35)	7.0 (16)	360	9.2 (15)	311	5.8 (56)	341	79.5 (21)
Jackson	943	8.7 (33)	7.1 (17)	964	13.8 (57)	809	3.0 (20)	943	73.6 (41)

(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

2017 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	1,309	9.7 (42)	7.6 (24)	1,345	12.4 (48)	1,133	3.8 (31)	1,316	72.3 (44)
Kalkaska	86	*	*	90	*	78	*	86	*
Kent	3,526	10.4 (51)	7.1 (17)	3,620	13.3 (53)	3,041	4.0 (36)	3,543	75.8 (32)
Lake	53	*	*	54	*	41	*	53	*
Lapeer	362	7.7 (22)	9.1 (36)	363	10.5 (28)	320	3.8 (31)	363	80.4 (17)
Leelanau	44	*	*	47	*	38	*	44	*
Lenawee	432	7.2 (14)	8.8 (35)	445	9.2 (15)	389	3.3 (27)	431	77.7 (28)
Livingston	323	8.0 (26)	8.4 (32)	330	11.2 (36)	285	2.5 (11)	323	74.9 (35)
Luce	45	*	*	48	*	40	*	45	*
Mackinac	38	*	*	38	*	35	*	38	*
Macomb	3,160	10.3 (49)	5.3 (3)	3,262	12.4 (48)	2,733	4.0 (36)	3,235	60.9 (58)
Manistee	109	12.8 (61)	11.9 (56)	113	9.7 (19)	95	*	108	80.6 (15)
Marquette	210	10.5 (53)	10.0 (44)	217	10.1 (25)	188	7.4 (59)	212	79.7 (18)
Mason	163	8.6 (32)	8.0 (28)	164	11.6 (42)	143	4.2 (42)	163	77.9 (26)
Mecosta	233	7.3 (16)	6.4 (10)	232	8.2 (7)	213	4.2 (42)	233	75.1 (33)
Menominee	83	*	*	82	*	68	*	83	*
Midland	368	6.0 (6)	10.9 (49)	372	8.9 (12)	334	2.1 (6)	369	74.5 (36)
Missaukee	62	*	*	67	*	57	*	62	*
Monroe	573	7.9 (25)	6.3 (9)	587	10.1 (25)	510	2.7 (13)	556	62.9 (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 2017 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	321	7.5 (19)	7.5 (21)	318	10.1 (25)	281	3.2 (25)	321	85.7 (5)
Montmorenc	46	*	*	46	*	41	*	46	*
Muskegon	1,326	10.4 (51)	5.4 (4)	1,339	14.3 (61)	1,100	4.0 (36)	1,328	64.1 (54)
Newaygo	321	7.2 (14)	10.9 (49)	330	10.6 (29)	287	2.8 (15)	320	73.4 (42)
Oakland	3,530	12.3 (59)	5.4 (4)	3,624	14.2 (60)	3,010	5.1 (51)	3,563	67.9 (50)
Oceana	165	7.3 (16)	6.7 (13)	165	6.1 (1)	152	4.6 (48)	166	76.5 (30)
Ogemaw	146	7.5 (19)	7.5 (21)	147	8.8 (11)	132	4.5 (46)	146	66.4 (52)
Ontonagon	13	*	*	14	*	13	*	13	*
Osceola	140	2.9 (1)	11.4 (54)	143	11.2 (36)	126	0.0 (1)	140	87.1 (1)
Oscoda	48	*	*	48	*	47	*	48	*
Otsego	126	9.5 (40)	13.5 (60)	170	10.6 (29)	111	2.7 (13)	153	77.8 (27)
Ottawa	358	9.8 (44)	13.4 (59)	370	12.2 (46)	310	2.9 (18)	365	80.5 (16)
Presque Is	49	*	*	50	*	44	*	49	*
Roscommon	106	7.5 (19)	7.5 (21)	108	12.0 (44)	92	*	107	72.0 (45)
Saginaw	1,317	12.7 (60)	5.6 (6)	1,338	12.8 (51)	1,145	4.9 (50)	1,318	59.3 (59)
Sanilac	204	8.8 (35)	6.9 (15)	206	11.2 (36)	177	2.3 (9)	204	63.7 (55)
Schoolcraf	52	*	*	52	*	46	*	52	*
Shiawassee	351	7.4 (18)	8.3 (31)	356	8.4 (10)	319	3.1 (22)	351	74.4 (38)
St Clair	691	8.1 (27)	6.4 (10)	703	11.1 (35)	613	2.9 (18)	690	69.7 (47)

(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

2017 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	418	9.6 (41)	8.4 (32)	423	12.1 (45)	361	2.5 (11)	421	84.8 (6)
Tuscola	309	8.4 (29)	11.0 (52)	310	11.0 (33)	272	3.7 (30)	309	73.8 (39)
Van Buren	420	5.5 (5)	11.0 (52)	427	9.8 (21)	372	2.2 (7)	423	69.5 (48)
Washtenaw	1,033	9.9 (45)	5.7 (7)	1,053	14.0 (59)	885	4.5 (46)	992	79.7 (18)
Wayne	13,619	11.7 (57)	5.1 (2)	14,219	13.7 (56)	11,600	5.3 (52)	13,905	53.6 (61)
Wexford	291	6.9 (13)	7.9 (26)	296	9.5 (18)	256	3.9 (35)	292	82.5 (11)
Michigan	50,526	10.2	6.7	52,025	12.4	43,785	4.3	51,003	66.7
National (Prior Year)	56,577	9.7	7.0	58,441	12.2	49,086	4.1	56,962	58.2

(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) <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

2015 - 2017 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	114	95.6	0.0	1.8	0.0	0.0	2.6	0.0
Alger	102	91.2	0.0	0.0	3.9	0.0	4.9	0.0
Allegan	4,219	57.4	3.7	31.7	0.1	3.3	2.5	1.3
Alpena	549	93.8	0.5	2.6	0.0	0.4	2.0	0.7
Antrim	348	93.7	0.0	2.3	0.3	0.0	3.4	0.3
Arenac	317	93.4	0.0	2.2	0.3	0.6	3.2	0.3
Baraga	164	54.9	0.0	0.6	40.2	0.0	3.7	0.6
Barry	821	94.8	0.2	3.0	0.1	0.6	1.0	0.1
Bay	1,872	81.4	3.2	9.3	0.1	0.3	5.0	0.7
Benzie	303	88.1	1.0	5.6	1.0	0.7	2.0	1.7
Berrien	3,004	51.3	36.3	6.9	0.2	0.7	3.3	1.3
Branch	1,099	85.7	0.7	10.4	0.0	0.5	2.0	0.6
Calhoun	3,293	61.5	19.2	7.1	0.2	5.5	5.7	0.9
Cass	1,269	61.5	6.0	24.7	0.3	0.7	5.4	1.3
Charlevoix	430	85.8	0.5	4.0	0.2	0.9	8.6	0.0
Cheboygan	412	83.3	1.0	2.4	0.0	1.0	12.4	0.0
Chippewa	752	58.9	0.4	2.1	17.6	0.9	20.1	0.0
Clare	720	92.2	0.0	3.9	0.1	0.3	2.2	1.3
Clinton	636	85.2	1.3	10.8	0.2	0.3	2.2	0.0
Crawford	290	93.8	0.3	0.3	0.3	0.3	4.5	0.3
Delta	773	85.4	0.4	2.7	0.6	1.2	9.2	0.5
Dickinson	475	92.2	0.0	2.1	0.4	0.6	3.2	1.5
Eaton	1,037	88.5	3.8	5.1	0.0	0.6	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 3B

2015 - 2017 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	579	87.9	1.4	1.4	3.3	0.5	5.5	0.0
Genesee	9,088	49.0	39.2	4.7	0.1	0.5	6.0	0.6
Gladwin	476	96.4	0.2	1.9	0.0	0.0	1.3	0.2
Gogebic	281	86.8	1.4	2.5	7.1	0.4	1.1	0.7
Gr Travers	1,562	87.4	1.2	6.3	1.3	0.8	2.5	0.6
Gratiot	736	85.7	0.3	12.4	0.0	0.3	1.2	0.1
Hillsdale	937	91.5	0.2	2.9	0.0	0.1	3.5	1.8
Houghton	608	90.5	0.8	0.7	0.0	4.6	3.3	0.2
Huron	553	93.5	0.2	4.2	0.2	0.0	1.3	0.7
Ingham	5,675	43.9	27.1	14.7	0.2	6.3	6.9	0.8
Ionia	1,222	88.6	0.2	8.9	0.1	0.2	1.9	0.0
Iosco	527	91.7	0.4	2.7	0.2	0.0	4.7	0.4
Iron	212	94.8	0.0	2.4	0.0	0.0	1.4	1.4
Isabella	1,186	80.7	4.2	3.9	2.5	3.0	5.6	0.1
Jackson	3,383	73.7	14.0	5.6	0.2	0.6	5.6	0.3
Kalamazoo	4,922	50.7	33.2	9.0	0.1	1.2	5.2	0.6
Kalkaska	302	94.4	0.0	1.7	0.3	0.7	3.0	0.0
Kent	12,757	39.3	23.5	27.8	0.2	4.1	4.7	0.5
Lake	217	71.4	17.5	6.0	0.0	0.0	4.1	0.9
Lapeer	1,376	80.5	0.4	14.0	0.1	0.3	4.1	0.7
Leelanau	167	54.5	1.8	22.2	9.0	1.2	8.4	3.0
Lenawee	1,688	75.7	1.6	17.1	0.0	0.4	4.3	0.9
Livingston	1,271	89.5	0.7	4.8	0.2	1.5	2.4	0.9
Luce	124	87.1	0.0	1.6	1.6	0.0	9.7	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

2015 - 2017 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	139	46.8	1.4	3.6	1.4	0.7	45.3	0.7
Macomb	11,303	59.8	26.4	4.2	0.0	5.0	4.0	0.3
Manistee	398	79.6	1.8	6.8	1.8	0.5	9.3	0.3
Marquette	894	85.0	0.6	3.0	1.0	1.1	8.4	0.9
Mason	541	84.8	0.7	10.0	0.2	0.0	3.9	0.4
Mecosta	806	90.1	4.5	2.2	0.1	0.1	2.4	0.6
Menominee	336	70.2	0.9	5.7	12.8	0.0	8.3	2.1
Midland	1,237	93.6	0.7	2.0	0.1	0.7	2.3	0.6
Missaukee	237	95.4	0.0	3.8	0.4	0.0	0.4	0.0
Monroe	2,118	83.8	6.2	5.5	0.1	0.5	3.2	0.7
Montcalm	1,132	92.8	0.3	4.3	0.1	0.1	1.9	0.5
Montmorenc	136	97.1	0.0	1.5	0.7	0.0	0.0	0.7
Muskegon	4,656	58.2	26.7	8.2	0.3	0.4	5.8	0.4
Newaygo	1,151	81.5	0.3	14.8	0.1	0.5	2.0	0.9
Oakland	12,283	42.8	40.4	11.1	0.1	2.4	3.1	0.3
Oceana	668	56.6	0.3	38.6	0.1	0.0	2.8	1.5
Ogemaw	452	92.5	0.4	3.5	0.0	0.0	3.3	0.2
Ontonagon	68	*	*	*	*	*	*	*
Osceola	410	94.9	1.0	2.0	0.5	0.0	1.2	0.5
Oscoda	169	95.3	0.6	2.4	0.0	0.6	0.6	0.6
Otsego	605	95.9	0.2	1.7	0.0	1.0	1.3	0.0
Ottawa	1,339	85.9	1.6	7.0	0.1	1.3	3.4	0.6
Presque Is	140	93.6	0.7	0.7	0.0	0.7	4.3	0.0
Roscommon	392	90.8	0.8	2.6	0.0	0.8	3.8	1.3

(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

2015 - 2017 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	4,553	39.1	41.0	15.3	0.0	0.6	3.5	0.5
Sanilac	707	92.9	0.1	4.7	0.1	0.0	1.4	0.7
Schoolcraf	179	79.9	0.6	0.6	7.8	0.0	11.2	0.0
Shiawassee	1,286	88.1	0.6	5.6	0.1	0.4	4.7	0.4
St Clair	2,567	82.8	5.8	5.5	0.2	0.6	4.7	0.4
St Joseph	1,556	74.0	4.1	18.1	0.1	0.3	2.7	0.8
Tuscola	1,003	93.2	0.8	3.4	0.2	0.2	2.0	0.2
Van Buren	1,691	59.7	4.3	28.6	0.2	0.7	3.3	3.3
Washtenaw	3,876	37.9	38.5	10.0	0.1	4.3	8.5	0.6
Wayne	47,727	28.1	57.8	9.1	0.1	2.4	2.1	0.3
Wexford	995	94.4	0.3	2.2	0.0	0.3	2.6	0.2
Michigan	180,927	53.2	29.4	10.4	0.3	2.2	3.9	0.6

(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

2015 - 2017 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	114	0.0	2.6	8.8	63.2	24.6	0.9	0.0
Alger	102	0.0	5.9	4.9	61.8	25.5	1.0	1.0
Allegan	4,219	0.2	3.6	8.4	63.7	22.4	1.7	0.0
Alpena	549	0.2	3.6	9.5	63.4	22.0	1.3	0.0
Antrim	348	0.0	1.7	9.5	63.5	24.1	1.1	0.0
Arenac	317	0.0	4.1	10.4	64.4	21.1	0.0	0.0
Baraga	164	0.6	4.3	9.8	55.5	28.0	1.8	0.0
Barry	821	0.1	4.1	9.5	68.6	17.1	0.6	0.0
Bay	1,872	0.1	3.2	8.7	64.4	22.8	0.9	0.0
Benzie	303	0.0	4.3	7.3	67.3	19.1	1.7	0.3
Berrien	3,004	0.5	4.3	9.4	63.9	20.5	1.2	0.3
Branch	1,099	0.1	3.9	9.2	62.9	21.5	2.4	0.1
Calhoun	3,293	0.1	3.2	9.1	65.7	20.3	1.2	0.2
Cass	1,269	0.1	4.4	9.3	63.4	21.7	1.1	0.0
Charlevoix	430	0.0	2.6	10.2	61.9	23.5	1.9	0.0
Cheboygan	412	0.0	2.2	7.3	71.6	18.0	1.0	0.0
Chippewa	752	0.0	2.0	8.8	63.7	24.3	1.2	0.0
Clare	720	0.3	3.8	11.4	66.5	16.1	1.9	0.0
Clinton	636	0.0	2.5	8.6	62.7	24.1	2.0	0.0
Crawford	290	0.0	3.8	10.3	63.1	22.4	0.3	0.0
Delta	773	0.1	2.5	8.0	64.8	23.5	1.0	0.0
Dickinson	475	0.0	3.6	8.6	61.3	24.8	1.5	0.2
Eaton	1,037	0.2	2.0	8.8	63.5	24.0	1.2	0.3
Emmet	579	0.0	1.2	9.0	67.4	21.9	0.5	0.0

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

(2) Excludes data with errors.

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

WIC PNNS & PedNSS

Table 4B

2015 - 2017 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	9,088	0.2	3.0	9.8	66.4	19.4	1.1	0.0
Gladwin	476	0.0	3.6	8.4	68.5	18.1	1.1	0.4
Gogebic	281	0.0	3.9	8.5	64.1	22.8	0.7	0.0
Gr Travers	1,562	0.0	2.8	7.1	62.9	25.4	1.3	0.4
Gratiot	736	0.1	2.4	8.4	65.8	21.5	1.8	0.0
Hillsdale	937	0.0	3.1	10.4	69.6	16.1	0.9	0.0
Houghton	608	0.0	2.0	8.7	60.4	27.3	1.6	0.0
Huron	553	0.0	2.2	10.1	63.1	23.7	0.7	0.2
Ingham	5,675	0.2	3.1	8.2	62.5	24.2	1.6	0.1
Ionia	1,222	0.2	3.8	10.8	67.6	17.1	0.6	0.0
Iosco	527	0.0	5.1	6.8	66.6	20.5	0.9	0.0
Iron	212	0.0	3.3	9.9	58.5	26.4	1.9	0.0
Isabella	1,186	0.0	2.7	8.0	66.0	22.5	0.7	0.1
Jackson	3,383	0.1	3.5	9.1	66.9	18.9	1.1	0.3
Kalamazoo	4,922	0.1	4.4	10.0	62.1	21.8	1.5	0.1
Kalkaska	302	0.3	3.3	7.3	66.6	21.5	1.0	0.0
Kent	12,757	0.2	3.5	7.5	60.3	25.8	1.9	0.7
Lake	217	0.0	5.1	12.4	67.7	13.8	0.9	0.0
Lapeer	1,376	0.1	2.5	7.8	67.5	20.6	1.2	0.1
Leelanau	167	0.0	2.4	8.4	55.7	31.7	0.6	1.2
Lenawee	1,688	0.2	3.5	9.8	65.6	19.8	1.1	0.0
Livingston	1,271	0.0	1.8	6.0	63.6	27.1	1.5	0.0
Luce	124	0.0	4.0	3.2	73.4	19.4	0.0	0.0
Mackinac	139	0.0	2.2	2.9	66.2	28.1	0.7	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 4B

2015 - 2017 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	11,303	0.1	1.6	5.6	63.0	27.5	2.2	0.0
Manistee	398	0.0	5.5	14.3	55.8	22.9	1.3	0.3
Marquette	894	0.0	3.7	6.3	63.0	25.4	1.7	0.0
Mason	541	0.2	3.5	8.3	70.8	16.3	0.9	0.0
Mecosta	806	0.0	3.6	10.0	68.2	17.0	1.1	0.0
Menominee	336	0.0	4.5	13.1	58.0	23.2	0.9	0.3
Midland	1,237	0.2	2.5	7.4	66.8	21.9	1.1	0.1
Missaukee	237	0.0	3.4	9.3	67.5	18.1	1.7	0.0
Monroe	2,118	0.1	3.9	9.9	64.2	20.8	1.1	0.0
Montcalm	1,132	0.2	2.7	9.5	69.6	17.0	1.0	0.0
Montmorenc	136	0.0	2.9	8.8	69.9	18.4	0.0	0.0
Muskegon	4,656	0.2	3.8	8.9	65.7	20.1	1.2	0.0
Newaygo	1,151	0.2	3.8	9.8	62.9	21.2	2.1	0.0
Oakland	12,283	0.1	2.3	6.8	61.0	27.5	2.2	0.1
Oceana	668	0.0	4.2	10.0	63.8	21.0	1.0	0.0
Ogemaw	452	0.0	3.1	8.0	69.0	18.8	1.1	0.0
Ontonagon	68	*	*	*	*	*	*	*
Osceola	410	0.2	5.4	9.5	61.5	22.2	1.2	0.0
Oscoda	169	0.0	1.8	11.2	72.2	13.6	1.2	0.0
Otsego	605	0.2	3.8	9.1	62.8	23.3	0.8	0.0
Ottawa	1,339	0.0	2.1	6.6	62.9	26.7	1.6	0.1
Presque Is	140	0.0	2.1	10.7	62.1	20.7	4.3	0.0
Roscommon	392	0.3	3.1	9.9	65.3	20.7	0.8	0.0
Saginaw	4,553	0.3	3.5	8.9	65.6	20.4	1.2	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

2015 - 2017 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	707	0.0	5.4	9.2	63.4	21.5	0.6	0.0
Schoolcraf	179	1.1	2.8	11.2	67.0	17.9	0.0	0.0
Shiawassee	1,286	0.2	3.3	10.0	66.8	18.6	1.0	0.0
St Clair	2,567	0.1	3.3	9.5	64.8	21.0	1.3	0.0
St Joseph	1,556	0.1	4.2	12.3	61.7	21.0	0.8	0.0
Tuscola	1,003	0.2	3.2	8.7	66.4	20.1	1.3	0.1
Van Buren	1,691	0.1	4.0	9.1	62.8	22.0	2.0	0.0
Washtenaw	3,876	0.1	2.3	6.3	61.8	27.2	2.3	0.0
Wayne	47,727	0.1	2.7	7.0	62.7	24.9	2.3	0.2
Wexford	995	0.2	3.1	9.2	67.5	19.7	0.2	0.0
Michigan	180,927	0.1	3.0	8.0	63.4	23.6	1.7	0.2

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

(2) Excludes data with errors.

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

WIC PNNS & PedNSS

Table 5B

2015 - 2017 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	102	5.9 (73)	67.6 (79)	55	*	*	16	*	27	*	104	4.8 (7)	104	9.6 (29)
Alger	93	*	*	54	*	*	13	*	23	*	95	*	95	*
Allegan	3,486	4.6 (47)	58.6 (55)	2,141	21.9 (66)	47.7 (7)	542	49.4 (36)	754	40.3 (48)	3,774	8.6 (72)	3,780	9.5 (28)
Alpena	523	3.8 (22)	56.6 (28)	462	20.1 (49)	51.1 (34)	81	*	113	23.0 (12)	512	3.1 (1)	511	7.4 (9)
Antrim	255	6.3 (78)	57.3 (37)	148	20.3 (51)	52.0 (43)	34	*	56	*	320	5.9 (25)	321	7.8 (12)
Arenac	261	3.4 (15)	58.2 (50)	199	18.1 (25)	52.8 (55)	43	*	45	*	306	8.2 (66)	306	10.5 (42)
Baraga	153	7.2 (80)	56.2 (25)	111	17.1 (14)	39.6 (2)	16	*	39	*	147	7.5 (55)	147	10.2 (37)
Barry	627	4.9 (55)	58.2 (50)	369	14.1 (1)	59.1 (73)	104	30.8 (8)	157	16.6 (3)	756	6.9 (44)	754	13.3 (70)
Bay	1,448	4.8 (54)	58.6 (55)	1,098	20.1 (49)	48.9 (13)	240	33.3 (13)	254	26.0 (17)	1,750	6.6 (38)	1,750	9.8 (32)
Benzie	291	3.1 (13)	58.4 (53)	238	24.8 (72)	52.1 (46)	32	*	30	*	276	4.7 (6)	277	5.8 (2)
Berrien	2,570	4.0 (25)	58.1 (48)	1,942	17.4 (15)	54.6 (68)	446	42.4 (25)	502	34.9 (42)	2,714	5.7 (20)	2,715	11.7 (57)
Branch	916	4.7 (50)	56.9 (33)	584	16.3 (9)	52.4 (50)	138	13.8 (1)	148	23.0 (12)	988	8.3 (68)	988	6.3 (3)
Calhoun	2,707	4.2 (34)	56.8 (32)	1,686	19.6 (43)	51.5 (39)	457	52.1 (38)	568	37.7 (46)	3,013	6.6 (38)	3,009	9.2 (24)
Cass	1,015	4.0 (25)	58.4 (53)	671	18.6 (33)	50.8 (32)	147	43.5 (27)	158	31.0 (33)	1,129	5.3 (14)	1,126	9.9 (33)
Charlevoix	365	4.4 (40)	55.6 (21)	247	20.6 (55)	49.8 (21)	51	*	69	*	411	6.8 (42)	411	8.3 (13)
Cheboygan	385	5.2 (61)	56.9 (33)	317	19.9 (46)	50.5 (30)	66	*	73	*	391	4.9 (10)	391	5.4 (1)
Chippewa	594	2.9 (9)	61.6 (72)	286	17.8 (18)	53.8 (62)	70	*	107	31.8 (36)	686	7.7 (62)	686	12.4 (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.

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

WIC PNNS & PedNSS

Table 5B

2015 - 2017 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	681	5.0 (57)	64.3 (77)	554	19.5 (42)	49.6 (19)	83	*	105	28.6 (24)	659	7.0 (45)	661	6.4 (4)
Clinton	574	4.5 (45)	56.6 (28)	468	18.2 (30)	55.6 (71)	103	20.4 (4)	161	21.1 (10)	588	6.0 (27)	590	13.7 (73)
Crawford	278	4.0 (25)	61.5 (71)	225	16.4 (10)	60.4 (74)	31	*	73	*	273	6.6 (38)	274	9.1 (22)
Delta	628	4.5 (45)	54.3 (13)	407	22.6 (67)	42.0 (3)	79	*	147	25.9 (16)	699	13.2 (80)	699	11.0 (47)
Dickinson	409	4.4 (40)	51.3 (4)	243	16.0 (4)	45.3 (4)	52	*	99	*	422	3.3 (2)	420	10.5 (42)
Eaton	790	5.1 (60)	56.1 (24)	561	16.2 (6)	52.4 (50)	173	34.7 (17)	234	20.1 (8)	953	9.1 (77)	953	15.2 (80)
Emmet	478	4.0 (25)	51.5 (5)	277	21.7 (64)	50.2 (27)	93	*	68	*	546	4.9 (10)	547	8.4 (14)
Genesee	7,907	5.3 (64)	55.7 (22)	4,811	18.0 (23)	53.2 (59)	1,562	46.4 (31)	1,490	32.4 (38)	8,491	7.4 (52)	8,487	13.4 (71)
Gladwin	435	5.3 (64)	59.8 (65)	332	18.1 (25)	50.0 (23)	36	*	90	*	446	4.3 (5)	447	12.1 (62)
Gogebic	228	4.4 (40)	55.3 (19)	153	19.6 (43)	47.7 (7)	37	*	58	*	252	8.7 (74)	252	10.3 (39)
Gr Travers	1,395	5.2 (61)	50.5 (2)	1,103	16.2 (6)	52.0 (43)	220	60.0 (40)	205	45.4 (51)	1,470	6.1 (30)	1,471	8.4 (14)
Gratiot	661	5.9 (73)	58.9 (59)	461	20.6 (55)	52.3 (49)	89	*	133	19.5 (6)	690	5.7 (20)	690	15.1 (79)
Hillsdale	801	5.7 (70)	57.4 (38)	559	18.2 (30)	48.5 (11)	112	32.1 (10)	157	23.6 (14)	856	4.2 (3)	857	6.5 (5)
Houghton	479	3.1 (13)	47.2 (1)	303	16.2 (6)	53.8 (62)	73	*	154	18.8 (5)	567	6.2 (33)	567	11.6 (54)
Huron	467	4.1 (29)	61.9 (74)	381	17.8 (18)	49.9 (22)	55	*	104	21.2 (11)	511	9.2 (78)	509	12.8 (68)
Ingham	4,893	4.7 (50)	57.5 (39)	3,803	17.9 (20)	52.4 (50)	925	38.2 (19)	1,024	29.6 (27)	5,263	5.8 (23)	5,266	10.3 (39)
Ionia	949	4.7 (50)	59.1 (61)	746	17.4 (15)	52.8 (55)	184	16.8 (2)	238	11.8 (1)	1,111	5.4 (17)	1,110	12.0 (59)

(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

2015 - 2017 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	479	5.0 (57)	61.4 (70)	326	20.6 (55)	50.6 (31)	62	*	88	*	497	4.8 (7)	497	8.5 (17)
Iron	167	2.4 (2)	56.3 (26)	72	*	*	22	*	33	*	187	5.3 (14)	188	14.9 (78)
Isabella	1,106	3.7 (20)	58.7 (57)	812	18.7 (37)	51.1 (34)	169	32.5 (11)	233	30.0 (28)	1,108	7.6 (59)	1,108	8.4 (14)
Jackson	2,516	5.9 (73)	58.0 (47)	1,617	18.1 (25)	51.2 (38)	479	49.9 (37)	653	40.0 (47)	3,109	6.1 (30)	3,110	10.0 (36)
Kalamazoo	4,105	4.2 (34)	58.7 (57)	2,784	19.3 (40)	53.6 (61)	644	45.8 (30)	1,067	34.8 (41)	4,452	8.5 (71)	4,454	9.6 (29)
Kalkaska	285	3.5 (18)	51.6 (6)	230	19.6 (43)	54.3 (66)	40	*	81	*	286	8.4 (70)	286	6.6 (6)
Kent	9,382	4.3 (37)	56.9 (33)	5,641	24.3 (71)	45.9 (5)	1,918	40.7 (21)	3,170	33.7 (39)	11,721	7.2 (49)	11,732	11.0 (47)
Lake	193	5.7 (70)	61.7 (73)	134	25.4 (73)	56.0 (72)	23	*	36	*	197	5.6 (18)	199	9.0 (19)
Lapeer	1,331	4.7 (50)	56.9 (33)	1,154	16.5 (11)	54.0 (64)	209	34.0 (16)	330	30.6 (31)	1,275	4.9 (10)	1,276	7.3 (8)
Leelanau	151	2.6 (5)	60.3 (66)	120	15.0 (3)	54.2 (65)	24	*	26	*	152	5.9 (25)	152	8.6 (18)
Lenawee	1,392	3.9 (23)	58.1 (48)	793	21.4 (61)	49.2 (16)	315	35.9 (18)	340	28.5 (23)	1,548	6.8 (42)	1,550	12.5 (64)
Livingston	1,195	5.9 (73)	52.0 (8)	896	14.8 (2)	54.5 (67)	219	25.6 (5)	411	16.5 (2)	1,154	8.0 (65)	1,157	11.3 (53)
Luce	121	2.5 (3)	67.8 (80)	76	*	*	14	*	23	*	121	9.9 (79)	121	9.1 (22)
Mackinac	138	1.4 (1)	53.6 (12)	121	23.1 (69)	52.1 (46)	15	*	24	*	124	5.6 (18)	124	14.5 (76)
Macomb	10,124	4.3 (37)	56.6 (28)	8,358	17.9 (20)	52.6 (53)	2,040	45.0 (28)	2,717	34.5 (40)	10,471	8.2 (66)	10,479	10.3 (39)
Manistee	357	5.6 (68)	56.6 (28)	240	18.8 (38)	53.3 (60)	70	*	101	27.7 (21)	362	7.7 (62)	362	9.9 (33)
Marquette	786	3.9 (23)	55.0 (18)	603	18.1 (25)	49.1 (15)	111	27.9 (7)	246	19.5 (6)	789	6.7 (41)	792	11.0 (47)

(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

2015 - 2017 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	463	3.7 (20)	57.5 (39)	324	20.4 (52)	49.4 (17)	72	*	101	28.7 (25)	503	5.2 (13)	503	12.7 (66)
Mecosta	683	5.6 (68)	58.3 (52)	489	20.0 (47)	47.9 (9)	128	31.3 (9)	151	23.8 (15)	757	4.8 (7)	757	10.7 (44)
Menominee	249	2.8 (7)	51.8 (7)	157	21.7 (64)	49.0 (14)	39	*	62	*	289	7.6 (59)	289	7.6 (10)
Midland	1,105	3.4 (15)	57.7 (44)	759	20.7 (59)	51.1 (34)	172	33.7 (14)	296	29.4 (26)	1,164	6.2 (33)	1,164	9.4 (26)
Missaukee	222	2.7 (6)	57.7 (44)	186	20.4 (52)	50.0 (23)	32	*	53	*	223	5.8 (23)	223	9.4 (26)
Monroe	1,670	5.0 (57)	54.9 (17)	1,068	21.2 (60)	50.3 (28)	371	43.4 (26)	425	30.8 (32)	1,929	7.1 (47)	1,931	12.8 (68)
Montcalm	1,059	4.6 (47)	56.4 (27)	897	21.5 (62)	49.7 (20)	156	19.2 (3)	295	18.3 (4)	1,057	7.2 (49)	1,059	12.0 (59)
Montmorenc	130	6.2 (77)	55.4 (20)	104	18.3 (32)	48.1 (10)	20	*	29	*	126	7.1 (47)	126	11.1 (50)
Muskegon	4,334	4.3 (37)	59.4 (63)	3,468	20.5 (54)	50.1 (26)	605	41.8 (23)	429	28.2 (22)	4,321	8.6 (72)	4,322	13.4 (71)
Newaygo	1,084	4.2 (34)	61.3 (69)	825	20.6 (55)	49.5 (18)	132	45.5 (29)	205	31.7 (35)	1,084	8.7 (74)	1,086	14.5 (76)
Oakland	10,908	4.1 (29)	57.5 (39)	8,216	18.6 (33)	51.7 (40)	2,314	48.4 (35)	2,876	36.0 (44)	11,433	6.3 (36)	11,433	10.7 (44)
Oceana	561	3.4 (15)	64.3 (77)	440	18.0 (23)	51.1 (34)	70	*	94	*	589	7.5 (55)	589	12.7 (66)
Ogemaw	398	3.0 (11)	59.5 (64)	279	16.8 (12)	52.7 (54)	47	*	86	*	420	8.3 (68)	420	12.6 (65)
Ontonagon	62	*	*	37	*	*	4	*	16	*	60	*	60	*
Osceola	363	4.4 (40)	62.0 (75)	276	18.1 (25)	55.1 (69)	46	*	95	*	379	6.1 (30)	379	9.2 (24)
Oscoda	153	4.6 (47)	52.9 (9)	99	*	*	15	*	30	*	157	7.0 (45)	157	7.6 (10)
Otsego	459	4.4 (40)	57.5 (39)	318	18.6 (33)	52.2 (48)	98	*	101	36.6 (45)	571	4.2 (3)	570	9.6 (29)

(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

2015 - 2017 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	1,094	2.8 (7)	54.8 (16)	676	16.0 (4)	52.8 (55)	174	42.0 (24)	286	31.1 (34)	1,247	7.5 (55)	1,245	11.7 (57)
Presque Is	122	2.5 (3)	53.3 (11)	92	*	*	28	*	31	*	133	5.3 (14)	133	9.0 (19)
Roscommon	364	5.5 (67)	54.4 (14)	195	21.5 (62)	51.8 (41)	45	*	58	*	361	7.2 (49)	362	11.6 (54)
Saginaw	3,681	3.6 (19)	62.6 (76)	2,787	23.5 (70)	47.1 (6)	728	47.8 (33)	1,373	40.4 (49)	4,212	6.0 (27)	4,212	11.6 (54)
Sanilac	543	6.4 (79)	57.6 (43)	302	17.9 (20)	50.0 (23)	97	*	143	26.6 (19)	648	6.0 (27)	649	10.2 (37)
Schoolcraf	147	5.4 (66)	51.0 (3)	79	*	*	12	*	31	*	168	8.9 (76)	168	13.7 (73)
Shiawassee	1,215	5.2 (61)	59.0 (60)	1,037	18.6 (33)	50.3 (28)	196	33.7 (14)	217	30.0 (28)	1,216	7.7 (62)	1,216	9.0 (19)
St Clair	2,402	4.9 (55)	54.4 (14)	2,004	16.8 (12)	52.8 (55)	383	46.5 (32)	466	32.0 (37)	2,319	7.6 (59)	2,327	9.9 (33)
St Joseph	1,242	3.0 (11)	60.7 (67)	888	17.7 (17)	55.2 (70)	191	40.3 (20)	281	30.2 (30)	1,416	6.2 (33)	1,419	13.9 (75)
Tuscola	761	5.7 (70)	53.2 (10)	572	19.4 (41)	51.0 (33)	118	26.3 (6)	156	20.5 (9)	962	7.5 (55)	962	10.7 (44)
Van Buren	1,406	2.9 (9)	61.0 (68)	775	38.1 (74)	32.5 (1)	189	32.8 (12)	261	26.4 (18)	1,498	7.4 (52)	1,497	7.2 (7)
Washtenaw	3,522	4.1 (29)	57.7 (44)	2,409	20.0 (47)	48.7 (12)	641	48.0 (34)	989	35.3 (43)	3,496	7.4 (52)	3,496	12.0 (59)
Wayne	38,591	4.1 (29)	59.3 (62)	28,262	19.1 (39)	52.0 (43)	8,783	53.1 (39)	8,583	40.5 (50)	44,882	6.5 (37)	44,897	11.1 (50)
Wexford	960	4.1 (29)	56.0 (23)	843	22.8 (68)	51.8 (41)	124	41.1 (22)	215	27.0 (20)	932	5.7 (20)	933	11.1 (50)
Michigan	151,746	4.4	57.8	108,901	19.4	51.2	28,808	45.2	35,717	34.2	167,329	6.9	167,397	10.9

(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) 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

2015 - 2017 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	106	80.2 (47)	11.3 (43)	112	33.9 (68)	104	21.2 (51)	90	*
Alger	95	*	*	101	48.5 (8)	84	*	81	*
Allegan	3,652	87.5 (18)	6.7 (20)	4,179	40.8 (38)	2,617	25.0 (28)	3,292	76.4 (76)
Alpena	511	87.3 (20)	7.0 (21)	538	39.4 (47)	509	24.4 (31)	465	91.6 (9)
Antrim	324	75.6 (60)	17.9 (64)	342	45.6 (15)	322	22.7 (40)	286	86.0 (57)
Arenac	305	77.7 (55)	17.7 (63)	313	41.9 (33)	288	22.2 (44)	267	85.0 (60)
Baraga	147	89.8 (7)	4.8 (11)	162	44.4 (17)	144	21.5 (48)	135	90.4 (18)
Barry	747	94.0 (1)	2.0 (1)	813	37.3 (57)	619	24.4 (31)	644	92.1 (4)
Bay	1,716	71.5 (70)	21.5 (71)	1,853	46.5 (13)	1,716	20.4 (56)	1,580	84.4 (61)
Benzie	272	69.9 (73)	24.3 (77)	293	43.3 (27)	176	29.5 (16)	234	80.3 (73)
Berrien	2,683	77.8 (54)	9.2 (28)	2,956	31.7 (72)	2,367	16.5 (68)	2,272	88.5 (40)
Branch	818	78.4 (52)	12.2 (47)	1,074	44.6 (16)	931	21.7 (47)	923	80.9 (71)
Calhoun	2,926	88.3 (11)	5.1 (13)	3,239	37.5 (55)	2,142	17.6 (65)	2,584	81.0 (70)
Cass	1,104	87.0 (21)	8.0 (22)	1,233	44.2 (22)	1,021	45.9 (3)	1,029	78.1 (75)
Charlevoix	413	83.1 (33)	11.1 (39)	422	44.1 (24)	388	26.8 (19)	339	87.3 (46)
Cheboygan	391	83.4 (31)	9.7 (32)	404	37.4 (56)	376	21.0 (52)	328	89.9 (28)
Chippewa	689	88.2 (12)	10.0 (34)	727	50.1 (6)	648	64.4 (2)	639	86.7 (51)
Clare	655	69.5 (75)	24.4 (78)	710	47.3 (10)	636	14.5 (75)	598	87.0 (49)
Clinton	587	88.9 (9)	4.6 (8)	628	36.5 (61)	534	24.3 (33)	492	90.4 (18)
Crawford	273	82.8 (34)	11.0 (38)	287	47.4 (9)	252	21.8 (46)	241	90.0 (26)
Delta	696	89.5 (8)	5.5 (16)	762	45.8 (14)	701	23.7 (38)	637	91.8 (5)

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

(2) Excludes records with unknown data or errors.

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

(4) 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

2015 - 2017 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 (29)	462	44.2 (22)	424	26.4 (20)	381	89.8 (31)
Eaton	935	90.6 (6)	2.5 (3)	1,031	29.9 (75)	809	24.8 (29)	787	91.5 (10)
Emmet	546	85.7 (26)	8.2 (23)	571	36.8 (60)	539	29.9 (15)	464	90.5 (17)
Genesee	8,391	86.3 (22)	3.1 (4)	8,918	26.5 (78)	6,132	11.8 (77)	6,611	88.3 (42)
Gladwin	450	73.3 (65)	22.0 (72)	475	50.7 (4)	433	24.2 (34)	403	88.8 (37)
Gogebic	245	91.8 (2)	2.0 (1)	276	38.8 (51)	249	32.5 (9)	219	91.8 (5)
Gr Travers	1,461	67.8 (76)	22.8 (75)	1,529	34.9 (66)	1,394	25.9 (21)	1,125	89.6 (33)
Gratiot	685	84.1 (28)	10.9 (37)	724	43.0 (28)	655	25.6 (24)	604	88.9 (36)
Hillsdale	853	77.1 (56)	14.0 (54)	921	40.7 (39)	833	19.2 (59)	755	83.3 (63)
Houghton	570	79.6 (49)	16.0 (61)	591	36.9 (59)	559	40.1 (5)	496	90.7 (16)
Huron	506	81.6 (40)	13.6 (51)	549	44.4 (17)	468	31.8 (11)	431	87.0 (49)
Ingham	5,209	78.7 (50)	11.8 (46)	5,609	30.3 (74)	4,838	12.2 (76)	4,366	88.2 (43)
Ionia	1,107	81.4 (41)	9.9 (33)	1,210	39.6 (46)	1,113	19.0 (60)	984	91.1 (13)
Iosco	493	82.8 (34)	11.2 (41)	517	41.2 (37)	476	18.1 (62)	430	88.8 (37)
Iron	191	81.7 (39)	15.2 (57)	209	56.0 (2)	178	65.7 (1)	184	82.6 (65)
Isabella	1,108	83.7 (29)	9.0 (26)	1,176	40.5 (40)	1,015	28.4 (18)	963	92.8 (3)
Jackson	3,059	86.0 (24)	6.5 (19)	3,329	39.9 (44)	2,968	14.7 (74)	2,763	85.2 (59)
Kalamazoo	4,432	75.8 (59)	15.1 (56)	4,840	39.4 (47)	4,459	15.8 (70)	4,000	81.2 (69)
Kalkaska	286	69.9 (73)	23.4 (76)	298	43.0 (28)	267	22.1 (45)	251	88.8 (37)
Kent	11,623	81.1 (45)	9.0 (26)	12,594	32.2 (71)	10,199	20.9 (53)	10,155	88.1 (44)
Lake	195	71.3 (71)	17.9 (64)	213	50.2 (5)	190	15.8 (70)	187	86.1 (56)

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

(2) Excludes records with unknown data or errors.

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

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

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

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

WIC PNNS & PedNSS

Table 6B

2015 - 2017 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	1,265	82.7 (36)	11.1 (39)	1,354	36.3 (63)	1,228	18.8 (61)	1,089	87.4 (45)
Leelanau	151	66.2 (78)	21.2 (70)	161	31.7 (72)	112	25.9 (21)	117	76.1 (78)
Lenawee	1,536	87.6 (16)	4.5 (7)	1,665	29.8 (76)	1,492	19.4 (57)	1,289	90.0 (26)
Livingston	1,153	91.2 (4)	3.9 (6)	1,260	25.6 (79)	1,013	31.5 (12)	881	90.1 (25)
Luce	119	73.1 (66)	18.5 (66)	120	50.8 (3)	90	*	97	*
Mackinac	124	75.0 (62)	13.7 (52)	138	47.1 (11)	132	22.7 (40)	119	81.5 (68)
Macomb	10,356	87.6 (16)	4.9 (12)	11,109	26.9 (77)	7,369	24.2 (34)	8,487	89.9 (28)
Manistee	359	78.0 (53)	12.5 (49)	389	32.6 (70)	348	22.7 (40)	315	91.1 (13)
Marquette	791	88.0 (15)	5.3 (15)	877	39.8 (45)	636	38.8 (6)	727	91.7 (8)
Mason	499	75.2 (61)	16.8 (62)	534	44.0 (26)	490	24.1 (36)	450	89.3 (34)
Mecosta	755	80.7 (46)	12.3 (48)	794	39.0 (49)	345	43.8 (4)	652	90.2 (21)
Menominee	286	86.0 (24)	9.4 (30)	327	44.3 (20)	288	21.5 (48)	270	86.3 (55)
Midland	1,154	81.2 (44)	14.0 (54)	1,219	37.6 (54)	1,145	30.7 (14)	995	96.2 (1)
Missaukee	218	61.0 (80)	30.3 (80)	230	47.0 (12)	178	23.6 (39)	192	81.8 (67)
Monroe	1,927	83.6 (30)	9.5 (31)	2,092	35.8 (65)	1,911	17.9 (64)	1,674	86.7 (51)
Montcalm	1,052	87.4 (19)	6.3 (18)	1,105	36.0 (64)	938	21.4 (50)	892	91.5 (10)
Montmorenc	126	78.6 (51)	13.5 (50)	135	40.0 (43)	123	25.2 (27)	112	90.2 (21)
Muskegon	4,230	81.3 (43)	10.0 (34)	4,567	41.3 (35)	4,109	15.8 (70)	3,774	76.3 (77)
Newaygo	1,078	84.6 (27)	10.2 (36)	1,132	44.4 (17)	733	33.0 (8)	941	91.2 (12)
Oakland	11,386	86.3 (22)	5.1 (13)	12,125	25.5 (80)	8,809	19.3 (58)	9,179	90.2 (21)
Oceana	573	71.7 (67)	22.7 (74)	657	42.3 (32)	569	20.6 (55)	527	79.9 (74)

(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

2015 - 2017 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	419	74.5 (63)	15.3 (58)	445	38.4 (52)	393	20.9 (53)	368	89.9 (28)
Ontonagon	58	*	*	67	*	67	*	57	*
Osceola	381	73.5 (64)	19.4 (67)	408	44.1 (24)	370	22.7 (40)	345	80.6 (72)
Oscoda	157	77.1 (56)	11.5 (45)	167	41.3 (35)	147	23.8 (37)	133	91.0 (15)
Otsego	576	91.1 (5)	3.6 (5)	598	36.5 (61)	552	24.6 (30)	485	90.3 (20)
Ottawa	1,226	91.4 (3)	4.6 (8)	1,320	37.0 (58)	948	29.5 (16)	1,004	89.3 (34)
Presque Is	133	82.0 (37)	11.3 (43)	139	40.3 (41)	135	25.9 (21)	118	93.2 (2)
Roscommon	361	81.4 (41)	8.6 (24)	383	48.6 (7)	351	25.6 (24)	328	90.2 (21)
Saginaw	4,156	71.6 (68)	15.7 (59)	4,507	37.9 (53)	3,884	10.5 (78)	3,687	82.6 (65)
Sanilac	636	83.3 (32)	8.8 (25)	693	34.9 (66)	428	36.0 (7)	553	83.9 (62)
Schoolcraf	169	88.2 (12)	11.2 (41)	172	65.7 (1)	165	32.1 (10)	155	87.1 (48)
Shiawassee	1,190	77.1 (56)	15.9 (60)	1,267	39.0 (49)	1,168	15.2 (73)	1,042	86.5 (54)
St Clair	2,323	65.4 (79)	26.9 (79)	2,545	43.0 (28)	2,251	16.4 (69)	2,140	85.6 (58)
St Joseph	1,385	70.0 (72)	20.6 (68)	1,527	40.1 (42)	1,397	18.1 (62)	1,263	88.4 (41)
Tuscola	954	67.0 (77)	22.6 (73)	995	41.9 (33)	921	25.4 (26)	805	91.8 (5)
Van Buren	1,481	79.8 (48)	13.7 (52)	1,656	42.8 (31)	1,305	9.3 (79)	1,320	83.0 (64)
Washtenaw	3,487	88.5 (10)	4.7 (10)	3,814	33.1 (69)	3,536	17.6 (65)	3,073	89.8 (31)
Wayne	44,414	81.8 (38)	5.6 (17)	46,932	24.9 (81)	33,464	16.6 (67)	35,622	87.2 (47)
Wexford	931	71.6 (68)	20.9 (69)	967	44.3 (20)	671	31.3 (13)	797	86.6 (53)
Michigan	165,526	82.1	8.6	178,109	32.4	139,078	19.5	139,833	87.0

(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

2015 - 2017 Pregnancy Nutrition Surveillance ⁽¹⁾ Michigan Comparison of Smoking Indicators by County Combined 3 Years

Comparison of Smoking Indicators ^(2,3)										
County	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes ⁽⁴⁾		Smoking in Household			
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
	Number	% (rank)	Number	% (rank)			Number	% (rank)	Number	% (rank)
Alcona	105	52.4 (78)	104	34.6 (75)	42	*	90	*	104	1.9 (12)
Alger	90	*	95	*	51	*	82	*	95	*
Allegan	3,722	28.7 (11)	3,769	14.1 (10)	981	41.2 (13)	3,338	8.4 (9)	3,776	2.8 (32)
Alpena	511	47.2 (64)	511	27.4 (55)	203	36.5 (24)	466	22.5 (68)	511	2.7 (28)
Antrim	323	47.1 (62)	322	32.9 (72)	130	26.9 (61)	286	23.1 (70)	322	7.1 (74)
Arenac	289	51.9 (74)	306	24.8 (43)	135	37.0 (23)	266	17.7 (58)	306	6.9 (72)
Baraga	150	52.0 (75)	149	36.9 (79)	62	*	135	12.6 (28)	149	2.0 (14)
Barry	751	32.4 (15)	758	20.4 (27)	203	31.0 (45)	645	11.9 (25)	759	1.8 (8)
Bay	1,723	45.2 (58)	1,750	25.6 (49)	692	36.0 (26)	1,580	14.0 (37)	1,751	3.4 (41)
Benzie	270	50.0 (69)	276	33.0 (73)	120	30.8 (46)	235	20.9 (67)	277	6.1 (70)
Berrien	2,596	32.8 (16)	2,717	15.5 (12)	664	43.1 (11)	2,269	14.1 (38)	2,719	3.6 (43)
Branch	1,012	35.8 (22)	990	22.1 (33)	304	28.9 (54)	923	13.5 (33)	990	4.0 (50)
Calhoun	2,885	36.5 (26)	2,997	20.3 (26)	933	31.7 (42)	2,596	12.7 (29)	3,010	3.2 (36)
Cass	1,115	29.6 (12)	1,127	15.1 (11)	289	27.0 (59)	1,030	8.5 (10)	1,129	2.2 (17)
Charlevoix	388	38.1 (32)	410	20.2 (23)	128	40.6 (14)	339	14.2 (40)	411	3.6 (43)
Cheboygan	378	47.1 (62)	391	27.6 (56)	149	39.6 (16)	328	25.0 (75)	391	4.1 (53)
Chippewa	701	42.8 (46)	687	33.5 (74)	255	17.6 (67)	641	31.8 (78)	686	19.5 (80)
Clare	657	45.8 (60)	660	30.8 (63)	257	23.0 (64)	598	24.4 (73)	660	5.6 (68)
Clinton	585	35.6 (21)	590	18.3 (20)	175	45.1 (6)	493	9.9 (16)	591	1.7 (6)

(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

2015 - 2017 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)
Crawford	267	50.2 (71)	274	31.0 (65)	116	31.9 (41)	241	16.6 (51)	274	2.6 (25)
Delta	706	44.1 (52)	698	29.4 (60)	248	25.4 (62)	637	12.2 (27)	699	2.0 (14)
Dickinson	446	44.4 (55)	423	26.7 (52)	155	34.2 (31)	381	6.8 (4)	424	0.9 (2)
Eaton	923	38.8 (36)	955	24.8 (43)	290	29.3 (52)	787	9.7 (15)	954	2.7 (28)
Emmet	540	36.7 (27)	547	17.6 (17)	165	40.0 (15)	464	10.6 (20)	547	2.7 (28)
Genesee	7,758	31.5 (13)	8,516	16.0 (14)	2,136	38.7 (18)	6,623	11.7 (23)	8,523	2.4 (20)
Gladwin	446	48.0 (67)	448	31.0 (65)	187	24.6 (63)	402	26.4 (76)	448	8.7 (79)
Gogebic	249	47.4 (65)	251	36.3 (78)	90	*	219	13.2 (32)	252	4.0 (50)
Gr Travers	1,397	36.9 (28)	1,474	20.6 (28)	420	39.5 (17)	1,125	8.6 (11)	1,473	3.3 (39)
Gratiot	680	42.6 (45)	689	25.4 (47)	250	34.8 (30)	604	12.7 (29)	690	3.3 (39)
Hillsdale	838	46.4 (61)	856	31.0 (65)	322	22.4 (65)	755	17.9 (59)	858	4.5 (57)
Houghton	561	37.3 (31)	567	21.5 (30)	185	35.1 (29)	495	8.9 (13)	567	1.8 (8)
Huron	507	36.9 (28)	511	20.2 (23)	156	43.6 (10)	431	17.6 (57)	510	4.5 (57)
Ingham	5,102	25.0 (6)	5,265	13.8 (8)	1,037	36.2 (25)	4,367	10.3 (17)	5,272	4.9 (64)
Ionia	1,116	43.2 (48)	1,115	24.6 (42)	396	32.8 (36)	983	16.3 (48)	1,115	2.5 (23)
Iosco	477	50.7 (73)	497	32.0 (69)	205	30.2 (50)	430	19.1 (62)	497	4.6 (59)
Iron	199	43.7 (51)	188	28.2 (59)	72	*	183	16.4 (49)	188	3.2 (36)
Isabella	1,105	38.6 (35)	1,107	22.7 (38)	359	33.4 (34)	961	14.7 (43)	1,106	3.2 (36)
Jackson	3,064	42.1 (43)	3,109	25.6 (49)	1,095	29.8 (51)	2,760	16.4 (49)	3,111	3.7 (47)

(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

2015 - 2017 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)
Kalamazoo	4,481	32.0 (14)	4,456	17.9 (18)	1,166	32.8 (36)	4,002	11.4 (22)	4,455	2.4 (20)
Kalkaska	281	53.0 (79)	286	30.8 (63)	132	34.1 (32)	251	24.7 (74)	286	5.9 (69)
Kent	11,543	21.1 (3)	11,751	10.5 (4)	1,966	42.8 (12)	10,151	7.0 (5)	11,757	1.8 (8)
Lake	196	53.1 (80)	199	32.7 (71)	93	*	187	28.9 (77)	199	6.5 (71)
Lapeer	1,263	34.4 (20)	1,276	18.0 (19)	354	38.1 (22)	1,086	6.1 (3)	1,274	1.4 (4)
Leelanau	147	27.9 (8)	152	9.9 (3)	33	*	117	2.6 (1)	152	1.3 (3)
Lenawee	1,506	34.3 (19)	1,557	17.3 (15)	402	43.8 (8)	1,290	10.4 (18)	1,558	3.0 (33)
Livingston	1,143	39.2 (38)	1,154	19.0 (21)	327	45.6 (5)	885	10.4 (18)	1,157	2.5 (23)
Luce	104	50.0 (69)	121	29.8 (61)	49	*	97	*	121	0.0 (1)
Mackinac	134	47.8 (66)	124	35.5 (77)	52	*	119	20.2 (64)	124	4.8 (63)
Macomb	10,199	23.3 (4)	10,484	11.3 (6)	1,917	43.7 (9)	8,518	7.8 (6)	10,497	1.9 (12)
Manistee	353	45.6 (59)	363	22.6 (37)	137	38.7 (18)	315	14.3 (42)	363	3.6 (43)
Marquette	816	39.3 (39)	791	25.5 (48)	286	32.5 (38)	726	11.7 (23)	796	1.8 (8)
Mason	493	37.1 (30)	503	19.5 (22)	158	38.6 (20)	450	12.7 (29)	502	3.6 (43)
Mecosta	733	43.4 (50)	757	27.9 (57)	269	32.3 (40)	652	14.1 (38)	757	3.4 (41)
Menominee	303	52.1 (77)	288	40.3 (80)	124	19.4 (66)	270	17.4 (56)	290	3.1 (34)
Midland	1,145	34.0 (18)	1,164	21.9 (32)	337	28.8 (55)	994	9.6 (14)	1,164	1.5 (5)
Missaukee	207	36.2 (24)	223	20.6 (28)	70	*	192	16.7 (52)	223	2.7 (28)
Monroe	1,932	38.5 (33)	1,933	23.3 (39)	594	33.2 (35)	1,675	15.3 (44)	1,933	4.7 (60)

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

(2) Excludes records with unknown data or errors.

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

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

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

WIC PNNS & PedNSS

Table 7B

2015 - 2017 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	1,025	41.4 (42)	1,057	24.0 (40)	350	38.6 (20)	891	17.1 (54)	1,059	4.7 (60)
Montmorenc	123	49.6 (68)	127	25.2 (46)	55	*	112	24.1 (72)	127	7.1 (74)
Muskegon	4,171	33.9 (17)	4,305	21.7 (31)	1,239	27.0 (59)	3,772	13.9 (36)	4,327	5.4 (66)
Newaygo	1,043	35.9 (23)	1,088	20.2 (23)	326	33.7 (33)	940	11.3 (21)	1,087	2.6 (25)
Oakland	11,145	17.5 (1)	11,436	8.4 (2)	1,499	46.7 (3)	9,180	8.0 (7)	11,435	2.6 (25)
Oceana	574	28.6 (10)	591	17.4 (16)	145	31.7 (42)	527	12.1 (26)	592	2.2 (17)
Ogemaw	416	45.0 (57)	423	30.0 (62)	157	30.6 (49)	368	23.1 (70)	423	7.1 (74)
Ontonagon	67	*	60	*	23	*	57	*	60	*
Osceola	377	44.3 (54)	379	27.2 (54)	140	28.6 (57)	345	18.6 (60)	379	4.2 (55)
Oscoda	150	52.0 (75)	158	35.4 (76)	66	*	133	19.5 (63)	158	7.0 (73)
Otsego	556	44.4 (55)	571	28.0 (58)	202	30.7 (48)	485	17.3 (55)	572	4.7 (60)
Ottawa	1,202	28.3 (9)	1,243	14.0 (9)	310	44.2 (7)	1,013	8.3 (8)	1,244	2.4 (20)
Presque Is	135	43.0 (47)	133	24.8 (43)	49	*	118	22.9 (69)	133	7.5 (78)
Roscommon	359	50.4 (72)	363	32.0 (69)	153	28.8 (55)	328	20.4 (65)	363	5.5 (67)
Saginaw	4,082	36.4 (25)	4,219	15.6 (13)	1,270	48.2 (2)	3,694	13.8 (35)	4,228	3.1 (34)
Sanilac	625	39.0 (37)	646	24.0 (40)	217	35.9 (27)	564	14.2 (40)	649	3.7 (47)
Schoolcraf	165	44.2 (53)	168	31.0 (65)	65	*	155	20.6 (66)	168	7.1 (74)
Shiawassee	1,162	39.9 (40)	1,209	22.1 (33)	414	32.4 (39)	1,041	16.9 (53)	1,216	2.3 (19)
St Clair	2,347	41.2 (41)	2,328	25.6 (49)	808	30.8 (46)	2,142	18.7 (61)	2,328	4.1 (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.

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

WIC PNNS & PedNSS

Table 7B

2015 - 2017 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	1,401	38.5 (33)	1,419	22.1 (33)	435	31.3 (44)	1,262	15.3 (44)	1,420	3.9 (49)
Tuscola	926	42.4 (44)	962	22.2 (36)	340	35.9 (27)	806	15.9 (47)	962	4.2 (55)
Van Buren	1,466	23.3 (4)	1,501	12.7 (7)	290	29.0 (53)	1,323	5.1 (2)	1,498	2.0 (14)
Washtenaw	3,543	25.7 (7)	3,501	11.2 (5)	717	45.7 (4)	3,069	8.6 (11)	3,495	1.7 (6)
Wayne	41,992	20.5 (2)	44,922	8.3 (1)	7,046	53.3 (1)	35,636	13.7 (34)	44,914	4.9 (64)
Wexford	886	43.2 (48)	936	26.9 (53)	314	28.0 (58)	797	15.6 (46)	936	4.0 (50)
Michigan	161,648	28.8	167,486	15.0	38,754	39.4	139,966	12.2	167,578	3.6

(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

2015 - 2017 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	94	*	*	98	*	80	*	94	*
Alger	87	*	*	90	*	83	*	87	*
Allegan	3,546	8.2 (48)	8.8 (45)	3,672	11.6 (56)	3,115	2.7 (15)	3,605	76.4 (38)
Alpena	475	8.6 (54)	11.6 (72)	490	10.6 (38)	418	3.8 (49)	475	62.1 (71)
Antrim	275	6.9 (18)	7.6 (20)	303	6.6 (1)	253	4.0 (55)	295	80.0 (25)
Arenac	273	5.9 (4)	9.5 (56)	285	10.5 (36)	242	2.1 (9)	272	71.3 (56)
Baraga	137	3.6 (2)	12.4 (76)	144	10.4 (34)	120	0.0 (1)	137	81.0 (18)
Barry	712	9.7 (72)	8.7 (43)	748	11.0 (45)	627	4.6 (68)	730	77.4 (34)
Bay	1,656	7.8 (38)	10.3 (60)	1,680	10.2 (32)	1,478	3.5 (42)	1,658	64.0 (70)
Benzie	250	8.0 (44)	9.2 (52)	252	8.3 (4)	223	4.9 (73)	247	81.8 (14)
Berrien	2,549	8.3 (51)	7.8 (26)	2,640	10.7 (41)	2,262	3.8 (49)	2,549	69.7 (60)
Branch	925	6.5 (11)	9.0 (50)	939	9.6 (21)	818	3.1 (25)	922	80.6 (20)
Calhoun	2,849	9.2 (62)	7.7 (24)	2,913	10.3 (33)	2,537	4.4 (65)	2,857	71.4 (55)
Cass	1,055	7.4 (30)	10.0 (59)	1,062	11.7 (58)	911	3.3 (31)	1,060	79.8 (27)
Charlevoix	359	9.2 (62)	10.9 (68)	385	9.1 (12)	323	3.4 (36)	379	81.0 (18)
Cheboygan	368	9.2 (62)	7.9 (29)	370	11.1 (47)	321	4.0 (55)	368	77.4 (34)
Chippewa	654	6.9 (18)	10.9 (68)	649	10.6 (38)	564	1.8 (6)	652	71.3 (56)
Clare	601	6.0 (6)	6.5 (14)	621	10.1 (30)	539	2.4 (12)	597	65.5 (67)
Clinton	550	6.7 (16)	8.7 (43)	569	9.5 (19)	499	2.2 (10)	553	88.2 (2)

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

(2) Excludes records with unknown data or errors.

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

(4) <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

2015 - 2017 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	258	9.3 (65)	12.0 (73)	262	10.7 (41)	228	3.1 (25)	257	82.9 (10)
Delta	649	7.7 (37)	10.3 (60)	665	9.6 (21)	586	3.1 (25)	635	76.1 (41)
Dickinson	398	8.0 (44)	9.3 (54)	400	9.5 (19)	351	3.4 (36)	393	75.3 (44)
Eaton	870	8.4 (52)	6.4 (12)	945	10.9 (43)	773	2.7 (15)	908	81.5 (17)
Emmet	517	7.4 (30)	10.8 (66)	535	7.1 (2)	476	4.0 (55)	525	84.4 (6)
Genesee	8,273	11.4 (78)	5.2 (2)	8,339	13.9 (78)	7,048	5.0 (74)	8,276	59.5 (77)
Gladwin	419	8.8 (57)	7.9 (29)	434	11.1 (47)	375	3.5 (42)	420	79.3 (28)
Gogebic	245	8.2 (48)	6.5 (14)	245	14.7 (79)	205	2.9 (21)	244	66.4 (63)
Gr Travers	1,393	7.8 (38)	9.9 (57)	1,423	9.2 (15)	1,250	3.4 (36)	1,391	85.8 (3)
Gratiot	653	8.9 (59)	9.2 (52)	664	9.6 (21)	584	3.9 (54)	651	81.6 (15)
Hillsdale	793	6.3 (9)	8.3 (36)	817	8.4 (6)	719	2.4 (12)	785	78.1 (31)
Houghton	518	6.6 (14)	10.8 (66)	536	9.7 (26)	456	2.0 (8)	519	85.7 (4)
Huron	490	6.5 (11)	11.4 (71)	497	11.1 (47)	436	2.5 (14)	490	71.0 (58)
Ingham	4,969	9.5 (68)	6.4 (12)	5,143	11.8 (60)	4,364	4.1 (60)	5,000	78.1 (31)
Ionia	1,074	7.5 (32)	8.4 (38)	1,087	11.9 (62)	943	2.9 (21)	1,077	80.2 (23)
Iosco	472	6.4 (10)	9.3 (54)	477	9.0 (9)	421	3.6 (44)	472	60.2 (76)
Iron	172	7.6 (35)	7.6 (20)	174	12.6 (70)	150	4.0 (55)	172	80.2 (23)
Isabella	1,028	8.7 (56)	9.0 (50)	1,072	9.0 (9)	934	5.2 (76)	1,018	78.2 (30)
Jackson	2,953	9.3 (65)	7.4 (18)	2,994	12.9 (72)	2,545	3.2 (29)	2,946	73.4 (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.

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

WIC PNNS & PedNSS

Table 8B

2015 - 2017 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	4,167	9.5 (68)	8.5 (39)	4,288	11.9 (62)	3,633	4.0 (55)	4,185	69.9 (59)
Kalkaska	269	7.8 (38)	8.6 (40)	276	8.7 (7)	243	4.1 (60)	266	85.7 (4)
Kent	11,114	9.6 (71)	7.7 (24)	11,411	12.9 (72)	9,628	3.8 (49)	11,150	74.8 (45)
Lake	186	7.5 (32)	5.4 (3)	188	12.8 (71)	159	3.8 (49)	186	71.5 (54)
Lapeer	1,222	7.1 (23)	8.8 (45)	1,228	9.4 (18)	1,095	3.6 (44)	1,221	74.1 (48)
Leelanau	139	5.8 (3)	14.4 (79)	145	11.7 (58)	121	1.7 (4)	139	89.9 (1)
Lenawee	1,472	6.9 (18)	8.6 (40)	1,511	9.7 (26)	1,323	3.1 (25)	1,464	76.0 (42)
Livingston	1,109	6.9 (18)	8.6 (40)	1,143	9.3 (16)	1,002	3.7 (47)	1,102	79.9 (26)
Luce	113	3.5 (1)	13.3 (78)	114	9.6 (21)	99	*	113	77.0 (37)
Mackinac	118	6.8 (17)	7.6 (20)	121	11.6 (56)	104	1.0 (3)	118	83.1 (9)
Macomb	9,810	10.5 (74)	6.1 (7)	10,205	12.4 (69)	8,475	4.4 (65)	10,135	60.4 (74)
Manistee	338	8.9 (59)	8.3 (36)	347	11.2 (51)	295	3.7 (47)	336	80.4 (21)
Marquette	764	8.6 (54)	10.5 (63)	774	11.5 (54)	664	4.1 (60)	764	80.4 (21)
Mason	486	8.8 (57)	7.6 (20)	488	12.1 (64)	422	4.7 (71)	485	77.3 (36)
Mecosta	721	7.1 (23)	7.9 (29)	728	9.3 (16)	648	3.4 (36)	717	76.2 (39)
Menominee	274	9.5 (68)	6.2 (9)	279	12.2 (67)	237	3.8 (49)	275	64.7 (69)
Midland	1,106	7.1 (23)	11.2 (70)	1,129	10.5 (36)	988	2.7 (15)	1,103	76.2 (39)
Missaukee	198	6.6 (14)	10.6 (64)	211	9.0 (9)	177	3.4 (36)	196	84.2 (7)
Monroe	1,844	8.4 (52)	7.5 (19)	1,889	11.3 (52)	1,623	3.3 (31)	1,770	62.0 (72)

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WIC PNNS & PedNSS

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2015 - 2017 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)
Montcalm	1,009	7.6 (35)	7.8 (26)	1,021	11.4 (53)	881	3.3 (31)	1,009	83.3 (8)
Montmorenc	123	8.9 (59)	8.9 (48)	125	9.6 (21)	110	3.6 (44)	123	65.9 (64)
Muskegon	4,062	10.4 (73)	5.9 (5)	4,178	13.6 (77)	3,457	4.8 (72)	4,066	65.3 (68)
Newaygo	1,004	7.9 (42)	10.6 (64)	1,023	10.6 (38)	890	3.3 (31)	995	73.4 (50)
Oakland	10,846	11.3 (76)	5.8 (4)	11,168	13.3 (74)	9,357	4.6 (68)	10,909	65.9 (64)
Oceana	554	6.5 (11)	8.1 (33)	560	8.9 (8)	500	3.2 (29)	552	77.7 (33)
Ogemaw	405	7.2 (26)	7.9 (29)	408	9.1 (12)	365	4.1 (60)	402	67.2 (61)
Ontonagon	53	*	*	55	*	47	*	53	*
Osceola	355	5.9 (4)	10.4 (62)	362	11.0 (45)	317	0.9 (2)	355	82.3 (11)
Oscoda	147	8.2 (48)	6.1 (7)	148	8.1 (3)	134	4.5 (67)	147	75.5 (43)
Otsego	448	6.0 (6)	12.1 (75)	545	8.3 (4)	408	2.9 (21)	514	74.5 (46)
Ottawa	1,157	7.5 (32)	12.4 (76)	1,210	11.1 (47)	1,021	2.2 (10)	1,174	81.9 (13)
Presque Is	129	7.0 (22)	7.0 (16)	129	10.9 (43)	114	1.8 (6)	129	56.6 (78)
Roscommon	332	8.1 (47)	6.0 (6)	343	12.2 (67)	287	4.2 (64)	333	73.9 (49)
Saginaw	4,004	11.3 (76)	6.2 (9)	4,081	12.1 (64)	3,502	5.0 (74)	4,004	60.3 (75)
Sanilac	617	7.3 (28)	7.8 (26)	635	9.8 (28)	548	2.7 (15)	618	66.7 (62)
Schoolcraf	150	9.3 (65)	12.0 (73)	149	12.1 (64)	128	7.0 (78)	149	61.7 (73)
Shiawassee	1,153	8.0 (44)	8.9 (48)	1,176	9.1 (12)	1,041	3.4 (36)	1,152	73.1 (52)
St Clair	2,201	7.9 (42)	7.1 (17)	2,251	11.5 (54)	1,937	2.9 (21)	2,197	65.9 (64)

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	Low (4)		High (5)	(6)		(7)			
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
St Joseph	1,335	7.3 (28)	8.1 (33)	1,369	10.4 (34)	1,181	2.7 (15)	1,341	82.0 (12)
Tuscola	910	7.8 (38)	8.2 (35)	933	11.8 (60)	796	2.8 (20)	909	74.5 (46)
Van Buren	1,389	6.2 (8)	9.9 (57)	1,416	10.0 (29)	1,230	1.7 (4)	1,401	72.2 (53)
Washtenaw	3,323	10.5 (74)	6.3 (11)	3,392	13.5 (76)	2,857	4.6 (68)	3,163	81.6 (15)
Wayne	41,764	11.7 (79)	5.0 (1)	43,580	13.4 (75)	35,723	5.3 (77)	42,316	52.2 (79)
Wexford	874	7.2 (26)	8.8 (45)	880	10.1 (30)	767	3.3 (31)	874	78.9 (29)
Michigan	157,373	9.9	6.9	162,286	12.2	136,810	4.2	158,346	58.1

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