

WIC PNSS & PedNSS

Table 3B

2021 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	36	*	*	*	*	*	*	*
Alger	31	*	*	*	*	*	*	*
Allegan	446	75.1	1.3	17.7	0.2	1.1	3.4	1.1
Alpena	139	92.8	0.7	2.2	0.7	0.0	3.6	0.0
Antrim	77	*	*	*	*	*	*	*
Arenac	110	94.5	0.0	2.7	0.0	0.0	2.7	0.0
Baraga	42	*	*	*	*	*	*	*
Barry	175	92.6	0.6	4.6	0.6	0.0	1.1	0.6
Bay	506	79.6	2.2	11.7	0.0	0.2	6.3	0.0
Benzie	75	*	*	*	*	*	*	*
Berrien	765	49.4	37.3	7.7	0.1	1.3	3.3	0.9
Branch	319	83.4	1.3	12.2	0.0	0.3	1.9	0.9
Calhoun	932	60.7	20.7	7.7	0.2	4.8	5.2	0.6
Cass	263	59.3	6.8	20.9	0.0	0.4	9.9	2.7
Charlevoix	96	*	*	*	*	*	*	*
Cheboygan	124	86.3	0.0	2.4	0.0	0.0	11.3	0.0
Chippewa	174	56.9	0.6	4.0	17.2	1.1	20.1	0.0
Clare	179	93.9	0.0	2.8	0.0	0.6	2.2	0.6
Clinton	124	81.5	0.8	11.3	0.0	0.0	6.5	0.0
Crawford	92	*	*	*	*	*	*	*
Delta	191	82.7	1.6	2.1	1.6	1.6	10.5	0.0
Dickinson	138	96.4	0.0	0.7	0.0	0.0	2.2	0.7
Eaton	222	88.3	3.2	7.7	0.0	0.5	0.5	0.0

(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	122	85.2	0.8	1.6	0.8	1.6	9.8	0.0
Genesee	2,429	48.3	38.8	5.8	0.0	0.4	6.5	0.2
Gladwin	126	93.7	0.0	2.4	0.0	1.6	2.4	0.0
Gogebic	49	*	*	*	*	*	*	*
Gr Travers	387	85.0	1.0	5.4	3.9	0.8	3.6	0.3
Gratiot	185	84.9	0.5	10.8	0.0	0.0	2.7	1.1
Hillsdale	200	93.0	0.0	3.0	0.0	0.0	2.0	2.0
Houghton	193	89.6	0.5	2.1	1.6	2.1	4.1	0.0
Huron	122	93.4	0.0	5.7	0.0	0.0	0.0	0.8
Ingham	1,738	42.2	29.1	15.4	0.2	4.8	8.2	0.2
Ionia	279	86.4	0.0	9.7	0.0	0.0	3.9	0.0
Iosco	136	92.6	0.7	2.2	0.7	0.0	3.7	0.0
Iron	45	*	*	*	*	*	*	*
Isabella	343	77.0	4.1	7.9	1.7	0.3	9.0	0.0
Jackson	946	71.5	14.9	6.7	0.1	1.0	5.9	0.0
Kalamazoo	1,207	45.4	36.5	9.4	0.2	0.7	7.2	0.5
Kalkaska	94	*	*	*	*	*	*	*
Kent	3,098	29.8	29.2	31.1	0.2	4.9	4.6	0.2
Lake	56	*	*	*	*	*	*	*
Lapeer	341	85.6	1.2	9.1	0.0	0.6	3.5	0.0
Leelanau	35	*	*	*	*	*	*	*
Lenawee	383	69.7	3.7	19.1	0.3	0.3	6.0	1.0
Livingston	328	89.6	1.5	4.3	0.0	0.6	2.7	1.2

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County	Number Included in Analysis	White, Not Hispanic %	Black, Not Hispanic %	Hispanic %	American Indian/Alaska Native %	Asian/Pacific Islander %	Multiple Races %	All Other/Unknown %
Luce	38	*	*	*	*	*	*	*
Mackinac	27	*	*	*	*	*	*	*
Macomb	3,110	50.3	33.5	4.6	0.2	7.5	3.8	0.2
Manistee	85	*	*	*	*	*	*	*
Marquette	224	87.5	2.2	3.1	1.8	0.0	4.9	0.4
Mason	119	73.1	2.5	16.0	0.8	0.8	5.0	1.7
Mecosta	253	91.3	1.2	3.2	0.4	0.0	3.6	0.4
Menominee	87	*	*	*	*	*	*	*
Midland	322	86.6	1.9	6.2	0.0	2.2	3.1	0.0
Missaukee	75	*	*	*	*	*	*	*
Monroe	611	80.7	6.9	7.0	0.0	0.2	5.1	0.2
Montcalm	327	91.1	0.6	6.7	0.0	0.0	0.9	0.6
Montmorenc	43	*	*	*	*	*	*	*
Muskegon	1,140	58.7	23.5	9.9	0.3	0.4	7.0	0.3
Newaygo	362	70.2	0.3	23.5	0.6	0.8	4.4	0.3
Oakland	3,384	41.2	41.5	11.3	0.1	2.1	3.7	0.1
Oceana	157	62.4	0.0	34.4	0.0	0.0	3.2	0.0
Ogemaw	126	89.7	0.8	4.8	0.0	0.0	4.8	0.0
Ontonagon	14	*	*	*	*	*	*	*
Osceola	159	94.3	0.0	3.8	0.0	0.0	1.9	0.0
Oscoda	38	*	*	*	*	*	*	*
Otsego	128	94.5	0.0	0.8	0.0	0.0	4.7	0.0
Ottawa	1,020	53.9	5.6	31.3	0.2	3.4	5.1	0.5

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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	37	*	*	*	*	*	*	*
Roscommon	101	94.1	0.0	2.0	0.0	0.0	4.0	0.0
Saginaw	1,210	40.0	39.8	14.5	0.1	0.1	5.0	0.5
Sanilac	172	94.2	0.6	2.3	0.0	0.6	1.2	1.2
Schoolcraf	37	*	*	*	*	*	*	*
Shiawassee	327	87.2	0.6	6.1	0.0	0.3	5.5	0.3
St Clair	590	80.3	5.6	7.5	0.0	0.5	5.8	0.3
St Joseph	371	69.5	0.5	21.8	0.0	0.3	7.5	0.3
Tuscola	247	93.1	0.0	4.5	0.0	0.0	2.4	0.0
Van Buren	419	63.0	4.3	27.2	0.0	1.0	2.6	1.9
Washtenaw	1,069	37.0	41.1	10.0	0.1	3.0	8.4	0.4
Wayne	12,733	29.5	55.4	9.9	0.1	2.7	2.2	0.2
Wexford	216	90.7	1.4	2.3	0.0	0.5	5.1	0.0
Michigan	47,523	51.1	30.3	11.2	0.3	2.4	4.4	0.3
National (Prior Year)	93,573	48.3	24.7	18.9	1.6	2.6	3.7	0.2

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Table 4B

2021 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	36	*	*	*	*	*	*	*
Alger	31	*	*	*	*	*	*	*
Allegan	446	0.0	2.5	6.5	57.6	31.8	1.6	0.0
Alpena	139	0.0	2.2	7.9	58.3	30.2	1.4	0.0
Antrim	77	*	*	*	*	*	*	*
Arenac	110	0.0	0.9	12.7	61.8	23.6	0.9	0.0
Baraga	42	*	*	*	*	*	*	*
Barry	175	0.0	2.9	5.7	63.4	26.3	0.0	1.7
Bay	506	0.0	2.4	6.1	61.9	28.5	1.2	0.0
Benzie	75	*	*	*	*	*	*	*
Berrien	765	0.4	3.1	8.9	61.4	23.9	1.4	0.8
Branch	319	0.0	1.9	7.2	62.1	24.8	3.8	0.3
Calhoun	932	0.0	2.4	8.0	63.6	23.9	1.4	0.6
Cass	263	0.4	2.7	9.9	58.9	24.7	1.9	1.5
Charlevoix	96	*	*	*	*	*	*	*
Cheboygan	124	0.8	2.4	8.1	63.7	24.2	0.8	0.0
Chippewa	174	0.0	2.3	7.5	62.1	27.0	1.1	0.0
Clare	179	0.6	2.8	13.4	59.2	22.9	0.6	0.6
Clinton	124	0.0	0.0	6.5	54.8	37.1	1.6	0.0
Crawford	92	*	*	*	*	*	*	*
Delta	191	0.5	0.0	5.8	64.9	27.7	1.0	0.0
Dickinson	138	0.0	0.7	5.8	65.2	27.5	0.7	0.0
Eaton	222	0.0	2.3	6.8	59.5	29.3	1.8	0.5
Emmet	122	0.0	1.6	7.4	58.2	29.5	3.3	0.0

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Genesee	2,429	0.2	1.9	7.3	63.2	25.3	1.7	0.3
Gladwin	126	0.0	2.4	3.2	65.9	27.8	0.8	0.0
Gogebic	49	*	*	*	*	*	*	*
Gr Travers	387	0.0	1.3	6.2	61.5	29.5	1.6	0.0
Gratiot	185	0.0	2.2	9.7	62.2	25.4	0.5	0.0
Hillsdale	200	1.5	2.0	5.5	65.0	22.5	2.0	1.5
Houghton	193	0.0	1.6	8.3	56.5	31.6	2.1	0.0
Huron	122	0.0	0.8	1.6	61.5	35.2	0.8	0.0
Ingham	1,738	0.1	2.4	6.4	61.3	27.3	2.2	0.3
Ionia	279	0.4	1.8	6.1	66.3	23.3	1.8	0.4
Iosco	136	0.0	1.5	8.8	60.3	27.2	1.5	0.7
Iron	45	*	*	*	*	*	*	*
Isabella	343	0.0	2.0	8.2	63.6	23.9	2.0	0.3
Jackson	946	0.1	2.6	7.1	63.0	24.5	1.6	1.1
Kalamazoo	1,207	0.1	2.9	7.3	59.9	27.4	1.7	0.7
Kalkaska	94	*	*	*	*	*	*	*
Kent	3,098	0.1	2.5	6.5	58.6	28.9	2.7	0.7
Lake	56	*	*	*	*	*	*	*
Lapeer	341	0.0	2.1	6.7	61.0	27.9	2.1	0.3
Leelanau	35	*	*	*	*	*	*	*
Lenawee	383	0.0	0.5	7.8	65.8	24.5	0.8	0.5
Livingston	328	0.0	1.5	5.8	55.8	33.8	2.4	0.6
Luce	38	*	*	*	*	*	*	*
Mackinac	27	*	*	*	*	*	*	*

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Manistee	85	*	*	*	*	*	*	*
Marquette	224	0.0	3.1	3.1	65.6	26.3	1.8	0.0
Mason	119	0.0	3.4	6.7	64.7	22.7	0.8	1.7
Mecosta	253	0.0	1.6	7.1	66.8	22.1	2.0	0.4
Menominee	87	*	*	*	*	*	*	*
Midland	322	0.0	1.6	7.8	64.9	24.2	1.6	0.0
Missaukee	75	*	*	*	*	*	*	*
Monroe	611	0.0	1.6	6.2	65.8	24.9	1.3	0.2
Montcalm	327	0.0	3.1	8.0	60.6	26.3	1.8	0.3
Montmorenc	43	*	*	*	*	*	*	*
Muskegon	1,140	0.1	3.0	10.5	60.2	24.5	1.0	0.8
Newaygo	362	0.0	2.5	6.9	64.4	22.7	2.8	0.8
Oakland	3,384	0.0	1.5	4.9	57.0	34.0	2.4	0.2
Oceana	157	0.0	1.3	8.3	65.0	22.3	2.5	0.6
Ogemaw	126	0.0	4.0	10.3	61.9	23.0	0.8	0.0
Ontonagon	14	*	*	*	*	*	*	*
Osceola	159	0.0	3.1	9.4	62.3	22.0	2.5	0.6
Oscoda	38	*	*	*	*	*	*	*
Otsego	128	0.0	2.3	13.3	58.6	25.8	0.0	0.0
Ottawa	1,020	0.1	1.4	5.9	61.0	28.7	2.5	0.4
Presque Is	37	*	*	*	*	*	*	*
Roscommon	101	0.0	5.0	5.0	55.4	30.7	3.0	1.0
Saginaw	1,210	0.0	2.3	8.3	64.1	23.6	1.2	0.6

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Schoolcraf	37	*	*	*	*	*	*	*
Shiawassee	327	0.0	3.4	6.4	65.4	24.2	0.6	0.0
St Clair	590	0.0	1.7	8.0	63.4	23.7	2.2	1.0
St Joseph	371	0.0	3.8	7.0	65.2	21.3	2.7	0.0
Tuscola	247	0.0	2.4	7.3	62.8	25.5	1.6	0.4
Van Buren	419	0.0	1.9	6.4	69.0	20.5	1.7	0.5
Washtenaw	1,069	0.1	1.1	6.2	57.1	32.7	2.3	0.5
Wayne	12,733	0.0	1.9	5.8	56.9	32.2	2.8	0.3
Wexford	216	0.0	2.8	7.4	63.0	25.5	0.9	0.5
Michigan	47,523	0.1	2.0	6.5	59.8	29.1	2.2	0.4
National (Prior Year)	93,581	0.1	2.4	7.2	59.6	28.3	2.3	0.2

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(2) Excludes data with errors

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WIC PNSS & PedNSS

Table 5B 2021 Pregnancy Nutrition Surveillance (1) Michigan

Comparison of Maternal Health Indicators by County

Comparison of Maternal Health Indicators (2,3)														
County	Prepregnancy BMI			Weight Gain			Anemia (Low Hb/Hct)				Gestational Diabetes During Pregnancy		Hypertension During Pregnancy	
	(4)			(5)			(6)							
	Under- weight		Over- weight	< Ideal		> Ideal	3rd Trimester		Postpartum					
	Number	% (Rank)	% (Rank)	Number	% (Rank)	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Alcona	28	*	*	20	*	*	0	*	2	*	34	*	34	*
Alger	28	*	*	13	*	*	0	*	0	*	27	*	27	*
Allegan	359	3.6 (19)	63.0 (31)	177	16.9 (19)	54.2 (23)	29	*	61	*	400	9.3 (32)	402	13.2 (28)
Alpena	130	3.8 (21)	68.5 (50)	74	*	*	0	*	0	*	128	11.7 (50)	128	19.5 (57)
Antrim	47	*	*	15	*	*	2	*	15	*	71	*	71	*
Arenac	97	*	*	85	*	*	0	*	1	*	105	7.6 (9)	106	13.2 (28)
Baraga	36	*	*	22	*	*	0	*	0	*	39	*	39	*
Barry	124	7.3 (52)	55.6 (2)	65	*	*	1	*	1	*	161	10.6 (44)	164	14.6 (36)
Bay	423	3.5 (18)	61.5 (24)	287	16.7 (18)	58.5 (34)	0	*	2	*	466	9.9 (36)	466	12.2 (18)
Benzie	54	*	*	25	*	*	2	*	5	*	67	*	67	*
Berrien	657	4.4 (35)	60.6 (17)	471	17.4 (21)	57.3 (32)	33	*	29	*	671	9.1 (26)	673	18.4 (53)
Branch	92	*	*	21	*	*	2	*	3	*	281	10.0 (38)	282	11.7 (14)
Calhoun	748	3.1 (10)	63.6 (32)	531	16.9 (19)	52.9 (16)	0	*	0	*	858	6.3 (5)	858	9.8 (5)
Cass	225	4.4 (35)	65.8 (43)	172	14.0 (5)	51.2 (7)	14	*	17	*	241	9.5 (33)	241	14.1 (34)
Charlevoix	45	*	*	15	*	*	10	*	12	*	89	*	89	*
Cheboygan	104	6.7 (50)	56.7 (6)	28	*	*	0	*	0	*	111	11.7 (50)	111	15.3 (38)
Chippewa	150	4.0 (25)	58.0 (9)	108	12.0 (2)	58.3 (33)	0	*	1	*	158	12.7 (54)	158	7.6 (3)

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

(2) Excludes records with unknown data or errors.

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

(4) 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 2021 Pregnancy Nutrition Surveillance (1) Michigan

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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	149	4.7 (40)	64.4 (39)	79	*	*	0	*	0	*	162	5.6 (4)	163	9.8 (5)
Clinton	117	4.3 (32)	70.1 (53)	79	*	*	0	*	0	*	116	20.7 (59)	116	14.7 (37)
Crawford	82	*	*	46	*	*	0	*	0	*	81	*	81	*
Delta	182	3.8 (21)	58.2 (10)	134	18.7 (25)	48.5 (5)	12	*	22	*	172	9.9 (36)	172	14.0 (32)
Dickinson	78	*	*	35	*	*	0	*	1	*	126	4.8 (2)	126	18.3 (52)
Eaton	123	6.5 (49)	64.2 (36)	46	*	*	3	*	1	*	202	7.9 (12)	202	17.3 (47)
Emmet	104	1.0 (1)	68.3 (48)	38	*	*	11	*	17	*	114	7.9 (12)	114	11.4 (13)
Genesee	1,667	5.0 (43)	59.0 (13)	805	19.6 (30)	51.2 (7)	37	*	47	*	2,178	9.1 (26)	2,182	17.4 (48)
Gladwin	119	4.2 (30)	61.3 (23)	86	*	*	2	*	8	*	115	7.8 (11)	116	11.2 (11)
Gogebic	44	*	*	33	*	*	2	*	1	*	41	*	41	*
Gr Travers	323	5.3 (47)	56.0 (4)	251	21.5 (32)	52.2 (12)	3	*	1	*	350	9.7 (34)	351	9.4 (4)
Gratiot	171	4.1 (27)	68.4 (49)	127	21.3 (31)	46.5 (2)	0	*	1	*	170	11.8 (52)	170	15.9 (41)
Hillsdale	155	4.5 (37)	59.4 (14)	91	*	*	1	*	9	*	172	7.0 (7)	173	6.9 (2)
Houghton	185	3.2 (11)	58.9 (12)	152	14.5 (7)	51.3 (9)	2	*	1	*	170	8.2 (14)	170	16.5 (43)
Huron	112	4.5 (37)	64.3 (38)	91	*	*	4	*	11	*	116	10.3 (41)	116	17.2 (46)
Ingham	1,471	3.3 (13)	62.3 (28)	1,141	18.3 (23)	55.7 (28)	10	*	2	*	1,634	9.1 (26)	1,634	12.4 (21)
Ionia	169	4.1 (27)	68.6 (51)	124	18.5 (24)	56.5 (30)	17	*	16	*	252	11.5 (49)	255	22.4 (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.

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

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

WIC PNSS & PedNSS

Table 5B 2021 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	103	2.9 (7)	66.0 (44)	67	*	*	0	*	1	*	121	8.3 (15)	121	10.7 (8)
Iron	26	*	*	2	*	*	0	*	0	*	41	*	41	*
Isabella	304	5.3 (47)	60.2 (15)	182	10.4 (1)	53.8 (21)	3	*	6	*	319	11.3 (47)	320	14.1 (34)
Jackson	611	3.4 (17)	58.6 (11)	406	13.3 (3)	55.4 (25)	15	*	32	*	863	8.5 (18)	864	12.5 (23)
Kalamazoo	904	2.9 (7)	64.5 (41)	439	15.7 (11)	55.6 (27)	0	*	4	*	1,076	8.8 (24)	1,078	13.3 (30)
Kalkaska	74	*	*	55	*	*	1	*	0	*	86	*	87	*
Kent	1,798	3.2 (11)	60.9 (19)	721	24.1 (34)	46.9 (3)	214	37.4 (1)	540	23.5 (1)	2,812	8.5 (18)	2,818	16.7 (44)
Lake	46	*	*	38	*	*	0	*	0	*	53	*	53	*
Lapeer	302	3.6 (19)	57.0 (7)	217	14.3 (6)	47.5 (4)	0	*	0	*	312	6.4 (6)	313	10.9 (9)
Leelanau	30	*	*	14	*	*	0	*	1	*	28	*	28	*
Lenawee	330	2.1 (6)	61.2 (22)	237	14.8 (8)	52.3 (13)	0	*	0	*	327	10.1 (39)	328	14.0 (32)
Livingston	311	5.1 (44)	55.9 (3)	201	19.4 (29)	55.2 (24)	1	*	0	*	292	8.6 (21)	293	20.5 (58)
Luce	33	*	*	25	*	*	0	*	0	*	36	*	36	*
Mackinac	26	*	*	17	*	*	0	*	0	*	24	*	24	*
Macomb	2,651	3.3 (13)	62.5 (29)	1,994	16.4 (16)	53.9 (22)	13	*	2	*	2,853	10.6 (44)	2,854	11.2 (11)
Manistee	28	*	*	10	*	*	0	*	0	*	79	*	79	*
Marquette	196	1.5 (2)	62.2 (27)	138	15.2 (9)	62.3 (35)	2	*	1	*	203	8.4 (17)	205	11.7 (14)

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

(2) Excludes records with unknown data or errors.

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

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

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

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

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

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

WIC PNSS & PedNSS

Table 5B

2021 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	112	1.8 (3)	66.1 (45)	80	*	*	1	*	1	*	101	16.8 (58)	101	17.8 (50)
Mecosta	151	3.3 (13)	60.9 (19)	36	*	*	0	*	0	*	233	9.0 (25)	233	18.0 (51)
Menominee	84	*	*	63	*	*	4	*	3	*	75	*	75	*
Midland	214	1.9 (5)	64.0 (34)	89	*	*	5	*	3	*	305	9.2 (31)	304	12.5 (23)
Missaukee	68	*	*	51	*	*	2	*	0	*	68	*	68	*
Monroe	571	4.0 (25)	65.1 (42)	454	15.9 (13)	55.9 (29)	0	*	0	*	551	9.1 (26)	551	18.5 (55)
Montcalm	295	5.1 (44)	64.1 (35)	210	18.1 (22)	52.9 (16)	4	*	2	*	294	10.5 (43)	294	18.4 (53)
Montmorenc	41	*	*	18	*	*	0	*	0	*	39	*	39	*
Muskegon	1,057	3.3 (13)	61.5 (24)	861	19.3 (28)	52.5 (15)	0	*	1	*	1,041	10.2 (40)	1,048	16.2 (42)
Newaygo	334	3.0 (9)	64.4 (39)	178	25.3 (35)	42.7 (1)	3	*	1	*	325	9.8 (35)	325	18.5 (55)
Oakland	2,561	4.5 (37)	61.1 (21)	1,406	15.9 (13)	52.9 (16)	3	*	0	*	3,035	7.7 (10)	3,035	12.2 (18)
Oceana	126	4.8 (41)	69.0 (52)	95	*	*	5	*	4	*	142	14.1 (56)	142	10.6 (7)
Ogemaw	110	1.8 (3)	68.2 (47)	59	*	*	0	*	3	*	114	4.4 (1)	114	17.5 (49)
Ontonagon	12	*	*	5	*	*	1	*	0	*	10	*	11	*
Osceola	85	*	*	24	*	*	0	*	0	*	145	8.3 (15)	146	11.0 (10)
Oscoda	25	*	*	12	*	*	0	*	1	*	32	*	32	*
Otsego	62	*	*	21	*	*	11	*	14	*	115	8.7 (22)	115	12.2 (18)

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

(2) Excludes records with unknown data or errors.

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

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

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

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

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

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

WIC PNSS & PedNSS

Table 5B

2021 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	332	4.2 (30)	49.7 (1)	110	19.1 (26)	49.1 (6)	45	*	136	36.8 (2)	917	10.3 (41)	917	11.8 (16)
Presque Is	36	*	*	21	*	*	0	*	0	*	33	*	33	*
Roscommon	95	*	*	64	*	*	1	*	1	*	95	*	97	*
Saginaw	839	3.8 (21)	63.6 (32)	375	15.5 (10)	52.3 (13)	0	*	0	*	1,133	9.1 (26)	1,132	12.7 (25)
Sanilac	32	*	*	11	*	*	1	*	2	*	154	7.1 (8)	154	13.0 (27)
Schoolcraf	34	*	*	25	*	*	0	*	0	*	33	*	33	*
Shiawassee	295	5.1 (44)	60.3 (16)	246	19.1 (26)	53.7 (20)	1	*	1	*	298	5.4 (3)	298	6.7 (1)
St Clair	564	4.3 (32)	64.2 (36)	434	13.4 (4)	56.9 (31)	4	*	12	*	520	8.5 (18)	521	15.5 (39)
St Joseph	283	7.1 (51)	57.2 (8)	85	*	*	3	*	10	*	313	13.4 (55)	314	12.4 (21)
Tuscola	188	4.8 (41)	62.8 (30)	140	15.7 (11)	52.1 (11)	6	*	4	*	236	11.4 (48)	236	13.6 (31)
Van Buren	341	4.1 (27)	67.2 (46)	86	*	*	30	*	39	*	381	15.0 (57)	380	12.9 (26)
Washtenaw	868	4.3 (32)	60.8 (18)	559	16.1 (15)	51.3 (9)	34	*	51	*	954	10.6 (44)	954	15.5 (39)
Wayne	8,985	3.9 (24)	61.8 (26)	5,356	16.5 (17)	55.5 (26)	1	*	5	*	11,655	8.7 (22)	11,663	12.1 (17)
Wexford	177	7.3 (52)	56.5 (5)	130	21.5 (32)	53.1 (19)	0	*	0	*	201	11.9 (53)	201	16.9 (45)
Michigan	35,370	3.9	61.5	21,570	17.1	53.8	613	31.8	1,172	24.7	43,174	9.2	43,229	13.4
National (Prior Year)	72,360	4.1	60.8	50,124	20.8	48.4	13,438	19.6	4,714	20.0	51,634	10.7	51,095	13.3

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

(2) Excludes records with unknown data or errors.

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

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

WIC PNSS & PedNSS

Table 6B

2021 Pregnancy Nutrition Surveillance (1)

Michigan

Comparison of Maternal Behavioral Indicators by County

Comparison of Maternal Behavioral Indicators (2,3)									
County	Medical Care			WIC Enrollment		Multivitamin Consumption			
	1st Trimester		No Care	1st Trimester		Prepregnancy (4)		During Pregnancy (5)	
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Alcona	33	*	*	35	*	34	*	20	*
Alger	27	*	*	31	*	29	*	26	*
Allegan	393	90.1 (18)	5.9 (25)	441	33.1 (25)	418	26.6 (24)	331	92.7 (26)
Alpena	128	88.3 (24)	6.3 (26)	136	31.6 (34)	134	24.6 (32)	108	96.3 (7)
Antrim	72	*	*	76	*	73	*	50	*
Arenac	103	87.4 (27)	6.8 (28)	109	38.5 (7)	107	20.6 (43)	96	*
Baraga	39	*	*	41	*	40	*	29	*
Barry	161	88.2 (25)	5.6 (23)	174	29.3 (43)	169	36.1 (8)	122	98.4 (1)
Bay	467	77.3 (50)	13.9 (49)	502	38.0 (9)	487	24.8 (31)	387	94.3 (17)
Benzie	69	*	*	73	*	74	*	59	*
Berrien	652	77.5 (49)	7.8 (32)	751	26.8 (47)	699	21.3 (42)	540	92.0 (32)
Branch	280	80.0 (47)	12.1 (45)	313	32.6 (29)	271	43.5 (2)	232	92.2 (30)
Calhoun	850	94.1 (3)	4.1 (12)	913	31.4 (35)	864	28.0 (20)	690	92.8 (24)
Cass	239	91.6 (10)	4.2 (13)	259	38.2 (8)	243	19.3 (47)	199	75.9 (51)
Charlevoix	92	*	*	96	*	94	*	73	*
Cheboygan	111	73.9 (52)	18.0 (53)	122	36.9 (13)	120	28.3 (19)	100	96.0 (9)
Chippewa	157	93.0 (5)	5.1 (19)	171	38.6 (6)	164	40.9 (4)	142	93.7 (21)
Clare	165	81.2 (43)	12.1 (45)	178	40.4 (4)	165	27.3 (23)	149	89.9 (42)
Clinton	111	92.8 (7)	2.7 (4)	123	30.1 (38)	91	*	88	*
Crawford	79	*	*	91	*	86	*	69	*

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

(2) Excludes records with unknown data or errors.

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

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

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

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

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

WIC PNSS & PedNSS

Table 6B

2021 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	172	94.8 (2)	0.6 (1)	188	29.8 (39)	180	25.6 (30)	145	96.6 (5)
Dickinson	127	89.8 (19)	7.9 (33)	137	35.8 (17)	133	34.6 (11)	109	94.5 (16)
Eaton	203	88.2 (25)	3.4 (7)	221	23.1 (55)	204	34.3 (12)	150	92.7 (26)
Emmet	113	91.2 (12)	5.3 (21)	121	29.8 (39)	118	39.8 (5)	90	*
Genesee	2,150	86.7 (29)	4.7 (16)	2,400	24.6 (53)	1,931	16.7 (50)	1,777	93.0 (23)
Gladwin	116	73.3 (54)	16.4 (52)	123	37.4 (11)	119	23.5 (38)	94	*
Gogebic	41	*	*	49	*	45	*	31	*
Gr Travers	351	80.6 (46)	14.5 (50)	379	33.0 (26)	377	28.4 (18)	283	91.5 (34)
Gratiot	163	90.2 (17)	4.3 (14)	180	33.9 (22)	141	29.1 (15)	133	95.5 (11)
Hillsdale	173	89.6 (20)	5.2 (20)	199	27.6 (45)	183	36.1 (8)	152	96.7 (4)
Houghton	169	82.8 (39)	8.9 (36)	192	31.8 (33)	186	38.2 (7)	148	97.3 (2)
Huron	116	81.0 (44)	10.3 (38)	121	23.1 (55)	115	43.5 (2)	81	*
Ingham	1,525	88.7 (22)	5.4 (22)	1,723	28.0 (44)	1,559	10.2 (57)	1,256	90.2 (39)
Ionia	254	91.7 (9)	2.8 (5)	275	26.5 (48)	265	18.9 (49)	196	96.4 (6)
Iosco	122	82.0 (42)	10.7 (40)	132	37.1 (12)	126	26.2 (25)	98	*
Iron	42	*	*	45	*	42	*	37	*
Isabella	319	83.4 (37)	11.3 (41)	342	36.8 (14)	334	35.3 (10)	262	93.1 (22)
Jackson	857	82.3 (40)	12.5 (47)	937	39.6 (5)	908	24.0 (34)	734	90.6 (36)
Kalamazoo	1,064	86.7 (29)	7.2 (30)	1,187	33.2 (24)	1,128	19.5 (46)	891	90.2 (39)
Kalkaska	86	*	*	93	*	81	*	67	*
Kent	2,735	84.6 (33)	5.7 (24)	3,066	21.6 (59)	2,530	20.6 (43)	2,215	92.8 (24)

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

(2) Excludes records with unknown data or errors.

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

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

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

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

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

WIC PNSS & PedNSS

Table 6B

2021 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	53	*	*	53	*	54	*	46	*
Lapeer	312	85.6 (32)	10.6 (39)	338	32.8 (28)	325	28.9 (17)	247	93.9 (20)
Leelanau	28	*	*	34	*	29	*	26	*
Lenawee	323	92.0 (8)	0.9 (2)	377	27.3 (46)	367	24.3 (33)	283	92.2 (30)
Livingston	292	80.8 (45)	12.0 (44)	323	30.7 (37)	307	39.4 (6)	238	95.4 (12)
Luce	36	*	*	38	*	35	*	30	*
Mackinac	24	*	*	26	*	23	*	19	*
Macomb	2,839	91.1 (14)	4.5 (15)	3,068	26.0 (49)	2,290	13.6 (53)	2,236	95.2 (13)
Manistee	80	*	*	82	*	83	*	64	*
Marquette	202	82.2 (41)	11.4 (42)	218	36.2 (16)	173	22.0 (40)	185	94.6 (15)
Mason	100	84.0 (36)	13.0 (48)	119	31.9 (31)	111	29.7 (13)	92	*
Mecosta	231	88.7 (22)	8.7 (35)	249	35.3 (18)	237	11.4 (55)	190	90.5 (37)
Menominee	73	*	*	87	*	76	*	70	*
Midland	303	86.5 (31)	8.6 (34)	318	24.2 (54)	305	23.9 (35)	218	96.3 (7)
Missaukee	69	*	*	73	*	73	*	59	*
Monroe	550	90.4 (16)	3.1 (6)	605	25.6 (50)	586	29.0 (16)	427	94.1 (18)
Montcalm	284	91.2 (12)	3.9 (10)	320	31.9 (31)	271	29.2 (14)	249	96.8 (3)
Montmorenc	39	*	*	43	*	43	*	33	*
Muskegon	1,024	84.5 (34)	7.6 (31)	1,115	34.5 (20)	924	25.9 (28)	848	91.7 (33)
Newaygo	319	71.2 (57)	19.4 (55)	357	42.6 (3)	337	13.6 (53)	295	88.5 (44)
Oakland	3,006	90.7 (15)	4.0 (11)	3,345	25.0 (51)	2,678	22.3 (39)	2,423	92.5 (28)

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

(2) Excludes records with unknown data or errors.

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

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

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

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

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

WIC PNSS & PedNSS

Table 6B

2021 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	136	66.2 (58)	24.3 (58)	152	30.9 (36)	141	27.7 (22)	110	85.5 (50)
Ogemaw	113	83.2 (38)	9.7 (37)	124	34.7 (19)	118	16.1 (51)	92	*
Ontonagon	11	*	*	13	*	13	*	9	*
Osceola	145	73.1 (55)	19.3 (54)	155	47.1 (1)	151	19.2 (48)	124	87.9 (45)
Oscoda	32	*	*	37	*	36	*	32	*
Otsego	115	93.9 (4)	3.5 (8)	124	32.3 (30)	122	23.8 (36)	101	94.1 (18)
Ottawa	910	91.5 (11)	4.8 (18)	1,007	29.7 (41)	901	26.1 (27)	686	89.5 (43)
Presque Is	33	*	*	36	*	36	*	31	*
Roscommon	95	*	*	99	*	92	*	85	*
Saginaw	1,119	84.3 (35)	7.1 (29)	1,200	33.8 (23)	1,147	23.8 (36)	951	90.7 (35)
Sanilac	154	95.5 (1)	1.3 (3)	168	25.0 (51)	160	47.5 (1)	125	96.0 (9)
Schoolcraf	33	*	*	37	*	37	*	35	*
Shiawassee	300	93.0 (5)	4.7 (16)	322	22.4 (57)	73	*	212	87.3 (47)
St Clair	519	71.7 (56)	20.6 (57)	583	44.8 (2)	562	26.2 (25)	481	87.3 (47)
St Joseph	298	59.7 (59)	27.9 (59)	366	36.6 (15)	354	20.6 (43)	286	87.4 (46)
Tuscola	235	80.0 (47)	11.9 (43)	246	29.7 (41)	234	27.8 (21)	174	92.5 (28)
Van Buren	369	73.7 (53)	19.5 (56)	418	38.0 (9)	391	11.0 (56)	325	86.5 (49)
Washtenaw	941	89.5 (21)	6.4 (27)	1,051	34.3 (21)	1,020	15.1 (52)	807	95.0 (14)
Wayne	11,528	87.1 (28)	3.7 (9)	12,539	22.1 (58)	9,674	21.6 (41)	8,716	90.5 (37)
Wexford	196	76.0 (51)	15.8 (51)	215	33.0 (26)	202	25.7 (29)	162	90.1 (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) Women who reported taking a multivitamin four times a weeks or more in the month before pregnancy; proxy for folic acid consumption.

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

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

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

WIC PNSS & PedNSS

Table 6B

2021 Pregnancy Nutrition Surveillance (1)

Michigan

Comparison of Maternal Behavioral Indicators by County

Michigan	42,619	86.5	6.3	46,872	27.8	39,891	22.7	34,303	91.8
National (Prior Year)	73,395	71.3	6.9	78,665	20.5	57,185	22.8	57,616	89.2

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

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

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

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

WIC PNSS & PedNSS

Table 7B

2021 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	34	*	34	*	4	*	20	*	34	*
Alger	29	*	27	*	8	*	26	*	27	*
Allegan	418	24.4 (19)	402	13.9 (25)	77	*	331	4.8 (17)	401	2.0 (32)
Alpena	135	39.3 (54)	128	23.4 (53)	37	*	108	11.1 (43)	128	1.6 (23)
Antrim	73	*	71	*	16	*	50	*	71	*
Arenac	107	41.1 (57)	106	28.3 (57)	39	*	96	*	106	9.4 (59)
Baraga	40	*	39	*	14	*	29	*	39	*
Barry	166	37.3 (51)	165	17.6 (37)	48	*	122	5.7 (19)	165	3.0 (45)
Bay	487	34.7 (46)	467	19.3 (43)	123	35.8 (16)	387	9.0 (35)	470	2.8 (43)
Benzie	74	*	67	*	23	*	59	*	67	*
Berrien	701	25.7 (24)	671	11.8 (14)	115	47.0 (7)	540	9.6 (37)	672	3.4 (50)
Branch	301	21.3 (13)	282	14.5 (28)	38	*	230	10.4 (40)	282	1.4 (18)
Calhoun	873	23.6 (18)	850	11.3 (12)	156	36.5 (15)	687	2.8 (2)	854	0.8 (5)
Cass	243	18.1 (9)	240	7.5 (6)	35	*	199	4.0 (13)	241	0.4 (1)
Charlevoix	95	*	89	*	14	*	73	*	89	*
Cheboygan	120	38.3 (52)	111	19.8 (44)	35	*	100	6.0 (20)	111	1.8 (30)
Chippewa	165	25.5 (23)	158	20.9 (48)	36	*	141	7.8 (31)	158	2.5 (40)
Clare	172	37.2 (50)	163	25.8 (55)	47	*	149	12.1 (47)	161	2.5 (40)

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

(2) Excludes records with unknown data or errors.

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

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

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

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

WIC PNSS & PedNSS

Table 7B

2021 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	118	32.2 (41)	117	15.4 (32)	28	*	88	*	117	1.7 (25)
Crawford	89	*	81	*	19	*	69	*	81	*
Delta	180	36.1 (48)	171	22.8 (50)	46	*	145	10.3 (39)	172	1.7 (25)
Dickinson	133	26.3 (26)	126	13.5 (23)	28	*	109	2.8 (2)	125	0.8 (5)
Eaton	210	35.7 (47)	202	14.9 (30)	46	*	150	4.7 (16)	203	3.0 (45)
Emmet	119	25.2 (21)	114	14.9 (30)	20	*	90	*	113	2.7 (42)
Genesee	2,309	21.2 (12)	2,178	12.8 (19)	335	40.6 (11)	1,775	8.7 (33)	2,173	2.3 (37)
Gladwin	120	31.7 (40)	116	23.3 (51)	24	*	94	*	116	3.4 (50)
Gogebic	46	*	41	*	10	*	31	*	42	*
Gr Travers	377	34.0 (44)	351	13.1 (20)	95	*	283	4.2 (14)	351	1.7 (25)
Gratiot	176	34.1 (45)	171	19.9 (45)	43	*	133	9.0 (35)	170	1.2 (14)
Hillsdale	183	31.1 (36)	173	24.3 (54)	45	*	152	10.5 (41)	173	2.3 (37)
Houghton	186	31.2 (37)	169	18.9 (41)	40	*	148	6.1 (22)	170	2.4 (39)
Huron	115	39.1 (53)	116	23.3 (51)	33	*	81	*	116	1.7 (25)
Ingham	1,662	15.7 (6)	1,634	7.8 (8)	186	48.9 (5)	1,254	3.0 (7)	1,633	2.2 (35)
Ionia	264	32.2 (41)	254	18.5 (39)	61	*	196	6.6 (26)	255	0.8 (5)
Iosco	126	41.3 (58)	122	28.7 (58)	35	*	98	*	122	3.3 (48)
Iron	42	*	41	*	23	*	37	*	41	*
Isabella	335	22.1 (14)	320	14.4 (27)	55	*	261	6.9 (27)	319	0.6 (3)

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

(2) Excludes records with unknown data or errors.

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

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

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

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

WIC PNSS & PedNSS

Table 7B

2021 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	911	28.8 (33)	865	18.7 (40)	202	30.2 (17)	734	6.0 (20)	864	2.0 (32)
Kalamazoo	1,142	20.8 (10)	1,077	11.7 (13)	173	39.3 (12)	890	4.4 (15)	1,077	1.3 (15)
Kalkaska	85	*	87	*	20	*	67	*	87	*
Kent	2,921	11.2 (3)	2,812	6.2 (4)	222	45.5 (8)	2,163	3.0 (7)	2,798	1.1 (11)
Lake	52	*	53	*	21	*	46	*	53	*
Lapeer	328	27.4 (29)	313	14.7 (29)	62	*	247	11.7 (46)	312	2.2 (35)
Leelanau	32	*	28	*	4	*	26	*	28	*
Lenawee	368	26.4 (27)	330	11.8 (14)	62	*	283	7.1 (28)	330	4.5 (55)
Livingston	319	27.3 (28)	293	12.3 (18)	57	*	238	3.4 (10)	291	1.0 (9)
Luce	36	*	36	*	11	*	30	*	34	*
Mackinac	25	*	24	*	4	*	18	*	24	*
Macomb	2,972	11.3 (4)	2,852	5.0 (3)	234	48.7 (6)	2,233	3.6 (11)	2,850	1.1 (11)
Manistee	84	*	79	*	18	*	64	*	80	*
Marquette	215	50.7 (59)	209	30.1 (59)	90	*	182	8.2 (32)	208	0.5 (2)
Mason	115	27.8 (30)	101	10.9 (10)	24	*	92	*	100	4.0 (53)
Mecosta	235	31.5 (38)	232	20.7 (47)	56	*	191	11.0 (42)	232	1.7 (25)
Menominee	83	*	75	*	23	*	70	*	75	*
Midland	306	23.2 (17)	304	13.5 (23)	53	*	218	2.8 (2)	303	1.3 (15)
Missaukee	74	*	68	*	14	*	59	*	68	*

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

(2) Excludes records with unknown data or errors.

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

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

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

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

WIC PNSS & PedNSS

Table 7B

2021 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	587	25.9 (25)	554	13.9 (25)	102	38.2 (14)	427	8.7 (33)	551	4.4 (54)
Montcalm	312	36.9 (49)	293	20.1 (46)	84	*	249	11.2 (44)	294	1.4 (18)
Montmorenc	43	*	38	*	12	*	33	*	39	*
Muskegon	1,064	28.1 (32)	1,052	15.6 (35)	224	38.4 (13)	850	6.5 (25)	1,045	1.1 (11)
Newaygo	351	25.1 (20)	324	17.6 (37)	64	*	296	3.7 (12)	325	0.6 (3)
Oakland	3,243	9.1 (1)	3,034	3.9 (1)	211	43.1 (9)	2,422	2.8 (2)	3,032	1.0 (9)
Oceana	140	22.1 (14)	142	13.4 (22)	21	*	110	6.4 (24)	142	2.1 (34)
Ogemaw	117	31.6 (39)	114	21.9 (49)	24	*	92	*	114	6.1 (58)
Ontonagon	13	*	11	*	2	*	9	*	11	*
Osceola	153	29.4 (34)	146	19.2 (42)	28	*	124	12.9 (49)	146	4.8 (57)
Oscoda	36	*	32	*	9	*	32	*	32	*
Otsego	122	39.3 (54)	115	26.1 (56)	32	*	101	18.8 (51)	115	3.5 (52)
Ottawa	964	17.5 (8)	918	7.6 (7)	117	41.9 (10)	683	2.5 (1)	915	1.4 (18)
Presque Is	36	*	33	*	6	*	31	*	33	*
Roscommon	98	*	97	*	28	*	85	*	97	*
Saginaw	1,150	29.9 (35)	1,133	11.8 (14)	279	51.6 (3)	950	11.6 (45)	1,134	3.3 (48)
Sanilac	162	14.8 (5)	153	11.8 (14)	15	*	125	5.6 (18)	153	1.3 (15)
Schoolcraf	37	*	33	*	15	*	35	*	33	*
Shiawassee	316	22.2 (16)	300	11.0 (11)	51	*	207	7.7 (30)	295	1.4 (18)

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

(2) Excludes records with unknown data or errors.

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

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

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

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

WIC PNSS & PedNSS

Table 7B

2021 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	567	40.6 (56)	521	15.5 (34)	167	50.3 (4)	481	12.3 (48)	521	4.6 (56)
St Joseph	351	27.9 (31)	314	13.1 (20)	63	*	286	7.3 (29)	313	2.9 (44)
Tuscola	235	32.8 (43)	236	16.9 (36)	58	*	174	14.9 (50)	236	3.0 (45)
Van Buren	391	21.0 (11)	380	10.0 (9)	65	*	325	2.8 (2)	381	1.6 (23)
Washtenaw	1,028	17.1 (7)	953	7.0 (5)	119	58.8 (2)	807	3.0 (7)	950	0.9 (8)
Wayne	11,990	11.1 (2)	11,688	4.0 (2)	887	59.5 (1)	8,704	6.2 (23)	11,676	1.9 (31)
Wexford	206	25.2 (21)	201	15.4 (32)	38	*	161	9.9 (38)	201	1.5 (22)
Michigan	45,084	19.1	43,243	9.7	6,108	42.3	34,212	6.2	43,188	1.9
National (Prior Year)	79,201	24.6	81,871	11.3	14,082	35.8	66,264	8.1	79,517	3.3

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

(2) Excludes records with unknown data or errors.

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

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

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

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

WIC PNSS & PedNSS

Table 8B

2021 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	15	*	*	31	*	15	*	15	*
Alger	16	*	*	27	*	15	*	16	*
Allegan	205	9.8 (16)	8.3 (21)	388	14.4 (55)	172	2.3 (6)	208	74.0 (25)
Alpena	77	*	*	125	13.6 (46)	63	*	77	*
Antrim	32	*	*	69	*	27	*	34	*
Arenac	59	*	*	103	9.7 (11)	53	*	59	*
Baraga	24	*	*	36	*	20	*	24	*
Barry	77	*	*	160	11.9 (27)	65	*	78	*
Bay	235	10.6 (22)	7.2 (18)	460	10.2 (15)	207	3.9 (16)	235	72.8 (26)
Benzie	40	*	*	62	*	36	*	40	*
Berrien	340	8.8 (10)	6.2 (11)	651	10.9 (20)	297	4.7 (19)	341	74.2 (24)
Branch	157	8.3 (8)	6.4 (13)	276	10.5 (18)	135	5.2 (25)	158	83.5 (8)
Calhoun	416	9.1 (12)	5.8 (6)	829	9.4 (10)	367	5.7 (30)	419	77.1 (17)
Cass	121	9.9 (17)	11.6 (30)	234	11.1 (23)	106	1.9 (4)	121	82.6 (10)
Charlevoix	48	*	*	86	*	42	*	52	*
Cheboygan	49	*	*	106	13.2 (42)	40	*	49	*
Chippewa	73	*	*	151	6.6 (3)	65	*	73	*
Clare	98	*	*	161	13.0 (38)	88	*	98	*
Clinton	58	*	*	112	19.6 (59)	46	*	58	*

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

(2) Excludes records with unknown data or errors.

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

(4) <2500 g.

(5) >4000 g.

(6) <37 weeks gestation.

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

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

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

WIC PNSS & PedNSS

Table 8B

2021 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	32	*	*	74	*	27	*	32	*
Delta	79	*	*	169	7.7 (5)	69	*	79	*
Dickinson	57	*	*	124	12.1 (28)	53	*	57	*
Eaton	96	*	*	199	13.1 (40)	82	*	97	*
Emmet	55	*	*	110	8.2 (6)	49	*	55	*
Genesee	996	12.0 (29)	4.1 (1)	2,150	14.0 (49)	838	4.7 (19)	997	61.3 (35)
Gladwin	59	*	*	106	13.2 (42)	52	*	59	*
Gogebic	16	*	*	41	*	15	*	17	*
Gr Travers	204	10.3 (20)	12.7 (34)	338	10.9 (20)	179	3.9 (16)	205	91.2 (1)
Gratiot	73	*	*	162	11.1 (23)	64	*	73	*
Hillsdale	88	*	*	170	15.3 (57)	78	*	88	*
Houghton	92	*	*	169	5.9 (2)	88	*	91	*
Huron	68	*	*	114	5.3 (1)	64	*	68	*
Ingham	873	11.2 (24)	6.8 (16)	1,588	13.4 (44)	758	4.6 (18)	878	81.4 (13)
Ionia	132	6.8 (5)	12.1 (31)	252	12.3 (30)	115	3.5 (14)	132	86.4 (3)
Iosco	50	*	*	116	12.9 (36)	46	*	50	*
Iron	22	*	*	40	*	21	*	22	*
Isabella	157	10.2 (19)	11.5 (29)	314	8.9 (9)	142	5.6 (28)	157	71.3 (27)
Jackson	456	11.6 (27)	6.1 (8)	836	11.8 (26)	399	5.8 (31)	458	77.1 (17)

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

(2) Excludes records with unknown data or errors.

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

(4) <2500 g.

(5) >4000 g.

(6) <37 weeks gestation.

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

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

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

WIC PNSS & PedNSS

Table 8B

2021 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	510	11.6 (27)	7.1 (17)	1,039	12.5 (32)	441	5.0 (22)	512	74.8 (23)
Kalkaska	54	*	*	84	*	47	*	54	*
Kent	1,252	12.9 (34)	6.5 (14)	2,762	14.9 (56)	1,054	5.6 (28)	1,261	75.4 (20)
Lake	25	*	*	50	*	18	*	25	*
Lapeer	152	8.6 (9)	5.3 (4)	300	12.7 (34)	129	3.1 (10)	152	84.2 (7)
Leelanau	11	*	*	28	*	11	*	11	*
Lenawee	164	9.1 (12)	9.8 (25)	328	11.0 (22)	143	3.5 (14)	164	70.7 (29)
Livingston	134	9.0 (11)	9.0 (24)	286	12.2 (29)	117	2.6 (7)	134	82.8 (9)
Luce	17	*	*	33	*	14	*	17	*
Mackinac	16	*	*	23	*	13	*	16	*
Macomb	1,309	12.5 (32)	4.4 (2)	2,772	14.1 (50)	1,100	5.2 (25)	1,315	67.7 (32)
Manistee	43	*	*	73	*	35	*	43	*
Marquette	107	7.5 (6)	12.1 (31)	200	8.5 (8)	96	*	108	76.9 (19)
Mason	62	*	*	100	13.0 (38)	55	*	62	*
Mecosta	112	8.0 (7)	13.4 (35)	229	10.0 (13)	100	3.0 (9)	112	82.1 (12)
Menominee	45	*	*	74	*	39	*	45	*
Midland	155	6.5 (3)	11.0 (28)	297	10.4 (16)	136	1.5 (2)	155	77.4 (16)
Missaukee	20	*	*	67	*	19	*	20	*
Monroe	237	11.4 (26)	5.9 (7)	537	10.4 (16)	213	5.2 (25)	238	71.0 (28)

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

(2) Excludes records with unknown data or errors.

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

(4) <2500 g.

(5) >4000 g.

(6) <37 weeks gestation.

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

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

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

WIC PNSS & PedNSS

Table 8B

2021 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	140	10.7 (23)	10.0 (26)	288	15.3 (57)	116	1.7 (3)	140	85.7 (5)
Montmorenc	17	*	*	39	*	14	*	17	*
Muskegon	569	10.0 (18)	7.7 (20)	1,006	12.6 (33)	498	4.8 (21)	573	68.9 (31)
Newaygo	164	12.2 (30)	6.1 (8)	307	13.4 (44)	139	5.0 (22)	165	82.4 (11)
Oakland	1,413	12.5 (32)	6.1 (8)	2,955	13.7 (48)	1,201	5.1 (24)	1,429	75.2 (21)
Oceana	75	*	*	131	11.5 (25)	67	*	76	*
Ogemaw	50	*	*	106	6.6 (3)	44	*	50	*
Ontonagon	7	*	*	10	*	3	*	7	*
Osceola	76	*	*	138	12.3 (30)	64	*	76	*
Oscoda	18	*	*	31	*	16	*	18	*
Otsego	67	*	*	108	8.3 (7)	62	*	72	*
Ottawa	372	9.4 (14)	8.6 (22)	894	13.1 (40)	322	3.4 (13)	433	80.6 (15)
Presque Is	19	*	*	31	*	16	*	19	*
Roscommon	46	*	*	92	*	41	*	46	*
Saginaw	600	14.7 (36)	5.7 (5)	1,101	14.3 (52)	516	7.0 (33)	601	70.5 (30)
Sanilac	70	*	*	150	10.0 (13)	65	*	72	*
Schoolcraf	20	*	*	32	*	16	*	20	*
Shiawassee	136	5.1 (1)	8.8 (23)	294	9.9 (12)	125	3.2 (11)	136	66.9 (33)
St Clair	260	10.4 (21)	7.3 (19)	499	12.8 (35)	217	3.2 (11)	260	66.5 (34)

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

(2) Excludes records with unknown data or errors.

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

(4) <2500 g.

(5) >4000 g.

(6) <37 weeks gestation.

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

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

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

WIC PNSS & PedNSS

Table 8B

2021 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	168	5.4 (2)	14.9 (36)	303	10.6 (19)	149	2.0 (5)	167	85.6 (6)
Tuscola	123	6.5 (3)	10.6 (27)	230	14.3 (52)	105	2.9 (8)	123	81.3 (14)
Van Buren	201	9.5 (15)	6.5 (14)	373	12.9 (36)	169	1.2 (1)	204	75.0 (22)
Washtenaw	464	12.3 (31)	6.3 (12)	920	13.6 (46)	398	7.0 (33)	466	85.8 (4)
Wayne	5,281	13.7 (35)	4.7 (3)	11,355	14.3 (52)	4,466	6.8 (32)	5,361	60.1 (36)
Wexford	107	11.2 (24)	12.1 (31)	197	14.2 (51)	91	*	107	89.7 (2)
Michigan	20,634	11.6	6.4	42,035	13.2	17,699	5.3	20,853	71.6
National (Prior Year)	74,575	10.2	6.0	72,650	12.0	61,872	4.5	75,364	57.4

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

(2) Excludes records with unknown data or errors.

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

(4) <2500 g.

(5) >4000 g.

(6) <37 weeks gestation.

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

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

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

WIC PNSS & PedNSS

Table 3B

2019 - 2021 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	110	92.7	0.9	1.8	0.0	0.0	4.5	0.0
Alger	92	*	*	*	*	*	*	*
Allegan	1,371	75.9	1.5	17.1	0.2	0.5	3.8	1.0
Alpena	453	94.0	0.7	1.5	0.4	0.2	2.9	0.2
Antrim	249	90.4	0.4	3.2	0.4	0.8	4.8	0.0
Arenac	318	94.7	0.0	1.9	0.0	0.0	3.5	0.0
Baraga	131	52.7	0.8	3.8	30.5	0.8	10.7	0.8
Barry	619	92.9	0.2	4.8	0.2	0.5	1.0	0.5
Bay	1,559	79.8	1.9	11.5	0.0	0.2	6.2	0.4
Benzie	242	89.7	0.8	4.1	1.2	0.0	3.3	0.8
Berrien	2,584	49.1	36.8	8.1	0.3	1.0	4.1	0.5
Branch	1,008	85.8	0.7	10.2	0.0	0.4	1.7	1.2
Calhoun	2,796	60.8	19.9	7.3	0.4	5.0	6.2	0.5
Cass	890	61.0	7.4	21.6	0.3	0.2	8.1	1.3
Charlevoix	320	89.1	0.3	3.4	0.6	0.0	6.6	0.0
Cheboygan	382	88.0	0.8	2.9	0.3	0.0	8.1	0.0
Chippewa	588	53.7	0.7	3.1	21.1	0.9	20.1	0.3
Clare	574	94.6	0.2	2.3	0.3	0.5	1.9	0.2
Clinton	403	81.6	1.2	11.7	0.0	0.0	5.0	0.5
Crawford	269	91.8	0.7	4.5	0.0	0.0	2.6	0.4
Delta	622	84.2	0.5	2.4	1.1	0.5	11.1	0.2
Dickinson	400	93.0	0.3	2.3	0.0	0.0	3.3	1.3
Eaton	725	84.6	4.3	8.6	0.0	1.5	0.8	0.3

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

(2) Excludes data with errors.

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

WIC PNSS & PedNSS

Table 3B

2019 - 2021 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	433	87.3	1.4	2.1	1.6	0.5	7.2	0.0
Genesee	7,771	47.4	39.5	5.6	0.1	0.2	6.9	0.3
Gladwin	395	94.9	0.0	2.5	0.0	0.5	2.0	0.0
Gogebic	175	80.0	2.3	2.3	5.1	1.1	6.9	2.3
Gr Travers	1,164	85.0	0.8	6.0	2.3	0.9	4.6	0.5
Gratiot	625	85.9	0.3	11.4	0.2	0.0	1.8	0.5
Hillsdale	668	93.7	0.1	2.8	0.1	0.1	1.9	1.0
Houghton	555	89.7	1.6	1.8	0.7	2.0	3.8	0.4
Huron	418	92.6	0.2	5.3	0.0	0.2	1.2	0.5
Ingham	5,297	41.6	28.6	15.7	0.2	5.2	8.4	0.3
Ionia	951	86.4	0.1	9.7	0.0	0.1	3.6	0.1
Iosco	447	89.7	1.1	2.5	0.4	0.2	6.0	0.0
Iron	169	88.8	0.0	1.8	0.6	0.0	5.9	3.0
Isabella	1,046	78.9	3.5	6.3	3.5	0.9	6.7	0.2
Jackson	2,931	71.4	14.3	5.8	0.2	0.5	7.5	0.2
Kalamazoo	3,980	46.0	34.9	9.9	0.2	1.0	7.6	0.4
Kalkaska	289	91.7	0.3	3.1	0.0	0.7	4.2	0.0
Kent	10,026	31.6	28.9	29.4	0.3	4.7	4.8	0.3
Lake	165	73.3	11.5	2.4	0.6	0.0	11.5	0.6
Lapeer	1,111	84.0	0.6	11.6	0.0	0.5	3.0	0.3
Leelanau	111	55.9	0.0	23.4	10.8	0.0	9.9	0.0
Lenawee	1,257	72.1	2.5	18.9	0.1	0.2	5.6	0.6
Livingston	1,015	91.4	1.2	3.8	0.0	0.5	2.2	0.9
Luce	124	83.1	0.8	2.4	2.4	0.0	11.3	0.0

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

(2) Excludes data with errors.

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

WIC PNSS & PedNSS

Table 3B

2019 - 2021 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	97	*	*	*	*	*	*	*
Macomb	9,822	53.2	30.6	4.4	0.1	7.2	4.3	0.2
Manistee	300	81.0	1.3	6.0	2.7	0.3	8.3	0.3
Marquette	726	87.9	1.2	2.9	1.4	0.4	6.1	0.1
Mason	400	78.8	1.8	12.3	0.3	1.0	5.5	0.5
Mecosta	734	87.6	3.7	2.7	0.3	0.4	4.9	0.4
Menominee	269	64.7	1.1	10.0	10.0	0.0	12.3	1.9
Midland	957	89.8	1.5	3.9	0.0	1.7	3.2	0.0
Missaukee	211	87.2	0.0	7.6	0.0	0.0	5.2	0.0
Monroe	1,964	81.2	6.7	6.2	0.1	0.4	4.9	0.6
Montcalm	1,020	91.5	0.3	6.0	0.0	0.1	1.8	0.4
Montmorenc	149	95.3	0.7	2.0	0.7	0.0	0.7	0.7
Muskegon	3,707	54.2	27.8	9.3	0.3	0.5	7.5	0.3
Newaygo	1,065	75.2	0.5	20.1	0.4	0.4	3.0	0.5
Oakland	10,572	41.2	41.5	11.0	0.1	2.0	4.0	0.2
Oceana	493	59.8	0.8	36.5	0.2	0.0	2.6	0.0
Ogemaw	394	90.9	0.3	4.3	0.3	0.0	4.1	0.3
Ontonagon	55	*	*	*	*	*	*	*
Osceola	453	90.3	1.5	3.5	0.0	0.0	4.6	0.0
Oscoda	118	94.9	0.0	3.4	0.0	0.0	1.7	0.0
Otsego	457	96.5	0.0	1.1	0.0	0.2	2.2	0.0
Ottawa	3,242	54.1	4.9	32.4	0.2	3.0	4.6	0.7
Presque Is	100	93.0	1.0	0.0	1.0	0.0	5.0	0.0
Roscommon	321	94.1	0.0	1.2	0.0	0.3	3.7	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 PNSS & PedNSS

Table 3B

2019 - 2021 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	3,813	38.4	40.7	14.8	0.0	0.6	5.0	0.4
Sanilac	589	93.4	0.2	4.4	0.2	0.3	1.0	0.5
Schoolcraf	126	74.6	0.0	0.0	9.5	0.0	15.9	0.0
Shiawassee	1,080	88.1	0.5	6.8	0.0	0.1	4.4	0.2
St Clair	2,039	80.8	6.3	6.4	0.1	0.5	5.6	0.2
St Joseph	1,261	71.1	0.7	19.8	0.0	0.2	7.7	0.5
Tuscola	826	93.1	0.1	4.7	0.0	0.1	1.9	0.0
Van Buren	1,360	63.6	3.1	28.6	0.0	0.5	2.9	1.3
Washtenaw	3,202	37.2	40.7	10.2	0.1	2.5	8.9	0.3
Wayne	41,049	28.3	57.0	9.4	0.1	2.6	2.4	0.2
Wexford	756	91.0	0.5	2.6	0.0	0.4	5.0	0.4
Michigan	151,661	51.0	30.6	10.9	0.4	2.3	4.6	0.3

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

(2) Excludes data with errors.

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

WIC PNSS & PedNSS

Table 4B

2019 - 2021 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	110	0.0	0.9	2.7	67.3	26.4	2.7	0.0
Alger	92	*	*	*	*	*	*	*
Allegan	1,371	0.0	2.6	7.5	60.2	27.7	2.0	0.1
Alpena	453	0.0	2.4	8.6	63.1	24.5	1.3	0.0
Antrim	249	0.0	2.0	8.0	63.1	26.1	0.8	0.0
Arenac	318	0.0	2.2	7.2	69.8	19.5	1.3	0.0
Baraga	131	0.0	3.8	8.4	62.6	24.4	0.8	0.0
Barry	619	0.0	2.6	6.9	64.1	24.2	1.3	0.8
Bay	1,559	0.1	2.6	7.5	62.3	26.1	1.4	0.0
Benzie	242	0.0	3.3	5.0	64.0	27.3	0.4	0.0
Berrien	2,584	0.2	3.3	9.6	60.5	23.2	1.5	1.7
Branch	1,008	0.0	1.9	9.6	61.6	23.8	3.0	0.1
Calhoun	2,796	0.1	2.8	7.5	64.1	23.6	1.4	0.4
Cass	890	0.3	3.8	11.6	59.0	23.6	1.2	0.4
Charlevoix	320	0.0	1.6	5.6	67.8	23.1	1.9	0.0
Cheboygan	382	0.3	2.1	10.2	60.5	25.1	1.8	0.0
Chippewa	588	0.0	2.2	7.7	63.3	25.2	1.7	0.0
Clare	574	0.3	3.8	8.5	64.8	21.3	0.9	0.3
Clinton	403	0.0	1.2	5.5	58.3	33.7	1.2	0.0
Crawford	269	0.0	1.5	8.2	64.3	24.2	1.5	0.4
Delta	622	0.2	1.4	7.4	62.4	27.8	0.8	0.0
Dickinson	400	0.3	1.5	7.0	62.3	28.0	1.0	0.0
Eaton	725	0.1	3.0	8.4	59.4	26.6	1.9	0.4
Emmet	433	0.0	1.8	5.5	62.6	27.0	3.0	0.0

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

(2) Excludes data with errors.

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

WIC PNSS & PedNSS

Table 4B

2019 - 2021 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	7,771	0.2	2.4	7.6	64.1	23.9	1.6	0.2
Gladwin	395	0.0	2.0	4.6	65.6	26.6	1.3	0.0
Gogebic	175	0.0	0.0	8.6	57.7	33.1	0.6	0.0
Gr Travers	1,164	0.1	1.9	6.3	60.3	28.9	2.2	0.3
Gratiot	625	0.3	2.1	9.0	63.7	23.7	1.1	0.2
Hillsdale	668	0.4	2.2	8.1	67.4	19.6	1.3	0.9
Houghton	555	0.0	1.8	7.6	55.1	33.0	2.5	0.0
Huron	418	0.0	1.0	5.0	62.0	30.4	1.7	0.0
Ingham	5,297	0.1	2.5	7.7	60.9	26.6	1.9	0.2
Ionia	951	0.1	2.2	8.6	64.8	23.0	1.2	0.1
Iosco	447	0.0	2.7	7.6	63.5	24.4	1.6	0.2
Iron	169	0.0	4.7	7.1	59.8	27.2	1.2	0.0
Isabella	1,046	0.1	2.5	7.8	66.0	22.3	1.2	0.1
Jackson	2,931	0.0	2.8	8.1	63.5	24.0	1.1	0.5
Kalamazoo	3,980	0.1	3.3	8.1	60.3	25.9	2.0	0.4
Kalkaska	289	0.0	3.5	9.7	61.9	24.9	0.0	0.0
Kent	10,026	0.1	2.5	7.2	58.4	29.2	2.1	0.5
Lake	165	0.0	3.0	5.5	66.7	24.2	0.6	0.0
Lapeer	1,111	0.0	2.6	5.8	62.7	27.3	1.4	0.2
Leelanau	111	0.0	0.9	2.7	52.3	40.5	2.7	0.9
Lenawee	1,257	0.1	1.4	8.3	63.6	25.3	1.0	0.2
Livingston	1,015	0.0	1.7	5.0	59.8	31.1	2.2	0.2
Luce	124	0.0	5.6	4.8	62.1	26.6	0.8	0.0
Mackinac	97	*	*	*	*	*	*	*

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

(2) Excludes data with errors.

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

WIC PNSS & PedNSS

Table 4B

2019 - 2021 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	9,822	0.0	1.1	4.4	58.7	33.2	2.6	0.0
Manistee	300	0.3	1.7	9.0	54.3	29.7	4.3	0.7
Marquette	726	0.1	1.4	5.6	61.6	28.8	2.5	0.0
Mason	400	0.0	3.3	7.8	65.5	22.0	1.0	0.5
Mecosta	734	0.1	1.5	6.4	67.6	22.8	1.4	0.3
Menominee	269	0.0	3.3	9.3	64.7	21.9	0.7	0.0
Midland	957	0.0	1.7	5.9	64.8	26.1	1.6	0.0
Missaukee	211	0.0	0.0	10.4	64.5	23.7	1.4	0.0
Monroe	1,964	0.0	2.4	7.9	63.4	24.6	1.5	0.1
Montcalm	1,020	0.1	3.0	9.0	65.0	21.1	1.6	0.2
Montmorenc	149	0.0	2.7	6.7	63.1	25.5	2.0	0.0
Muskegon	3,707	0.2	3.4	10.0	61.5	23.2	1.2	0.5
Newaygo	1,065	0.1	2.0	8.0	63.2	23.9	2.4	0.4
Oakland	10,572	0.0	1.4	5.2	58.1	32.6	2.5	0.2
Oceana	493	0.0	3.0	8.7	64.3	20.9	2.8	0.2
Ogemaw	394	0.0	3.3	8.9	65.2	21.6	1.0	0.0
Ontonagon	55	*	*	*	*	*	*	*
Osceola	453	0.2	3.3	8.8	63.4	22.5	1.3	0.4
Oscoda	118	0.0	6.8	8.5	63.6	20.3	0.8	0.0
Otsego	457	0.2	1.5	8.5	63.9	24.9	0.9	0.0
Ottawa	3,242	0.1	2.1	6.3	62.0	27.3	2.0	0.2
Presque Is	100	0.0	1.0	4.0	60.0	34.0	1.0	0.0
Roscommon	321	0.0	2.8	9.7	59.2	26.5	1.2	0.6
Saginaw	3,813	0.1	2.9	8.2	64.3	22.9	1.3	0.3

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

(2) Excludes data with errors.

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

WIC PNSS & PedNSS

Table 4B

2019 - 2021 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	589	0.0	2.7	8.7	66.7	21.6	0.3	0.0
Schoolcraf	126	0.0	3.2	9.5	69.0	16.7	1.6	0.0
Shiawassee	1,080	0.0	3.3	7.8	66.4	21.5	1.0	0.0
St Clair	2,039	0.1	2.5	7.8	64.3	23.0	1.9	0.3
St Joseph	1,261	0.1	2.6	8.7	64.1	22.7	1.8	0.0
Tuscola	826	0.1	2.8	6.4	64.8	23.5	2.2	0.2
Van Buren	1,360	0.0	2.1	7.9	62.8	24.9	1.8	0.6
Washtenaw	3,202	0.1	1.4	6.3	58.1	31.7	2.2	0.2
Wayne	41,049	0.1	2.0	6.1	58.9	29.8	2.8	0.2
Wexford	756	0.0	2.5	8.9	64.7	22.4	1.3	0.3
Michigan	151,661	0.1	2.2	6.9	60.8	27.7	2.1	0.3

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

(2) Excludes data with errors.

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

WIC PNSS & PedNSS

Table 5B

2019 - 2021 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	72	*	*	37	*	*	10	*	11	*	99	*	99	*
Alger	70	*	*	26	*	*	6	*	8	*	81	*	81	*
Allegan	1,075	4.9 (58)	61.7 (47)	507	18.3 (35)	52.5 (31)	145	36.6 (3)	255	25.9 (8)	1,229	8.4 (32)	1,231	11.0 (18)
Alpena	419	5.3 (66)	64.2 (68)	242	18.6 (40)	53.3 (43)	31	*	29	*	408	8.1 (27)	409	18.6 (75)
Antrim	179	3.4 (18)	58.1 (17)	53	*	*	24	*	24	*	234	9.8 (55)	233	10.3 (13)
Arenac	257	2.7 (7)	62.3 (52)	202	20.3 (54)	54.5 (52)	23	*	29	*	307	10.1 (57)	309	16.2 (65)
Baraga	116	0.9 (2)	58.6 (20)	69	*	*	9	*	14	*	120	5.0 (3)	120	14.2 (50)
Barry	328	6.7 (72)	54.3 (6)	114	16.7 (21)	54.4 (49)	56	*	57	*	564	10.1 (57)	567	13.4 (43)
Bay	1,299	3.2 (14)	62.4 (53)	796	17.0 (26)	54.9 (53)	115	23.5 (1)	83	*	1,427	6.9 (10)	1,427	10.8 (15)
Benzie	200	4.0 (32)	51.0 (1)	125	13.6 (6)	54.4 (49)	20	*	22	*	224	8.0 (24)	224	12.1 (33)
Berrien	2,225	4.1 (38)	61.0 (40)	1,581	19.1 (48)	53.8 (46)	241	37.3 (4)	227	21.6 (6)	2,285	8.5 (36)	2,287	17.8 (71)
Branch	528	4.5 (48)	61.6 (46)	218	20.2 (53)	51.4 (23)	82	*	71	*	912	9.3 (42)	913	9.7 (6)
Calhoun	2,138	4.0 (32)	61.4 (44)	1,309	19.1 (48)	52.7 (33)	159	39.6 (7)	220	27.7 (10)	2,526	7.9 (22)	2,526	9.9 (8)
Cass	768	4.7 (51)	60.8 (35)	565	16.1 (15)	51.2 (20)	77	*	64	*	822	8.6 (37)	825	14.1 (49)
Charlevoix	213	3.8 (28)	61.0 (40)	67	*	*	27	*	34	*	302	6.6 (7)	302	15.6 (60)
Cheboygan	341	5.9 (70)	56.9 (11)	88	*	*	22	*	34	*	345	9.3 (42)	345	11.9 (27)
Chippewa	516	4.1 (38)	58.7 (21)	364	13.5 (5)	54.9 (53)	31	*	53	*	525	8.4 (32)	527	10.2 (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 PNSS & PedNSS

Table 5B

2019 - 2021 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	513	4.7 (51)	58.7 (21)	300	14.7 (10)	54.0 (47)	32	*	42	*	529	7.2 (14)	530	10.2 (9)
Clinton	372	4.8 (54)	66.4 (72)	257	15.6 (14)	49.4 (7)	30	*	49	*	373	15.5 (76)	373	15.5 (59)
Crawford	235	0.9 (2)	58.7 (21)	142	23.9 (61)	52.8 (36)	13	*	27	*	243	10.3 (60)	243	11.1 (20)
Delta	583	3.3 (16)	60.7 (33)	436	17.4 (31)	52.8 (36)	57	*	81	*	563	10.5 (63)	563	14.9 (54)
Dickinson	270	6.7 (72)	53.7 (3)	105	17.1 (27)	50.5 (15)	33	*	39	*	358	3.1 (1)	359	15.9 (63)
Eaton	449	6.2 (71)	61.2 (43)	226	19.5 (51)	50.4 (13)	54	*	64	*	659	10.6 (64)	660	16.2 (65)
Emmet	379	3.7 (25)	63.9 (66)	161	13.0 (4)	52.8 (36)	39	*	39	*	406	6.9 (10)	406	15.3 (57)
Genesee	5,595	4.9 (58)	59.2 (24)	2,705	18.7 (43)	51.7 (25)	708	46.9 (17)	603	32.0 (16)	7,051	8.0 (24)	7,060	15.8 (61)
Gladwin	372	3.0 (11)	62.4 (53)	268	11.2 (2)	58.2 (62)	25	*	30	*	364	9.3 (42)	366	15.0 (55)
Gogebic	154	2.6 (6)	57.8 (16)	94	*	*	15	*	14	*	157	13.4 (73)	157	14.6 (51)
Gr Travers	990	4.6 (50)	53.7 (3)	777	16.5 (18)	51.9 (26)	79	*	70	*	1,067	8.7 (38)	1,070	8.7 (2)
Gratiot	589	2.9 (9)	66.9 (73)	442	22.6 (58)	48.4 (5)	45	*	51	*	575	13.9 (74)	577	15.3 (57)
Hillsdale	561	5.5 (68)	61.7 (47)	396	17.2 (29)	51.5 (24)	40	*	77	*	608	7.1 (13)	609	5.9 (1)
Houghton	476	2.7 (7)	56.9 (11)	326	16.9 (24)	47.2 (4)	33	*	59	*	491	7.7 (20)	491	12.0 (30)
Huron	369	5.1 (62)	65.6 (71)	277	16.6 (20)	57.4 (61)	34	*	49	*	395	8.4 (32)	397	12.1 (33)
Ingham	4,375	3.8 (28)	62.1 (51)	3,434	18.9 (45)	53.7 (45)	444	44.4 (12)	389	31.9 (15)	4,960	7.8 (21)	4,961	12.0 (30)
Ionia	685	4.4 (46)	63.9 (66)	480	16.9 (24)	55.4 (57)	72	*	116	8.6 (1)	868	10.6 (64)	870	18.4 (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) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI >30.0).

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

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

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

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

WIC PNSS & PedNSS

Table 5B

2019 - 2021 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	290	4.8 (54)	62.8 (56)	126	18.3 (35)	49.2 (6)	34	*	28	*	401	6.7 (9)	401	11.0 (18)
Iron	120	9.2 (74)	51.7 (2)	40	*	*	11	*	14	*	144	9.7 (54)	144	13.2 (41)
Isabella	893	4.8 (54)	61.4 (44)	581	14.1 (8)	51.3 (21)	71	*	89	*	953	9.5 (50)	955	11.9 (27)
Jackson	2,012	4.1 (38)	60.8 (35)	1,294	16.1 (15)	55.0 (55)	195	39.0 (5)	195	30.8 (12)	2,690	8.0 (24)	2,695	10.9 (16)
Kalamazoo	3,129	3.4 (18)	61.7 (47)	1,566	16.5 (18)	54.2 (48)	249	45.0 (13)	371	33.2 (17)	3,524	9.4 (47)	3,526	11.5 (21)
Kalkaska	233	4.3 (42)	57.5 (14)	176	12.5 (3)	64.2 (63)	22	*	35	*	271	10.3 (60)	272	12.9 (39)
Kent	6,294	3.8 (28)	60.2 (29)	2,558	25.8 (62)	44.2 (2)	1,095	40.7 (9)	1,875	29.4 (11)	9,160	8.2 (29)	9,173	14.7 (52)
Lake	148	10.1 (75)	60.8 (35)	113	18.6 (40)	50.4 (13)	10	*	10	*	151	11.9 (71)	152	15.8 (61)
Lapeer	1,023	3.4 (18)	58.1 (17)	823	16.8 (23)	50.8 (16)	86	*	115	34.8 (20)	1,018	5.8 (6)	1,019	10.2 (9)
Leelanau	100	3.0 (11)	72.0 (75)	60	*	*	7	*	7	*	99	*	99	*
Lenawee	944	3.1 (13)	60.8 (35)	462	14.9 (12)	51.1 (18)	118	52.5 (19)	127	40.9 (24)	1,119	9.6 (53)	1,121	13.3 (42)
Livingston	973	4.5 (48)	54.1 (5)	662	18.6 (40)	52.1 (27)	71	*	137	12.4 (2)	917	10.9 (67)	918	18.1 (73)
Luce	117	5.1 (62)	58.1 (17)	84	*	*	7	*	7	*	108	13.9 (74)	108	12.0 (30)
Mackinac	95	*	*	80	*	*	8	*	12	*	88	*	88	*
Macomb	8,336	3.7 (25)	60.9 (39)	6,379	17.9 (34)	53.2 (41)	836	39.7 (8)	1,018	26.0 (9)	9,093	9.4 (47)	9,096	10.2 (9)
Manistee	157	3.2 (14)	56.7 (10)	61	*	*	24	*	39	*	280	10.0 (56)	281	12.8 (36)
Marquette	655	3.4 (18)	60.6 (31)	469	16.2 (17)	55.2 (56)	55	*	69	*	643	7.2 (14)	649	13.6 (46)

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

(2) Excludes records with unknown data or errors.

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

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

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

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

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

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

WIC PNSS & PedNSS

Table 5B

2019 - 2021 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	363	1.7 (5)	60.6 (31)	260	15.4 (13)	55.8 (60)	37	*	37	*	363	11.6 (70)	363	15.2 (56)
Mecosta	523	3.6 (23)	63.5 (61)	212	18.4 (38)	49.5 (8)	46	*	61	*	682	7.5 (19)	681	17.2 (69)
Menominee	249	4.0 (32)	54.6 (7)	182	14.8 (11)	49.5 (8)	20	*	30	*	227	6.6 (7)	229	13.1 (40)
Midland	760	2.9 (9)	63.3 (59)	126	11.1 (1)	52.4 (30)	69	*	134	15.7 (3)	889	9.4 (47)	888	11.7 (25)
Missaukee	200	5.5 (68)	60.0 (27)	149	23.5 (60)	51.0 (17)	11	*	17	*	185	4.9 (2)	185	13.5 (44)
Monroe	1,721	4.3 (42)	63.8 (64)	1,243	18.3 (35)	52.5 (31)	157	47.8 (18)	159	30.8 (12)	1,779	8.3 (31)	1,781	17.7 (70)
Montcalm	936	4.7 (51)	61.1 (42)	645	17.1 (27)	52.7 (33)	78	*	127	17.3 (4)	944	9.3 (42)	944	15.9 (63)
Montmorenc	139	5.0 (60)	57.6 (15)	69	*	*	10	*	14	*	135	11.1 (68)	135	9.6 (4)
Muskegon	3,354	3.7 (25)	63.3 (59)	2,483	18.4 (38)	52.2 (28)	220	45.5 (14)	191	22.5 (7)	3,392	9.5 (50)	3,396	17.8 (71)
Newaygo	967	3.6 (23)	63.6 (62)	660	21.1 (55)	46.4 (3)	69	*	90	*	981	10.3 (60)	981	16.2 (65)
Oakland	8,275	4.1 (38)	59.3 (26)	4,742	17.2 (29)	53.1 (40)	872	46.4 (16)	901	34.5 (19)	9,561	7.0 (12)	9,561	11.5 (21)
Oceana	392	3.3 (16)	68.4 (74)	285	18.9 (45)	53.0 (39)	40	*	35	*	439	12.1 (72)	438	13.5 (44)
Ogemaw	338	5.0 (60)	64.2 (68)	174	14.4 (9)	55.7 (59)	27	*	38	*	359	5.0 (3)	359	12.8 (36)
Ontonagon	53	*	*	37	*	*	5	*	7	*	47	*	48	*
Osceola	338	1.5 (4)	63.6 (62)	189	23.3 (59)	51.3 (21)	32	*	35	*	419	7.4 (18)	421	12.4 (35)
Oscoda	86	*	*	35	*	*	4	*	11	*	105	5.7 (5)	106	9.4 (3)
Otsego	294	4.4 (46)	55.1 (8)	80	*	*	47	*	39	*	429	8.2 (29)	429	11.9 (27)

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

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

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

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

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

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

WIC PNSS & PedNSS

Table 5B

2019 - 2021 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	1,698	5.1 (62)	56.4 (9)	808	13.7 (7)	52.7 (33)	281	42.0 (10)	565	35.9 (21)	2,934	9.2 (41)	2,936	9.6 (4)
Presque Is	98	*	*	67	*	*	5	*	3	*	92	*	92	*
Roscommon	301	4.0 (32)	60.1 (28)	226	21.2 (56)	52.2 (28)	24	*	17	*	285	10.2 (59)	288	21.9 (76)
Saginaw	3,032	3.5 (22)	63.1 (58)	1,811	17.8 (32)	51.1 (18)	307	44.0 (11)	519	30.8 (12)	3,542	8.1 (27)	3,543	11.8 (26)
Sanilac	97	*	*	39	*	*	49	*	43	*	518	7.3 (16)	518	9.8 (7)
Schoolcraf	105	0.0 (1)	63.8 (64)	77	*	*	3	*	8	*	114	8.8 (39)	114	16.7 (68)
Shiawassee	999	4.3 (42)	63.0 (57)	825	18.8 (44)	50.2 (12)	77	*	95	*	973	8.4 (32)	975	11.6 (24)
St Clair	1,934	4.8 (54)	59.2 (24)	1,612	16.7 (21)	55.5 (58)	155	39.4 (6)	150	38.7 (23)	1,844	7.9 (22)	1,847	14.7 (52)
St Joseph	1,057	5.2 (65)	60.7 (33)	385	21.8 (57)	53.2 (41)	85	*	97	*	1,116	9.3 (42)	1,116	10.5 (14)
Tuscola	631	4.0 (32)	62.4 (53)	478	19.2 (50)	54.4 (49)	61	*	72	*	778	10.7 (66)	779	14.0 (48)
Van Buren	1,134	4.3 (42)	65.2 (70)	438	37.2 (63)	36.5 (1)	123	31.7 (2)	141	19.9 (5)	1,226	11.5 (69)	1,226	10.9 (16)
Washtenaw	2,629	4.0 (32)	60.5 (30)	1,706	19.0 (47)	49.5 (8)	286	45.5 (14)	400	33.8 (18)	2,876	8.9 (40)	2,878	13.7 (47)
Wayne	29,393	3.8 (28)	61.8 (50)	17,308	17.8 (32)	53.3 (43)	3,559	53.1 (20)	3,048	38.4 (22)	37,886	7.3 (16)	37,898	11.5 (21)
Wexford	643	5.4 (67)	57.2 (13)	411	19.7 (52)	50.1 (11)	54	*	56	*	696	9.5 (50)	696	12.8 (36)
Michigan	116,028	4.0	61.0	70,517	18.2	52.4	12,545	43.2	14,331	30.2	138,600	8.2	138,713	12.6

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

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

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

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

WIC PNSS & PedNSS

Table 6B

2019 - 2021 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	99	*	*	108	23.1 (77)	99	*	77	*
Alger	80	*	*	91	*	83	*	73	*
Allegan	1,224	92.2 (4)	3.7 (8)	1,357	33.5 (45)	1,180	22.9 (50)	1,009	90.7 (33)
Alpena	404	82.9 (49)	12.1 (55)	443	39.7 (13)	417	23.0 (49)	363	93.7 (11)
Antrim	235	85.1 (37)	6.0 (27)	243	30.5 (59)	224	26.8 (29)	191	85.9 (65)
Arenac	305	86.2 (30)	7.5 (38)	317	35.3 (33)	291	25.8 (36)	248	84.7 (71)
Baraga	120	91.7 (7)	3.3 (6)	127	34.6 (39)	120	30.0 (14)	99	*
Barry	559	90.0 (16)	5.5 (21)	614	30.0 (60)	571	28.4 (22)	450	96.7 (3)
Bay	1,432	75.6 (69)	17.5 (70)	1,548	39.6 (15)	1,451	18.1 (67)	1,255	89.3 (45)
Benzie	226	82.7 (52)	12.8 (58)	239	33.5 (45)	218	32.1 (12)	188	88.8 (50)
Berrien	2,223	74.0 (71)	11.2 (50)	2,538	29.9 (62)	2,283	18.4 (65)	1,872	89.9 (42)
Branch	819	80.7 (57)	10.7 (47)	989	32.2 (53)	857	27.5 (24)	748	86.1 (64)
Calhoun	2,483	91.9 (6)	4.9 (17)	2,746	33.6 (44)	2,199	23.8 (45)	2,056	86.3 (63)
Cass	812	86.0 (32)	8.0 (40)	878	42.6 (6)	764	25.1 (41)	695	79.3 (74)
Charlevoix	306	87.9 (22)	5.9 (25)	316	32.6 (50)	295	29.2 (16)	249	85.9 (65)
Cheboygan	351	75.8 (68)	15.4 (66)	374	35.8 (31)	348	25.9 (34)	304	91.8 (24)
Chippewa	525	91.2 (9)	5.9 (25)	574	41.5 (8)	516	39.5 (5)	467	86.5 (61)
Clare	532	79.7 (61)	12.8 (58)	569	44.3 (3)	494	26.1 (32)	476	88.0 (53)
Clinton	367	88.0 (21)	5.7 (23)	399	31.1 (57)	309	33.3 (9)	296	92.2 (21)
Crawford	239	89.5 (17)	4.6 (16)	268	36.9 (26)	250	28.8 (19)	214	90.2 (38)
Delta	561	92.9 (2)	1.4 (1)	616	36.4 (29)	570	26.0 (33)	489	94.3 (8)

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

(2) Excludes records with unknown data or errors.

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

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

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

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

WIC PNSS & PedNSS

Table 6B

2019 - 2021 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	361	90.3 (15)	6.6 (31)	397	34.8 (37)	372	32.8 (11)	316	93.4 (14)
Eaton	657	86.6 (28)	4.0 (9)	721	27.6 (68)	656	28.7 (20)	516	92.6 (19)
Emmet	407	88.5 (20)	5.7 (23)	429	29.6 (63)	406	34.0 (7)	329	90.9 (32)
Genesee	6,993	86.6 (28)	4.2 (11)	7,659	25.6 (74)	5,884	8.9 (74)	5,570	88.9 (49)
Gladwin	369	71.0 (73)	22.0 (75)	390	41.0 (9)	369	30.4 (13)	314	87.9 (54)
Gogebic	154	91.6 (8)	2.6 (3)	172	32.0 (54)	154	29.2 (16)	124	98.4 (1)
Gr Travers	1,070	80.0 (60)	13.6 (62)	1,149	29.2 (64)	1,052	25.7 (39)	818	89.2 (46)
Gratiot	569	82.6 (53)	10.9 (49)	612	37.1 (24)	516	26.9 (28)	478	94.8 (6)
Hillsdale	604	83.9 (43)	9.1 (42)	664	32.5 (51)	586	23.5 (47)	505	90.1 (39)
Houghton	490	81.2 (56)	12.2 (56)	550	34.5 (40)	505	38.0 (6)	434	94.2 (9)
Huron	396	82.3 (55)	7.8 (39)	415	28.0 (67)	361	33.2 (10)	294	90.1 (39)
Ingham	4,827	87.3 (25)	6.0 (27)	5,252	28.6 (66)	4,688	8.6 (75)	3,898	90.0 (41)
Ionia	865	92.5 (3)	4.0 (9)	943	31.3 (56)	856	20.4 (62)	682	93.7 (11)
Iosco	402	83.3 (45)	9.5 (43)	429	35.0 (35)	406	22.4 (52)	357	89.9 (42)
Iron	149	83.2 (47)	13.4 (60)	168	40.5 (11)	143	55.2 (2)	136	89.0 (48)
Isabella	961	84.5 (38)	9.8 (45)	1,039	35.2 (34)	945	29.5 (15)	816	91.8 (24)
Jackson	2,672	83.1 (48)	10.2 (46)	2,896	38.7 (17)	2,608	20.5 (60)	2,304	87.5 (57)
Kalamazoo	3,501	85.4 (35)	7.3 (36)	3,933	36.0 (30)	3,579	17.5 (69)	3,030	85.9 (65)
Kalkaska	271	80.4 (58)	13.7 (63)	283	37.5 (22)	251	25.9 (34)	216	87.0 (59)
Kent	9,012	84.5 (38)	5.6 (22)	9,919	23.2 (76)	8,366	20.9 (57)	7,313	91.0 (31)
Lake	153	68.0 (75)	17.0 (69)	161	42.9 (5)	151	20.5 (60)	134	82.8 (72)

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

(2) Excludes records with unknown data or errors.

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

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

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

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

WIC PNSS & PedNSS

Table 6B

2019 - 2021 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	1,019	82.9 (49)	10.8 (48)	1,094	32.9 (49)	1,010	21.5 (54)	824	92.0 (23)
Leelanau	98	*	*	109	39.4 (16)	89	*	81	*
Lenawee	1,102	92.0 (5)	2.7 (4)	1,245	27.1 (70)	1,120	21.4 (55)	932	91.1 (30)
Livingston	915	86.1 (31)	7.4 (37)	998	25.9 (72)	828	40.2 (4)	694	92.9 (18)
Luce	108	76.9 (65)	18.5 (72)	123	52.0 (1)	99	*	105	93.3 (15)
Mackinac	88	*	*	96	*	84	*	69	*
Macomb	9,042	90.7 (12)	4.4 (13)	9,659	25.1 (75)	6,875	13.8 (72)	6,939	93.7 (11)
Manistee	284	84.2 (40)	13.4 (60)	294	34.7 (38)	268	81.3 (1)	229	91.3 (28)
Marquette	636	87.6 (23)	7.2 (35)	715	35.5 (32)	541	33.8 (8)	581	90.4 (37)
Mason	358	79.6 (63)	13.7 (63)	394	36.5 (28)	355	25.4 (40)	313	90.7 (33)
Mecosta	678	89.5 (17)	6.8 (33)	726	38.3 (19)	612	14.2 (71)	574	90.6 (35)
Menominee	221	86.9 (26)	9.5 (43)	266	32.3 (52)	213	25.8 (36)	190	94.7 (7)
Midland	887	90.6 (14)	4.2 (11)	949	26.0 (71)	877	28.7 (20)	687	95.1 (4)
Missaukee	186	82.8 (51)	11.8 (53)	205	38.5 (18)	197	28.9 (18)	167	89.2 (46)
Monroe	1,773	85.8 (34)	6.2 (30)	1,941	28.8 (65)	1,784	23.9 (43)	1,431	90.5 (36)
Montcalm	932	82.5 (54)	11.6 (52)	1,004	33.7 (42)	871	26.2 (31)	782	95.0 (5)
Montmorenc	136	85.3 (36)	1.5 (2)	147	27.2 (69)	132	24.2 (42)	108	97.2 (2)
Muskegon	3,328	86.9 (26)	6.0 (27)	3,625	37.6 (21)	2,950	20.8 (58)	2,799	86.4 (62)
Newaygo	964	77.2 (64)	14.9 (65)	1,053	39.7 (13)	748	23.9 (43)	846	91.3 (28)
Oakland	9,455	88.8 (19)	5.2 (19)	10,473	25.8 (73)	7,655	19.4 (64)	7,564	89.8 (44)
Oceana	428	68.5 (74)	23.8 (76)	483	35.0 (35)	442	25.8 (36)	372	82.0 (73)

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

(2) Excludes records with unknown data or errors.

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

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

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

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

WIC PNSS & PedNSS

Table 6B

2019 - 2021 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	355	80.3 (59)	11.5 (51)	391	33.5 (45)	357	18.2 (66)	304	92.1 (22)
Ontonagon	48	*	*	54	*	53	*	45	*
Osceola	419	76.6 (66)	16.7 (68)	446	43.3 (4)	415	21.2 (56)	355	85.1 (70)
Oscoda	106	84.0 (41)	8.5 (41)	117	41.9 (7)	105	23.8 (45)	95	*
Otsego	430	93.3 (1)	2.8 (5)	451	33.7 (42)	404	27.5 (24)	345	92.5 (20)
Ottawa	2,904	91.0 (10)	4.4 (13)	3,193	30.8 (58)	2,734	27.5 (24)	2,272	87.8 (55)
Presque Is	92	*	*	98	*	90	*	76	*
Roscommon	282	87.6 (23)	5.0 (18)	312	41.0 (9)	281	26.3 (30)	256	91.4 (27)
Saginaw	3,500	83.6 (44)	6.6 (31)	3,788	33.8 (41)	3,417	17.6 (68)	2,979	87.5 (57)
Sanilac	514	90.9 (11)	5.3 (20)	583	37.0 (25)	544	43.9 (3)	476	93.1 (17)
Schoolcraf	114	83.3 (45)	7.0 (34)	122	48.4 (2)	116	22.4 (52)	108	91.7 (26)
Shiawassee	969	84.0 (41)	11.8 (53)	1,069	32.0 (54)	671	23.5 (47)	797	85.9 (65)
St Clair	1,837	71.5 (72)	21.2 (73)	2,019	40.3 (12)	1,770	22.9 (50)	1,638	85.8 (69)
St Joseph	1,069	65.8 (76)	21.6 (74)	1,244	36.9 (26)	1,152	20.2 (63)	988	88.7 (51)
Tuscola	782	79.7 (61)	12.7 (57)	817	33.5 (45)	744	27.7 (23)	607	93.9 (10)
Van Buren	1,211	76.2 (67)	17.5 (70)	1,347	37.7 (20)	1,088	11.3 (73)	1,066	87.8 (55)
Washtenaw	2,861	90.7 (12)	4.5 (15)	3,139	30.0 (60)	2,854	14.8 (70)	2,366	93.3 (15)
Wayne	37,548	86.0 (32)	3.6 (7)	40,413	22.4 (78)	28,457	20.7 (59)	28,350	88.3 (52)
Wexford	686	74.6 (70)	16.5 (67)	740	37.3 (23)	663	27.1 (27)	578	87.0 (59)
Michigan	137,201	85.7	6.4	149,581	28.5	120,125	20.7	110,438	89.4

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

(2) Excludes records with unknown data or errors.

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

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

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

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

WIC PNSS & PedNSS

Table 7B

2019 - 2021 Pregnancy Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Smoking Indicators by County

Combined 3 Years

Comparison of Smoking Indicators ^(2,3)										
County	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes ⁽⁴⁾		Smoking in Household			
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
	Number	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Alcona	99	*	99	*	23	*	77	*	99	*
Alger	83	*	81	*	28	*	73	*	81	*
Allegan	1,225	28.2 (18)	1,231	15.5 (20)	272	40.1 (14)	1,010	5.9 (12)	1,230	1.7 (20)
Alpena	420	44.5 (69)	409	28.1 (66)	146	28.8 (44)	363	12.1 (43)	408	2.2 (30)
Antrim	224	38.4 (55)	234	23.1 (51)	67	*	191	20.9 (72)	234	6.4 (74)
Arenac	292	41.8 (63)	309	29.1 (69)	105	33.3 (29)	248	20.6 (71)	309	9.7 (76)
Baraga	120	45.8 (74)	121	32.2 (74)	39	*	99	*	121	3.3 (50)
Barry	569	36.2 (48)	568	18.1 (28)	157	49.0 (4)	449	8.7 (24)	568	3.0 (42)
Bay	1,456	35.6 (44)	1,435	21.3 (41)	422	28.9 (43)	1,254	12.2 (44)	1,437	3.8 (55)
Benzie	228	40.8 (59)	224	21.9 (43)	75	*	188	12.8 (49)	224	4.5 (67)
Berrien	2,286	29.8 (22)	2,285	14.5 (15)	481	42.8 (11)	1,872	12.3 (46)	2,287	3.7 (54)
Branch	910	27.3 (17)	915	15.3 (19)	181	33.7 (27)	744	10.3 (36)	915	1.3 (9)
Calhoun	2,490	26.4 (14)	2,509	14.7 (16)	509	31.2 (36)	2,068	6.1 (14)	2,520	1.4 (14)
Cass	808	22.2 (9)	824	10.7 (8)	155	32.3 (34)	695	5.9 (12)	825	0.7 (1)
Charlevoix	296	32.8 (30)	302	18.9 (30)	81	*	248	8.1 (22)	300	5.0 (70)
Cheboygan	349	41.8 (63)	344	22.4 (48)	116	38.8 (18)	304	10.9 (39)	345	3.8 (55)
Chippewa	535	35.1 (40)	525	25.9 (61)	158	17.1 (54)	463	11.9 (42)	527	4.4 (65)
Clare	526	44.5 (69)	531	28.6 (67)	192	26.6 (48)	476	16.0 (62)	529	2.5 (36)
Clinton	360	30.0 (23)	372	15.6 (21)	91	*	296	4.7 (4)	374	1.6 (18)

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

(2) Excludes records with unknown data or errors.

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

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

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

WIC PNSS & PedNSS

Table 7B

2019 - 2021 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)	
Crawford	253	35.2 (43)	243	25.5 (59)	69	*	213	9.9 (33)	242	1.2 (7)
Delta	570	42.8 (67)	562	24.4 (56)	189	37.6 (21)	489	12.3 (46)	563	3.0 (42)
Dickinson	373	31.9 (28)	359	21.2 (40)	97	*	316	5.4 (8)	357	1.1 (3)
Eaton	662	38.2 (54)	660	19.4 (34)	183	41.5 (12)	516	6.2 (15)	661	2.6 (37)
Emmet	410	36.1 (47)	406	19.7 (35)	114	34.2 (26)	329	8.8 (26)	405	3.0 (42)
Genesee	6,870	23.5 (12)	7,073	13.8 (13)	1,208	37.3 (22)	5,561	8.7 (24)	7,058	2.1 (29)
Gladwin	373	35.1 (40)	368	22.0 (44)	97	*	314	14.6 (57)	368	3.3 (50)
Gogebic	157	45.2 (72)	157	29.9 (73)	52	*	124	21.0 (73)	158	3.8 (55)
Gr Travers	1,052	35.1 (40)	1,073	16.8 (24)	285	44.2 (9)	818	7.6 (19)	1,073	2.3 (31)
Gratiot	564	33.7 (35)	577	20.5 (38)	152	32.9 (32)	479	10.6 (37)	578	1.4 (14)
Hillsdale	588	39.6 (58)	609	27.9 (65)	189	29.1 (42)	505	14.3 (55)	608	2.3 (31)
Houghton	511	34.2 (37)	490	23.1 (51)	135	31.1 (38)	434	7.4 (18)	491	1.8 (23)
Huron	380	37.9 (53)	397	22.2 (46)	115	30.4 (39)	294	14.6 (57)	397	4.0 (61)
Ingham	4,811	17.1 (5)	4,963	9.4 (7)	643	39.7 (15)	3,882	5.0 (5)	4,950	2.4 (34)
Ionia	854	32.1 (29)	869	20.3 (36)	217	28.1 (45)	682	7.8 (21)	873	1.9 (25)
Iosco	407	41.0 (60)	403	29.5 (71)	129	20.2 (53)	356	16.0 (62)	403	3.0 (42)
Iron	148	49.3 (75)	144	38.9 (76)	60	*	135	16.3 (64)	143	4.9 (69)
Isabella	979	30.9 (26)	959	19.2 (33)	241	33.2 (30)	815	10.1 (35)	958	2.0 (27)
Jackson	2,669	34.2 (37)	2,696	22.3 (47)	755	30.2 (40)	2,302	9.2 (30)	2,696	2.0 (27)

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

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

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

WIC PNSS & PedNSS

Table 7B

2019 - 2021 Pregnancy Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Smoking Indicators by County

Combined 3 Years

Comparison of Smoking Indicators ^(2,3)										
County	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes ⁽⁴⁾		Smoking in Household			
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
	Number	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Kalamazoo	3,609	22.8 (11)	3,520	12.7 (10)	631	33.6 (28)	3,023	6.3 (16)	3,514	1.3 (9)
Kalkaska	254	42.5 (66)	272	24.6 (57)	85	*	215	18.1 (67)	272	4.8 (68)
Kent	9,021	15.2 (3)	9,174	7.4 (4)	1,011	44.0 (10)	7,166	4.1 (2)	9,124	1.1 (3)
Lake	149	57.0 (76)	152	36.8 (75)	73	*	134	23.1 (74)	152	7.9 (75)
Lapeer	1,014	28.5 (19)	1,018	14.8 (17)	200	44.5 (8)	824	8.5 (23)	1,018	1.7 (20)
Leelanau	98	*	99	*	23	*	82	*	99	*
Lenawee	1,127	30.6 (25)	1,123	13.9 (14)	245	45.3 (6)	928	9.4 (31)	1,124	3.9 (59)
Livingston	926	29.0 (20)	914	17.4 (25)	191	36.6 (23)	696	5.0 (5)	914	1.3 (9)
Luce	115	45.2 (72)	108	24.1 (54)	41	*	105	14.3 (55)	106	0.9 (2)
Mackinac	87	*	88	*	17	*	68	*	88	*
Macomb	8,899	15.3 (4)	9,090	7.1 (3)	1,000	45.7 (5)	6,931	5.8 (11)	9,090	1.3 (9)
Manistee	274	35.0 (39)	281	24.2 (55)	84	*	229	12.2 (44)	282	4.3 (64)
Marquette	674	41.4 (61)	659	27.0 (62)	238	32.8 (33)	579	8.8 (26)	657	1.7 (20)
Mason	362	36.2 (48)	363	21.5 (42)	109	31.2 (36)	313	13.4 (52)	362	3.6 (52)
Mecosta	657	33.2 (33)	680	22.5 (49)	182	25.3 (50)	575	13.4 (52)	680	2.4 (34)
Menominee	236	41.9 (65)	229	29.7 (72)	74	*	190	14.7 (59)	228	2.6 (37)
Midland	879	27.2 (16)	888	16.4 (23)	186	36.6 (23)	687	5.7 (10)	883	1.9 (25)
Missaukee	199	31.2 (27)	185	18.9 (30)	45	*	167	10.8 (38)	184	1.6 (18)
Monroe	1,790	33.1 (32)	1,783	18.0 (27)	448	39.1 (16)	1,431	10.9 (39)	1,778	4.0 (61)

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WIC PNSS & PedNSS

Table 7B

2019 - 2021 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	929	38.5 (56)	943	23.2 (53)	277	31.8 (35)	782	14.2 (54)	945	3.6 (52)
Montmorenc	132	41.7 (62)	133	28.6 (67)	40	*	108	18.5 (68)	135	5.2 (71)
Muskegon	3,278	29.5 (21)	3,396	18.6 (29)	780	29.7 (41)	2,804	9.9 (33)	3,397	3.1 (47)
Newaygo	986	26.4 (14)	979	15.7 (22)	217	35.5 (25)	847	7.6 (19)	981	1.3 (9)
Oakland	9,636	11.2 (1)	9,562	5.3 (1)	805	41.5 (12)	7,552	5.0 (5)	9,554	1.2 (7)
Oceana	440	24.1 (13)	439	13.0 (12)	77	*	371	6.7 (17)	439	2.3 (31)
Ogemaw	357	37.3 (51)	358	27.1 (64)	100	23.0 (51)	304	19.1 (69)	357	6.2 (73)
Ontonagon	53	*	48	*	14	*	45	*	48	*
Osceola	417	36.5 (50)	421	22.8 (50)	114	28.1 (45)	355	15.8 (61)	421	3.8 (55)
Oscoda	106	35.8 (45)	106	25.5 (59)	29	*	95	*	106	2.8 (40)
Otsego	407	37.8 (52)	430	27.0 (62)	121	26.4 (49)	345	19.7 (70)	430	3.0 (42)
Ottawa	2,917	18.8 (6)	2,938	9.1 (6)	413	44.6 (7)	2,257	3.7 (1)	2,930	1.4 (14)
Presque Is	91	*	92	*	18	*	76	*	92	*
Roscommon	289	43.3 (68)	288	29.2 (70)	97	*	256	17.2 (66)	288	3.1 (47)
Saginaw	3,427	32.8 (30)	3,549	12.8 (11)	933	52.1 (2)	2,976	11.2 (41)	3,548	2.8 (40)
Sanilac	550	22.2 (9)	517	15.1 (18)	90	*	474	8.9 (28)	517	1.5 (17)
Schoolcraf	116	44.8 (71)	114	25.4 (58)	44	*	108	16.7 (65)	114	4.4 (65)
Shiawassee	998	33.7 (35)	978	19.1 (32)	267	33.0 (31)	790	12.3 (46)	971	4.1 (63)
St Clair	1,872	39.5 (57)	1,851	20.3 (36)	580	39.0 (17)	1,636	15.3 (60)	1,846	5.2 (71)

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

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

WIC PNSS & PedNSS

Table 7B

2019 - 2021 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	1,147	33.6 (34)	1,116	17.9 (26)	289	38.8 (18)	986	9.8 (32)	1,111	3.1 (47)
Tuscola	746	35.9 (46)	783	20.7 (39)	215	38.1 (20)	607	13.0 (50)	783	1.8 (23)
Van Buren	1,225	21.1 (8)	1,225	11.3 (9)	203	27.6 (47)	1,060	4.2 (3)	1,228	1.1 (3)
Washtenaw	2,886	19.4 (7)	2,874	8.5 (5)	427	51.1 (3)	2,361	5.6 (9)	2,875	1.1 (3)
Wayne	36,046	14.0 (2)	37,941	5.5 (2)	3,743	54.5 (1)	28,268	9.0 (29)	37,916	2.6 (37)
Wexford	673	30.2 (24)	697	22.1 (45)	160	20.6 (52)	577	13.3 (51)	696	3.9 (59)
Michigan	136,101	22.1	138,780	11.7	23,164	39.8	110,111	8.4	138,645	2.3

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WIC PNSS & PedNSS

Table 8B

2019 - 2021 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	78	*	*	95	*	74	*	78	*
Alger	68	*	*	79	*	61	*	68	*
Allegan	982	8.1 (36)	8.4 (46)	1,188	13.2 (65)	847	2.2 (6)	996	75.8 (41)
Alpena	338	8.9 (43)	9.5 (59)	389	10.3 (24)	298	3.7 (35)	337	74.5 (48)
Antrim	181	6.6 (7)	11.0 (70)	221	10.9 (32)	158	2.5 (11)	186	82.3 (18)
Arenac	250	10.8 (61)	7.2 (24)	300	11.3 (43)	220	5.0 (62)	251	75.7 (43)
Baraga	104	7.7 (24)	8.7 (48)	116	8.6 (4)	92	*	104	75.0 (45)
Barry	456	9.4 (49)	7.9 (29)	555	11.2 (38)	401	4.2 (44)	461	82.2 (19)
Bay	1,151	9.6 (50)	7.9 (29)	1,403	11.0 (34)	1,020	4.2 (44)	1,157	65.9 (66)
Benzie	187	5.9 (2)	9.1 (55)	216	11.1 (36)	168	3.0 (19)	187	84.0 (14)
Berrien	1,867	7.9 (32)	5.1 (3)	2,214	9.9 (13)	1,656	4.5 (48)	1,871	71.4 (57)
Branch	757	8.2 (38)	7.9 (29)	894	10.0 (17)	669	3.4 (29)	764	75.9 (40)
Calhoun	2,015	9.6 (50)	7.1 (21)	2,448	9.9 (13)	1,788	4.9 (59)	2,028	73.3 (52)
Cass	668	7.3 (19)	8.2 (41)	793	11.0 (34)	588	3.2 (26)	669	75.5 (44)
Charlevoix	237	11.4 (66)	7.6 (26)	287	12.9 (61)	205	4.9 (59)	249	85.5 (7)
Cheboygan	271	7.7 (24)	7.0 (19)	329	10.9 (32)	235	3.4 (29)	271	77.9 (35)
Chippewa	412	9.0 (45)	11.9 (74)	493	10.8 (29)	353	3.4 (29)	412	65.8 (67)
Clare	448	6.3 (3)	5.8 (9)	519	10.0 (17)	405	4.0 (39)	447	74.5 (48)
Clinton	306	11.8 (68)	11.4 (73)	363	13.8 (70)	264	4.5 (48)	307	85.0 (8)

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

(4) <2500 g.

(5) >4000 g.

(6) <37 weeks gestation.

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

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

WIC PNSS & PedNSS

Table 8B

2019 - 2021 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	167	7.8 (27)	10.2 (63)	233	11.6 (48)	150	4.0 (39)	168	84.5 (10)
Delta	445	7.4 (20)	8.1 (37)	548	9.5 (7)	396	3.0 (19)	446	81.4 (21)
Dickinson	284	8.1 (36)	8.1 (37)	354	12.1 (52)	252	4.0 (39)	285	75.8 (41)
Eaton	525	9.7 (53)	8.2 (41)	652	11.8 (50)	462	4.1 (43)	538	84.4 (11)
Emmet	330	7.0 (13)	7.6 (26)	393	10.7 (28)	290	1.7 (2)	335	86.9 (1)
Genesee	5,698	11.6 (67)	5.1 (3)	6,933	13.5 (66)	4,883	5.5 (65)	5,707	56.3 (72)
Gladwin	291	6.9 (10)	8.9 (53)	347	12.4 (56)	256	2.0 (5)	292	84.2 (12)
Gogebic	127	6.3 (3)	10.2 (63)	152	9.9 (13)	112	1.8 (4)	128	78.9 (31)
Gr Travers	879	7.8 (27)	11.0 (70)	1,033	9.6 (9)	788	2.9 (16)	882	84.1 (13)
Gratiot	458	6.3 (3)	9.8 (62)	551	9.6 (9)	406	1.7 (2)	459	82.8 (17)
Hillsdale	500	7.2 (15)	8.8 (50)	594	10.6 (25)	451	3.1 (24)	501	80.0 (26)
Houghton	389	7.2 (15)	10.8 (69)	477	7.3 (3)	358	4.7 (54)	389	85.6 (5)
Huron	330	9.1 (46)	8.8 (50)	387	10.6 (25)	295	3.4 (29)	330	76.4 (38)
Ingham	3,999	10.4 (57)	6.3 (12)	4,825	12.8 (60)	3,491	4.4 (47)	4,027	76.9 (37)
Ionia	729	8.0 (34)	9.7 (60)	856	11.1 (36)	646	3.3 (28)	728	83.5 (16)
Iosco	305	8.9 (43)	8.2 (41)	377	10.1 (19)	274	6.2 (68)	306	63.1 (70)
Iron	116	7.8 (27)	11.2 (72)	137	10.2 (22)	103	2.9 (16)	116	78.4 (33)
Isabella	761	9.3 (48)	9.7 (60)	939	11.2 (38)	674	4.7 (54)	762	74.3 (50)
Jackson	2,199	10.0 (55)	7.9 (29)	2,611	11.4 (46)	1,948	4.6 (51)	2,203	71.9 (55)

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WIC PNSS & PedNSS

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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	2,804	10.8 (61)	6.9 (16)	3,425	12.1 (52)	2,450	4.0 (39)	2,839	69.2 (62)
Kalkaska	229	10.5 (59)	9.2 (56)	260	10.8 (29)	201	5.5 (65)	230	86.5 (2)
Kent	7,256	12.6 (72)	5.8 (9)	8,957	15.1 (73)	6,124	4.9 (59)	7,311	74.8 (46)
Lake	118	11.0 (64)	10.2 (63)	146	17.8 (76)	96	*	118	74.6 (47)
Lapeer	827	8.5 (41)	8.1 (37)	980	12.0 (51)	716	3.8 (36)	829	79.7 (27)
Leelanau	79	*	*	96	*	69	*	79	*
Lenawee	919	6.5 (6)	8.1 (37)	1,111	9.5 (7)	827	2.4 (9)	918	69.8 (61)
Livingston	739	9.7 (53)	6.9 (16)	895	12.5 (57)	643	3.0 (19)	738	83.6 (15)
Luce	88	*	*	103	13.6 (68)	75	*	88	*
Mackinac	78	*	*	87	*	73	*	78	*
Macomb	7,289	10.8 (61)	5.4 (7)	8,826	12.9 (61)	6,270	4.5 (48)	7,338	62.5 (71)
Manistee	224	13.8 (74)	7.1 (21)	260	15.8 (75)	185	4.3 (46)	226	79.2 (30)
Marquette	540	7.2 (15)	10.4 (66)	637	9.3 (5)	485	3.9 (38)	542	85.6 (5)
Mason	302	10.3 (56)	7.9 (29)	348	12.6 (58)	261	4.6 (51)	302	73.2 (54)
Mecosta	545	7.2 (15)	9.0 (54)	664	10.1 (19)	487	2.5 (11)	547	73.3 (52)
Menominee	190	7.9 (32)	7.9 (29)	222	10.8 (29)	168	4.8 (58)	190	63.2 (69)
Midland	719	6.8 (9)	10.6 (68)	874	9.6 (9)	645	2.2 (6)	719	79.6 (28)
Missaukee	115	7.0 (13)	8.7 (48)	170	7.1 (2)	104	2.9 (16)	115	86.1 (3)
Monroe	1,409	9.1 (46)	6.7 (15)	1,732	11.2 (38)	1,242	3.5 (33)	1,411	66.6 (65)

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WIC PNSS & PedNSS

Table 8B

2019 - 2021 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	750	8.8 (42)	7.1 (21)	913	13.0 (63)	650	2.8 (14)	751	86.0 (4)
Montmorenc	106	11.3 (65)	10.4 (66)	127	9.4 (6)	92	*	106	82.1 (20)
Muskegon	2,819	10.4 (57)	5.6 (8)	3,277	13.1 (64)	2,411	4.7 (54)	2,828	67.1 (63)
Newaygo	782	7.4 (20)	7.3 (25)	938	11.7 (49)	688	3.1 (24)	785	80.3 (24)
Oakland	7,540	12.0 (70)	6.0 (11)	9,354	13.5 (66)	6,494	4.7 (54)	7,681	71.2 (59)
Oceana	357	7.8 (27)	7.0 (19)	415	11.3 (43)	313	3.8 (36)	360	77.8 (36)
Ogemaw	280	7.5 (22)	7.9 (29)	342	6.1 (1)	259	5.8 (67)	280	70.4 (60)
Ontonagon	43	*	*	47	*	36	*	43	*
Osceola	336	10.7 (60)	6.3 (12)	404	10.6 (25)	298	7.0 (70)	339	78.2 (34)
Oscoda	83	*	*	103	9.7 (12)	76	*	83	*
Otsego	345	9.6 (50)	9.3 (57)	420	10.2 (22)	306	4.6 (51)	376	73.9 (51)
Ottawa	2,125	8.0 (34)	8.3 (44)	2,850	12.1 (52)	1,860	3.0 (19)	2,360	80.9 (23)
Presque Is	77	*	*	89	*	66	*	77	*
Roscommon	229	3.9 (1)	5.2 (5)	272	9.9 (13)	200	1.0 (1)	229	76.4 (38)
Saginaw	2,906	12.4 (71)	5.0 (2)	3,461	13.6 (68)	2,515	5.0 (62)	2,915	63.8 (68)
Sanilac	422	6.9 (10)	6.4 (14)	511	11.2 (38)	375	2.4 (9)	426	52.8 (74)
Schoolcraf	101	6.9 (10)	6.9 (16)	109	15.6 (74)	84	*	101	80.2 (25)
Shiawassee	783	7.5 (22)	7.7 (28)	953	11.3 (43)	693	3.0 (19)	784	71.4 (57)
St Clair	1,536	8.3 (39)	7.9 (29)	1,800	11.4 (46)	1,351	3.6 (34)	1,539	66.7 (64)

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

(4) <2500 g.

(5) >4000 g.

(6) <37 weeks gestation.

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

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

WIC PNSS & PedNSS

Table 8B

2019 - 2021 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)
St Joseph	923	6.6 (7)	8.8 (50)	1,076	10.1 (19)	820	2.3 (8)	930	84.8 (9)
Tuscola	642	8.4 (40)	8.3 (44)	753	12.7 (59)	556	3.2 (26)	641	78.9 (31)
Van Buren	990	7.7 (24)	8.5 (47)	1,186	11.2 (38)	866	2.8 (14)	1,010	71.5 (56)
Washtenaw	2,297	11.8 (68)	5.2 (5)	2,782	14.0 (72)	1,957	5.0 (62)	2,307	79.5 (29)
Wayne	29,769	12.9 (73)	4.7 (1)	36,878	13.8 (70)	25,374	6.2 (68)	30,401	54.7 (73)
Wexford	567	7.8 (27)	9.3 (57)	659	12.1 (52)	487	2.5 (11)	568	81.2 (22)
Michigan	110,594	10.8	6.3	134,856	12.7	95,690	4.7	111,991	55.1

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

(2) Excludes records with unknown data or errors.

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

(4) <2500 g.

(5) >4000 g.

(6) <37 weeks gestation.

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

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