

WIC PNSS & PedNSS

Run Date: 6/28/2024

Table 3B

2023 Pregnancy Nutrition Surveillance (1)

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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	52	*	*	*	*	*	*	*
Alger	28	*	*	*	*	*	*	*
Allegan	417	74.8	1.9	17.3	0.2	1.2	4.1	0.5
Alpena	131	95.4	0.8	2.3	0.0	0.0	1.5	0.0
Antrim	70	*	*	*	*	*	*	*
Arenac	83	*	*	*	*	*	*	*
Baraga	43	*	*	*	*	*	*	*
Barry	216	89.4	0.5	6.0	0.5	1.9	1.9	0.0
Bay	437	78.5	3.2	9.6	0.0	0.7	7.6	0.5
Benzie	77	*	*	*	*	*	*	*
Berrien	693	47.3	34.2	10.2	0.6	2.3	4.2	1.2
Branch	340	74.4	7.6	16.2	0.3	0.0	1.5	0.0
Calhoun	834	59.2	18.1	10.1	0.4	4.8	6.8	0.6
Cass	258	57.8	7.8	22.9	0.4	0.8	7.0	3.5
Charlevoix	76	*	*	*	*	*	*	*
Cheboygan	92	*	*	*	*	*	*	*
Chippewa	161	60.9	1.2	3.1	16.8	1.9	16.1	0.0
Clare	162	90.7	0.6	4.9	0.6	0.6	2.5	0.0
Clinton	116	81.9	4.3	12.9	0.0	0.9	0.0	0.0
Crawford	74	*	*	*	*	*	*	*
Delta	183	82.5	0.0	3.8	2.7	0.0	10.9	0.0
Dickinson	114	91.2	0.0	2.6	0.0	0.0	5.3	0.9
Eaton	221	81.0	5.0	8.1	0.0	2.3	3.6	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.

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

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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 %
Emmet	100	82.0	0.0	6.0	1.0	2.0	9.0	0.0
Genesee	2,347	48.4	37.5	6.8	0.1	0.3	6.6	0.4
Gladwin	123	91.9	0.8	4.1	0.0	0.0	2.4	0.8
Gogebic	63	*	*	*	*	*	*	*
Gr Travers	353	78.8	1.4	10.5	2.3	1.7	5.4	0.0
Gratiot	192	84.9	0.0	12.0	0.0	0.0	3.1	0.0
Hillsdale	237	92.0	0.4	3.8	0.0	0.4	3.4	0.0
Houghton	166	88.6	1.8	0.6	1.2	3.6	4.2	0.0
Huron	148	91.2	0.7	5.4	0.0	0.0	0.7	2.0
Ingham	1,725	41.1	27.9	15.9	0.3	6.0	8.3	0.3
Ionia	271	88.2	0.4	8.9	0.0	0.4	2.2	0.0
Iosco	119	92.4	0.0	2.5	0.0	0.0	4.2	0.8
Iron	59	*	*	*	*	*	*	*
Isabella	345	78.6	4.1	6.7	2.6	0.3	7.5	0.3
Jackson	849	70.8	13.3	7.7	0.2	0.7	7.1	0.2
Kalamazoo	1,148	44.3	32.8	12.1	0.1	0.9	9.0	0.8
Kalkaska	83	*	*	*	*	*	*	*
Kent	3,186	31.4	27.2	31.7	0.2	4.3	5.0	0.3
Lake	58	*	*	*	*	*	*	*
Lapeer	356	85.4	0.3	10.1	0.0	0.3	3.4	0.6
Leelanau	26	*	*	*	*	*	*	*
Lenawee	391	74.2	2.6	18.4	0.0	0.5	3.8	0.5
Livingston	321	87.2	0.9	7.2	0.3	1.9	1.6	0.9

(1) Reporting period is January 1 through December 31

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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 %
Luce	40	*	*	*	*	*	*	*
Mackinac	36	*	*	*	*	*	*	*
Macomb	3,195	47.4	30.9	5.7	0.1	11.0	4.6	0.4
Manistee	97	*	*	*	*	*	*	*
Marquette	199	87.4	1.0	3.0	2.5	0.0	5.5	0.5
Mason	128	74.2	1.6	14.1	0.0	0.8	8.6	0.8
Mecosta	251	87.3	2.0	5.6	0.0	0.4	4.0	0.8
Menominee	86	*	*	*	*	*	*	*
Midland	305	87.5	2.3	6.6	0.0	1.3	2.3	0.0
Missaukee	78	*	*	*	*	*	*	*
Monroe	569	78.4	5.6	9.5	0.0	0.0	4.7	1.8
Montcalm	320	89.4	0.0	8.4	0.0	0.0	2.2	0.0
Montmorenc	37	*	*	*	*	*	*	*
Muskegon	1,073	55.1	26.7	10.2	0.5	0.9	6.3	0.3
Newaygo	339	71.7	0.9	23.3	0.3	0.6	2.7	0.6
Oakland	3,435	39.4	40.1	13.1	0.1	3.1	3.7	0.4
Oceana	164	60.4	1.2	36.0	0.0	0.0	2.4	0.0
Ogemaw	134	91.0	0.7	2.2	0.0	0.0	5.2	0.7
Ontonagon	21	*	*	*	*	*	*	*
Osceola	144	92.4	1.4	1.4	0.0	0.7	3.5	0.7
Oscoda	43	*	*	*	*	*	*	*
Otsego	131	86.3	1.5	5.3	0.8	1.5	4.6	0.0
Ottawa	984	52.0	4.4	36.0	0.1	3.5	3.4	0.7

(1) Reporting period is January 1 through December 31

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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 %
Presque Is	33	*	*	*	*	*	*	*
Roscommon	108	96.3	0.0	1.9	0.0	0.0	1.9	0.0
Saginaw	1,153	41.5	34.1	16.1	0.3	0.6	7.2	0.2
Sanilac	152	91.4	0.0	7.2	0.0	0.0	0.7	0.7
Schoolcraf	47	*	*	*	*	*	*	*
Shiawassee	348	91.7	0.3	4.0	0.0	0.0	3.2	0.9
St Clair	558	79.9	4.7	8.4	0.4	0.5	5.7	0.4
St Joseph	370	71.9	0.5	20.8	0.0	0.0	6.2	0.5
Tuscola	248	95.2	0.4	3.2	0.0	0.4	0.4	0.4
Van Buren	436	55.5	4.4	33.7	0.0	0.2	4.1	2.1
Washtenaw	1,047	37.1	33.5	17.5	0.1	4.2	7.2	0.5
Wayne	12,039	30.2	52.5	11.4	0.1	3.0	2.5	0.2
Wexford	219	92.2	0.5	5.5	0.0	0.5	1.4	0.0
Michigan	46,160	50.6	28.4	12.8	0.3	2.8	4.6	0.4
National (Prior Year)	56,992	49.9	25.9	14.8	1.9	2.9	4.3	0.3

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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	52	*	*	*	*	*	*	*
Alger	28	*	*	*	*	*	*	*
Allegan	417	0.0	1.7	6.2	57.8	32.1	0.7	1.4
Alpena	131	0.0	0.8	3.1	61.8	32.8	1.5	0.0
Antrim	70	*	*	*	*	*	*	*
Arenac	83	*	*	*	*	*	*	*
Baraga	43	*	*	*	*	*	*	*
Barry	216	0.0	2.3	7.4	61.6	25.5	1.4	1.9
Bay	437	0.0	2.7	9.2	58.4	27.9	0.9	0.9
Benzie	77	*	*	*	*	*	*	*
Berrien	693	0.3	2.2	8.1	61.3	23.8	2.3	2.0
Branch	340	0.0	2.1	5.6	62.4	24.4	4.1	1.5
Calhoun	834	0.0	1.3	6.6	59.7	26.9	2.5	3.0
Cass	258	0.0	1.6	6.6	60.5	25.2	3.1	3.1
Charlevoix	76	*	*	*	*	*	*	*
Cheboygan	92	*	*	*	*	*	*	*
Chippewa	161	0.0	1.2	3.1	64.6	27.3	0.6	3.1
Clare	162	0.0	1.2	6.8	61.7	26.5	1.2	2.5
Clinton	116	0.0	0.0	1.7	64.7	31.0	0.9	1.7
Crawford	74	*	*	*	*	*	*	*
Delta	183	0.0	1.1	4.9	62.3	28.4	2.7	0.5
Dickinson	114	0.0	0.0	4.4	60.5	34.2	0.9	0.0
Eaton	221	0.0	0.9	6.3	55.2	35.3	0.9	1.4
Emmet	100	0.0	0.0	11.0	55.0	33.0	1.0	0.0

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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 %
Genesee	2,347	0.0	1.8	6.6	60.8	28.5	1.5	0.8
Gladwin	123	0.0	1.6	3.3	61.8	28.5	0.8	4.1
Gogebic	63	*	*	*	*	*	*	*
Gr Travers	353	0.0	0.8	5.4	61.2	29.2	2.0	1.4
Gratiot	192	0.0	1.6	6.3	57.3	32.3	2.1	0.5
Hillsdale	237	0.4	1.7	6.3	69.6	17.3	2.1	2.5
Houghton	166	0.0	0.6	5.4	62.7	27.7	3.0	0.6
Huron	148	0.0	0.7	2.0	58.8	35.1	1.4	2.0
Ingham	1,725	0.1	1.9	4.6	56.4	32.1	2.8	2.1
Ionia	271	0.0	1.8	7.7	59.0	27.7	1.8	1.8
Iosco	119	0.0	0.0	7.6	61.3	26.1	4.2	0.8
Iron	59	*	*	*	*	*	*	*
Isabella	345	0.0	1.2	8.1	62.3	24.9	2.3	1.2
Jackson	849	0.0	2.4	6.4	60.0	26.0	0.8	4.5
Kalamazoo	1,148	0.1	2.1	6.1	59.7	27.6	2.1	2.4
Kalkaska	83	*	*	*	*	*	*	*
Kent	3,186	0.1	1.7	5.1	55.5	33.1	3.0	1.4
Lake	58	*	*	*	*	*	*	*
Lapeer	356	0.0	1.4	5.9	56.2	33.4	1.4	1.7
Leelanau	26	*	*	*	*	*	*	*
Lenawee	391	0.0	1.5	6.9	62.9	26.3	1.8	0.5
Livingston	321	0.0	1.2	4.7	55.5	35.8	2.5	0.3
Luce	40	*	*	*	*	*	*	*
Mackinac	36	*	*	*	*	*	*	*

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors

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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 %
Macomb	3,195	0.0	0.8	3.0	54.4	38.7	2.3	0.8
Manistee	97	*	*	*	*	*	*	*
Marquette	199	0.0	1.0	6.5	60.3	30.2	2.0	0.0
Mason	128	0.0	0.8	8.6	58.6	28.1	0.8	3.1
Mecosta	251	0.0	2.4	6.0	63.3	24.3	2.4	1.6
Menominee	86	*	*	*	*	*	*	*
Midland	305	0.0	0.3	5.6	60.3	32.1	1.0	0.7
Missaukee	78	*	*	*	*	*	*	*
Monroe	569	0.0	0.9	6.7	63.1	26.9	1.4	1.1
Montcalm	320	0.0	1.6	7.5	56.9	30.3	1.9	1.9
Montmorenc	37	*	*	*	*	*	*	*
Muskegon	1,073	0.3	2.1	5.2	62.1	25.6	1.7	3.0
Newaygo	339	0.3	0.9	5.6	64.0	23.6	3.2	2.4
Oakland	3,435	0.1	1.1	4.6	52.2	38.0	3.0	0.9
Oceana	164	0.0	0.6	6.7	53.0	34.1	4.9	0.6
Ogemaw	134	0.7	1.5	2.2	63.4	29.9	0.7	1.5
Ontonagon	21	*	*	*	*	*	*	*
Osceola	144	0.0	2.8	6.3	70.1	15.3	1.4	4.2
Oscoda	43	*	*	*	*	*	*	*
Otsego	131	0.0	1.5	9.9	59.5	24.4	3.1	1.5
Ottawa	984	0.1	1.3	5.4	55.4	35.0	2.1	0.7
Presque Is	33	*	*	*	*	*	*	*
Roscommon	108	0.0	0.9	6.5	58.3	32.4	0.0	1.9
Saginaw	1,153	0.2	1.6	5.2	57.9	30.4	2.3	2.3

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Michigan
Comparison of Age Distribution by County

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Comparison of Age Distribution (2)								
County	Number Included in Analysis	< 15 Years %	15 - 17 Years %	18 - 19 Years %	20 - 29 Years %	30 - 39 Years %	>= 40 Years %	Unknown %
Sanilac	152	0.0	1.3	7.9	63.8	22.4	2.6	2.0
Schoolcraf	47	*	*	*	*	*	*	*
Shiawassee	348	0.0	1.7	6.3	64.4	25.3	1.4	0.9
St Clair	558	0.0	2.0	5.2	61.5	28.1	1.4	1.8
St Joseph	370	0.0	2.7	5.4	61.1	25.4	1.4	4.1
Tuscola	248	0.0	1.2	6.0	67.7	21.0	1.2	2.8
Van Buren	436	0.2	1.6	5.3	58.7	27.5	3.7	3.0
Washtenaw	1,047	0.0	1.4	4.8	51.5	37.2	4.2	0.9
Wayne	12,039	0.0	1.5	4.9	53.5	35.9	3.1	1.0
Wexford	219	0.0	1.4	5.9	64.4	24.7	1.4	2.3
Michigan	46,161	0.1	1.5	5.3	56.9	32.3	2.5	1.4
National (Prior Year)	57,001	0.1	1.8	6.0	58.2	30.9	2.3	0.6

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WIC PNSS & PedNSS

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2023 Pregnancy Nutrition Surveillance (1)

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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	41	*	*	20	*	*	5	*	12	*	48	*	48	*
Alger	18	*	*	7	*	*	2	*	13	*	25	*	25	*
Allegan	300	3.0 (6)	64.3 (43)	169	20.7 (30)	53.3 (14)	55	*	120	25.8 (10)	390	11.5 (44)	390	10.3 (4)
Alpena	120	5.0 (33)	61.7 (25)	36	*	*	19	*	28	*	120	10.8 (40)	121	20.7 (50)
Antrim	50	*	*	7	*	*	12	*	16	*	66	*	66	*
Arenac	65	*	*	52	*	*	16	*	12	*	78	*	78	*
Baraga	35	*	*	8	*	*	3	*	6	*	37	*	37	*
Barry	147	5.4 (40)	60.5 (17)	42	*	*	12	*	45	*	202	10.4 (34)	201	16.9 (39)
Bay	319	3.8 (15)	62.7 (32)	177	16.9 (18)	58.2 (31)	23	*	67	*	409	7.8 (8)	410	16.8 (38)
Benzie	67	*	*	51	*	*	4	*	14	*	69	*	69	*
Berrien	567	5.1 (35)	63.8 (41)	361	18.3 (22)	53.5 (15)	71	*	141	22.0 (6)	607	8.7 (16)	610	18.2 (47)
Branch	149	5.4 (40)	62.4 (30)	55	*	*	49	*	71	*	318	9.1 (18)	318	9.4 (1)
Calhoun	753	5.6 (44)	59.5 (14)	541	17.2 (19)	56.7 (24)	60	*	81	*	755	9.4 (22)	755	12.8 (15)
Cass	217	6.0 (47)	63.1 (34)	158	19.6 (26)	57.6 (28)	40	*	41	*	235	11.1 (41)	234	13.2 (17)
Charlevoix	55	*	*	19	*	*	10	*	23	*	74	*	74	*
Cheboygan	69	*	*	8	*	*	15	*	21	*	87	*	87	*
Chippewa	141	2.1 (3)	63.1 (34)	100	10.0 (2)	57.0 (27)	17	*	47	*	144	11.8 (46)	144	11.1 (7)

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

(2) Excludes records with unknown data or errors.

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

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

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

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

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

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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)
Clare	123	8.1 (55)	56.9 (8)	25	*	*	20	*	44	*	148	12.8 (51)	148	17.6 (43)
Clinton	102	2.9 (4)	69.6 (53)	66	*	*	7	*	24	*	105	14.3 (52)	106	9.4 (1)
Crawford	69	*	*	56	*	*	3	*	11	*	72	*	72	*
Delta	171	1.2 (2)	62.0 (26)	123	23.6 (35)	51.2 (6)	25	*	44	*	172	10.5 (35)	173	15.0 (32)
Dickinson	100	4.0 (20)	73.0 (55)	70	*	*	0	*	6	*	100	4.0 (1)	100	14.0 (26)
Eaton	156	3.8 (15)	66.0 (50)	33	*	*	8	*	38	*	200	8.5 (14)	200	15.5 (34)
Emmet	91	*	*	39	*	*	16	*	21	*	94	*	94	*
Genesee	1,769	5.2 (37)	60.5 (17)	748	19.3 (24)	52.9 (11)	83	*	350	27.4 (11)	2,111	9.7 (25)	2,113	17.0 (40)
Gladwin	106	6.6 (52)	60.4 (16)	68	*	*	14	*	21	*	114	14.9 (55)	115	17.4 (42)
Gogebic	48	*	*	19	*	*	6	*	12	*	54	*	54	*
Gr Travers	278	5.4 (40)	56.8 (6)	177	15.3 (11)	54.8 (21)	37	*	64	*	311	6.8 (4)	314	13.4 (21)
Gratiot	177	1.1 (1)	70.1 (54)	105	22.9 (34)	51.4 (8)	7	*	44	*	176	9.7 (25)	176	9.7 (3)
Hillsdale	219	3.7 (14)	61.6 (24)	177	15.3 (11)	57.6 (28)	28	*	39	*	215	16.3 (56)	216	11.1 (7)
Houghton	132	3.0 (6)	51.5 (1)	69	*	*	11	*	41	*	141	7.8 (8)	139	18.7 (48)
Huron	122	6.6 (52)	64.8 (44)	54	*	*	20	*	39	*	142	9.2 (20)	142	11.3 (9)
Ingham	1,437	3.5 (11)	61.2 (20)	879	15.4 (14)	58.1 (30)	98	*	132	15.9 (1)	1,622	7.4 (6)	1,625	13.6 (24)
Ionia	232	3.0 (6)	62.1 (28)	176	18.8 (23)	50.6 (4)	43	*	77	*	258	10.1 (31)	258	15.9 (35)

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

(2) Excludes records with unknown data or errors.

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

(4) 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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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	89	*	*	34	*	*	12	*	25	*	106	9.4 (22)	107	13.1 (16)
Iron	34	*	*	11	*	*	0	*	0	*	54	*	54	*
Isabella	273	4.0 (20)	65.2 (47)	119	11.8 (4)	59.7 (33)	45	*	93	*	317	12.3 (49)	317	18.0 (46)
Jackson	718	5.8 (46)	60.7 (19)	483	14.5 (8)	58.4 (32)	35	*	94	*	783	10.5 (35)	785	14.8 (29)
Kalamazoo	903	4.3 (22)	59.6 (15)	468	13.5 (5)	61.1 (35)	54	*	165	29.1 (13)	1,038	9.1 (18)	1,039	14.3 (28)
Kalkaska	78	*	*	62	*	*	4	*	19	*	78	*	78	*
Kent	1,735	4.3 (22)	61.4 (23)	669	26.5 (36)	43.0 (2)	455	34.3 (3)	1,007	21.7 (5)	2,987	9.7 (25)	2,992	19.9 (49)
Lake	53	*	*	41	*	*	1	*	7	*	50	*	50	*
Lapeer	307	6.2 (48)	61.2 (20)	237	14.3 (7)	53.6 (16)	26	*	51	*	337	6.2 (2)	338	14.2 (27)
Leelanau	13	*	*	7	*	*	4	*	1	*	23	*	23	*
Lenawee	316	5.1 (35)	58.5 (11)	188	14.9 (10)	55.9 (23)	46	*	112	25.0 (8)	343	11.1 (41)	343	17.2 (41)
Livingston	257	4.7 (30)	56.8 (6)	147	20.4 (29)	54.4 (17)	24	*	78	*	304	11.5 (44)	305	22.3 (52)
Luce	32	*	*	12	*	*	3	*	12	*	35	*	35	*
Mackinac	33	*	*	26	*	*	0	*	6	*	32	*	32	*
Macomb	2,941	3.6 (13)	63.2 (36)	2,315	18.0 (21)	51.2 (6)	231	35.9 (5)	1,124	27.5 (12)	2,967	10.7 (39)	2,965	14.9 (31)
Manistee	90	*	*	57	*	*	5	*	19	*	88	*	88	*
Marquette	162	5.6 (44)	52.5 (2)	99	*	*	2	*	35	*	180	6.7 (3)	182	11.0 (6)

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

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

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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	117	3.4 (10)	65.0 (45)	92	*	*	6	*	19	*	118	9.3 (21)	119	17.6 (43)
Mecosta	192	6.3 (50)	63.5 (39)	43	*	*	6	*	31	*	231	14.7 (53)	231	23.4 (55)
Menominee	83	*	*	66	*	*	12	*	24	*	77	*	77	*
Midland	242	2.9 (4)	65.3 (48)	106	8.5 (1)	63.2 (37)	30	*	89	*	284	8.8 (17)	283	14.8 (29)
Missaukee	72	*	*	54	*	*	7	*	19	*	75	*	75	*
Monroe	535	5.2 (37)	65.8 (49)	410	21.5 (33)	51.0 (5)	38	*	120	16.7 (2)	509	8.6 (15)	511	22.5 (53)
Montcalm	286	3.1 (9)	63.3 (37)	197	14.2 (6)	56.9 (26)	16	*	65	*	301	10.3 (33)	301	17.9 (45)
Montmorenc	32	*	*	19	*	*	5	*	4	*	33	*	33	*
Muskegon	924	4.4 (25)	64.2 (42)	663	17.8 (20)	54.4 (17)	37	*	45	*	981	10.1 (31)	980	20.7 (50)
Newaygo	298	5.0 (33)	62.8 (33)	202	20.3 (27)	50.0 (3)	9	*	46	*	314	11.1 (41)	314	25.8 (56)
Oakland	2,904	4.5 (26)	59.1 (13)	1,781	16.2 (15)	52.6 (9)	258	45.0 (6)	663	30.2 (15)	3,103	8.3 (11)	3,104	13.5 (22)
Oceana	122	4.9 (32)	66.4 (51)	88	*	*	10	*	26	*	151	11.9 (48)	151	13.2 (17)
Ogemaw	104	4.8 (31)	67.3 (52)	50	*	*	17	*	29	*	129	14.7 (53)	129	13.2 (17)
Ontonagon	19	*	*	11	*	*	1	*	3	*	16	*	16	*
Osceola	112	6.3 (50)	58.0 (10)	80	*	*	11	*	45	*	136	12.5 (50)	136	22.8 (54)
Oscoda	34	*	*	11	*	*	3	*	15	*	41	*	41	*
Otsego	102	3.9 (19)	57.8 (9)	16	*	*	20	*	32	*	126	7.1 (5)	126	12.7 (14)

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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).

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Table 5B

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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	461	5.2 (37)	54.0 (4)	118	10.2 (3)	61.0 (34)	120	27.5 (1)	249	19.7 (4)	912	10.6 (38)	913	10.8 (5)
Presque Is	29	*	*	5	*	*	5	*	8	*	28	*	28	*
Roscommon	102	6.9 (54)	52.9 (3)	15	*	*	13	*	10	*	99	*	99	*
Saginaw	913	4.6 (28)	65.1 (46)	631	19.5 (25)	52.8 (10)	83	*	150	22.7 (7)	1,082	9.7 (25)	1,081	15.9 (35)
Sanilac	95	*	*	10	*	*	11	*	42	*	138	9.4 (22)	138	12.3 (13)
Schoolcraf	47	*	*	36	*	*	8	*	8	*	45	*	45	*
Shiawassee	292	5.5 (43)	62.3 (29)	228	21.1 (32)	53.1 (12)	21	*	57	*	324	8.3 (11)	326	11.7 (10)
St Clair	528	3.8 (15)	63.6 (40)	405	15.3 (11)	56.8 (25)	44	*	148	29.7 (14)	495	10.5 (35)	497	13.9 (25)
St Joseph	308	6.2 (48)	58.8 (12)	157	14.6 (9)	61.8 (36)	58	*	93	*	340	7.4 (6)	339	13.3 (20)
Tuscola	196	4.6 (28)	63.3 (37)	106	20.8 (31)	54.7 (20)	25	*	34	*	232	9.9 (30)	232	12.1 (12)
Van Buren	343	3.5 (11)	61.2 (20)	113	38.1 (37)	42.5 (1)	74	*	89	*	390	11.8 (46)	391	16.4 (37)
Washtenaw	811	4.3 (22)	62.6 (31)	523	20.3 (27)	53.2 (13)	138	32.6 (2)	270	17.8 (3)	945	8.1 (10)	945	15.1 (33)
Wayne	8,977	3.8 (15)	62.0 (26)	5,448	16.8 (17)	54.6 (19)	649	35.6 (4)	2,005	25.3 (9)	11,120	8.4 (13)	11,128	13.5 (22)
Wexford	201	4.5 (26)	55.7 (5)	138	16.7 (16)	55.8 (22)	6	*	43	*	204	9.8 (29)	204	11.8 (11)
Michigan	35,984	4.3	61.6	21,505	17.5	54.1	3,531	34.3	9,106	23.2	42,426	9.3	42,465	15.0
National (Prior Year)	43,167	4.0	61.9	28,282	19.8	49.9	3,540	26.3	4,123	24.5	45,204	10.0	45,068	15.0

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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).

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WIC PNSS & PedNSS

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Table 6B

2023 Pregnancy Nutrition Surveillance (1)

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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	47	*	*	50	*	52	*	35 *
Alger	25	*	*	28	*	28	*	20 *
Allegan	366	91.5 (38)	0.3 (20)	411	29.7 (39)	401	28.7 (21)	291 92.1 (18)
Alpena	116	94.8 (15)	0.0 (1)	124	20.2 (58)	130	31.5 (15)	81 *
Antrim	61	*	*	70	*	70	*	55 *
Arenac	73	*	*	82	*	83	*	68 *
Baraga	33	*	*	41	*	42	*	35 *
Barry	199	97.5 (3)	0.0 (1)	215	30.7 (37)	216	38.0 (9)	153 92.8 (15)
Bay	367	91.8 (36)	1.1 (44)	433	40.9 (6)	431	24.8 (32)	340 88.5 (41)
Benzie	66	*	*	77	*	76	*	56 *
Berrien	504	84.3 (53)	1.6 (51)	684	29.5 (40)	513	24.6 (34)	461 91.3 (22)
Branch	290	92.1 (34)	0.3 (20)	334	29.3 (41)	338	44.1 (5)	245 93.1 (13)
Calhoun	739	95.7 (10)	0.4 (25)	820	36.6 (17)	712	27.0 (25)	638 92.9 (14)
Cass	220	97.3 (5)	0.0 (1)	253	31.6 (31)	239	23.8 (38)	186 80.6 (51)
Charlevoix	70	*	*	74	*	75	*	49 *
Cheboygan	75	*	*	92	*	92	*	79 *
Chippewa	143	98.6 (1)	0.7 (35)	159	40.9 (6)	159	62.3 (2)	120 94.2 (10)
Clare	140	90.7 (44)	1.4 (47)	158	36.7 (15)	132	24.2 (35)	120 86.7 (48)
Clinton	100	93.0 (28)	0.0 (1)	116	34.5 (24)	90	*	85 *
Crawford	66	*	*	70	*	74	*	58 *

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

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

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2023 Pregnancy Nutrition Surveillance (1)

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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	169	94.1 (21)	0.0 (1)	181	34.8 (23)	180	33.3 (13)	136	94.1 (11)
Dickinson	94	*	*	109	36.7 (15)	111	39.6 (7)	92	*
Eaton	198	90.9 (43)	1.5 (49)	219	27.9 (50)	218	28.4 (22)	149	94.6 (7)
Emmet	92	*	*	100	35.0 (21)	98	*	82	*
Genesee	1,928	89.8 (45)	0.4 (25)	2,307	29.0 (47)	1,994	22.4 (41)	1,732	91.0 (26)
Gladwin	100	94.0 (22)	2.0 (52)	122	38.5 (11)	120	35.8 (11)	100	88.0 (43)
Gogebic	54	*	*	62	*	60	*	45	*
Gr Travers	286	91.3 (39)	1.4 (47)	345	29.3 (41)	344	26.2 (27)	263	87.5 (45)
Gratiot	171	96.5 (7)	0.0 (1)	190	34.2 (25)	177	62.7 (1)	142	96.5 (2)
Hillsdale	209	94.7 (16)	0.0 (1)	230	30.0 (38)	233	28.8 (20)	173	90.2 (32)
Houghton	125	94.4 (20)	0.0 (1)	165	29.1 (45)	161	41.6 (6)	121	90.9 (27)
Huron	117	89.7 (46)	0.9 (40)	145	25.5 (54)	145	37.9 (10)	110	91.8 (20)
Ingham	1,349	89.7 (46)	0.4 (25)	1,692	31.6 (31)	1,695	15.6 (53)	1,305	89.8 (33)
Ionia	245	95.5 (11)	0.0 (1)	267	28.5 (49)	268	20.1 (49)	195	95.9 (3)
Iosco	96	*	*	117	29.1 (45)	116	27.6 (23)	91	*
Iron	48	*	*	59	*	53	*	51	*
Isabella	302	93.7 (24)	0.3 (20)	337	32.0 (30)	332	29.5 (19)	264	91.3 (22)
Jackson	717	92.9 (29)	0.7 (35)	845	38.5 (11)	839	20.9 (45)	653	89.6 (34)
Kalamazoo	958	91.1 (41)	0.5 (31)	1,136	31.0 (35)	1,113	20.8 (46)	831	86.9 (47)
Kalkaska	68	*	*	83	*	80	*	69	*
Kent	2,671	91.3 (39)	0.7 (35)	3,134	26.3 (53)	2,474	24.2 (35)	2,367	89.6 (34)

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

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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	45	*	*	56	*	56	*	45 *
Lapeer	294	92.5 (30)	0.0 (1)	351	35.0 (21)	353	27.5 (24)	276 94.6 (7)
Leelanau	23	*	*	26	*	25	*	20 *
Lenawee	314	92.0 (35)	0.3 (20)	387	31.0 (35)	384	20.6 (47)	290 91.7 (21)
Livingston	281	92.2 (31)	1.1 (44)	315	31.1 (34)	315	34.3 (12)	230 90.9 (27)
Luce	32	*	*	36	*	40	*	32 *
Mackinac	32	*	*	36	*	35	*	28 *
Macomb	2,795	93.2 (27)	0.7 (35)	3,108	25.0 (56)	2,512	15.6 (53)	2,167 95.2 (5)
Manistee	79	*	*	93	*	96	*	73 *
Marquette	165	94.5 (18)	1.2 (46)	191	33.0 (27)	170	23.5 (40)	143 95.8 (4)
Mason	95	*	*	122	44.3 (4)	124	21.8 (42)	98 *
Mecosta	215	95.3 (13)	0.5 (31)	245	56.3 (1)	237	25.7 (30)	203 87.2 (46)
Menominee	72	*	*	84	*	58	*	65 *
Midland	263	95.8 (9)	0.8 (39)	303	25.1 (55)	302	26.5 (26)	217 91.2 (25)
Missaukee	65	*	*	76	*	78	*	60 *
Monroe	483	91.7 (37)	1.0 (42)	559	29.3 (41)	394	31.7 (14)	392 92.6 (16)
Montcalm	283	95.4 (12)	0.0 (1)	314	29.3 (41)	299	55.9 (3)	238 96.6 (1)
Montmorenc	32	*	*	36	*	34	*	29 *
Muskegon	921	91.0 (42)	0.4 (25)	1,058	35.9 (20)	1,039	21.8 (42)	818 94.7 (6)
Newaygo	236	87.3 (51)	2.5 (53)	335	49.0 (2)	312	21.5 (44)	273 83.5 (49)
Oakland	2,896	94.0 (22)	0.5 (31)	3,373	27.8 (51)	3,049	25.2 (31)	2,406 90.9 (27)

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

(2) Excludes records with unknown data or errors.

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

(4) 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.

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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	115	92.2 (31)	0.9 (40)	161	37.9 (13)	160	30.6 (18)	126	91.3 (22)
Ogemaw	122	93.4 (25)	0.0 (1)	131	36.6 (17)	131	23.7 (39)	105	94.3 (9)
Ontonagon	16	*	*	21	*	20	*	19	*
Osceola	108	86.1 (52)	0.0 (1)	143	45.5 (3)	142	15.5 (55)	119	94.1 (11)
Oscoda	39	*	*	43	*	43	*	33	*
Otsego	120	97.5 (3)	0.0 (1)	130	32.3 (29)	119	31.1 (17)	102	88.2 (42)
Ottawa	883	97.3 (5)	0.2 (18)	962	28.6 (48)	939	26.2 (27)	656	92.4 (17)
Presque Is	29	*	*	32	*	32	*	22	*
Roscommon	92	*	*	107	41.1 (5)	107	47.7 (4)	91	*
Saginaw	1,019	92.2 (31)	0.2 (18)	1,135	36.6 (17)	1,136	19.9 (50)	899	89.4 (37)
Sanilac	132	98.5 (2)	0.0 (1)	152	33.6 (26)	151	15.2 (56)	111	89.2 (39)
Schoolcraf	42	*	*	47	*	47	*	41	*
Shiawassee	305	96.1 (8)	1.0 (42)	342	40.1 (10)	140	39.3 (8)	257	82.9 (50)
St Clair	390	89.5 (50)	1.5 (49)	550	40.5 (9)	552	24.1 (37)	431	90.7 (30)
St Joseph	263	89.7 (46)	0.4 (25)	360	36.9 (14)	364	24.7 (33)	274	88.0 (43)
Tuscola	199	94.5 (18)	0.0 (1)	243	40.7 (8)	245	16.3 (52)	201	90.5 (31)
Van Buren	321	95.0 (14)	0.3 (20)	428	31.3 (33)	417	31.2 (16)	318	89.0 (40)
Washtenaw	891	93.3 (26)	0.4 (25)	1,026	27.5 (52)	1,017	20.2 (48)	758	89.3 (38)
Wayne	10,672	89.7 (46)	0.6 (34)	11,852	21.9 (57)	9,881	18.2 (51)	8,337	89.5 (36)
Wexford	189	94.7 (16)	0.0 (1)	211	32.7 (28)	215	26.0 (29)	162	92.0 (19)

(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.

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Michigan

Comparison of Maternal Behavioral Indicators by County

Michigan	39,293	91.8	0.6	45,366	28.9	40,573	23.3	33,331	90.6
National (Prior Year)	47,224	86.4	1.2	51,965	24.2	46,223	23.1	38,918	91.9

(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) 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.

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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)	
Alcona	34	*	42	*	12	*	35	*	48	*
Alger	20	*	23	*	10	*	20	*	27	*
Allegan	288	19.4 (23)	384	6.3 (12)	55	*	292	14.7 (32)	390	11.3 (45)
Alpena	78	*	115	13.9 (48)	22	*	81	*	121	6.6 (19)
Antrim	55	*	63	*	20	*	55	*	67	*
Arenac	67	*	75	*	16	*	68	*	77	*
Baraga	35	*	37	*	12	*	35	*	37	*
Barry	149	12.8 (7)	201	6.0 (10)	21	*	152	11.8 (20)	202	5.4 (15)
Bay	340	25.0 (37)	407	12.5 (44)	81	*	340	17.6 (42)	408	9.1 (34)
Benzie	56	*	65	*	20	*	56	*	69	*
Berrien	449	21.6 (29)	605	8.9 (26)	94	*	462	20.1 (46)	608	10.2 (39)
Branch	244	15.6 (13)	309	7.1 (19)	35	*	245	14.7 (32)	318	10.7 (41)
Calhoun	635	19.8 (25)	746	5.2 (7)	118	56.8 (3)	638	7.1 (7)	752	4.5 (13)
Cass	185	21.1 (28)	235	8.9 (26)	37	*	186	10.8 (17)	237	2.1 (1)
Charlevoix	49	*	71	*	9	*	49	*	74	*
Cheboygan	79	*	81	*	17	*	79	*	87	*
Chippewa	116	14.7 (10)	144	18.8 (51)	17	*	120	14.2 (31)	148	7.4 (23)
Clare	119	36.1 (48)	143	19.6 (53)	39	*	120	31.7 (51)	149	14.8 (52)

(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.

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Michigan

Comparison of Smoking Indicators by County

Comparison of Smoking Indicators (2,3)										
County	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (4)	Smoking in Household				
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy			Prenatal		Postpartum		
	Number	% (rank)	Number	% (rank)		Number	% (rank)	Number	% (rank)	
Clinton	85	*	105	8.6 (25)	14	*	85	*	106	8.5 (30)
Crawford	58	*	69	*	21	*	58	*	72	*
Delta	135	28.9 (42)	169	17.2 (50)	37	*	135	16.3 (36)	173	10.4 (40)
Dickinson	92	*	99	*	23	*	92	*	101	3.0 (5)
Eaton	149	15.4 (11)	203	9.4 (29)	19	*	149	12.1 (23)	203	9.9 (37)
Emmet	80	*	91	*	19	*	81	*	94	*
Genesee	1,728	17.7 (16)	2,056	6.7 (16)	272	44.5 (9)	1,734	11.8 (20)	2,102	6.7 (21)
Gladwin	99	*	104	12.5 (44)	36	*	100	27.0 (49)	118	16.9 (53)
Gogebic	44	*	52	*	16	*	45	*	54	*
Gr Travers	261	26.1 (39)	304	12.2 (43)	62	*	263	17.5 (41)	319	10.7 (41)
Gratiot	142	37.3 (49)	164	11.0 (36)	51	*	141	17.0 (39)	177	14.1 (51)
Hillsdale	169	31.4 (45)	202	11.4 (40)	51	*	173	19.1 (44)	216	12.5 (48)
Houghton	120	30.0 (44)	142	20.4 (54)	33	*	121	8.3 (10)	145	2.8 (3)
Huron	110	23.6 (35)	142	8.5 (24)	25	*	110	17.3 (40)	141	3.5 (6)
Ingham	1,304	16.6 (15)	1,627	6.0 (10)	204	47.5 (6)	1,305	10.1 (14)	1,629	2.6 (2)
Ionia	193	23.8 (36)	239	11.3 (39)	45	*	195	16.4 (37)	258	6.6 (19)
Iosco	90	*	96	*	27	*	91	*	108	8.3 (29)
Iron	49	*	53	*	14	*	51	*	54	*
Isabella	255	21.6 (29)	309	11.7 (41)	59	*	266	13.5 (28)	317	10.7 (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) 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.

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Michigan

Comparison of Smoking Indicators by County

Comparison of Smoking Indicators (2,3)										
County	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (4)	Smoking in Household				
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy			Prenatal		Postpartum		
	Number	% (rank)	Number	% (rank)		Number	% (rank)	Number	% (rank)	
Jackson	653	19.4 (23)	788	10.7 (35)	115	32.2 (12)	653	13.6 (29)	784	8.0 (26)
Kalamazoo	822	16.4 (14)	1,018	6.7 (16)	128	38.3 (10)	830	10.1 (14)	1,042	6.1 (17)
Kalkaska	69	*	71	*	25	*	69	*	78	*
Kent	2,335	11.3 (5)	2,964	4.3 (5)	270	48.5 (5)	2,361	6.4 (5)	2,984	2.8 (3)
Lake	42	*	47	*	15	*	44	*	50	*
Lapeer	269	18.2 (18)	332	9.0 (28)	50	*	276	9.4 (12)	338	3.6 (8)
Leelanau	19	*	23	*	3	*	20	*	23	*
Lenawee	289	18.3 (19)	341	8.2 (23)	47	*	290	9.3 (11)	344	5.2 (14)
Livingston	228	25.4 (38)	295	6.4 (13)	55	*	230	13.0 (27)	306	7.5 (24)
Luce	27	*	34	*	14	*	32	*	35	*
Mackinac	28	*	31	*	6	*	28	*	33	*
Macomb	2,164	6.6 (1)	2,950	2.5 (2)	129	45.7 (8)	2,165	5.8 (4)	2,956	3.5 (6)
Manistee	73	*	82	*	26	*	73	*	89	*
Marquette	144	42.4 (50)	174	12.1 (42)	59	*	144	11.1 (18)	183	8.7 (32)
Mason	97	*	116	14.7 (49)	28	*	97	*	119	20.2 (55)
Mecosta	203	28.6 (41)	210	11.0 (36)	55	*	202	16.8 (38)	232	11.6 (46)
Menominee	65	*	75	*	9	*	65	*	77	*
Midland	214	29.9 (43)	266	7.1 (19)	57	*	216	10.2 (16)	284	6.3 (18)
Missaukee	60	*	74	*	11	*	60	*	75	*

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

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

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

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

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Michigan

Comparison of Smoking Indicators by County

Comparison of Smoking Indicators (2,3)										
County	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (4)	Smoking in Household				
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy			Prenatal		Postpartum		
	Number	% (rank)	Number	% (rank)		Number	% (rank)	Number	% (rank)	
Monroe	372	26.9 (40)	486	9.5 (30)	107	45.8 (7)	382	12.6 (26)	489	9.0 (33)
Montcalm	237	23.2 (33)	286	6.6 (15)	52	*	238	15.5 (35)	300	12.7 (49)
Montmorenc	29	*	32	*	12	*	29	*	33	*
Muskegon	816	14.3 (8)	974	7.1 (19)	109	33.0 (11)	818	13.6 (29)	992	7.9 (25)
Newaygo	273	21.6 (29)	306	10.5 (34)	55	*	271	11.1 (18)	302	9.3 (36)
Oakland	2,387	9.8 (2)	3,084	2.1 (1)	217	60.4 (2)	2,398	6.8 (6)	3,107	3.8 (10)
Oceana	126	19.0 (20)	150	13.3 (47)	21	*	126	7.9 (9)	150	6.0 (16)
Ogemaw	105	34.3 (47)	125	11.2 (38)	33	*	105	27.6 (50)	129	17.1 (54)
Ontonagon	19	*	15	*	5	*	19	*	16	*
Osceola	119	23.5 (34)	127	18.9 (52)	27	*	119	23.5 (48)	136	26.5 (56)
Oscoda	33	*	41	*	11	*	33	*	41	*
Otsego	101	19.8 (25)	124	6.5 (14)	19	*	102	17.6 (42)	126	11.1 (44)
Ottawa	651	15.5 (12)	896	3.1 (4)	97	*	656	5.0 (1)	918	3.7 (9)
Presque Is	22	*	28	*	4	*	22	*	30	*
Roscommon	91	*	95	*	25	*	91	*	99	*
Saginaw	896	18.1 (17)	1,079	5.3 (8)	147	51.0 (4)	898	12.1 (23)	1,084	8.0 (26)
Sanilac	109	11.9 (6)	133	6.8 (18)	14	*	110	11.8 (20)	138	8.0 (26)
Schoolcraf	41	*	43	*	18	*	41	*	45	*
Shiawassee	255	10.2 (4)	316	5.4 (9)	29	*	256	5.5 (2)	324	6.8 (22)

(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.

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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)	
St Clair	426	22.3 (32)	493	9.5 (30)	85	*	431	14.8 (34)	506	8.5 (30)
St Joseph	269	19.0 (20)	332	9.6 (33)	47	*	273	12.1 (23)	340	10.0 (38)
Tuscola	200	31.5 (46)	231	12.6 (46)	63	*	201	20.9 (47)	232	12.1 (47)
Van Buren	318	19.8 (25)	375	7.7 (22)	61	*	318	9.7 (13)	395	9.1 (34)
Washtenaw	753	14.3 (8)	939	4.5 (6)	92	*	758	5.5 (2)	946	3.8 (10)
Wayne	8,297	10.1 (3)	11,102	2.5 (2)	782	64.8 (1)	8,331	7.4 (8)	11,151	4.0 (12)
Wexford	162	19.1 (22)	201	9.5 (30)	28	*	162	19.1 (44)	205	12.7 (49)
Michigan	33,089	15.8	41,903	5.7	4,925	45.2	33,292	10.2	42,493	6.0
National (Prior Year)	40,927	23.4	49,975	7.8	7,918	31.5	39,948	6.0	53,241	3.4

(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) 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.

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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	46	*	*	47	*	43	*	46	*
Alger	23	*	*	24	*	18	*	23	*
Allegan	367	9.5 (24)	6.8 (26)	373	12.9 (34)	318	4.1 (24)	369	78.9 (39)
Alpena	119	10.9 (38)	5.9 (15)	117	15.4 (52)	97	*	119	78.2 (40)
Antrim	60	*	*	64	*	55	*	60	*
Arenac	77	*	*	77	*	71	*	77	*
Baraga	35	*	*	36	*	28	*	35	*
Barry	178	9.6 (25)	6.2 (17)	196	15.3 (51)	152	2.0 (5)	183	81.4 (26)
Bay	388	9.3 (21)	9.0 (45)	401	10.5 (19)	347	3.7 (19)	387	70.8 (50)
Benzie	67	*	*	68	*	62	*	67	*
Berrien	571	9.3 (21)	7.4 (33)	590	12.5 (32)	497	4.8 (32)	574	70.9 (49)
Branch	293	9.9 (30)	9.2 (47)	311	9.0 (5)	263	5.7 (42)	299	81.9 (24)
Calhoun	706	11.3 (40)	6.4 (21)	726	11.2 (24)	624	5.4 (37)	708	83.3 (18)
Cass	220	8.2 (17)	4.5 (3)	221	10.0 (14)	196	3.6 (18)	220	79.5 (35)
Charlevoix	63	*	*	72	*	57	*	70	*
Cheboygan	82	*	*	83	*	78	*	82	*
Chippewa	138	5.8 (5)	13.0 (52)	143	9.8 (11)	124	2.4 (8)	139	83.5 (17)
Clare	128	15.6 (53)	7.8 (35)	143	14.0 (43)	108	9.3 (50)	128	73.4 (47)
Clinton	99	*	*	103	15.5 (53)	84	*	99	*

(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.

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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	69	*	*	69	*	61	*	69	*
Delta	158	8.2 (17)	6.3 (19)	166	9.0 (5)	143	2.1 (6)	158	82.3 (23)
Dickinson	98	*	*	96	*	83	*	97	*
Eaton	193	12.4 (47)	7.8 (35)	200	15.5 (53)	163	3.7 (19)	198	79.8 (34)
Emmet	87	*	*	90	*	78	*	86	*
Genesee	2,034	14.1 (52)	5.5 (10)	2,063	14.2 (45)	1,733	7.2 (49)	2,041	66.8 (51)
Gladwin	110	5.5 (3)	7.3 (31)	113	11.5 (25)	97	*	110	85.5 (9)
Gogebic	54	*	*	54	*	46	*	54	*
Gr Travers	304	7.6 (12)	8.6 (41)	309	9.1 (7)	274	4.0 (23)	308	91.2 (2)
Gratiot	163	8.0 (16)	8.6 (41)	168	10.7 (21)	145	4.1 (24)	165	80.6 (31)
Hillsdale	206	7.8 (14)	7.3 (31)	206	14.6 (48)	173	4.6 (31)	206	81.1 (28)
Houghton	135	5.2 (2)	8.9 (44)	139	10.1 (16)	122	3.3 (13)	137	89.8 (3)
Huron	131	10.7 (35)	8.4 (40)	134	13.4 (39)	113	0.9 (1)	131	79.4 (37)
Ingham	1,515	9.6 (25)	6.4 (21)	1,560	12.4 (31)	1,323	3.2 (11)	1,532	84.0 (13)
Ionia	247	10.1 (32)	6.9 (27)	253	9.9 (13)	223	5.4 (37)	247	86.6 (6)
Iosco	99	*	*	101	8.9 (4)	88	*	98	*
Iron	50	*	*	53	*	40	*	49	*
Isabella	295	9.2 (20)	8.1 (38)	303	9.6 (8)	265	4.2 (26)	299	83.9 (14)
Jackson	720	11.5 (41)	7.8 (35)	762	12.1 (30)	630	6.2 (46)	726	80.0 (32)

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

(2) Excludes records with unknown data or errors.

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

(4) <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

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Table 8B

2023 Pregnancy Nutrition Surveillance (1)

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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	980	11.5 (41)	6.5 (25)	1,012	13.2 (36)	847	5.4 (37)	990	78.0 (41)
Kalkaska	72	*	*	78	*	63	*	72	*
Kent	2,827	12.1 (45)	5.4 (7)	2,915	14.1 (44)	2,424	5.3 (35)	2,878	79.3 (38)
Lake	46	*	*	47	*	39	*	46	*
Lapeer	311	7.4 (10)	9.3 (49)	323	11.5 (25)	273	2.6 (10)	312	83.7 (15)
Leelanau	20	*	*	21	*	19	*	20	*
Lenawee	323	10.8 (37)	6.2 (17)	334	13.2 (36)	282	5.0 (33)	323	81.7 (25)
Livingston	291	10.7 (35)	6.9 (27)	291	13.7 (40)	248	3.2 (11)	291	84.2 (11)
Luce	33	*	*	30	*	29	*	33	*
Mackinac	32	*	*	32	*	32	*	32	*
Macomb	2,821	12.5 (48)	5.4 (7)	2,846	14.2 (45)	2,379	6.1 (45)	2,843	74.6 (45)
Manistee	83	*	*	84	*	71	*	83	*
Marquette	176	7.4 (10)	6.3 (19)	176	9.7 (10)	157	5.7 (42)	177	80.8 (30)
Mason	108	6.5 (7)	9.3 (49)	110	8.2 (3)	96	*	111	85.6 (8)
Mecosta	217	9.7 (28)	8.3 (39)	217	12.0 (29)	187	5.3 (35)	218	82.6 (20)
Menominee	74	*	*	75	*	60	*	73	*
Midland	263	6.8 (8)	10.3 (51)	271	9.6 (8)	237	2.5 (9)	263	81.0 (29)
Missaukee	71	*	*	72	*	64	*	72	*
Monroe	484	9.9 (30)	5.2 (5)	493	11.0 (23)	431	3.9 (22)	483	73.7 (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) <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

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Table 8B

2023 Pregnancy Nutrition Surveillance (1)

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Michigan

Comparison of Infant Health Indicators by County

Comparison of Infant Health Indicators (2,3)									
County	Birthweight			Preterm		Full Term LBW		Ever Breastfed	
	Low		High	(6)		(7)			
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Montcalm	286	7.7 (13)	5.2 (5)	290	10.0 (14)	255	3.5 (14)	286	86.0 (7)
Montmorenc	30	*	*	29	*	27	*	30	*
Muskegon	933	11.0 (39)	5.7 (14)	964	14.7 (50)	791	5.6 (41)	938	74.7 (44)
Newaygo	293	8.5 (19)	7.5 (34)	296	11.8 (27)	255	3.5 (14)	293	82.6 (20)
Oakland	2,905	12.6 (50)	5.4 (7)	3,007	13.8 (41)	2,483	5.4 (37)	2,951	77.6 (42)
Oceana	144	11.8 (44)	5.6 (13)	144	14.6 (48)	123	6.5 (47)	145	84.1 (12)
Ogemaw	123	5.7 (4)	17.1 (53)	124	6.5 (1)	114	4.4 (28)	122	79.5 (35)
Ontonagon	16	*	*	16	*	15	*	16	*
Osceola	135	9.6 (25)	4.4 (2)	135	10.4 (18)	120	5.0 (33)	134	83.6 (16)
Oscoda	39	*	*	39	*	31	*	39	*
Otsego	112	6.3 (6)	4.5 (3)	121	10.7 (21)	101	1.0 (2)	117	89.7 (4)
Ottawa	834	12.1 (45)	7.1 (30)	873	12.9 (34)	722	3.7 (19)	862	84.7 (10)
Presque Is	27	*	*	28	*	21	*	27	*
Roscommon	93	*	*	95	*	84	*	93	*
Saginaw	1,017	11.5 (41)	5.5 (10)	1,040	13.9 (42)	874	3.5 (14)	1,023	71.1 (48)
Sanilac	129	9.3 (21)	7.0 (29)	135	11.9 (28)	114	3.5 (14)	131	64.1 (52)
Schoolcraf	43	*	*	45	*	36	*	43	*
Shiawassee	307	6.8 (8)	5.5 (10)	314	10.5 (19)	274	2.2 (7)	309	79.9 (33)
St Clair	478	10.3 (33)	8.6 (41)	491	9.8 (11)	433	4.4 (28)	481	77.1 (43)

(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

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Table 8B

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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	319	7.8 (14)	9.1 (46)	325	12.6 (33)	274	1.8 (4)	325	81.2 (27)
Tuscola	219	5.0 (1)	6.4 (21)	224	8.0 (2)	201	1.5 (3)	220	82.7 (19)
Van Buren	360	9.7 (28)	6.4 (21)	376	10.1 (16)	320	4.4 (28)	366	82.5 (22)
Washtenaw	878	12.5 (48)	5.9 (15)	908	15.5 (53)	737	5.7 (42)	893	86.8 (5)
Wayne	10,257	13.2 (51)	3.9 (1)	10,823	14.4 (47)	8,705	6.6 (48)	10,558	63.0 (53)
Wexford	195	10.3 (33)	9.2 (47)	195	13.3 (38)	165	4.2 (26)	197	91.9 (1)
Michigan	39,736	11.4	5.8	41,121	13.2	34,238	5.2	40,322	74.6
National (Prior Year)	50,081	11.0	6.0	51,393	13.2	42,775	5.0	50,583	46.5

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

(2) Excludes records with unknown data or errors.

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

(4) <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

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Table 3B

2021 - 2023 Pregnancy Nutrition Surveillance ⁽¹⁾

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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	123	91.9	0.0	4.9	0.0	0.0	2.4	0.8
Alger	75	*	*	*	*	*	*	*
Allegan	1,358	75.1	1.8	17.5	0.1	0.8	4.0	0.7
Alpena	419	94.3	0.5	2.4	0.2	0.2	2.4	0.0
Antrim	231	93.1	0.9	2.2	0.4	0.4	3.0	0.0
Arenac	287	94.1	0.7	3.1	0.3	0.0	1.7	0.0
Baraga	136	50.7	0.7	6.6	27.9	0.0	13.2	0.7
Barry	600	91.0	0.5	5.3	0.5	0.7	1.8	0.2
Bay	1,444	80.2	2.5	10.0	0.1	0.3	6.6	0.3
Benzie	226	87.2	0.0	8.4	0.4	0.0	4.0	0.0
Berrien	2,194	49.5	33.9	9.0	0.4	1.8	4.3	1.1
Branch	969	79.9	4.6	12.8	0.2	0.4	1.7	0.4
Calhoun	2,723	60.6	19.7	8.3	0.3	4.4	6.3	0.5
Cass	804	58.8	7.8	22.0	0.2	0.5	7.6	3.0
Charlevoix	267	88.0	0.0	3.4	0.0	0.0	8.6	0.0
Cheboygan	347	84.4	2.6	2.6	0.0	0.0	10.4	0.0
Chippewa	513	59.3	0.8	2.7	18.3	1.2	17.7	0.0
Clare	539	91.1	0.9	5.0	0.2	0.6	2.2	0.0
Clinton	382	83.8	1.6	10.7	0.0	0.3	3.4	0.3
Crawford	244	87.7	1.2	6.6	0.0	0.0	4.5	0.0
Delta	553	83.4	0.7	3.8	2.0	0.5	9.4	0.2
Dickinson	376	93.9	0.0	2.1	0.0	0.5	2.7	0.8
Eaton	686	83.2	5.1	8.2	0.0	1.9	1.6	0.0

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

(2) Excludes data with errors.

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

WIC PNSS & PedNSS

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Table 3B

2021 - 2023 Pregnancy Nutrition Surveillance ⁽¹⁾

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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	332	84.6	0.9	4.2	1.2	1.2	7.8	0.0
Genesee	7,274	49.6	37.0	6.5	0.0	0.3	6.2	0.3
Gladwin	378	93.9	0.3	2.4	0.0	0.5	2.6	0.3
Gogebic	171	82.5	3.5	1.8	3.5	0.6	7.6	0.6
Gr Travers	1,120	81.5	1.3	8.5	2.5	1.1	4.8	0.4
Gratiot	551	84.6	0.2	11.4	0.0	0.0	3.3	0.5
Hillsdale	643	91.9	0.3	3.7	0.3	0.2	3.0	0.6
Houghton	535	87.9	1.7	1.7	0.9	2.4	5.2	0.2
Huron	407	91.9	0.5	5.4	0.0	0.2	0.7	1.2
Ingham	5,325	42.2	27.8	15.9	0.2	5.6	8.1	0.2
Ionia	844	88.2	0.2	8.3	0.0	0.1	3.2	0.0
Iosco	381	90.6	0.3	3.1	0.3	0.0	5.5	0.3
Iron	169	89.9	0.0	4.7	0.0	0.0	3.6	1.8
Isabella	1,076	77.9	4.3	7.5	3.2	0.5	6.6	0.1
Jackson	2,696	71.7	13.6	7.2	0.1	0.7	6.6	0.1
Kalamazoo	3,480	45.9	34.5	10.3	0.1	0.9	7.6	0.7
Kalkaska	267	92.5	0.4	3.7	0.0	0.0	3.0	0.0
Kent	9,554	31.1	27.9	31.0	0.3	4.6	4.8	0.3
Lake	185	73.0	9.2	7.0	0.0	0.0	10.3	0.5
Lapeer	1,031	84.9	0.8	9.8	0.0	0.5	3.9	0.2
Leelanau	88	*	*	*	*	*	*	*
Lenawee	1,188	72.1	2.8	19.0	0.2	0.5	4.9	0.6
Livingston	999	88.4	1.5	4.7	0.1	1.4	2.9	1.0
Luce	117	78.6	0.0	2.6	6.0	0.0	12.8	0.0

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

(2) Excludes data with errors.

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

WIC PNSS & PedNSS

Run Date: 6/28/2024

Table 3B

2021 - 2023 Pregnancy Nutrition Surveillance ⁽¹⁾

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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	103	61.2	1.9	1.9	1.9	1.0	32.0	0.0
Macomb	9,674	48.5	32.5	5.1	0.1	9.2	4.3	0.3
Manistee	264	85.2	0.4	6.4	1.1	0.0	6.8	0.0
Marquette	655	87.2	1.4	2.9	2.7	0.0	5.0	0.8
Mason	381	77.7	1.3	12.9	0.3	0.5	6.6	0.8
Mecosta	754	87.5	2.8	4.2	0.4	0.3	4.2	0.5
Menominee	266	69.9	1.5	7.5	6.4	0.0	12.4	2.3
Midland	962	86.2	2.4	6.9	0.0	1.5	3.0	0.1
Missaukee	229	87.8	0.4	7.4	0.4	0.0	3.9	0.0
Monroe	1,857	80.8	6.5	7.5	0.0	0.1	4.1	0.9
Montcalm	971	91.1	0.3	6.9	0.0	0.0	1.4	0.2
Montmorenc	121	93.4	0.0	3.3	0.8	0.8	1.7	0.0
Muskegon	3,385	57.4	24.8	10.3	0.4	0.6	6.2	0.3
Newaygo	1,104	73.0	0.6	21.8	0.4	0.5	3.2	0.5
Oakland	10,400	40.0	41.2	12.2	0.1	2.7	3.5	0.3
Oceana	474	56.5	0.4	38.8	0.2	0.0	3.2	0.8
Ogemaw	371	92.5	0.8	2.7	0.0	0.0	3.8	0.3
Ontonagon	51	*	*	*	*	*	*	*
Osceola	452	93.1	0.4	2.7	0.4	0.2	2.9	0.2
Oscoda	127	93.7	0.8	2.4	0.0	0.0	3.1	0.0
Otsego	399	89.5	1.0	3.8	0.3	0.5	4.8	0.3
Ottawa	3,077	53.9	4.9	33.3	0.1	3.1	4.1	0.6
Presque Is	107	96.3	0.0	0.9	0.0	0.0	2.8	0.0
Roscommon	315	95.6	0.0	1.3	0.0	0.0	2.9	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

Run Date: 6/28/2024

Table 3B

2021 - 2023 Pregnancy Nutrition Surveillance ⁽¹⁾

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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	3,497	41.1	34.3	15.8	0.2	0.4	8.0	0.2
Sanilac	505	93.1	0.0	5.0	0.0	0.2	1.2	0.6
Schoolcraf	120	70.0	0.0	2.5	10.8	0.8	15.8	0.0
Shiawassee	1,048	90.7	0.4	4.5	0.0	0.1	3.8	0.5
St Clair	1,777	80.5	5.0	6.9	0.1	0.5	6.6	0.3
St Joseph	1,167	70.2	0.4	22.5	0.0	0.2	6.2	0.6
Tuscola	750	93.9	0.4	4.1	0.0	0.1	1.3	0.1
Van Buren	1,279	59.6	3.8	30.4	0.1	0.5	3.9	1.7
Washtenaw	3,245	37.4	37.2	13.4	0.1	3.5	7.8	0.5
Wayne	37,450	30.0	53.7	10.6	0.1	3.0	2.5	0.2
Wexford	641	90.5	1.1	3.7	0.0	0.3	4.2	0.2
Michigan	142,422	51.2	29.1	11.9	0.3	2.6	4.5	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

Run Date: 6/28/2024

Table 4B

2021 - 2023 Pregnancy Nutrition Surveillance ⁽¹⁾

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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	123	0.0	1.6	8.9	56.1	31.7	1.6	0.0
Alger	75	*	*	*	*	*	*	*
Allegan	1,358	0.0	1.7	6.1	58.5	31.2	1.7	0.7
Alpena	419	0.0	1.7	6.2	59.2	32.0	1.0	0.0
Antrim	231	0.0	1.7	6.1	68.0	23.8	0.4	0.0
Arenac	287	0.0	1.7	9.8	61.3	25.4	1.0	0.7
Baraga	136	0.0	2.2	8.8	57.4	30.1	1.5	0.0
Barry	600	0.0	2.2	6.7	64.5	24.0	0.8	1.8
Bay	1,444	0.0	2.6	8.0	59.5	28.1	1.0	0.7
Benzie	226	0.9	0.9	5.8	55.8	33.6	1.8	1.3
Berrien	2,194	0.2	2.5	8.9	59.8	25.3	1.9	1.5
Branch	969	0.0	1.7	6.9	62.0	24.8	3.8	0.8
Calhoun	2,723	0.0	2.1	7.5	61.4	25.7	1.8	1.5
Cass	804	0.1	2.2	7.7	60.8	25.2	1.7	2.1
Charlevoix	267	0.0	0.7	6.4	62.2	26.2	3.4	1.1
Cheboygan	347	0.3	2.0	6.9	63.4	26.5	0.6	0.3
Chippewa	513	0.0	1.8	5.1	62.4	28.8	0.8	1.2
Clare	539	0.4	1.7	9.3	62.3	24.5	0.9	0.9
Clinton	382	0.0	1.0	3.7	58.9	34.3	1.3	0.8
Crawford	244	0.0	1.2	11.1	61.9	23.4	2.5	0.0
Delta	553	0.2	0.4	6.3	62.9	28.2	1.8	0.2
Dickinson	376	0.3	0.3	5.1	62.2	31.1	1.1	0.0
Eaton	686	0.0	2.0	7.7	56.3	31.0	1.7	1.2
Emmet	332	0.0	1.2	7.2	56.0	33.1	2.4	0.0

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

(2) Excludes data with errors.

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

WIC PNSS & PedNSS

Run Date: 6/28/2024

Table 4B

2021 - 2023 Pregnancy Nutrition Surveillance (1)

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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	7,274	0.2	1.8	6.8	62.2	27.0	1.6	0.5
Gladwin	378	0.0	1.6	4.5	63.8	27.8	0.5	1.9
Gogebic	171	0.0	0.0	5.3	57.9	36.8	0.0	0.0
Gr Travers	1,120	0.1	1.1	5.6	59.6	31.4	1.8	0.4
Gratiot	551	0.0	1.8	8.0	61.9	26.0	2.0	0.4
Hillsdale	643	0.8	2.5	6.4	64.2	21.8	2.8	1.6
Houghton	535	0.0	1.1	7.7	60.7	27.9	2.4	0.2
Huron	407	0.0	0.7	2.9	60.7	33.7	1.2	0.7
Ingham	5,325	0.1	2.0	5.5	59.5	29.6	2.3	1.1
Ionia	844	0.2	1.7	6.4	62.8	26.1	1.7	1.2
Iosco	381	0.0	1.3	8.7	59.3	27.8	2.6	0.3
Iron	169	0.0	5.3	5.9	58.6	28.4	1.2	0.6
Isabella	1,076	0.1	1.6	6.9	63.6	25.1	2.0	0.7
Jackson	2,696	0.1	2.6	6.9	61.4	25.7	1.2	2.1
Kalamazoo	3,480	0.1	2.4	7.2	59.1	27.9	2.1	1.2
Kalkaska	267	0.0	3.0	9.0	56.9	28.1	1.9	1.1
Kent	9,554	0.1	1.8	5.7	57.2	31.1	2.9	1.1
Lake	185	0.0	2.2	7.0	60.0	28.1	1.6	1.1
Lapeer	1,031	0.0	1.4	5.8	60.2	30.0	1.6	1.0
Leelanau	88	*	*	*	*	*	*	*
Lenawee	1,188	0.0	1.0	6.5	64.0	26.5	1.2	0.8
Livingston	999	0.0	1.2	4.9	56.7	34.3	2.3	0.6
Luce	117	0.0	1.7	8.5	53.8	31.6	2.6	1.7
Mackinac	103	0.0	1.9	2.9	54.4	38.8	1.9	0.0

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

(2) Excludes data with errors.

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

WIC PNSS & PedNSS

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Table 4B

2021 - 2023 Pregnancy Nutrition Surveillance (1)

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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	9,674	0.0	0.8	3.5	55.9	37.0	2.4	0.4
Manistee	264	0.4	0.8	7.6	53.8	32.2	3.4	1.9
Marquette	655	0.0	1.7	4.7	63.1	28.5	2.0	0.0
Mason	381	0.0	1.6	7.9	63.3	24.4	0.8	2.1
Mecosta	754	0.0	2.0	7.3	64.3	23.7	2.0	0.7
Menominee	266	0.4	2.3	10.2	61.7	24.1	1.1	0.4
Midland	962	0.0	0.7	5.9	63.6	28.4	1.1	0.2
Missaukee	229	0.0	1.3	7.0	60.7	27.9	1.7	1.3
Monroe	1,857	0.0	1.2	6.5	64.1	26.1	1.4	0.6
Montcalm	971	0.0	2.5	7.4	61.7	25.7	1.4	1.2
Montmorenc	121	0.0	2.5	9.9	56.2	28.9	2.5	0.0
Muskegon	3,385	0.1	2.5	7.8	61.2	25.6	1.4	1.4
Newaygo	1,104	0.1	1.7	5.7	64.5	24.0	2.4	1.6
Oakland	10,400	0.0	1.1	4.5	54.9	36.0	2.8	0.5
Oceana	474	0.0	1.3	7.2	61.0	25.5	3.6	1.5
Ogemaw	371	0.3	2.2	7.5	61.7	26.4	1.1	0.8
Ontonagon	51	*	*	*	*	*	*	*
Osceola	452	0.0	2.4	6.9	66.8	20.4	1.5	2.0
Oscoda	127	0.0	3.9	7.1	60.6	27.6	0.0	0.8
Otsego	399	0.0	1.3	10.3	59.9	26.3	1.8	0.5
Ottawa	3,077	0.1	1.7	6.0	58.0	31.7	2.0	0.5
Presque Is	107	0.0	1.9	3.7	60.7	29.9	0.9	2.8
Roscommon	315	0.0	3.8	5.4	58.4	29.8	1.3	1.3
Saginaw	3,497	0.1	1.9	6.9	60.8	27.3	1.7	1.3

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

(2) Excludes data with errors.

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

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2021 - 2023 Pregnancy Nutrition Surveillance (1)

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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	505	0.0	2.2	6.7	63.8	25.7	1.0	0.6
Schoolcraf	120	0.0	2.5	5.0	66.7	23.3	2.5	0.0
Shiawassee	1,048	0.1	2.4	6.3	64.7	25.0	1.2	0.3
St Clair	1,777	0.0	1.6	7.5	61.5	26.6	1.6	1.2
St Joseph	1,167	0.0	2.8	6.9	62.6	24.0	2.1	1.5
Tuscola	750	0.0	1.9	6.1	65.6	23.6	1.6	1.2
Van Buren	1,279	0.1	1.8	6.0	62.0	26.0	2.2	2.0
Washtenaw	3,245	0.0	1.4	5.2	54.5	34.9	3.3	0.6
Wayne	37,450	0.1	1.7	5.2	55.4	34.0	3.0	0.6
Wexford	641	0.0	2.2	6.7	63.8	24.6	1.2	1.4
Michigan	142,422	0.1	1.7	5.9	58.4	30.8	2.3	0.8

(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.

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2021 - 2023 Pregnancy Nutrition Surveillance ⁽¹⁾

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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	99	*	*	55	*	*	7	*	15	*	112	7.1 (6)	112	14.3 (39)
Alger	54	*	*	25	*	*	4	*	16	*	67	*	67	*
Allegan	975	4.0 (29)	64.4 (61)	516	19.6 (44)	54.1 (35)	150	22.7 (1)	338	25.7 (16)	1,257	10.1 (50)	1,260	12.8 (23)
Alpena	379	5.5 (59)	60.9 (26)	157	15.3 (12)	59.9 (60)	28	*	37	*	385	10.6 (53)	386	17.6 (66)
Antrim	156	3.8 (23)	48.1 (1)	37	*	*	25	*	44	*	218	7.8 (11)	218	12.4 (17)
Arenac	250	2.8 (6)	64.4 (61)	197	21.3 (54)	47.7 (8)	24	*	28	*	279	8.6 (21)	279	15.8 (53)
Baraga	115	3.5 (12)	55.7 (5)	61	*	*	3	*	8	*	125	8.0 (16)	125	11.2 (9)
Barry	402	5.7 (66)	60.7 (22)	158	17.1 (26)	57.0 (50)	17	*	50	*	563	11.2 (62)	566	16.6 (60)
Bay	1,078	4.5 (41)	60.8 (25)	597	16.2 (19)	57.5 (55)	33	*	86	*	1,360	8.8 (23)	1,361	14.7 (44)
Benzie	183	5.5 (59)	51.4 (2)	106	14.2 (7)	46.2 (3)	9	*	36	*	209	5.3 (2)	209	13.4 (31)
Berrien	1,865	4.8 (45)	62.2 (41)	1,276	17.8 (30)	53.9 (34)	131	36.6 (8)	242	21.5 (10)	1,942	9.0 (25)	1,948	18.3 (68)
Branch	381	5.2 (57)	59.8 (17)	136	24.3 (60)	47.8 (9)	63	*	101	38.6 (24)	898	10.0 (45)	899	10.3 (5)
Calhoun	2,310	4.2 (32)	62.3 (42)	1,653	17.8 (30)	54.4 (38)	72	*	90	*	2,518	7.1 (6)	2,519	11.1 (8)
Cass	673	5.1 (52)	64.2 (59)	483	20.5 (50)	53.6 (33)	91	*	99	*	741	11.2 (62)	740	15.8 (53)
Charlevoix	168	3.6 (16)	56.5 (9)	43	*	*	34	*	57	*	255	9.4 (31)	255	16.9 (62)
Cheboygan	276	5.1 (52)	60.5 (20)	64	*	*	23	*	34	*	316	11.1 (60)	316	13.3 (29)
Chippewa	455	3.1 (7)	60.2 (19)	313	16.6 (23)	54.6 (41)	33	*	72	*	466	12.0 (72)	466	8.6 (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.

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

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2021 - 2023 Pregnancy Nutrition Surveillance ⁽¹⁾

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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	410	5.4 (58)	61.2 (31)	134	16.4 (21)	59.0 (58)	26	*	64	*	493	9.1 (27)	495	14.1 (37)
Clinton	336	3.9 (26)	69.0 (72)	215	11.2 (3)	55.3 (44)	12	*	27	*	357	14.8 (77)	358	11.7 (10)
Crawford	223	2.2 (3)	62.8 (46)	152	21.7 (56)	53.3 (30)	4	*	15	*	230	7.0 (5)	230	11.7 (10)
Delta	519	3.1 (7)	62.0 (38)	371	23.2 (58)	46.4 (4)	53	*	113	15.0 (3)	513	10.1 (50)	514	15.4 (50)
Dickinson	272	5.1 (52)	66.2 (67)	157	17.8 (30)	52.2 (23)	0	*	7	*	341	3.8 (1)	341	16.1 (57)
Eaton	419	4.8 (45)	63.2 (49)	122	21.3 (54)	47.5 (7)	13	*	39	*	631	10.6 (53)	632	15.8 (53)
Emmet	285	1.8 (1)	63.5 (51)	114	20.2 (48)	53.5 (32)	45	*	59	*	318	7.2 (8)	318	12.6 (19)
Genesee	5,203	4.5 (41)	61.2 (31)	2,456	19.7 (45)	52.9 (27)	129	41.1 (10)	415	28.2 (20)	6,673	9.4 (31)	6,682	17.3 (64)
Gladwin	333	4.8 (45)	60.7 (22)	227	19.8 (46)	48.0 (10)	31	*	46	*	353	9.9 (42)	355	16.1 (57)
Gogebic	138	2.2 (3)	60.9 (26)	81	*	*	11	*	20	*	149	11.4 (65)	149	10.7 (6)
Gr Travers	898	5.6 (62)	55.5 (4)	631	16.0 (18)	54.2 (37)	50	*	83	*	1,019	7.8 (11)	1,024	12.1 (13)
Gratiot	492	1.8 (1)	68.3 (71)	307	24.8 (62)	48.9 (12)	7	*	48	*	514	11.9 (71)	514	12.5 (18)
Hillsdale	563	4.3 (37)	61.1 (29)	414	15.5 (13)	54.1 (35)	40	*	74	*	587	9.9 (42)	589	8.5 (2)
Houghton	449	4.0 (29)	55.7 (5)	295	15.6 (15)	46.4 (4)	15	*	44	*	477	9.0 (25)	475	17.3 (64)
Huron	345	4.9 (48)	67.0 (69)	221	19.5 (42)	58.4 (57)	42	*	78	*	388	11.1 (60)	388	14.4 (41)
Ingham	4,397	3.5 (12)	61.4 (35)	2,810	17.3 (27)	55.5 (45)	136	34.6 (5)	152	17.8 (7)	5,060	7.7 (10)	5,064	13.0 (26)
Ionia	635	3.9 (26)	64.3 (60)	471	20.6 (51)	49.9 (14)	83	*	139	10.1 (2)	785	11.6 (66)	788	19.3 (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) 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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Michigan

Comparison of Maternal Health Indicators by County

Combined 3 Years

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	292	6.2 (69)	63.0 (48)	147	16.3 (20)	56.5 (49)	17	*	37	*	347	8.9 (24)	347	12.7 (21)
Iron	89	*	*	24	*	*	0	*	0	*	153	9.8 (41)	153	13.1 (28)
Isabella	907	4.5 (41)	63.7 (54)	562	13.5 (5)	57.1 (52)	57	*	118	20.3 (9)	1,006	11.8 (69)	1,007	17.2 (63)
Jackson	2,088	4.5 (41)	59.7 (16)	1,382	15.2 (11)	55.7 (47)	69	*	153	19.6 (8)	2,507	9.4 (31)	2,507	14.2 (38)
Kalamazoo	2,646	4.2 (32)	62.1 (40)	1,332	14.9 (10)	57.4 (54)	54	*	175	28.6 (21)	3,184	9.4 (31)	3,187	13.5 (34)
Kalkaska	235	5.1 (52)	55.7 (5)	171	11.7 (4)	60.2 (61)	8	*	20	*	245	7.8 (11)	246	13.0 (26)
Kent	5,107	3.6 (16)	60.9 (26)	1,991	24.5 (61)	45.2 (2)	1,146	35.6 (7)	2,388	23.2 (12)	8,913	9.5 (36)	8,927	18.4 (69)
Lake	160	6.3 (72)	56.9 (11)	117	17.9 (33)	55.6 (46)	2	*	9	*	168	10.7 (58)	168	20.8 (75)
Lapeer	876	4.9 (48)	61.2 (31)	656	18.6 (39)	50.9 (16)	26	*	55	*	973	6.3 (3)	975	11.9 (12)
Leelanau	59	*	*	30	*	*	6	*	5	*	77	*	77	*
Lenawee	996	3.7 (20)	61.7 (37)	653	15.6 (15)	52.2 (23)	46	*	128	26.6 (18)	1,050	9.7 (39)	1,050	16.4 (59)
Livingston	834	5.5 (59)	57.4 (12)	490	20.2 (48)	52.7 (25)	38	*	106	9.4 (1)	924	10.0 (45)	926	21.3 (77)
Luce	99	*	*	59	*	*	7	*	22	*	108	12.0 (72)	108	15.7 (51)
Mackinac	92	*	*	68	*	*	4	*	8	*	91	*	91	*
Macomb	8,643	3.3 (9)	62.8 (46)	6,844	18.4 (37)	51.2 (18)	277	33.6 (3)	1,189	26.8 (19)	9,078	10.6 (53)	9,080	12.8 (23)
Manistee	180	7.8 (73)	60.6 (21)	110	14.5 (9)	58.2 (56)	5	*	19	*	243	9.5 (36)	242	14.0 (36)
Marquette	540	4.4 (39)	56.7 (10)	349	18.1 (35)	61.3 (62)	5	*	38	*	601	9.3 (30)	603	12.8 (23)

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

(2) Excludes records with unknown data or errors.

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

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

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

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

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2021 - 2023 Pregnancy Nutrition Surveillance ⁽¹⁾

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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	350	2.6 (5)	67.1 (70)	256	17.6 (29)	47.3 (6)	8	*	23	*	350	11.7 (67)	351	17.9 (67)
Mecosta	499	4.4 (39)	63.9 (57)	142	15.5 (13)	52.1 (22)	6	*	37	*	709	10.6 (53)	709	20.9 (76)
Menominee	248	3.6 (16)	62.5 (44)	187	20.9 (53)	52.9 (27)	26	*	50	*	229	7.4 (9)	229	15.7 (51)
Midland	711	3.5 (12)	63.7 (54)	328	9.8 (2)	59.1 (59)	51	*	111	23.4 (13)	917	9.9 (42)	915	13.9 (35)
Missaukee	211	6.2 (69)	61.6 (36)	149	18.8 (40)	55.0 (43)	11	*	20	*	214	8.4 (19)	214	12.1 (13)
Monroe	1,728	4.9 (48)	65.1 (64)	1,338	19.1 (41)	53.1 (29)	55	*	137	16.1 (5)	1,700	8.6 (21)	1,702	18.7 (70)
Montcalm	845	3.8 (23)	63.4 (50)	597	13.7 (6)	57.0 (50)	21	*	80	*	908	10.6 (53)	909	16.6 (60)
Montmorenc	108	5.6 (62)	61.1 (29)	54	*	*	5	*	7	*	111	11.7 (67)	111	8.1 (1)
Muskegon	3,024	3.8 (23)	63.9 (57)	2,284	18.2 (36)	53.3 (30)	45	*	55	*	3,131	9.7 (39)	3,137	19.3 (72)
Newaygo	974	3.7 (20)	63.8 (56)	631	23.3 (59)	48.5 (11)	12	*	54	*	1,019	10.8 (59)	1,019	20.1 (74)
Oakland	8,489	4.3 (37)	60.7 (22)	5,173	16.7 (24)	52.0 (21)	290	44.8 (11)	777	30.2 (22)	9,531	7.8 (11)	9,535	13.3 (29)
Oceana	357	3.9 (26)	69.2 (73)	265	20.0 (47)	55.8 (48)	24	*	40	*	428	14.0 (76)	428	12.6 (19)
Ogemaw	305	3.3 (9)	65.9 (66)	157	9.6 (1)	62.4 (63)	27	*	40	*	349	9.2 (28)	350	16.0 (56)
Ontonagon	43	*	*	24	*	*	4	*	6	*	42	*	43	*
Osceola	256	5.1 (52)	59.8 (17)	146	14.4 (8)	54.8 (42)	14	*	54	*	422	10.0 (45)	423	15.1 (48)
Oscoda	94	*	*	32	*	*	6	*	22	*	116	7.8 (11)	116	14.7 (44)
Otsego	263	4.2 (32)	56.3 (8)	55	*	*	53	*	80	*	374	8.3 (18)	374	12.3 (16)

(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

Run Date: 6/28/2024

Table 5B

2021 - 2023 Pregnancy Nutrition Surveillance ⁽¹⁾

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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	1,311	5.6 (62)	55.0 (3)	368	15.8 (17)	51.6 (20)	296	34.5 (4)	658	24.9 (14)	2,828	10.0 (45)	2,831	10.7 (6)
Presque Is	89	*	*	27	*	*	5	*	11	*	98	*	98	*
Roscommon	288	5.6 (62)	58.0 (13)	93	*	*	17	*	15	*	297	11.8 (69)	298	18.8 (71)
Saginaw	2,482	3.6 (16)	65.0 (63)	1,421	18.0 (34)	51.5 (19)	84	*	181	26.5 (17)	3,320	9.4 (31)	3,320	14.3 (39)
Sanilac	186	5.9 (68)	58.6 (15)	29	*	*	16	*	58	*	463	8.2 (17)	463	13.4 (31)
Schoolcraf	118	3.4 (11)	66.9 (68)	87	*	*	11	*	16	*	115	13.0 (75)	115	12.2 (15)
Shiawassee	897	4.9 (48)	62.7 (45)	715	22.1 (57)	50.9 (16)	22	*	60	*	970	6.8 (4)	972	9.2 (4)
St Clair	1,667	4.2 (32)	63.5 (51)	1,306	16.5 (22)	54.4 (38)	81	*	241	31.5 (23)	1,587	9.5 (36)	1,592	15.1 (48)
St Joseph	949	6.2 (69)	61.2 (31)	400	17.3 (27)	57.3 (53)	73	*	127	15.7 (4)	1,045	10.0 (45)	1,046	13.4 (31)
Tuscola	571	4.2 (32)	63.6 (53)	330	18.5 (38)	50.0 (15)	37	*	51	*	720	11.3 (64)	720	14.7 (44)
Van Buren	1,014	3.5 (12)	65.4 (65)	312	33.3 (63)	41.7 (1)	163	31.3 (2)	222	16.7 (6)	1,159	12.6 (74)	1,160	14.6 (43)
Washtenaw	2,532	4.0 (29)	62.0 (38)	1,595	20.6 (51)	49.4 (13)	273	37.4 (9)	509	22.6 (11)	2,918	9.2 (28)	2,919	14.9 (47)
Wayne	27,099	3.7 (20)	62.3 (42)	16,469	16.9 (25)	54.4 (38)	650	35.5 (6)	2,035	25.4 (15)	34,966	8.5 (20)	34,985	12.7 (21)
Wexford	552	5.8 (67)	58.0 (13)	389	19.5 (42)	52.7 (25)	8	*	50	*	604	10.4 (52)	604	14.4 (41)
Michigan	107,908	4.0	62.0	65,438	17.9	53.1	5,611	33.3	13,095	23.8	131,970	9.1	132,088	14.3

(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.

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

WIC PNSS & PedNSS

Run Date: 6/28/2024

Table 6B

2021 - 2023 Pregnancy Nutrition Surveillance ⁽¹⁾

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Michigan

Comparison of Maternal Behavioral Indicators by County Combined 3 Years

Comparison of Maternal Behavioral Indicators ^(2,3)									
County	Medical Care			WIC Enrollment		Multivitamin Consumption			
	1st Trimester		No Care	1st Trimester		Prepregnancy ⁽⁴⁾		During Pregnancy ⁽⁵⁾	
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Alcona	106	88.7 (66)	2.8 (71)	120	30.0 (53)	121	30.6 (28)	85	*
Alger	66	*	*	75	*	73	*	58	*
Allegan	1,184	92.6 (36)	0.7 (19)	1,332	29.4 (57)	1,300	27.1 (46)	932	91.0 (46)
Alpena	366	94.5 (16)	0.5 (10)	401	26.4 (70)	402	27.6 (44)	285	95.1 (10)
Antrim	206	93.7 (24)	0.5 (10)	225	30.2 (50)	226	29.2 (32)	162	91.4 (41)
Arenac	258	93.4 (28)	1.6 (52)	280	36.1 (21)	279	24.7 (56)	224	84.8 (71)
Baraga	114	90.4 (58)	1.8 (57)	131	37.4 (18)	132	30.3 (29)	100	92.0 (34)
Barry	551	94.6 (14)	0.4 (8)	589	28.2 (65)	590	37.1 (16)	418	95.5 (7)
Bay	1,204	89.9 (61)	2.1 (62)	1,427	37.8 (16)	1,414	26.4 (50)	1,109	91.9 (36)
Benzie	194	92.3 (39)	1.0 (34)	222	32.0 (40)	220	39.1 (13)	160	92.5 (29)
Berrien	1,707	83.3 (74)	1.8 (57)	2,150	29.8 (55)	1,909	23.5 (61)	1,513	91.4 (41)
Branch	838	89.5 (64)	2.0 (60)	942	29.1 (60)	906	37.0 (17)	686	92.7 (26)
Calhoun	2,439	96.6 (5)	0.5 (10)	2,654	32.9 (33)	2,500	29.2 (32)	1,986	92.7 (26)
Cass	705	96.6 (5)	0.6 (14)	788	34.0 (30)	753	22.4 (64)	586	81.9 (73)
Charlevoix	249	90.8 (52)	1.2 (40)	263	21.7 (78)	263	42.6 (9)	187	90.4 (51)
Cheboygan	282	87.9 (70)	2.5 (68)	341	32.0 (40)	342	31.6 (23)	281	96.4 (3)
Chippewa	458	96.7 (3)	0.7 (19)	502	34.1 (28)	492	55.7 (3)	390	94.1 (14)
Clare	462	90.5 (57)	1.7 (55)	532	38.0 (14)	489	28.2 (38)	423	88.7 (64)
Clinton	333	92.8 (33)	0.6 (14)	374	31.6 (44)	296	43.6 (6)	271	94.8 (12)
Crawford	218	93.1 (31)	1.8 (57)	237	43.0 (6)	236	29.2 (32)	189	92.1 (32)
Delta	510	94.3 (17)	0.2 (4)	542	31.7 (43)	535	28.2 (38)	398	95.0 (11)

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

(2) Excludes records with unknown data or errors.

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

(4) 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

Run Date: 6/28/2024

Table 6B

2021 - 2023 Pregnancy Nutrition Surveillance ⁽¹⁾

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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	324	96.3 (7)	1.5 (51)	367	36.8 (19)	363	30.9 (26)	298	95.6 (6)
Eaton	619	91.4 (46)	1.3 (43)	676	25.9 (72)	661	31.5 (24)	472	93.6 (18)
Emmet	307	93.5 (27)	0.7 (19)	324	30.2 (50)	325	40.3 (11)	245	92.7 (26)
Genesee	6,216	90.1 (60)	0.7 (19)	7,134	25.4 (73)	5,944	20.0 (69)	5,235	92.3 (31)
Gladwin	314	88.2 (68)	3.8 (74)	374	38.0 (14)	367	32.4 (20)	293	89.4 (59)
Gogebic	149	94.0 (21)	1.3 (43)	169	30.2 (50)	162	43.2 (7)	114	97.4 (1)
Gr Travers	920	91.3 (47)	2.4 (67)	1,090	29.7 (56)	1,089	29.1 (35)	786	89.8 (57)
Gratiot	481	94.6 (14)	0.4 (8)	540	35.7 (24)	459	45.8 (5)	419	96.4 (3)
Hillsdale	572	94.9 (10)	0.3 (7)	622	26.2 (71)	620	46.3 (4)	448	94.2 (13)
Houghton	427	92.3 (39)	0.9 (28)	527	30.7 (48)	519	39.5 (12)	394	93.1 (22)
Huron	340	91.5 (45)	1.2 (40)	399	24.1 (76)	394	40.9 (10)	275	90.9 (48)
Ingham	4,398	90.7 (54)	1.0 (34)	5,246	28.3 (64)	5,026	13.2 (77)	3,878	90.3 (53)
Ionia	759	94.7 (13)	0.7 (19)	827	27.0 (68)	821	22.5 (63)	581	95.9 (5)
Iosco	325	90.2 (59)	0.9 (28)	367	32.4 (36)	366	24.6 (57)	277	89.9 (56)
Iron	136	94.9 (10)	2.2 (64)	165	46.7 (1)	155	68.4 (1)	138	91.3 (45)
Isabella	939	92.8 (33)	1.4 (47)	1,053	35.6 (25)	1,042	32.3 (21)	820	92.1 (32)
Jackson	2,253	91.7 (44)	1.6 (52)	2,660	37.6 (17)	2,637	23.8 (59)	2,049	89.3 (61)
Kalamazoo	2,950	91.0 (50)	0.9 (28)	3,407	31.6 (44)	3,328	19.7 (71)	2,500	88.6 (65)
Kalkaska	223	90.6 (56)	2.2 (64)	262	34.0 (30)	250	29.6 (31)	201	89.1 (62)
Kent	8,147	89.6 (62)	1.2 (40)	9,371	24.0 (77)	7,767	22.0 (65)	6,822	90.7 (50)
Lake	150	83.3 (74)	1.3 (43)	179	41.3 (10)	179	26.8 (47)	144	84.7 (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

Run Date: 6/28/2024

Table 6B

2021 - 2023 Pregnancy Nutrition Surveillance ⁽¹⁾

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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	874	92.1 (42)	1.4 (47)	1,007	32.6 (34)	1,003	27.8 (42)	740	94.1 (14)
Leelanau	73	*	*	84	*	78	*	63	*
Lenawee	1,006	93.0 (32)	0.2 (4)	1,162	28.6 (62)	1,157	20.3 (68)	839	93.0 (24)
Livingston	852	91.8 (43)	2.2 (64)	973	29.9 (54)	965	37.2 (15)	692	93.6 (18)
Luce	94	*	*	112	41.1 (11)	114	29.8 (30)	89	*
Mackinac	91	*	*	100	42.0 (8)	97	*	76	*
Macomb	8,629	93.9 (22)	0.7 (19)	9,418	24.9 (75)	7,452	13.0 (78)	6,623	95.3 (9)
Manistee	223	87.4 (71)	3.6 (73)	255	31.8 (42)	257	58.8 (2)	200	92.0 (34)
Marquette	542	93.4 (28)	2.0 (60)	634	35.6 (25)	543	27.8 (42)	499	95.4 (8)
Mason	304	91.1 (49)	1.3 (43)	370	33.2 (32)	367	26.4 (50)	285	91.9 (36)
Mecosta	651	96.2 (8)	0.6 (14)	739	46.4 (2)	715	18.9 (73)	579	89.6 (58)
Menominee	216	94.9 (10)	0.9 (28)	261	30.3 (49)	207	30.9 (26)	187	91.4 (41)
Midland	859	94.1 (20)	1.4 (47)	946	26.7 (69)	941	24.8 (55)	666	94.1 (14)
Missaukee	190	94.2 (18)	2.1 (62)	222	31.5 (46)	224	31.3 (25)	177	91.0 (46)
Monroe	1,610	92.5 (38)	1.0 (34)	1,826	28.1 (66)	1,608	27.2 (45)	1,288	93.2 (21)
Montcalm	840	94.2 (18)	0.5 (10)	949	29.3 (59)	834	42.9 (8)	701	96.7 (2)
Montmorenc	104	89.4 (65)	0.0 (1)	118	39.0 (13)	116	26.7 (48)	93	*
Muskegon	2,903	90.9 (51)	1.0 (34)	3,311	34.8 (27)	3,085	23.7 (60)	2,518	93.0 (24)
Newaygo	804	87.2 (72)	2.5 (68)	1,078	43.9 (4)	1,045	21.7 (66)	862	87.5 (69)
Oakland	9,058	93.7 (24)	0.7 (19)	10,151	25.1 (74)	9,070	24.4 (58)	7,127	91.9 (36)
Oceana	331	86.4 (73)	4.2 (75)	459	36.6 (20)	443	28.0 (40)	344	88.4 (66)

(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

Run Date: 6/28/2024

Table 6B

2021 - 2023 Pregnancy Nutrition Surveillance ⁽¹⁾

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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	332	92.2 (41)	0.9 (28)	364	36.0 (22)	360	19.7 (71)	281	93.6 (18)
Ontonagon	42	*	*	50	*	49	*	42	*
Osceola	345	88.1 (69)	3.5 (72)	446	43.7 (5)	438	16.2 (76)	360	91.4 (41)
Oscoda	112	93.8 (23)	0.0 (1)	124	41.9 (9)	125	28.8 (36)	99	*
Otsego	360	96.7 (3)	0.6 (14)	388	28.9 (61)	368	28.3 (37)	291	90.4 (51)
Ottawa	2,713	95.8 (9)	0.7 (19)	3,008	28.1 (66)	2,840	24.9 (54)	2,004	91.5 (39)
Presque Is	96	*	*	105	28.6 (62)	105	39.0 (14)	86	*
Roscommon	283	93.6 (26)	0.7 (19)	309	40.5 (12)	287	35.5 (18)	260	87.7 (68)
Saginaw	3,111	90.8 (52)	1.0 (34)	3,444	34.1 (28)	3,396	21.6 (67)	2,667	90.3 (53)
Sanilac	452	98.5 (1)	0.2 (4)	496	32.5 (35)	489	32.1 (22)	375	94.1 (14)
Schoolcraf	110	92.7 (35)	0.0 (1)	120	45.8 (3)	120	26.7 (48)	102	93.1 (22)
Shiawassee	932	96.8 (2)	0.6 (14)	1,027	32.1 (37)	269	34.9 (19)	736	85.1 (70)
St Clair	1,269	88.7 (66)	2.6 (70)	1,746	42.4 (7)	1,730	26.1 (52)	1,393	89.4 (59)
St Joseph	818	83.3 (74)	4.6 (76)	1,129	35.9 (23)	1,129	23.0 (62)	866	88.9 (63)
Tuscola	648	92.6 (36)	1.4 (47)	735	32.1 (37)	733	25.5 (53)	545	90.8 (49)
Van Buren	943	91.3 (47)	1.7 (55)	1,260	32.1 (37)	1,209	17.5 (75)	932	88.3 (67)
Washtenaw	2,762	93.3 (30)	1.0 (34)	3,170	29.4 (57)	3,131	18.2 (74)	2,375	92.4 (30)
Wayne	33,569	89.6 (62)	0.9 (28)	36,713	21.2 (79)	29,993	20.0 (69)	25,418	90.1 (55)
Wexford	548	90.7 (54)	1.6 (52)	624	31.1 (47)	620	27.9 (41)	460	91.5 (39)
Michigan	123,165	91.4	1.0	139,456	27.5	123,767	23.1	100,835	91.3

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

(2) Excludes records with unknown data or errors.

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

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

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

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

WIC PNSS & PedNSS

Run Date: 6/28/2024

Table 7B

2021 - 2023 Pregnancy Nutrition Surveillance ⁽¹⁾ Michigan Comparison of Smoking Indicators by County Combined 3 Years

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Comparison of Smoking Indicators (2,3)										
County	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (4)	Smoking in Household				
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy			Prenatal		Postpartum		
	Number	% (rank)	Number	% (rank)		Number	% (rank)	Number	% (rank)	
Alcona	85	*	104	18.3 (58)	24	*	85	*	112	7.1 (57)
Alger	58	*	65	*	22	*	58	*	69	*
Allegan	940	21.7 (17)	1,245	10.5 (19)	194	34.5 (29)	933	9.1 (26)	1,261	6.2 (46)
Alpena	285	37.2 (65)	375	18.9 (61)	96	*	285	11.9 (49)	386	4.1 (21)
Antrim	167	38.3 (68)	214	20.6 (69)	56	*	162	13.0 (55)	220	13.2 (74)
Arenac	224	29.9 (42)	275	16.7 (53)	64	*	224	20.1 (70)	278	13.3 (76)
Baraga	102	43.1 (71)	125	24.8 (73)	42	*	100	10.0 (35)	125	5.6 (40)
Barry	422	23.0 (26)	565	10.4 (18)	94	*	416	11.1 (38)	568	4.4 (26)
Bay	1,124	29.5 (39)	1,347	13.7 (40)	311	36.7 (26)	1,109	11.5 (42)	1,360	5.7 (42)
Benzie	162	35.8 (63)	203	12.8 (35)	55	*	161	6.2 (13)	209	6.7 (50)
Berrien	1,520	22.9 (25)	1,934	10.1 (17)	313	45.7 (12)	1,513	13.4 (58)	1,944	6.9 (54)
Branch	699	18.7 (10)	886	11.3 (25)	111	25.2 (36)	684	10.1 (36)	900	5.6 (40)
Calhoun	2,008	22.1 (20)	2,470	7.0 (9)	396	42.9 (19)	1,983	4.1 (4)	2,509	2.8 (10)
Cass	591	20.0 (12)	740	8.1 (12)	115	33.0 (31)	586	5.5 (10)	743	1.5 (1)
Charlevoix	191	22.0 (19)	252	11.9 (31)	39	*	187	11.2 (40)	255	6.3 (47)
Cheboygan	282	31.9 (52)	307	15.0 (48)	81	*	281	11.7 (47)	316	7.0 (55)
Chippewa	389	24.4 (31)	467	19.9 (66)	87	*	388	11.1 (38)	471	4.5 (27)
Clare	428	37.6 (67)	485	23.5 (72)	141	24.1 (38)	422	18.5 (67)	493	8.1 (62)
Clinton	273	30.0 (43)	353	13.0 (37)	74	*	271	6.6 (18)	359	3.9 (19)

(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.

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2021 - 2023 Pregnancy Nutrition Surveillance ⁽¹⁾

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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	192	29.7 (41)	226	18.1 (56)	53	*	189	14.8 (62)	232	8.6 (64)
Delta	408	32.6 (55)	511	20.4 (68)	120	27.5 (35)	396	11.6 (43)	514	6.0 (45)
Dickinson	302	29.5 (39)	336	14.6 (47)	76	*	297	3.0 (1)	341	2.1 (3)
Eaton	485	25.4 (34)	636	11.0 (22)	103	43.7 (16)	472	9.1 (26)	636	5.0 (33)
Emmet	248	25.0 (33)	314	13.7 (40)	60	*	243	9.5 (33)	314	4.1 (21)
Genesee	5,315	20.0 (12)	6,569	8.9 (16)	936	42.6 (20)	5,236	9.2 (28)	6,663	4.3 (24)
Gladwin	296	35.5 (62)	340	18.2 (57)	97	*	293	18.8 (69)	358	11.2 (69)
Gogebic	113	42.5 (70)	149	24.8 (73)	40	*	114	24.6 (73)	151	9.3 (66)
Gr Travers	811	32.1 (54)	1,000	13.2 (38)	230	43.0 (18)	786	9.4 (32)	1,030	6.3 (47)
Gratiot	420	33.8 (58)	489	12.3 (32)	137	41.6 (21)	418	11.7 (47)	515	7.4 (58)
Hillsdale	447	30.4 (46)	574	18.5 (59)	124	23.4 (40)	448	11.6 (43)	589	7.6 (60)
Houghton	398	31.4 (50)	478	19.7 (65)	113	35.4 (28)	394	7.1 (20)	481	3.3 (14)
Huron	283	30.0 (43)	387	15.0 (48)	79	*	275	12.0 (50)	387	4.7 (29)
Ingham	3,950	17.4 (9)	5,058	6.9 (7)	647	49.1 (5)	3,873	5.9 (11)	5,067	2.7 (9)
Ionia	594	27.6 (38)	762	14.4 (46)	149	24.8 (37)	580	12.1 (51)	789	3.8 (18)
Iosco	278	34.9 (61)	334	19.2 (64)	93	*	277	11.6 (43)	351	6.8 (52)
Iron	135	41.5 (69)	152	26.3 (76)	53	*	138	13.0 (55)	154	5.8 (43)
Isabella	820	22.4 (22)	995	12.6 (34)	179	31.8 (32)	821	9.3 (30)	1,005	5.5 (38)
Jackson	2,081	24.2 (30)	2,514	14.0 (43)	460	30.9 (33)	2,049	9.3 (30)	2,510	4.6 (28)

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

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

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

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Michigan

Comparison of Smoking Indicators by County

Combined 3 Years

Comparison of Smoking Indicators (2,3)										
County	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (4)	Smoking in Household				
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy			Prenatal		Postpartum		
	Number	% (rank)	Number	% (rank)		Number	% (rank)	Number	% (rank)	
Kalamazoo	2,526	19.6 (11)	3,156	8.8 (15)	449	37.6 (24)	2,496	6.3 (15)	3,191	3.7 (16)
Kalkaska	205	37.1 (64)	236	19.1 (63)	64	*	201	12.9 (54)	248	12.9 (72)
Kent	6,914	11.2 (4)	8,889	5.2 (4)	731	45.3 (13)	6,742	4.4 (7)	8,912	2.0 (2)
Lake	139	47.5 (74)	163	29.4 (77)	63	*	143	21.7 (72)	168	13.7 (77)
Lapeer	753	22.2 (21)	968	11.7 (28)	158	44.3 (14)	740	8.9 (24)	974	2.6 (8)
Leelanau	63	*	77	*	11	*	63	*	78	*
Lenawee	857	23.7 (28)	1,051	10.6 (21)	171	43.9 (15)	839	8.7 (23)	1,053	5.1 (36)
Livingston	704	24.0 (29)	905	8.2 (13)	153	49.0 (7)	692	7.1 (20)	927	4.1 (21)
Luce	85	*	106	17.9 (55)	31	*	89	*	106	13.2 (74)
Mackinac	78	*	90	*	16	*	75	*	92	*
Macomb	6,742	9.3 (1)	9,058	3.7 (3)	558	46.2 (11)	6,610	4.3 (5)	9,056	2.2 (5)
Manistee	205	33.2 (57)	236	18.6 (60)	58	*	200	13.0 (55)	245	8.6 (64)
Marquette	502	43.4 (72)	576	16.5 (52)	206	37.4 (25)	497	8.5 (22)	614	3.7 (16)
Mason	285	31.9 (52)	349	14.0 (43)	84	*	284	13.7 (60)	351	11.7 (71)
Mecosta	586	30.2 (45)	654	14.1 (45)	165	20.0 (41)	579	12.8 (53)	708	5.5 (38)
Menominee	191	31.4 (50)	227	18.9 (61)	50	*	187	13.9 (61)	229	7.0 (55)
Midland	677	26.9 (37)	888	11.0 (22)	165	34.5 (29)	665	6.0 (12)	916	3.1 (13)
Missaukee	177	20.3 (15)	214	13.6 (39)	33	*	177	11.3 (41)	216	8.3 (63)
Monroe	1,298	26.6 (36)	1,672	11.0 (22)	329	43.2 (17)	1,277	9.8 (34)	1,680	5.2 (37)

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

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

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

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WIC PNSS & PedNSS

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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	704	30.5 (48)	875	11.4 (26)	201	46.3 (10)	701	11.6 (43)	908	6.6 (49)
Montmorenc	94	*	107	23.4 (71)	34	*	93	*	111	17.1 (78)
Muskegon	2,555	21.7 (17)	3,113	10.5 (19)	505	35.6 (27)	2,521	9.2 (28)	3,160	4.7 (29)
Newaygo	870	22.4 (22)	1,008	12.5 (33)	178	30.3 (34)	861	6.3 (15)	1,009	4.8 (32)
Oakland	7,277	9.6 (2)	9,500	3.2 (2)	633	51.3 (3)	7,112	4.0 (2)	9,543	2.2 (5)
Oceana	345	20.3 (15)	427	11.7 (28)	63	*	344	6.4 (17)	427	3.0 (12)
Ogemaw	281	34.5 (59)	342	16.4 (51)	92	*	281	21.0 (71)	351	10.0 (67)
Ontonagon	42	*	42	*	10	*	42	*	43	*
Osceola	365	25.8 (35)	413	19.9 (66)	87	*	360	16.4 (65)	423	11.3 (70)
Oscoda	101	32.7 (56)	113	16.8 (54)	28	*	99	*	116	4.3 (24)
Otsego	293	30.4 (46)	373	16.1 (50)	80	*	291	18.6 (68)	378	7.4 (58)
Ottawa	2,049	17.0 (8)	2,807	5.4 (6)	320	46.6 (9)	1,997	4.0 (2)	2,838	2.3 (7)
Presque Is	87	*	97	*	16	*	86	*	100	5.0 (33)
Roscommon	260	37.3 (66)	286	23.1 (70)	91	*	260	17.7 (66)	299	10.0 (67)
Saginaw	2,681	24.5 (32)	3,267	8.3 (14)	624	50.6 (4)	2,664	10.7 (37)	3,323	5.0 (33)
Sanilac	379	12.7 (5)	456	7.7 (10)	45	*	374	6.7 (19)	463	3.9 (19)
Schoolcraf	102	47.1 (73)	111	25.2 (75)	45	*	102	15.7 (64)	115	13.0 (73)
Shiawassee	747	14.9 (6)	961	7.7 (10)	104	24.0 (39)	731	4.4 (7)	962	3.3 (14)
St Clair	1,404	34.5 (59)	1,572	11.8 (30)	421	46.8 (8)	1,393	13.4 (58)	1,603	6.7 (50)

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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)
St Joseph	867	23.0 (26)	1,035	11.4 (26)	175	39.4 (22)	864	9.0 (25)	1,045	5.8 (43)
Tuscola	554	31.2 (49)	718	13.9 (42)	169	49.1 (5)	545	15.2 (63)	721	6.8 (52)
Van Buren	940	20.2 (14)	1,123	6.9 (7)	176	38.1 (23)	932	5.3 (9)	1,165	4.7 (29)
Washtenaw	2,419	15.2 (7)	2,904	5.2 (4)	303	54.8 (2)	2,375	4.3 (5)	2,914	2.1 (3)
Wayne	25,885	10.6 (3)	35,000	3.1 (1)	2,452	61.0 (1)	25,390	6.2 (13)	35,038	2.8 (10)
Wexford	469	22.4 (22)	606	12.9 (36)	94	*	459	12.2 (52)	610	7.9 (61)
Michigan	102,357	17.7	131,072	7.4	16,505	43.2	100,645	7.4	132,152	3.8

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(2) Excludes records with unknown data or errors.

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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)
Alcona	104	5.8 (4)	8.7 (61)	107	13.1 (54)	90	*	104	71.2 (70)
Alger	63	*	*	66	*	55	*	63	*
Allegan	1,180	9.7 (42)	6.9 (28)	1,215	13.9 (62)	1,012	3.5 (23)	1,189	79.1 (50)
Alpena	370	10.3 (48)	7.3 (37)	375	12.5 (48)	313	5.1 (54)	370	75.9 (59)
Antrim	193	7.3 (18)	9.3 (67)	208	7.2 (1)	176	4.5 (41)	201	84.1 (14)
Arenac	263	6.8 (11)	6.5 (19)	267	8.2 (5)	237	2.5 (10)	261	76.6 (57)
Baraga	112	4.5 (1)	15.2 (76)	116	12.1 (44)	97	*	112	83.0 (24)
Barry	518	9.3 (35)	6.9 (28)	554	14.3 (68)	446	2.7 (11)	525	83.8 (18)
Bay	1,257	10.5 (50)	8.2 (55)	1,321	11.7 (37)	1,110	4.1 (36)	1,259	72.0 (68)
Benzie	199	7.0 (12)	9.0 (65)	202	7.9 (3)	182	4.9 (46)	199	89.4 (3)
Berrien	1,820	10.3 (48)	6.4 (17)	1,886	12.0 (42)	1,581	5.4 (59)	1,825	72.2 (67)
Branch	843	9.0 (31)	8.3 (58)	883	9.9 (12)	749	5.9 (66)	852	79.9 (43)
Calhoun	2,355	9.8 (44)	6.7 (27)	2,428	10.6 (20)	2,084	4.9 (46)	2,367	78.9 (51)
Cass	691	7.2 (16)	6.9 (28)	707	10.7 (23)	616	2.9 (15)	693	79.8 (45)
Charlevoix	203	9.4 (38)	8.9 (63)	247	11.7 (37)	180	3.9 (32)	237	84.0 (16)
Cheboygan	304	9.5 (40)	8.9 (63)	305	10.2 (14)	269	4.5 (41)	304	83.9 (17)
Chippewa	435	6.2 (7)	10.6 (73)	456	8.8 (6)	393	2.3 (8)	436	81.2 (31)
Clare	443	10.6 (54)	7.7 (47)	481	12.3 (47)	387	6.2 (68)	443	72.9 (63)
Clinton	340	15.6 (76)	7.4 (41)	347	17.9 (75)	277	4.7 (45)	342	88.0 (8)

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(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.

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2021 - 2023 Pregnancy Nutrition Surveillance ⁽¹⁾ Michigan Comparison of Infant Health Indicators by County Combined 3 Years

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Comparison of Infant Health Indicators ^(2,3)									
County	Birthweight			Preterm		Full Term LBW		Ever Breastfed	
	Low		High	(6)		(7)			
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Crawford	203	9.4 (38)	5.4 (3)	217	12.9 (50)	176	2.8 (14)	203	82.8 (25)
Delta	472	6.1 (6)	7.6 (44)	495	8.9 (8)	426	1.6 (3)	472	80.1 (41)
Dickinson	330	4.5 (1)	5.8 (9)	332	10.2 (14)	293	1.7 (5)	329	81.5 (28)
Eaton	604	12.6 (72)	7.3 (37)	627	14.5 (69)	515	5.0 (49)	611	83.5 (21)
Emmet	296	10.1 (45)	8.1 (54)	306	11.8 (40)	260	2.7 (11)	298	89.3 (5)
Genesee	6,381	12.9 (74)	5.7 (7)	6,555	13.7 (59)	5,470	6.2 (68)	6,396	65.2 (75)
Gladwin	324	7.7 (20)	6.5 (19)	335	11.6 (33)	286	3.5 (23)	324	81.5 (28)
Gogebic	139	5.8 (4)	6.5 (19)	147	10.2 (14)	124	1.6 (3)	142	72.5 (65)
Gr Travers	961	8.9 (30)	9.9 (70)	991	11.3 (28)	844	4.0 (33)	970	90.2 (1)
Gratiot	475	8.4 (25)	6.1 (13)	489	11.2 (27)	419	2.4 (9)	476	81.1 (34)
Hillsdale	549	10.7 (57)	5.8 (9)	564	15.4 (72)	456	5.0 (49)	548	80.3 (38)
Houghton	449	6.2 (7)	8.0 (52)	471	10.6 (20)	402	2.7 (11)	452	89.8 (2)
Huron	365	7.4 (19)	9.9 (70)	375	10.7 (23)	325	1.5 (1)	364	80.2 (39)
Ingham	4,711	10.7 (57)	6.1 (13)	4,901	13.2 (55)	4,086	4.0 (33)	4,751	82.4 (26)
Ionia	744	8.5 (26)	7.4 (41)	769	11.3 (28)	655	3.4 (20)	746	87.3 (9)
Iosco	321	11.2 (61)	10.6 (73)	329	11.6 (33)	278	5.0 (49)	319	73.4 (62)
Iron	141	10.6 (54)	8.5 (59)	148	15.5 (73)	121	1.7 (5)	138	84.1 (14)
Isabella	942	9.3 (35)	8.2 (55)	978	9.5 (10)	852	5.0 (49)	946	81.0 (35)
Jackson	2,335	11.5 (64)	7.5 (43)	2,435	12.6 (49)	2,038	5.2 (55)	2,344	77.6 (54)

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2021 - 2023 Pregnancy Nutrition Surveillance ⁽¹⁾

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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		High	(6)		(7)			
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Kalamazoo	2,957	11.4 (63)	6.6 (25)	3,089	12.9 (50)	2,561	5.0 (49)	2,980	77.5 (55)
Kalkaska	232	10.8 (60)	7.3 (37)	242	11.6 (33)	203	3.0 (16)	231	88.7 (7)
Kent	8,365	12.5 (70)	5.6 (5)	8,718	14.7 (70)	7,124	5.5 (61)	8,486	77.7 (53)
Lake	152	11.8 (67)	6.6 (25)	159	13.8 (61)	125	7.2 (71)	152	79.6 (47)
Lapeer	898	8.7 (29)	7.8 (51)	933	12.1 (44)	782	4.1 (36)	900	79.9 (43)
Leelanau	69	*	*	74	*	64	*	70	*
Lenawee	992	9.0 (31)	6.4 (17)	1,036	11.4 (30)	879	3.6 (27)	991	79.4 (48)
Livingston	882	11.5 (64)	6.5 (19)	900	13.9 (62)	756	4.5 (41)	881	83.7 (19)
Luce	97	*	*	96	*	85	*	96	*
Mackinac	85	*	*	89	*	80	*	85	*
Macomb	8,608	12.2 (69)	5.1 (2)	8,749	14.0 (65)	7,310	5.7 (63)	8,656	72.3 (66)
Manistee	219	10.5 (50)	8.2 (55)	233	15.0 (71)	186	3.8 (31)	219	81.3 (30)
Marquette	587	8.0 (22)	7.2 (35)	590	10.0 (13)	521	4.0 (33)	590	80.8 (36)
Mason	328	7.0 (12)	7.6 (44)	334	10.2 (14)	290	3.1 (17)	331	80.4 (37)
Mecosta	664	9.6 (41)	7.7 (47)	679	11.5 (32)	581	4.3 (39)	666	82.0 (27)
Menominee	221	7.2 (16)	7.2 (35)	226	10.6 (20)	196	4.1 (36)	220	70.9 (71)
Midland	857	8.3 (24)	9.2 (66)	890	10.3 (18)	769	3.3 (19)	859	79.7 (46)
Missaukee	194	6.2 (7)	5.7 (7)	208	9.1 (9)	174	3.4 (20)	195	89.2 (6)
Monroe	1,613	9.1 (33)	7.0 (33)	1,653	11.0 (25)	1,434	3.7 (28)	1,612	71.7 (69)

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(5) >4000 g.

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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		High	(6)		(7)			
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Montcalm	857	10.5 (50)	5.5 (4)	883	13.0 (52)	735	3.5 (23)	861	85.4 (11)
Montmorenc	103	10.7 (57)	8.7 (61)	105	9.5 (10)	91	*	105	86.7 (10)
Muskegon	2,961	11.6 (66)	6.5 (19)	3,058	13.7 (59)	2,529	5.2 (55)	2,971	70.2 (72)
Newaygo	939	10.6 (54)	7.3 (37)	964	13.3 (56)	804	5.2 (55)	941	83.6 (20)
Oakland	8,921	12.5 (70)	5.9 (12)	9,277	13.6 (58)	7,643	5.7 (63)	9,044	76.3 (58)
Oceana	406	10.1 (45)	7.1 (34)	405	12.1 (44)	353	5.4 (59)	409	80.2 (39)
Ogemaw	326	7.1 (15)	9.5 (68)	335	8.1 (4)	299	5.7 (63)	326	77.0 (56)
Ontonagon	41	*	*	42	*	33	*	41	*
Osceola	399	10.5 (50)	6.5 (19)	408	12.0 (42)	347	5.5 (61)	398	81.2 (31)
Oscoda	105	8.6 (28)	12.4 (75)	110	18.2 (76)	86	*	105	80.0 (42)
Otsego	320	6.6 (10)	6.9 (28)	361	7.8 (2)	291	3.1 (17)	351	84.6 (13)
Ottawa	2,521	11.2 (61)	7.7 (47)	2,749	13.9 (62)	2,158	3.7 (28)	2,675	83.4 (22)
Presque Is	94	*	*	95	*	78	*	94	*
Roscommon	275	8.0 (22)	7.6 (44)	283	8.8 (6)	248	5.2 (55)	275	79.3 (49)
Saginaw	3,123	12.7 (73)	5.6 (5)	3,214	14.0 (65)	2,686	4.9 (46)	3,125	68.7 (73)
Sanilac	429	9.1 (33)	5.8 (9)	454	11.7 (37)	373	4.6 (44)	441	66.0 (74)
Schoolcraf	106	8.5 (26)	8.5 (59)	114	16.7 (74)	89	*	106	72.6 (64)
Shiawassee	915	7.7 (20)	6.3 (15)	951	10.5 (19)	816	3.4 (20)	919	73.6 (61)
St Clair	1,498	9.3 (35)	7.7 (47)	1,542	11.8 (40)	1,321	3.7 (28)	1,501	73.7 (60)

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

(2) Excludes records with unknown data or errors.

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

(4) <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

Run Date: 6/28/2024

Table 8B

2021 - 2023 Pregnancy Nutrition Surveillance (1)

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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)
St Joseph	981	7.0 (12)	10.1 (72)	1,013	11.6 (33)	858	2.2 (7)	988	83.2 (23)
Tuscola	676	5.2 (3)	8.0 (52)	702	11.1 (26)	604	1.5 (1)	677	81.2 (31)
Van Buren	1,059	9.7 (42)	6.9 (28)	1,124	11.4 (30)	932	4.3 (39)	1,085	78.1 (52)
Washtenaw	2,692	12.1 (68)	6.3 (15)	2,816	13.5 (57)	2,316	5.9 (66)	2,736	85.1 (12)
Wayne	32,454	13.1 (75)	4.4 (1)	34,046	14.1 (67)	27,628	6.6 (70)	33,057	61.9 (76)
Wexford	575	10.1 (45)	9.6 (69)	583	13.0 (52)	490	3.5 (23)	577	89.4 (3)
Michigan	123,246	11.5	6.0	128,228	13.2	106,221	5.2	124,658	49.0

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

(2) Excludes records with unknown data or errors.

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

(4) <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.