

WIC PNSS & PedNSS

Run Date: 5/29/2024

Table 3B

2022 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	36	*	*	*	*	*	*	*
Alger	16	*	*	*	*	*	*	*
Allegan	481	75.9	2.1	17.0	0.0	0.2	4.6	0.2
Alpena	146	94.5	0.0	2.7	0.0	0.7	2.1	0.0
Antrim	79	*	*	*	*	*	*	*
Arenac	89	*	*	*	*	*	*	*
Baraga	50	*	*	*	*	*	*	*
Barry	198	92.4	0.5	4.5	0.5	0.0	2.0	0.0
Bay	495	81.6	2.2	8.9	0.2	0.2	6.5	0.4
Benzie	71	*	*	*	*	*	*	*
Berrien	734	51.6	30.4	9.1	0.5	1.6	5.6	1.1
Branch	303	82.5	5.0	9.2	0.3	1.0	1.7	0.3
Calhoun	930	61.9	19.9	7.4	0.2	3.8	6.6	0.2
Cass	279	60.6	8.6	21.5	0.4	0.4	6.5	2.2
Charlevoix	88	*	*	*	*	*	*	*
Cheboygan	130	82.3	3.8	3.1	0.0	0.0	10.8	0.0
Chippewa	172	59.9	0.6	1.2	20.9	0.6	16.9	0.0
Clare	194	89.7	1.5	6.7	0.0	0.5	1.5	0.0
Clinton	134	85.1	0.0	10.4	0.0	0.0	3.7	0.7
Crawford	76	*	*	*	*	*	*	*
Delta	170	85.9	0.6	5.3	1.8	0.0	5.9	0.6
Dickinson	121	95.0	0.0	2.5	0.0	1.7	0.8	0.0
Eaton	248	81.0	6.9	8.5	0.0	2.8	0.8	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	108	88.0	1.9	3.7	1.9	0.0	4.6	0.0
Genesee	2,470	52.1	35.1	6.7	0.0	0.2	5.6	0.3
Gladwin	124	96.0	0.0	0.8	0.0	0.0	3.2	0.0
Gogebic	55	*	*	*	*	*	*	*
Gr Travers	368	81.0	1.1	9.2	1.6	0.8	5.7	0.5
Gratiot	183	85.2	0.0	10.9	0.0	0.0	3.8	0.0
Hillsdale	200	90.5	0.0	5.0	1.0	0.0	3.5	0.0
Houghton	171	85.4	2.9	2.3	0.0	1.2	7.6	0.6
Huron	135	89.6	0.7	5.9	0.0	0.7	1.5	1.5
Ingham	1,830	42.7	26.7	16.6	0.1	6.0	7.7	0.2
Ionia	277	89.9	0.0	6.5	0.0	0.0	3.6	0.0
Iosco	124	87.1	0.0	4.8	0.0	0.0	8.1	0.0
Iron	63	*	*	*	*	*	*	*
Isabella	376	79.0	4.5	7.7	4.5	0.8	3.5	0.0
Jackson	887	72.7	12.1	7.4	0.1	0.5	7.1	0.1
Kalamazoo	1,098	47.2	35.1	9.3	0.0	1.0	6.9	0.5
Kalkaska	92	*	*	*	*	*	*	*
Kent	3,183	31.5	27.8	30.8	0.3	4.7	4.6	0.3
Lake	70	*	*	*	*	*	*	*
Lapeer	325	84.3	0.9	9.5	0.0	0.6	4.6	0.0
Leelanau	25	*	*	*	*	*	*	*
Lenawee	408	72.1	2.2	18.9	0.5	0.7	5.1	0.5
Livingston	338	88.8	2.1	3.0	0.0	1.5	3.8	0.9

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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	38	*	*	*	*	*	*	*
Mackinac	39	*	*	*	*	*	*	*
Macomb	3,293	47.9	32.8	5.2	0.1	9.2	4.6	0.2
Manistee	79	*	*	*	*	*	*	*
Marquette	230	87.0	0.9	2.6	3.5	0.0	4.8	1.3
Mason	134	84.3	0.0	9.7	0.0	0.0	6.0	0.0
Mecosta	246	85.0	4.9	3.3	0.8	0.4	5.3	0.4
Menominee	89	*	*	*	*	*	*	*
Midland	327	84.7	2.8	7.6	0.0	0.6	4.3	0.0
Missaukee	80	*	*	*	*	*	*	*
Monroe	664	82.5	6.8	6.9	0.0	0.2	2.9	0.8
Montcalm	318	93.4	0.0	5.3	0.0	0.0	0.9	0.3
Montmorenc	41	*	*	*	*	*	*	*
Muskegon	1,167	57.8	24.9	10.9	0.4	0.4	5.5	0.1
Newaygo	401	75.8	0.7	20.0	0.2	0.2	2.5	0.5
Oakland	3,515	39.4	41.9	12.4	0.1	2.6	3.3	0.2
Oceana	149	48.3	0.0	45.0	0.0	0.0	4.0	2.7
Ogemaw	113	96.5	0.9	0.9	0.0	0.0	1.8	0.0
Ontonagon	16	*	*	*	*	*	*	*
Osceola	151	92.1	0.0	3.3	1.3	0.0	3.3	0.0
Oscoda	42	*	*	*	*	*	*	*
Otsego	131	89.3	1.5	3.8	0.0	0.0	4.6	0.8
Ottawa	1,043	54.7	5.2	33.6	0.0	2.4	3.6	0.5

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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	36	*	*	*	*	*	*	*
Roscommon	103	97.1	0.0	0.0	0.0	0.0	2.9	0.0
Saginaw	1,120	41.6	29.9	16.5	0.4	0.4	11.1	0.1
Sanilac	180	92.8	0.0	5.6	0.0	0.0	1.7	0.0
Schoolcraf	37	*	*	*	*	*	*	*
Shiawassee	366	92.9	0.3	3.8	0.0	0.0	2.7	0.3
St Clair	629	80.1	5.2	5.1	0.0	0.5	8.6	0.5
St Joseph	417	69.8	0.0	24.0	0.0	0.2	5.0	1.0
Tuscola	251	92.8	0.8	4.8	0.0	0.0	1.6	0.0
Van Buren	416	60.3	3.1	29.6	0.0	0.2	5.0	1.7
Washtenaw	1,109	38.4	37.2	13.0	0.0	3.5	7.3	0.5
Wayne	12,557	30.2	53.4	10.4	0.1	3.1	2.7	0.2
Wexford	208	89.4	1.4	3.4	0.0	0.0	5.3	0.5
Michigan	47,919	51.7	28.7	11.8	0.4	2.6	4.6	0.3
National (Prior Year)	66,073	48.2	27.8	15.1	1.9	2.8	4.0	0.3

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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 %
Alcona	36	*	*	*	*	*	*	*
Alger	16	*	*	*	*	*	*	*
Allegan	481	0.0	1.0	6.0	60.3	29.3	2.7	0.6
Alpena	146	0.0	2.1	7.5	57.5	32.9	0.0	0.0
Antrim	79	*	*	*	*	*	*	*
Arenac	89	*	*	*	*	*	*	*
Baraga	50	*	*	*	*	*	*	*
Barry	198	0.0	1.5	7.1	68.7	19.7	1.0	2.0
Bay	495	0.0	3.2	9.3	57.6	27.7	1.0	1.2
Benzie	71	*	*	*	*	*	*	*
Berrien	734	0.0	2.2	9.8	56.5	27.7	2.0	1.8
Branch	303	0.0	1.0	7.9	61.1	26.1	3.3	0.7
Calhoun	930	0.0	2.8	8.0	59.9	26.8	1.5	1.1
Cass	279	0.0	2.5	6.5	63.4	25.4	0.4	1.8
Charlevoix	88	*	*	*	*	*	*	*
Cheboygan	130	0.0	1.5	6.9	63.8	26.9	0.8	0.0
Chippewa	172	0.0	1.7	5.2	61.6	30.2	0.6	0.6
Clare	194	0.5	1.0	8.2	64.9	24.2	0.5	0.5
Clinton	134	0.0	2.2	3.7	56.7	35.1	1.5	0.7
Crawford	76	*	*	*	*	*	*	*
Delta	170	0.0	0.0	7.6	61.8	28.8	1.8	0.0
Dickinson	121	0.8	0.0	5.0	60.3	32.2	1.7	0.0
Eaton	248	0.0	2.8	10.1	54.8	28.2	2.4	1.6
Emmet	108	0.0	0.9	4.6	54.6	37.0	2.8	0.0

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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 %
Genesee	2,470	0.2	1.7	6.7	62.4	27.0	1.5	0.5
Gladwin	124	0.0	0.8	6.5	64.5	27.4	0.0	0.8
Gogebic	55	*	*	*	*	*	*	*
Gr Travers	368	0.3	1.6	5.2	55.7	35.3	1.9	0.0
Gratiot	183	0.0	2.2	8.7	63.9	21.3	3.3	0.5
Hillsdale	200	0.5	4.0	7.0	59.0	24.5	4.0	1.0
Houghton	171	0.0	1.2	9.4	63.7	23.4	2.3	0.0
Huron	135	0.0	0.7	5.2	62.2	30.4	1.5	0.0
Ingham	1,830	0.1	1.7	5.4	60.5	29.4	2.0	0.9
Ionia	277	0.4	1.4	5.4	63.2	27.1	1.4	1.1
Iosco	124	0.0	1.6	9.7	54.8	31.5	2.4	0.0
Iron	63	*	*	*	*	*	*	*
Isabella	376	0.3	1.6	4.8	63.8	26.9	1.9	0.8
Jackson	887	0.2	2.4	6.8	61.7	26.5	1.2	1.2
Kalamazoo	1,098	0.1	2.0	8.3	58.2	28.0	2.6	0.9
Kalkaska	92	*	*	*	*	*	*	*
Kent	3,183	0.2	1.4	5.7	57.3	31.2	3.1	1.2
Lake	70	*	*	*	*	*	*	*
Lapeer	325	0.0	0.6	4.9	64.0	28.3	1.2	0.9
Leelanau	25	*	*	*	*	*	*	*
Lenawee	408	0.0	1.0	5.4	63.7	27.5	1.0	1.5
Livingston	338	0.0	0.9	3.8	58.6	33.7	2.1	0.9
Luce	38	*	*	*	*	*	*	*
Mackinac	39	*	*	*	*	*	*	*

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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 %
Macomb	3,293	0.0	0.8	3.3	56.0	37.1	2.6	0.2
Manistee	79	*	*	*	*	*	*	*
Marquette	230	0.0	0.9	4.8	63.0	29.1	2.2	0.0
Mason	134	0.0	0.7	8.2	66.4	22.4	0.7	1.5
Mecosta	246	0.0	2.0	8.5	64.2	23.6	1.6	0.0
Menominee	89	*	*	*	*	*	*	*
Midland	327	0.0	0.6	4.3	66.4	27.8	0.9	0.0
Missaukee	80	*	*	*	*	*	*	*
Monroe	664	0.0	1.2	6.6	64.8	25.3	1.4	0.8
Montcalm	318	0.0	2.2	8.2	68.6	19.2	0.3	1.6
Montmorenc	41	*	*	*	*	*	*	*
Muskegon	1,167	0.0	2.7	7.7	61.1	26.3	1.5	0.8
Newaygo	401	0.0	1.7	5.2	65.1	24.9	1.2	1.7
Oakland	3,515	0.0	0.9	4.3	55.3	36.3	2.9	0.4
Oceana	149	0.0	2.7	7.4	63.1	20.1	3.4	3.4
Ogemaw	113	0.0	1.8	10.6	60.2	24.8	1.8	0.9
Ontonagon	16	*	*	*	*	*	*	*
Osceola	151	0.0	1.3	4.6	67.5	25.2	0.7	0.7
Oscoda	42	*	*	*	*	*	*	*
Otsego	131	0.0	0.8	7.6	60.3	29.0	2.3	0.0
Ottawa	1,043	0.1	2.3	6.7	58.1	30.8	1.4	0.6
Presque Is	36	*	*	*	*	*	*	*
Roscommon	103	0.0	4.9	4.9	63.1	24.3	1.0	1.9
Saginaw	1,120	0.3	1.3	7.6	60.4	27.7	1.7	1.1

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2022 Pregnancy Nutrition Surveillance (1)
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	180	0.0	1.7	6.1	66.1	25.6	0.6	0.0
Schoolcraf	37	*	*	*	*	*	*	*
Shiawassee	366	0.3	2.2	6.0	64.5	25.4	1.6	0.0
St Clair	629	0.0	1.3	9.2	59.6	27.8	1.1	1.0
St Joseph	417	0.0	1.9	8.4	61.9	24.9	2.4	0.5
Tuscola	251	0.0	2.0	6.0	65.7	23.9	2.0	0.4
Van Buren	416	0.0	1.9	6.5	59.1	29.1	1.0	2.4
Washtenaw	1,109	0.0	1.5	5.0	55.5	34.4	3.2	0.4
Wayne	12,557	0.1	1.7	5.0	55.7	33.9	3.0	0.6
Wexford	208	0.0	2.4	6.7	63.5	23.6	1.9	1.9
Michigan	47,924	0.1	1.6	5.9	58.5	30.8	2.3	0.7
National (Prior Year)	66,076	0.1	2.1	6.2	58.9	30.1	2.4	0.3

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WIC PNSS & PedNSS

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2022 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	32	*	*	18	*	*	2	*	1	*	32	*	32	*
Alger	8	*	*	5	*	*	2	*	3	*	15	*	15	*
Allegan	327	5.5 (42)	65.4 (44)	180	19.4 (19)	53.3 (24)	69	*	140	28.6 (4)	443	10.2 (36)	444	14.0 (22)
Alpena	132	6.8 (49)	56.1 (3)	48	*	*	9	*	9	*	131	9.2 (22)	131	13.0 (16)
Antrim	59	*	*	13	*	*	11	*	13	*	75	*	75	*
Arenac	79	*	*	60	*	*	8	*	15	*	88	*	88	*
Baraga	42	*	*	29	*	*	0	*	2	*	47	*	47	*
Barry	131	5.3 (38)	64.1 (38)	55	*	*	4	*	2	*	187	13.4 (53)	188	18.6 (51)
Bay	352	6.5 (48)	58.5 (8)	160	12.5 (4)	54.4 (29)	10	*	17	*	471	8.5 (16)	471	14.4 (26)
Benzie	61	*	*	31	*	*	3	*	17	*	70	*	70	*
Berrien	647	4.5 (30)	61.8 (21)	451	18.4 (16)	51.9 (18)	28	*	72	*	645	9.0 (20)	646	17.8 (46)
Branch	135	5.9 (44)	59.3 (10)	58	*	*	12	*	27	*	285	9.5 (26)	285	9.8 (6)
Calhoun	782	4.2 (22)	63.4 (32)	566	19.8 (24)	53.2 (22)	12	*	6	*	858	5.6 (2)	859	11.2 (9)
Cass	235	5.1 (35)	63.8 (36)	164	22.0 (26)	55.5 (31)	37	*	39	*	262	12.6 (50)	262	19.8 (55)
Charlevoix	58	*	*	9	*	*	14	*	20	*	85	*	85	*
Cheboygan	105	3.8 (18)	61.0 (18)	28	*	*	8	*	12	*	115	15.7 (57)	115	11.3 (10)
Chippewa	160	3.8 (18)	58.1 (6)	107	26.2 (34)	50.5 (12)	16	*	24	*	157	11.5 (45)	157	7.0 (2)

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

(2) Excludes records with unknown data or errors.

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

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

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

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

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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	143	4.2 (22)	60.1 (12)	37	*	*	6	*	20	*	177	9.6 (29)	177	14.7 (29)
Clinton	113	4.4 (29)	66.4 (48)	71	*	*	5	*	3	*	127	11.0 (40)	127	11.0 (8)
Crawford	70	*	*	48	*	*	1	*	3	*	71	*	71	*
Delta	156	5.1 (35)	64.1 (38)	106	26.4 (35)	42.5 (1)	16	*	38	*	158	11.4 (44)	158	16.5 (40)
Dickinson	89	*	*	47	*	*	0	*	0	*	110	2.7 (1)	110	16.4 (39)
Eaton	139	4.3 (27)	60.4 (13)	43	*	*	2	*	0	*	230	13.9 (54)	231	14.7 (29)
Emmet	93	*	*	37	*	*	18	*	18	*	107	6.5 (6)	107	9.3 (4)
Genesee	1,765	3.3 (11)	62.9 (30)	887	19.7 (23)	53.9 (27)	10	*	17	*	2,294	9.5 (26)	2,296	17.7 (44)
Gladwin	109	2.8 (7)	60.6 (14)	66	*	*	15	*	16	*	117	6.8 (8)	117	19.7 (53)
Gogebic	45	*	*	29	*	*	3	*	7	*	50	*	50	*
Gr Travers	298	5.4 (39)	54.0 (1)	211	12.3 (3)	55.9 (32)	10	*	18	*	341	6.7 (7)	342	13.7 (20)
Gratiot	161	0.6 (1)	63.4 (32)	92	*	*	0	*	3	*	171	12.3 (49)	171	11.7 (11)
Hillsdale	184	4.9 (32)	59.8 (11)	135	15.6 (7)	53.3 (24)	11	*	26	*	188	5.9 (3)	188	6.4 (1)
Houghton	144	6.3 (46)	56.3 (4)	95	*	*	2	*	2	*	157	11.5 (45)	157	17.2 (43)
Huron	110	2.7 (5)	70.9 (51)	78	*	*	18	*	25	*	126	14.3 (56)	126	15.9 (36)
Ingham	1,482	3.6 (14)	60.6 (14)	840	16.8 (10)	53.0 (21)	28	*	18	*	1,747	6.9 (9)	1,748	13.0 (16)
Ionia	204	5.4 (39)	62.7 (29)	146	23.3 (30)	47.3 (6)	23	*	42	*	254	14.2 (55)	254	18.9 (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) 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	101	6.9 (50)	64.4 (41)	51	*	*	5	*	11	*	116	9.5 (26)	115	14.8 (32)
Iron	29	*	*	8	*	*	0	*	0	*	56	*	56	*
Isabella	331	2.7 (5)	65.9 (47)	262	14.5 (6)	58.4 (36)	9	*	19	*	355	12.1 (48)	355	19.7 (53)
Jackson	740	4.2 (22)	61.1 (19)	478	15.7 (8)	56.5 (34)	19	*	23	*	823	9.7 (31)	820	15.7 (35)
Kalamazoo	827	5.1 (35)	60.6 (14)	421	17.1 (12)	52.5 (19)	0	*	4	*	1,020	10.1 (35)	1,020	13.2 (19)
Kalkaska	84	*	*	58	*	*	3	*	1	*	81	*	81	*
Kent	1,650	3.5 (13)	59.0 (9)	635	23.0 (29)	45.7 (5)	478	36.0 (1)	751	24.8 (1)	2,969	10.0 (34)	2,973	18.1 (48)
Lake	61	*	*	39	*	*	1	*	2	*	64	*	64	*
Lapeer	264	4.9 (32)	64.0 (37)	199	26.1 (33)	51.3 (15)	0	*	4	*	313	6.1 (4)	313	10.5 (7)
Leelanau	17	*	*	8	*	*	2	*	2	*	22	*	22	*
Lenawee	354	4.0 (20)	64.7 (42)	231	16.5 (9)	51.1 (13)	0	*	16	*	362	8.3 (14)	361	17.7 (44)
Livingston	267	7.1 (52)	57.7 (5)	143	19.6 (21)	49.0 (9)	13	*	28	*	312	10.3 (38)	312	21.5 (57)
Luce	34	*	*	20	*	*	4	*	10	*	36	*	36	*
Mackinac	33	*	*	23	*	*	4	*	2	*	34	*	34	*
Macomb	2,975	3.3 (11)	62.5 (27)	2,451	19.5 (20)	49.4 (10)	33	*	63	*	3,127	10.7 (39)	3,130	12.2 (13)
Manistee	55	*	*	37	*	*	0	*	0	*	73	*	72	*
Marquette	187	6.4 (47)	54.0 (1)	121	22.3 (28)	56.2 (33)	1	*	2	*	212	12.7 (51)	210	16.2 (38)

(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).

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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	124	1.6 (2)	70.2 (50)	86	*	*	1	*	2	*	128	10.2 (36)	128	18.0 (47)
Mecosta	158	2.5 (4)	65.8 (46)	61	*	*	0	*	3	*	236	8.1 (12)	236	21.6 (58)
Menominee	77	*	*	56	*	*	10	*	22	*	73	*	73	*
Midland	247	4.9 (32)	61.9 (24)	120	10.8 (1)	54.2 (28)	16	*	18	*	318	11.3 (42)	318	14.8 (32)
Missaukee	76	*	*	49	*	*	2	*	1	*	72	*	72	*
Monroe	611	5.4 (39)	64.3 (40)	467	20.3 (25)	52.5 (19)	17	*	17	*	612	8.3 (14)	612	16.5 (40)
Montcalm	270	3.7 (16)	61.9 (24)	189	11.1 (2)	58.2 (35)	1	*	13	*	298	11.1 (41)	299	13.7 (20)
Montmorenc	36	*	*	18	*	*	0	*	2	*	39	*	39	*
Muskegon	1,058	3.6 (14)	65.7 (45)	788	18.3 (15)	53.6 (26)	8	*	6	*	1,084	8.7 (17)	1,084	20.8 (56)
Newaygo	346	3.2 (10)	63.6 (34)	240	23.3 (30)	50.4 (11)	0	*	5	*	369	11.7 (47)	369	17.1 (42)
Oakland	2,956	4.1 (21)	61.8 (21)	1,879	17.1 (12)	51.7 (17)	29	*	114	30.7 (5)	3,266	7.5 (11)	3,269	14.2 (24)
Oceana	113	1.8 (3)	71.7 (52)	84	*	*	9	*	8	*	130	16.9 (58)	130	12.3 (14)
Ogemaw	99	*	*	53	*	*	10	*	7	*	108	7.4 (10)	108	18.5 (49)
Ontonagon	12	*	*	9	*	*	2	*	3	*	16	*	16	*
Osceola	56	*	*	30	*	*	3	*	8	*	141	9.2 (22)	141	12.1 (12)
Oscoda	32	*	*	10	*	*	3	*	6	*	36	*	36	*
Otsego	88	*	*	17	*	*	22	*	32	*	123	8.9 (19)	123	13.0 (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).

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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	481	6.9 (50)	58.4 (7)	129	17.8 (14)	45.0 (4)	130	36.2 (2)	255	25.1 (2)	960	9.4 (25)	962	9.7 (5)
Presque Is	26	*	*	3	*	*	0	*	3	*	34	*	34	*
Roscommon	92	*	*	21	*	*	3	*	4	*	99	*	99	*
Saginaw	716	2.9 (8)	64.9 (43)	378	19.0 (17)	48.9 (8)	1	*	31	*	1,076	9.7 (31)	1,078	14.2 (24)
Sanilac	47	*	*	6	*	*	4	*	14	*	166	9.0 (20)	166	15.1 (34)
Schoolcraf	37	*	*	29	*	*	3	*	8	*	37	*	37	*
Shiawassee	313	4.2 (22)	62.3 (26)	249	22.1 (27)	48.6 (7)	0	*	2	*	338	6.2 (5)	338	9.2 (3)
St Clair	584	4.6 (31)	63.7 (35)	464	19.6 (21)	51.3 (15)	33	*	80	*	559	9.8 (33)	561	16.0 (37)
St Joseph	335	6.0 (45)	63.3 (31)	143	14.0 (5)	54.5 (30)	12	*	24	*	374	9.6 (29)	375	14.1 (23)
Tuscola	187	4.3 (27)	61.5 (20)	91	*	*	6	*	12	*	243	12.8 (52)	243	18.5 (49)
Van Buren	332	3.0 (9)	67.5 (49)	103	28.2 (36)	43.7 (3)	59	*	86	*	379	11.3 (42)	380	14.7 (29)
Washtenaw	855	4.2 (22)	61.8 (21)	526	24.5 (32)	43.3 (2)	101	43.6 (3)	187	28.3 (3)	984	8.7 (17)	985	14.5 (27)
Wayne	9,087	3.7 (16)	62.6 (28)	5,569	17.0 (11)	53.2 (22)	0	*	22	*	11,833	8.1 (12)	11,837	12.7 (15)
Wexford	176	5.7 (43)	60.8 (17)	121	19.0 (17)	51.2 (14)	2	*	7	*	193	9.3 (24)	193	14.5 (27)
Michigan	36,308	4.0	62.2	22,132	18.5	51.9	1,472	31.5	2,621	25.6	44,703	9.0	44,728	14.3
National (Prior Year)	48,187	3.7	62.1	33,280	19.3	50.7	2,408	26.4	2,474	22.5	48,523	10.6	48,164	13.8

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

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

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

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

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

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Table 6B

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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	28	*	*	36	*	36	*	30	*
Alger	15	*	*	16	*	16	*	12	*
Allegan	418	92.3 (34)	0.2 (20)	471	26.5 (46)	469	25.8 (32)	315	88.3 (46)
Alpena	123	96.7 (7)	0.0 (1)	140	27.1 (42)	137	24.8 (35)	98	*
Antrim	71	*	*	75	*	79	*	57	*
Arenac	79	*	*	85	*	86	*	60	*
Baraga	41	*	*	48	*	49	*	37	*
Barry	185	93.5 (24)	0.0 (1)	190	25.8 (49)	194	37.1 (10)	144	95.8 (6)
Bay	405	91.9 (37)	1.0 (50)	488	35.9 (15)	490	29.2 (23)	384	92.4 (23)
Benzie	66	*	*	71	*	69	*	45	*
Berrien	566	83.7 (57)	0.5 (32)	718	33.8 (20)	695	25.0 (34)	521	91.0 (31)
Branch	272	90.8 (45)	0.0 (1)	293	26.3 (48)	291	24.4 (36)	212	92.9 (19)
Calhoun	833	97.1 (6)	0.2 (20)	902	32.5 (22)	900	32.0 (16)	667	92.2 (26)
Cass	249	98.4 (2)	0.0 (1)	272	33.1 (21)	269	24.2 (37)	202	88.6 (45)
Charlevoix	82	*	*	87	*	87	*	64	*
Cheboygan	108	89.8 (52)	0.9 (47)	128	26.6 (44)	129	36.4 (12)	102	97.1 (2)
Chippewa	158	94.9 (16)	0.0 (1)	168	23.8 (53)	162	61.7 (2)	128	94.5 (13)
Clare	165	90.9 (44)	0.6 (34)	193	37.8 (11)	188	30.9 (21)	155	89.7 (42)
Clinton	114	92.1 (36)	0.0 (1)	131	31.3 (28)	109	44.0 (4)	98	*
Crawford	68	*	*	75	*	75	*	65	*

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

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

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

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

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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	159	93.1 (29)	0.6 (34)	165	32.1 (24)	166	25.9 (30)	117	94.0 (14)
Dickinson	104	98.1 (3)	0.0 (1)	118	39.0 (10)	118	19.5 (48)	98	*
Eaton	224	92.9 (31)	0.4 (30)	243	27.6 (37)	244	31.1 (20)	177	93.8 (15)
Emmet	104	91.3 (41)	0.0 (1)	102	26.5 (46)	106	47.2 (3)	73	*
Genesee	2,129	90.6 (46)	0.4 (30)	2,411	23.8 (53)	2,005	20.5 (45)	1,756	92.8 (20)
Gladwin	103	92.2 (35)	1.9 (57)	124	39.5 (7)	123	36.6 (11)	100	91.0 (31)
Gogebic	50	*	*	54	*	54	*	37	*
Gr Travers	303	93.1 (29)	0.7 (37)	358	28.2 (34)	359	32.3 (15)	244	90.6 (34)
Gratiot	153	93.5 (24)	0.7 (37)	179	39.1 (9)	149	40.9 (7)	147	97.3 (1)
Hillsdale	186	96.2 (9)	0.5 (32)	190	20.5 (58)	198	73.2 (1)	127	96.1 (5)
Houghton	136	93.4 (26)	0.7 (37)	168	32.1 (24)	167	38.9 (8)	126	90.5 (38)
Huron	113	95.6 (12)	0.9 (47)	132	23.5 (55)	131	41.2 (6)	84	*
Ingham	1,526	90.4 (48)	0.8 (45)	1,810	26.6 (44)	1,741	13.5 (55)	1,331	90.8 (33)
Ionia	245	95.5 (13)	0.0 (1)	272	27.6 (37)	274	27.4 (26)	192	95.3 (8)
Iosco	114	91.2 (42)	0.9 (47)	116	31.9 (26)	122	19.7 (47)	90	*
Iron	50	*	*	60	*	58	*	50	*
Isabella	328	94.5 (18)	0.3 (23)	365	39.2 (8)	364	32.7 (14)	296	91.9 (27)
Jackson	721	91.5 (38)	0.1 (18)	871	35.9 (15)	880	25.9 (30)	677	87.7 (48)
Kalamazoo	938	90.0 (50)	0.3 (23)	1,072	31.8 (27)	1,066	18.6 (52)	790	88.7 (44)
Kalkaska	73	*	*	89	*	89	*	66	*
Kent	2,708	89.5 (53)	0.8 (45)	3,115	24.8 (50)	2,696	21.2 (43)	2,250	89.9 (40)

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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	55	*	*	69	*	69	*	54	*
Lapeer	281	91.1 (43)	1.1 (53)	314	30.3 (31)	319	26.6 (28)	218	93.6 (16)
Leelanau	22	*	*	24	*	22	*	18	*
Lenawee	354	93.8 (20)	0.3 (23)	396	29.8 (32)	402	16.9 (53)	276	94.6 (12)
Livingston	284	95.8 (10)	0.7 (37)	326	29.8 (32)	332	38.9 (8)	226	94.7 (11)
Luce	31	*	*	38	*	38	*	27	*
Mackinac	34	*	*	38	*	38	*	29	*
Macomb	2,964	94.3 (19)	0.3 (23)	3,201	24.7 (52)	2,585	9.5 (56)	2,251	95.7 (7)
Manistee	65	*	*	77	*	75	*	63	*
Marquette	183	97.3 (4)	0.0 (1)	222	37.8 (11)	199	36.2 (13)	171	95.3 (8)
Mason	116	88.8 (55)	0.0 (1)	129	24.8 (50)	132	28.0 (24)	96	*
Mecosta	214	96.7 (7)	0.0 (1)	242	49.2 (1)	236	19.5 (48)	189	91.5 (29)
Menominee	69	*	*	88	*	71	*	52	*
Midland	300	94.7 (17)	0.7 (37)	320	30.9 (29)	326	23.3 (40)	231	94.8 (10)
Missaukee	62	*	*	78	*	77	*	61	*
Monroe	562	93.4 (26)	0.7 (37)	654	30.4 (30)	620	22.9 (41)	474	93.0 (17)
Montcalm	266	93.6 (23)	0.0 (1)	310	27.7 (35)	261	41.4 (5)	218	96.8 (3)
Montmorenc	33	*	*	39	*	40	*	31	*
Muskegon	989	92.5 (32)	0.3 (23)	1,141	35.2 (17)	1,118	23.4 (38)	869	92.5 (22)
Newaygo	292	89.0 (54)	1.0 (50)	385	41.3 (4)	395	27.3 (27)	299	90.6 (34)
Oakland	3,112	93.7 (21)	0.2 (20)	3,406	23.0 (57)	3,277	25.1 (33)	2,325	92.4 (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) 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	95	*	*	144	43.8 (2)	141	26.2 (29)	110	88.2 (47)
Ogemaw	106	92.5 (32)	0.0 (1)	111	36.9 (14)	112	18.8 (51)	85	*
Ontonagon	15	*	*	16	*	16	*	14	*
Osceola	111	93.7 (21)	1.8 (56)	150	40.0 (5)	148	14.2 (54)	120	91.7 (28)
Oscoda	35	*	*	40	*	42	*	34	*
Otsego	117	95.7 (11)	0.0 (1)	128	23.4 (56)	121	30.6 (22)	88	*
Ottawa	916	95.1 (15)	0.7 (37)	1,023	27.3 (40)	976	22.4 (42)	669	92.4 (23)
Presque Is	31	*	*	36	*	36	*	34	*
Roscommon	98	*	*	100	37.0 (13)	86	*	83	*
Saginaw	997	91.5 (38)	0.3 (23)	1,103	32.5 (22)	1,100	21.0 (44)	826	90.6 (34)
Sanilac	161	100.0 (1)	0.0 (1)	176	39.8 (6)	178	32.0 (16)	143	96.5 (4)
Schoolcraf	35	*	*	37	*	37	*	26	*
Shiawassee	328	97.3 (4)	0.3 (23)	356	34.0 (19)	45	*	267	85.4 (49)
St Clair	436	90.4 (48)	1.4 (55)	614	42.3 (3)	617	27.6 (25)	488	90.6 (34)
St Joseph	290	87.2 (56)	1.0 (50)	399	35.1 (18)	402	23.4 (38)	309	91.3 (30)
Tuscola	224	95.5 (13)	0.0 (1)	244	27.5 (39)	250	31.2 (19)	173	89.6 (43)
Van Buren	307	91.5 (38)	0.7 (37)	411	26.8 (43)	396	9.1 (57)	288	89.9 (40)
Washtenaw	934	93.3 (28)	0.1 (18)	1,088	27.2 (41)	1,081	19.1 (50)	817	92.8 (20)
Wayne	11,299	89.9 (51)	0.6 (34)	12,289	20.2 (59)	10,333	20.3 (46)	8,482	90.3 (39)
Wexford	180	90.6 (46)	1.1 (53)	202	27.7 (35)	205	31.7 (18)	142	93.0 (17)

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

(2) Excludes records with unknown data or errors.

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

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

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

* 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	41,530	91.7	0.5	46,804	26.8	42,624	23.1	33,621	91.6
National (Prior Year)	53,284	81.8	3.2	52,379	24.5	48,576	23.1	44,162	92.4

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

(2) Excludes records with unknown data or errors.

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

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

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

* 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	30	*	30	*	8	*	30	*	32	*
Alger	12	*	15	*	4	*	12	*	15	*
Allegan	313	20.8 (17)	441	12.9 (38)	61	*	315	8.3 (31)	445	5.6 (41)
Alpena	97	*	126	19.0 (51)	36	*	98	*	131	4.6 (33)
Antrim	57	*	74	*	20	*	57	*	76	*
Arenac	60	*	87	*	9	*	60	*	88	*
Baraga	37	*	47	*	16	*	37	*	47	*
Barry	143	17.5 (9)	188	10.6 (27)	25	*	143	14.7 (47)	188	5.3 (37)
Bay	383	28.7 (36)	461	10.2 (24)	106	42.5 (9)	384	9.1 (36)	468	5.8 (44)
Benzie	46	*	69	*	12	*	46	*	70	*
Berrien	519	21.8 (22)	640	10.0 (21)	101	39.6 (12)	520	11.0 (42)	645	7.8 (51)
Branch	212	19.3 (10)	282	13.5 (39)	37	*	212	4.7 (16)	285	4.2 (29)
Calhoun	666	21.3 (20)	846	6.5 (9)	119	38.7 (13)	667	2.7 (4)	856	3.4 (20)
Cass	201	21.4 (21)	261	7.3 (13)	43	*	202	2.0 (2)	262	1.9 (5)
Charlevoix	64	*	85	*	16	*	64	*	85	*
Cheboygan	101	31.7 (42)	112	14.3 (42)	29	*	102	10.8 (41)	115	8.7 (54)
Chippewa	128	29.7 (39)	159	21.4 (54)	34	*	127	11.8 (43)	158	3.2 (17)
Clare	154	39.6 (49)	173	24.3 (58)	55	*	154	15.6 (49)	176	8.0 (53)

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

(2) Excludes records with unknown data or errors.

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

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

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

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

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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	98	*	123	14.6 (43)	32	*	98	*	127	1.6 (3)
Crawford	65	*	70	*	13	*	65	*	73	*
Delta	117	33.3 (43)	159	21.4 (54)	37	*	116	7.8 (28)	158	6.3 (45)
Dickinson	98	*	107	15.9 (45)	24	*	97	*	110	2.7 (15)
Eaton	176	22.2 (24)	231	7.8 (15)	38	*	177	10.2 (40)	231	2.6 (14)
Emmet	73	*	106	17.9 (49)	21	*	72	*	104	4.8 (34)
Genesee	1,755	20.3 (13)	2,266	8.2 (17)	322	42.9 (8)	1,757	7.3 (25)	2,296	4.0 (27)
Gladwin	100	38.0 (47)	114	20.2 (52)	36	*	100	15.0 (48)	117	12.0 (59)
Gogebic	37	*	50	*	12	*	37	*	50	*
Gr Travers	243	33.7 (45)	334	15.6 (44)	72	*	244	6.6 (23)	343	7.0 (47)
Gratiot	144	29.9 (40)	160	6.9 (10)	40	*	147	8.8 (35)	171	6.4 (46)
Hillsdale	127	25.2 (32)	187	21.4 (54)	28	*	127	4.7 (16)	188	7.4 (49)
Houghton	126	33.3 (43)	157	20.4 (53)	39	*	126	7.1 (24)	157	5.1 (36)
Huron	84	*	125	13.6 (40)	20	*	84	*	126	7.1 (48)
Ingham	1,328	20.0 (12)	1,742	7.3 (13)	256	50.8 (2)	1,328	4.4 (11)	1,748	3.3 (18)
Ionia	190	24.7 (30)	249	13.7 (41)	42	*	191	13.1 (45)	255	4.3 (30)
Iosco	90	*	113	16.8 (47)	31	*	90	*	117	9.4 (55)
Iron	50	*	56	*	16	*	50	*	57	*
Isabella	295	22.7 (25)	351	12.5 (33)	65	*	296	7.8 (28)	354	5.4 (38)

(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)	Number	% (rank)
Jackson	677	23.0 (27)	823	12.5 (33)	141	30.5 (16)	677	8.7 (34)	824	4.1 (28)
Kalamazoo	787	20.6 (15)	1,014	8.6 (19)	145	34.5 (14)	788	4.2 (9)	1,022	3.8 (24)
Kalkaska	66	*	79	*	19	*	66	*	83	*
Kent	2,251	11.1 (5)	2,969	5.1 (5)	232	40.9 (11)	2,228	3.6 (8)	2,984	2.1 (10)
Lake	54	*	61	*	27	*	54	*	64	*
Lapeer	218	21.1 (18)	312	11.9 (32)	45	*	218	5.0 (18)	313	1.9 (5)
Leelanau	18	*	22	*	4	*	18	*	23	*
Lenawee	275	26.5 (33)	362	10.5 (26)	62	*	276	9.8 (37)	361	5.0 (35)
Livingston	226	20.4 (14)	303	6.9 (10)	41	*	226	4.4 (11)	314	3.8 (24)
Luce	27	*	35	*	6	*	27	*	36	*
Mackinac	29	*	34	*	6	*	29	*	34	*
Macomb	2,245	9.1 (1)	3,124	3.7 (3)	192	43.2 (7)	2,243	3.5 (6)	3,119	2.0 (9)
Manistee	63	*	72	*	14	*	63	*	73	*
Marquette	171	35.1 (46)	199	10.6 (27)	55	*	171	6.4 (22)	217	2.3 (12)
Mason	96	*	129	16.3 (46)	32	*	96	*	129	10.1 (58)
Mecosta	188	29.3 (37)	211	11.8 (31)	53	*	189	10.1 (39)	235	3.4 (20)
Menominee	51	*	73	*	18	*	52	*	73	*
Midland	230	24.8 (31)	310	12.6 (35)	55	*	231	5.2 (19)	319	2.2 (11)
Missaukee	61	*	73	*	8	*	61	*	74	*

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

(2) Excludes records with unknown data or errors.

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

(4) 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	471	27.2 (34)	604	10.1 (22)	119	44.5 (6)	473	8.5 (32)	612	3.3 (18)
Montcalm	218	30.7 (41)	287	8.0 (16)	63	*	218	7.3 (25)	299	5.7 (42)
Montmorenc	31	*	37	*	10	*	31	*	39	*
Muskegon	869	21.2 (19)	1,072	9.4 (20)	171	33.3 (15)	870	7.7 (27)	1,098	5.4 (38)
Newaygo	299	20.7 (16)	367	10.1 (22)	58	*	299	4.3 (10)	371	4.3 (30)
Oakland	2,321	9.4 (2)	3,257	3.6 (2)	202	50.0 (3)	2,319	2.3 (3)	3,278	1.9 (5)
Oceana	110	22.7 (25)	130	8.5 (18)	21	*	110	4.5 (14)	130	0.8 (1)
Ogemaw	85	*	105	18.1 (50)	35	*	85	*	109	5.5 (40)
Ontonagon	14	*	16	*	3	*	14	*	16	*
Osceola	119	27.7 (35)	141	22.7 (57)	32	*	120	12.5 (44)	141	3.5 (23)
Oscoda	34	*	33	*	8	*	34	*	36	*
Otsego	87	*	124	16.9 (48)	28	*	88	*	127	7.9 (52)
Ottawa	665	16.7 (8)	955	5.8 (8)	105	41.9 (10)	665	4.5 (14)	965	1.9 (5)
Presque Is	34	*	34	*	5	*	34	*	34	*
Roscommon	83	*	91	*	38	*	83	*	100	10.0 (57)
Saginaw	825	24.6 (29)	1,058	10.3 (25)	195	48.7 (4)	825	8.5 (32)	1,076	3.8 (24)
Sanilac	143	12.6 (6)	164	5.5 (6)	16	*	143	3.5 (6)	166	3.0 (16)
Schoolcraf	26	*	36	*	12	*	26	*	37	*
Shiawassee	269	9.7 (3)	335	6.9 (10)	24	*	268	0.7 (1)	333	1.5 (2)

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

(2) Excludes records with unknown data or errors.

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

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

* 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	488	38.7 (48)	551	11.3 (29)	165	46.7 (5)	488	13.1 (45)	563	7.5 (50)
St Joseph	308	23.1 (28)	371	11.6 (30)	63	*	308	8.1 (30)	375	4.5 (32)
Tuscola	173	29.5 (38)	242	12.8 (37)	48	*	173	9.8 (37)	244	5.7 (42)
Van Buren	287	19.5 (11)	371	5.7 (7)	49	*	288	3.1 (5)	380	3.4 (20)
Washtenaw	815	14.0 (7)	978	4.5 (4)	92	*	817	4.4 (11)	983	1.6 (3)
Wayne	8,461	10.0 (4)	11,856	3.0 (1)	772	58.9 (1)	8,473	5.2 (19)	11,856	2.5 (13)
Wexford	142	21.8 (22)	198	12.6 (35)	28	*	142	6.3 (21)	198	9.6 (56)
Michigan	33,554	17.5	44,427	7.2	5,392	42.2	33,562	6.0	44,801	3.5
National (Prior Year)	49,474	24.1	56,944	9.7	9,950	32.6	46,000	5.6	60,042	1.9

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

(2) Excludes records with unknown data or errors.

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

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

* 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	31	*	*	31	*	22	*	31	*
Alger	15	*	*	15	*	12	*	15	*
Allegan	418	10.8 (36)	6.0 (16)	429	13.8 (44)	360	4.4 (22)	421	80.8 (36)
Alpena	124	10.5 (35)	6.5 (27)	127	9.4 (4)	109	7.3 (50)	125	83.2 (24)
Antrim	65	*	*	70	*	62	*	71	*
Arenac	82	*	*	81	*	75	*	80	*
Baraga	39	*	*	42	*	35	*	39	*
Barry	179	9.5 (27)	6.7 (31)	185	14.6 (51)	153	3.3 (15)	179	83.2 (24)
Bay	424	12.5 (50)	7.1 (39)	447	14.3 (49)	361	4.7 (27)	426	76.8 (49)
Benzie	67	*	*	69	*	62	*	67	*
Berrien	603	11.3 (40)	6.0 (16)	625	12.8 (35)	517	6.4 (45)	603	77.1 (48)
Branch	266	7.5 (9)	7.5 (43)	281	10.0 (9)	237	5.1 (33)	268	80.2 (37)
Calhoun	806	9.1 (26)	6.9 (35)	828	11.0 (16)	707	4.2 (21)	813	79.1 (42)
Cass	243	5.3 (4)	6.2 (20)	249	11.6 (19)	215	1.4 (1)	245	83.3 (22)
Charlevoix	63	*	*	82	*	56	*	77	*
Cheboygan	113	8.8 (22)	9.7 (57)	114	12.3 (28)	98	*	113	83.2 (24)
Chippewa	150	7.3 (8)	8.7 (54)	154	10.4 (11)	133	2.3 (6)	151	82.1 (33)
Clare	163	6.7 (6)	8.6 (53)	170	9.4 (4)	147	3.4 (17)	163	78.5 (43)
Clinton	121	16.5 (58)	8.3 (50)	124	16.9 (58)	100	8.0 (51)	122	86.9 (8)

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

(2) Excludes records with unknown data or errors.

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

(4) <2500 g.

(5) >4000 g.

(6) <37 weeks gestation.

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

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

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

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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	67	*	*	68	*	59	*	67	*
Delta	146	5.5 (5)	6.2 (20)	149	9.4 (4)	131	1.5 (3)	146	82.2 (31)
Dickinson	106	3.8 (1)	3.8 (3)	107	6.5 (2)	98	*	106	84.9 (17)
Eaton	224	12.5 (50)	6.3 (22)	230	14.8 (52)	191	6.3 (43)	224	84.8 (18)
Emmet	101	9.9 (30)	6.9 (35)	103	13.6 (40)	85	*	103	91.3 (2)
Genesee	2,203	12.8 (52)	6.8 (34)	2,250	13.1 (37)	1,896	6.1 (41)	2,208	69.1 (57)
Gladwin	103	8.7 (19)	5.8 (14)	109	9.2 (3)	94	*	103	86.4 (12)
Gogebic	43	*	*	47	*	39	*	43	*
Gr Travers	319	10.3 (34)	7.2 (40)	328	14.0 (47)	270	4.1 (20)	322	90.4 (5)
Gratiot	159	10.1 (31)	3.8 (3)	162	13.0 (36)	137	2.9 (11)	158	86.7 (9)
Hillsdale	170	14.7 (57)	3.5 (2)	176	15.9 (57)	138	6.5 (46)	169	82.2 (31)
Houghton	147	8.2 (16)	6.1 (19)	154	15.6 (55)	125	1.6 (4)	149	90.6 (4)
Huron	123	8.1 (13)	11.4 (58)	123	12.2 (27)	107	3.7 (18)	123	83.7 (21)
Ingham	1,636	11.9 (43)	6.4 (26)	1,699	13.8 (44)	1,409	4.5 (25)	1,647	85.0 (16)
Ionia	238	8.0 (12)	4.6 (8)	246	12.6 (32)	207	2.4 (7)	239	90.8 (3)
Iosco	109	11.9 (43)	8.3 (50)	108	12.0 (25)	92	*	109	78.0 (46)
Iron	51	*	*	53	*	43	*	49	*
Isabella	332	8.1 (13)	7.5 (43)	345	9.6 (7)	300	5.0 (32)	332	84.0 (20)
Jackson	776	12.4 (48)	7.6 (45)	800	14.0 (47)	668	4.8 (30)	777	81.7 (34)

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

(2) Excludes records with unknown data or errors.

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

(4) <2500 g.

(5) >4000 g.

(6) <37 weeks gestation.

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

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

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

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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)
Kalamazoo	963	11.3 (40)	6.3 (22)	991	12.7 (34)	839	4.6 (26)	970	80.1 (38)
Kalkaska	79	*	*	80	*	70	*	78	*
Kent	2,791	13.0 (55)	5.4 (12)	2,902	15.0 (53)	2,368	5.7 (38)	2,831	79.9 (39)
Lake	56	*	*	61	*	49	*	56	*
Lapeer	287	10.1 (31)	8.7 (54)	302	12.3 (28)	252	5.6 (37)	289	79.2 (40)
Leelanau	21	*	*	22	*	18	*	22	*
Lenawee	342	6.7 (6)	6.7 (31)	356	10.1 (10)	307	2.0 (5)	341	82.4 (30)
Livingston	300	12.0 (45)	5.3 (11)	307	15.6 (55)	253	4.7 (27)	300	82.7 (29)
Luce	30	*	*	32	*	27	*	29	*
Mackinac	33	*	*	33	*	30	*	33	*
Macomb	2,965	13.0 (55)	4.5 (7)	3,009	13.9 (46)	2,525	6.5 (46)	2,982	76.1 (50)
Manistee	69	*	*	73	*	60	*	69	*
Marquette	207	8.7 (19)	3.9 (5)	207	12.1 (26)	180	2.8 (9)	208	86.5 (11)
Mason	119	7.6 (11)	6.7 (31)	121	9.9 (8)	106	2.8 (9)	119	85.7 (15)
Mecosta	219	8.7 (19)	4.1 (6)	224	12.5 (31)	190	3.2 (14)	220	84.5 (19)
Menominee	70	*	*	73	*	67	*	70	*
Midland	296	10.1 (31)	8.1 (48)	312	10.9 (15)	264	4.9 (31)	298	81.2 (35)
Missaukee	66	*	*	70	*	57	*	66	*
Monroe	583	7.5 (9)	7.7 (46)	594	11.6 (19)	515	2.5 (8)	582	72.2 (55)

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

(2) Excludes records with unknown data or errors.

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

(4) <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		High	(6)		(7)			
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Montcalm	281	8.9 (24)	3.2 (1)	290	13.1 (37)	241	3.3 (15)	282	87.2 (7)
Montmorenc	36	*	*	37	*	30	*	38	*
Muskegon	1,028	12.8 (52)	6.3 (22)	1,063	13.6 (40)	876	5.8 (39)	1,029	74.5 (52)
Newaygo	340	12.4 (48)	7.4 (42)	350	14.3 (49)	287	6.3 (43)	341	89.1 (6)
Oakland	3,095	12.0 (45)	6.3 (22)	3,193	13.4 (39)	2,659	6.1 (41)	3,136	77.4 (47)
Oceana	124	9.7 (28)	6.5 (27)	125	10.4 (11)	111	5.4 (35)	124	75.8 (51)
Ogemaw	100	5.0 (2)	6.0 (16)	106	10.4 (11)	92	*	101	79.2 (40)
Ontonagon	15	*	*	16	*	11	*	15	*
Osceola	129	10.9 (37)	7.8 (47)	134	11.9 (24)	114	5.3 (34)	129	82.9 (28)
Oscoda	32	*	*	33	*	25	*	32	*
Otsego	102	8.8 (22)	4.9 (10)	123	3.3 (1)	97	*	118	83.1 (27)
Ottawa	880	11.4 (42)	6.6 (30)	942	15.1 (54)	743	3.8 (19)	914	85.8 (14)
Presque Is	33	*	*	33	*	29	*	33	*
Roscommon	91	*	*	94	*	84	*	91	*
Saginaw	1,009	12.3 (47)	5.4 (12)	1,047	13.6 (40)	876	5.4 (35)	1,009	71.8 (56)
Sanilac	156	9.0 (25)	5.8 (14)	163	12.3 (28)	135	4.4 (22)	161	74.5 (52)
Schoolcraf	34	*	*	37	*	30	*	34	*
Shiawassee	315	8.6 (18)	7.0 (37)	331	11.2 (17)	279	4.7 (27)	316	73.1 (54)
St Clair	529	8.5 (17)	7.0 (37)	540	12.6 (32)	462	3.0 (13)	528	78.4 (44)

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

(2) Excludes records with unknown data or errors.

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

(4) <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)
St Joseph	358	8.1 (13)	9.2 (56)	368	11.7 (21)	313	2.9 (11)	359	86.4 (12)
Tuscola	234	5.1 (3)	8.5 (52)	240	10.8 (14)	210	1.4 (1)	234	83.3 (22)
Van Buren	345	11.0 (38)	7.2 (40)	368	11.7 (21)	302	6.6 (49)	352	78.4 (44)
Washtenaw	910	11.2 (39)	6.5 (27)	953	11.8 (23)	799	5.9 (40)	931	86.7 (9)
Wayne	11,061	12.8 (52)	4.6 (8)	11,526	13.7 (43)	9,451	6.5 (46)	11,228	64.3 (58)
Wexford	186	9.7 (28)	8.1 (48)	186	11.3 (18)	160	4.4 (22)	186	92.5 (1)
Michigan	41,947	11.5	5.9	43,460	13.2	36,146	5.3	42,370	75.5
National (Prior Year)	57,663	10.8	6.5	58,093	13.0	48,228	4.7	58,053	55.8

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

(2) Excludes records with unknown data or errors.

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

(4) <2500 g.

(5) >4000 g.

(6) <37 weeks gestation.

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

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

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

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Table 3B

2020 - 2022 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	111	93.7	0.0	1.8	0.0	0.0	3.6	0.9
Alger	76	*	*	*	*	*	*	*
Allegan	1,362	75.4	1.7	17.7	0.1	0.6	3.9	0.6
Alpena	441	94.6	0.5	2.0	0.2	0.2	2.5	0.0
Antrim	243	91.4	0.4	2.5	0.4	0.8	4.5	0.0
Arenac	300	94.0	0.0	2.7	0.3	0.0	3.0	0.0
Baraga	148	46.6	0.7	4.7	33.8	0.7	12.8	0.7
Barry	600	92.5	0.3	4.8	0.3	0.3	1.5	0.2
Bay	1,523	80.6	2.1	10.3	0.1	0.2	6.5	0.3
Benzie	218	89.9	0.5	5.0	0.9	0.0	3.7	0.0
Berrien	2,334	50.3	34.6	8.4	0.3	1.4	4.4	0.8
Branch	974	83.9	2.1	10.7	0.1	0.7	1.6	0.9
Calhoun	2,823	60.2	19.9	7.8	0.4	4.7	6.6	0.4
Cass	832	60.2	7.8	21.4	0.4	0.2	7.9	2.0
Charlevoix	300	89.7	0.0	3.3	0.0	0.0	7.0	0.0
Cheboygan	373	85.5	1.6	3.2	0.3	0.0	9.4	0.0
Chippewa	543	57.5	0.7	2.0	19.0	0.7	20.1	0.0
Clare	559	92.7	0.7	4.1	0.0	0.4	2.1	0.0
Clinton	382	83.8	1.0	10.2	0.0	0.0	4.5	0.5
Crawford	255	88.6	1.2	6.3	0.0	0.0	3.9	0.0
Delta	582	84.5	0.7	3.3	1.5	0.5	9.1	0.3
Dickinson	391	95.1	0.0	2.0	0.0	0.5	1.8	0.5
Eaton	701	83.3	5.0	9.4	0.0	1.6	0.6	0.1

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

(2) Excludes data with errors.

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

WIC PNSS & PedNSS

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Table 3B

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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	377	86.5	1.6	2.9	1.6	0.5	6.9	0.0
Genesee	7,453	48.8	38.3	6.2	0.1	0.3	6.1	0.3
Gladwin	407	94.8	0.0	2.2	0.0	0.5	2.5	0.0
Gogebic	161	82.0	2.5	2.5	3.7	1.2	7.5	0.6
Gr Travers	1,141	83.6	1.0	7.6	2.4	0.7	4.2	0.5
Gratiot	561	85.4	0.2	11.1	0.2	0.0	2.7	0.5
Hillsdale	622	93.1	0.2	3.2	0.5	0.0	2.4	0.6
Houghton	562	88.4	2.1	2.1	0.5	1.8	4.6	0.4
Huron	405	91.9	0.5	5.7	0.0	0.2	1.2	0.5
Ingham	5,311	42.2	27.7	16.3	0.1	5.4	8.1	0.2
Ionia	885	88.0	0.2	8.4	0.0	0.0	3.4	0.0
Iosco	424	90.3	0.5	2.6	0.5	0.0	6.1	0.0
Iron	168	90.5	0.0	3.0	0.6	0.0	4.2	1.8
Isabella	1,074	78.2	4.4	6.7	3.9	0.7	6.1	0.1
Jackson	2,830	71.4	14.0	6.5	0.1	0.6	7.2	0.1
Kalamazoo	3,604	45.9	35.4	9.9	0.1	0.9	7.2	0.6
Kalkaska	279	90.3	0.4	4.7	0.0	0.4	3.9	0.0
Kent	9,665	31.2	28.7	29.9	0.3	4.9	4.8	0.2
Lake	180	74.4	10.6	4.4	0.0	0.0	10.0	0.6
Lapeer	1,018	84.1	0.9	10.8	0.0	0.6	3.6	0.0
Leelanau	102	58.8	0.0	20.6	8.8	0.0	11.8	0.0
Lenawee	1,237	71.7	2.7	19.7	0.2	0.4	4.9	0.5
Livingston	998	90.0	1.7	3.4	0.0	1.0	3.1	0.8
Luce	116	79.3	0.9	1.7	5.2	0.0	12.9	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 3B

2020 - 2022 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	97	*	*	*	*	*	*	*
Macomb	9,808	50.6	32.3	4.7	0.1	7.9	4.1	0.2
Manistee	264	84.5	0.8	5.7	1.9	0.0	7.2	0.0
Marquette	692	86.4	1.4	3.2	2.5	0.4	5.5	0.6
Mason	390	81.0	1.3	10.8	0.3	0.8	5.4	0.5
Mecosta	734	86.8	3.7	3.1	0.5	0.5	4.9	0.4
Menominee	257	66.1	1.9	7.8	9.7	0.0	10.9	3.5
Midland	957	86.7	2.1	6.0	0.0	1.8	3.3	0.1
Missaukee	218	87.6	0.5	7.3	0.0	0.0	4.6	0.0
Monroe	1,961	81.6	6.9	6.2	0.1	0.3	4.2	0.7
Montcalm	998	92.1	0.3	5.8	0.0	0.1	1.4	0.3
Montmorenc	137	94.2	0.7	2.2	1.5	0.0	0.7	0.7
Muskegon	3,516	55.7	26.6	9.8	0.3	0.5	6.8	0.3
Newaygo	1,125	75.0	0.6	20.3	0.4	0.4	2.8	0.6
Oakland	10,430	40.4	41.9	11.4	0.1	2.3	3.7	0.2
Oceana	480	54.4	0.4	40.4	0.4	0.0	3.5	0.8
Ogemaw	358	93.6	0.6	2.2	0.0	0.0	3.4	0.3
Ontonagon	50	*	*	*	*	*	*	*
Osceola	457	91.7	1.1	3.3	0.4	0.0	3.5	0.0
Oscoda	123	95.1	0.0	2.4	0.0	0.0	2.4	0.0
Otsego	427	93.4	0.5	2.3	0.0	0.2	3.3	0.2
Ottawa	3,153	53.8	4.9	33.1	0.1	2.9	4.6	0.6
Presque Is	116	92.2	0.9	0.9	0.9	0.0	5.2	0.0
Roscommon	308	95.8	0.0	1.0	0.0	0.3	2.6	0.3

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

(2) Excludes data with errors.

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

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Table 3B

2020 - 2022 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	3,596	39.6	36.7	15.5	0.1	0.5	7.4	0.3
Sanilac	558	93.4	0.0	4.5	0.2	0.4	1.1	0.5
Schoolcraf	119	70.6	0.0	0.8	11.8	0.0	16.8	0.0
Shiawassee	1,040	89.2	0.4	6.3	0.0	0.1	3.8	0.2
St Clair	1,903	80.5	5.8	6.0	0.0	0.5	7.0	0.3
St Joseph	1,216	70.0	0.6	22.1	0.0	0.2	6.7	0.5
Tuscola	779	93.2	0.4	4.7	0.0	0.1	1.5	0.0
Van Buren	1,296	62.1	3.5	29.2	0.1	0.5	3.2	1.5
Washtenaw	3,212	37.7	39.6	11.1	0.1	3.1	7.9	0.4
Wayne	39,093	29.5	55.1	9.8	0.1	2.8	2.5	0.2
Wexford	680	90.1	0.9	2.8	0.0	0.1	5.7	0.3
Michigan	146,297	51.2	29.9	11.3	0.4	2.4	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.

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Table 4B

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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	111	0.0	1.8	3.6	64.0	27.0	3.6	0.0
Alger	76	*	*	*	*	*	*	*
Allegan	1,362	0.0	1.9	6.8	59.2	29.4	2.3	0.4
Alpena	441	0.0	2.0	8.6	59.9	28.8	0.7	0.0
Antrim	243	0.0	2.5	7.4	66.7	22.6	0.8	0.0
Arenac	300	0.0	2.7	9.7	65.3	22.0	0.3	0.0
Baraga	148	0.0	2.0	8.1	60.8	27.7	1.4	0.0
Barry	600	0.0	2.0	6.7	66.5	22.5	1.2	1.2
Bay	1,523	0.0	2.5	7.9	60.9	27.1	1.2	0.4
Benzie	218	0.9	1.4	6.4	60.6	29.4	0.9	0.5
Berrien	2,334	0.1	3.3	9.3	59.4	24.5	1.8	1.6
Branch	974	0.0	1.8	8.6	62.1	24.1	3.0	0.3
Calhoun	2,823	0.0	2.7	7.4	62.8	24.7	1.6	0.7
Cass	832	0.2	3.1	9.0	60.8	24.9	0.8	1.1
Charlevoix	300	0.0	0.7	8.0	62.7	25.7	2.7	0.3
Cheboygan	373	0.3	1.6	9.4	62.5	24.9	1.3	0.0
Chippewa	543	0.0	1.8	6.8	62.6	27.3	1.3	0.2
Clare	559	0.5	3.2	8.9	62.6	23.6	0.9	0.2
Clinton	382	0.0	1.6	4.7	56.0	36.1	1.3	0.3
Crawford	255	0.0	2.0	11.0	62.7	22.4	1.6	0.4
Delta	582	0.2	0.9	6.9	60.8	30.4	0.9	0.0
Dickinson	391	0.3	1.3	5.6	61.9	29.9	1.0	0.0
Eaton	701	0.0	2.4	9.1	58.3	27.1	2.0	1.0
Emmet	377	0.0	2.1	4.5	58.9	31.3	3.2	0.0

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

(2) Excludes data with errors.

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

WIC PNSS & PedNSS

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Table 4B

2020 - 2022 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	7,453	0.2	2.1	7.2	63.2	25.4	1.6	0.3
Gladwin	407	0.0	1.5	5.7	64.1	27.3	1.0	0.5
Gogebic	161	0.0	0.0	8.1	54.7	37.3	0.0	0.0
Gr Travers	1,141	0.2	1.6	6.5	58.2	31.4	1.9	0.3
Gratiot	561	0.2	2.1	8.6	64.0	23.2	1.6	0.4
Hillsdale	622	0.6	2.9	7.7	63.2	22.3	2.3	1.0
Houghton	562	0.0	1.4	8.0	58.7	30.1	1.8	0.0
Huron	405	0.0	0.7	5.4	60.0	32.3	1.5	0.0
Ingham	5,311	0.1	2.3	6.7	60.8	27.6	2.0	0.4
Ionia	885	0.2	2.1	7.1	65.3	23.4	1.2	0.6
Iosco	424	0.0	2.6	8.5	60.1	26.9	1.9	0.0
Iron	168	0.0	4.8	4.8	64.3	25.6	0.6	0.0
Isabella	1,074	0.1	2.2	6.8	64.4	24.5	1.6	0.4
Jackson	2,830	0.1	2.7	7.2	62.6	25.3	1.3	0.8
Kalamazoo	3,604	0.1	2.8	7.7	59.6	27.1	2.0	0.6
Kalkaska	279	0.0	2.5	10.4	59.1	26.2	0.7	1.1
Kent	9,665	0.1	2.0	6.5	58.2	29.9	2.4	0.8
Lake	180	0.0	2.8	7.2	62.2	26.7	1.1	0.0
Lapeer	1,018	0.0	1.7	5.6	62.1	28.6	1.6	0.5
Leelanau	102	0.0	1.0	1.0	50.0	44.1	2.9	1.0
Lenawee	1,237	0.1	1.1	6.8	62.9	27.4	1.0	0.7
Livingston	998	0.0	1.1	5.1	58.6	32.7	2.0	0.5
Luce	116	0.0	4.3	9.5	51.7	31.0	2.6	0.9
Mackinac	97	*	*	*	*	*	*	*

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

(2) Excludes data with errors.

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

WIC PNSS & PedNSS

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Table 4B

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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	9,808	0.0	1.0	3.8	56.9	35.6	2.6	0.1
Manistee	264	0.4	0.8	7.6	53.8	33.0	3.4	1.1
Marquette	692	0.1	1.4	3.9	62.3	29.6	2.6	0.0
Mason	390	0.0	2.6	7.4	66.2	21.8	1.0	1.0
Mecosta	734	0.0	1.9	7.1	65.3	24.0	1.6	0.1
Menominee	257	0.4	2.3	10.1	63.0	23.7	0.4	0.0
Midland	957	0.0	1.3	5.9	64.4	27.4	1.1	0.0
Missaukee	218	0.0	0.9	8.7	61.5	27.1	1.4	0.5
Monroe	1,961	0.0	1.7	6.8	63.3	26.1	1.6	0.4
Montcalm	998	0.0	2.7	9.1	64.1	22.1	1.2	0.7
Montmorenc	137	0.0	3.6	8.8	58.4	27.0	2.2	0.0
Muskegon	3,516	0.1	2.9	9.0	61.2	24.7	1.4	0.6
Newaygo	1,125	0.0	1.9	6.2	64.7	24.2	2.0	1.0
Oakland	10,430	0.0	1.3	4.6	57.1	34.1	2.7	0.2
Oceana	480	0.0	2.1	7.7	65.0	20.6	3.3	1.3
Ogemaw	358	0.0	3.1	8.7	62.8	24.0	1.1	0.3
Ontonagon	50	*	*	*	*	*	*	*
Osceola	457	0.0	2.4	7.4	63.7	24.3	1.3	0.9
Oscoda	123	0.0	4.9	8.9	65.0	20.3	0.8	0.0
Otsego	427	0.2	1.2	8.4	63.7	24.8	1.6	0.0
Ottawa	3,153	0.1	1.8	6.2	61.1	28.3	2.1	0.4
Presque Is	116	0.0	0.9	4.3	64.7	29.3	0.9	0.0
Roscommon	308	0.0	3.9	7.8	58.1	27.9	1.6	0.6
Saginaw	3,596	0.1	2.4	7.9	62.5	24.9	1.4	0.7

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

(2) Excludes data with errors.

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2020 - 2022 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	558	0.0	2.2	6.3	65.6	25.4	0.5	0.0
Schoolcraf	119	0.0	0.8	5.9	67.2	24.4	1.7	0.0
Shiawassee	1,040	0.1	2.6	6.5	65.7	24.1	1.0	0.0
St Clair	1,903	0.1	1.8	8.2	63.1	24.6	1.6	0.7
St Joseph	1,216	0.1	2.4	8.1	64.8	22.6	1.9	0.2
Tuscola	779	0.0	2.4	6.2	64.2	24.8	2.1	0.4
Van Buren	1,296	0.0	1.5	6.7	62.7	26.4	1.5	1.2
Washtenaw	3,212	0.0	1.4	5.5	56.3	33.7	2.7	0.3
Wayne	39,093	0.1	1.9	5.6	57.0	32.1	2.9	0.4
Wexford	680	0.0	2.5	8.4	65.0	22.4	1.2	0.6
Michigan	146,297	0.1	2.0	6.3	59.6	29.4	2.2	0.4

(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 5B

2020 - 2022 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	86	*	*	47	*	*	9	*	4	*	100	9.0 (37)	100	13.0 (35)
Alger	56	*	*	29	*	*	2	*	3	*	68	*	68	*
Allegan	1,003	4.6 (54)	63.1 (57)	510	18.0 (30)	54.5 (50)	125	26.4 (1)	251	25.9 (5)	1,253	9.2 (39)	1,256	13.5 (41)
Alpena	397	6.0 (72)	59.9 (20)	185	17.3 (21)	56.8 (58)	20	*	11	*	397	9.8 (46)	398	16.8 (65)
Antrim	175	4.0 (35)	55.4 (4)	45	*	*	20	*	29	*	226	7.5 (13)	226	10.2 (6)
Arenac	258	2.7 (8)	66.3 (70)	202	16.8 (17)	53.0 (40)	14	*	18	*	292	8.9 (31)	293	17.1 (67)
Baraga	131	2.3 (5)	61.8 (40)	82	*	*	1	*	5	*	138	6.5 (6)	138	11.6 (17)
Barry	338	5.9 (71)	59.8 (18)	131	12.2 (2)	57.3 (61)	23	*	8	*	559	12.5 (71)	563	15.8 (56)
Bay	1,188	4.2 (41)	61.3 (34)	638	16.1 (14)	55.8 (56)	38	*	23	*	1,418	8.2 (22)	1,418	13.0 (35)
Benzie	171	3.5 (17)	50.3 (1)	85	*	*	9	*	23	*	204	5.9 (3)	204	14.7 (48)
Berrien	2,027	4.3 (47)	61.6 (35)	1,415	17.5 (26)	55.3 (55)	134	29.1 (2)	156	23.1 (3)	2,056	8.9 (31)	2,059	18.5 (71)
Branch	404	4.7 (55)	61.1 (31)	153	24.8 (61)	47.7 (8)	28	*	33	*	894	10.5 (54)	895	9.7 (4)
Calhoun	2,220	4.1 (38)	61.7 (36)	1,491	18.8 (39)	52.9 (38)	52	*	19	*	2,592	6.8 (7)	2,594	10.3 (8)
Cass	696	4.5 (51)	62.6 (51)	490	19.0 (41)	52.0 (28)	69	*	69	*	776	10.1 (49)	777	15.7 (55)
Charlevoix	192	3.1 (11)	59.9 (20)	43	*	*	31	*	37	*	283	8.1 (21)	283	19.4 (75)
Cheboygan	310	4.2 (41)	60.0 (23)	86	*	*	11	*	13	*	335	12.2 (70)	335	11.6 (17)
Chippewa	486	3.3 (14)	60.3 (26)	337	18.1 (33)	52.5 (35)	20	*	29	*	492	10.8 (60)	494	8.3 (2)

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

(2) Excludes records with unknown data or errors.

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

(4) 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 pre-pregnancy (ideal weight gain = 25 to 35 pounds), overweight pre-pregnancy (ideal weight gain = 15 to 25 pounds), obese pre-pregnancy (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

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2020 - 2022 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)

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	452	3.8 (30)	61.9 (41)	210	17.6 (28)	53.8 (43)	16	*	27	*	513	7.6 (16)	515	12.0 (20)
Clinton	337	4.5 (51)	69.7 (74)	207	14.5 (7)	48.3 (10)	12	*	3	*	357	16.2 (78)	357	14.0 (42)
Crawford	226	0.4 (1)	59.7 (17)	129	24.0 (59)	49.6 (13)	3	*	5	*	235	8.5 (26)	235	11.9 (19)
Delta	546	3.5 (17)	62.6 (51)	398	21.6 (55)	47.2 (7)	39	*	72	*	532	10.7 (58)	532	14.3 (44)
Dickinson	268	5.6 (66)	57.1 (9)	123	20.3 (49)	50.4 (18)	9	*	5	*	355	2.8 (1)	356	16.3 (60)
Eaton	403	6.2 (74)	59.8 (18)	151	18.5 (36)	47.0 (4)	16	*	7	*	649	11.7 (69)	650	16.3 (60)
Emmet	322	2.8 (9)	64.3 (64)	139	17.3 (21)	50.4 (18)	32	*	38	*	359	7.8 (19)	359	12.8 (33)
Genesee	5,179	4.2 (41)	60.9 (29)	2,477	19.0 (41)	52.6 (37)	197	40.6 (8)	106	35.8 (10)	6,834	8.9 (31)	6,845	16.8 (65)
Gladwin	373	3.5 (17)	62.7 (53)	274	14.2 (6)	52.9 (38)	23	*	29	*	381	8.7 (28)	383	16.2 (57)
Gogebic	137	0.7 (2)	59.9 (20)	101	19.8 (44)	52.5 (35)	9	*	8	*	145	14.5 (75)	145	10.3 (8)
Gr Travers	933	5.5 (65)	53.8 (2)	694	15.9 (13)	52.0 (28)	34	*	21	*	1,051	7.2 (11)	1,055	10.8 (10)
Gratiot	503	2.2 (4)	67.0 (71)	325	24.3 (60)	48.9 (11)	10	*	8	*	522	14.8 (76)	523	14.5 (46)
Hillsdale	523	4.8 (57)	62.7 (53)	371	15.4 (10)	50.9 (22)	16	*	41	*	576	5.9 (3)	577	6.1 (1)
Houghton	489	3.7 (28)	57.5 (10)	351	16.8 (17)	46.4 (3)	14	*	4	*	507	8.9 (31)	507	15.0 (52)
Huron	351	4.3 (47)	68.4 (73)	259	20.1 (47)	56.0 (57)	32	*	42	*	388	11.3 (65)	389	14.7 (48)
Ingham	4,330	3.6 (23)	61.7 (36)	3,025	18.9 (40)	54.1 (46)	139	36.0 (4)	38	*	5,046	7.6 (16)	5,047	12.9 (34)
Ionia	637	5.0 (61)	63.4 (58)	462	20.1 (47)	50.9 (22)	50	*	66	*	814	11.4 (66)	817	19.6 (76)

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

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

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

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

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

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WIC PNSS & PedNSS

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2020 - 2022 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)
Iosco	302	6.0 (72)	62.9 (55)	138	17.4 (24)	53.6 (41)	17	*	13	*	386	8.3 (23)	385	12.2 (24)
Iron	94	*	*	23	*	*	4	*	1	*	148	10.1 (49)	148	11.5 (16)
Isabella	932	4.7 (55)	62.2 (43)	622	14.5 (7)	54.2 (48)	32	*	36	*	997	10.7 (58)	998	14.5 (46)
Jackson	2,052	4.0 (35)	60.0 (23)	1,362	15.3 (9)	54.6 (51)	70	*	68	*	2,638	8.8 (29)	2,638	13.0 (35)
Kalamazoo	2,748	3.9 (33)	62.2 (43)	1,366	15.8 (12)	54.2 (48)	56	*	27	*	3,237	9.7 (44)	3,239	12.3 (26)
Kalkaska	231	4.8 (57)	55.0 (3)	160	13.8 (3)	58.1 (63)	6	*	6	*	257	8.9 (31)	258	10.1 (5)
Kent	5,365	3.5 (17)	60.5 (27)	2,099	23.7 (58)	46.3 (2)	890	37.5 (5)	1,459	24.3 (4)	8,913	9.1 (38)	8,924	16.4 (62)
Lake	159	5.0 (61)	58.5 (13)	116	20.7 (52)	50.0 (15)	4	*	2	*	166	10.2 (51)	166	19.3 (73)
Lapeer	874	4.2 (41)	60.1 (25)	656	20.0 (45)	51.1 (24)	13	*	10	*	947	6.4 (5)	948	11.1 (11)
Leelanau	83	*	*	43	*	*	2	*	4	*	90	*	90	*
Lenawee	959	3.4 (15)	62.3 (46)	638	15.5 (11)	50.6 (20)	27	*	24	*	1,105	9.4 (41)	1,106	15.4 (54)
Livingston	890	4.9 (59)	57.5 (10)	583	18.0 (30)	52.3 (32)	31	*	36	*	916	9.6 (43)	917	20.0 (78)
Luce	104	5.8 (70)	56.7 (8)	73	*	*	5	*	11	*	105	14.3 (74)	105	16.2 (57)
Mackinac	89	*	*	69	*	*	8	*	3	*	87	*	87	*
Macomb	8,489	3.5 (17)	61.7 (36)	6,644	18.4 (35)	52.0 (28)	223	38.6 (6)	124	22.6 (2)	9,206	10.4 (53)	9,211	11.1 (11)
Manistee	136	4.4 (50)	58.8 (16)	74	*	*	4	*	3	*	245	10.6 (55)	245	11.4 (14)
Marquette	601	4.3 (47)	58.7 (15)	408	18.1 (33)	57.4 (62)	18	*	12	*	631	9.8 (46)	633	13.1 (38)

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

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

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WIC PNSS & PedNSS

Run Date: 5/29/2024

Table 5B

2020 - 2022 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	360	1.4 (3)	64.4 (65)	266	16.2 (16)	51.9 (27)	6	*	7	*	359	11.4 (66)	359	17.8 (70)
Mecosta	470	3.6 (23)	65.7 (69)	155	21.9 (56)	47.1 (5)	19	*	11	*	691	7.5 (13)	691	19.7 (77)
Menominee	235	3.8 (30)	57.9 (12)	171	17.5 (26)	55.0 (52)	16	*	26	*	214	7.5 (13)	215	16.7 (64)
Midland	696	3.6 (23)	62.9 (55)	238	10.5 (1)	55.0 (52)	36	*	26	*	901	10.8 (60)	900	12.1 (21)
Missaukee	205	4.9 (59)	62.4 (47)	139	27.3 (62)	49.6 (13)	5	*	2	*	196	7.1 (8)	196	12.2 (24)
Monroe	1,777	5.1 (63)	63.5 (60)	1,359	17.4 (24)	53.9 (45)	56	*	31	*	1,795	8.5 (26)	1,796	17.6 (69)
Montcalm	877	3.5 (17)	62.5 (50)	570	14.0 (5)	57.2 (59)	27	*	23	*	926	10.8 (60)	927	15.3 (53)
Montmorenc	125	5.6 (66)	62.4 (47)	67	*	*	4	*	4	*	126	12.7 (72)	126	11.1 (11)
Muskegon	3,171	3.4 (15)	64.4 (65)	2,445	18.0 (30)	52.4 (34)	47	*	20	*	3,256	9.7 (44)	3,259	18.7 (72)
Newaygo	995	3.6 (23)	64.0 (62)	652	23.3 (57)	47.1 (5)	16	*	22	*	1,035	10.8 (60)	1,035	17.1 (67)
Oakland	8,091	4.1 (38)	60.5 (27)	4,698	17.2 (20)	51.7 (26)	244	41.4 (9)	167	28.1 (6)	9,544	7.3 (12)	9,546	12.6 (31)
Oceana	366	2.5 (6)	70.8 (75)	278	19.4 (43)	55.0 (52)	19	*	19	*	427	15.2 (77)	427	14.1 (43)
Ogemaw	305	3.6 (23)	65.6 (68)	145	13.8 (3)	57.2 (59)	15	*	14	*	326	5.5 (2)	327	16.2 (57)
Ontonagon	44	*	*	28	*	*	3	*	3	*	44	*	45	*
Osceola	267	3.7 (28)	61.0 (30)	146	18.5 (36)	52.1 (31)	15	*	10	*	427	8.4 (25)	428	11.4 (14)
Oscoda	87	*	*	28	*	*	5	*	8	*	112	7.1 (8)	113	13.3 (40)
Otsego	262	4.2 (41)	56.1 (6)	70	*	*	43	*	51	*	396	8.8 (29)	396	12.4 (28)

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

(2) Excludes records with unknown data or errors.

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

(4) 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: 5/29/2024

Table 5B

2020 - 2022 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	1,354	5.7 (69)	55.8 (5)	434	16.1 (14)	52.3 (32)	247	39.3 (7)	479	28.6 (7)	2,872	9.2 (39)	2,875	10.2 (6)
Presque Is	101	3.0 (10)	62.4 (47)	53	*	*	3	*	3	*	110	10.9 (64)	110	16.4 (62)
Roscommon	285	4.2 (41)	61.1 (31)	157	18.5 (36)	54.1 (46)	11	*	5	*	284	10.6 (55)	285	19.3 (73)
Saginaw	2,603	3.2 (12)	64.0 (62)	1,339	16.9 (19)	50.3 (17)	73	*	72	*	3,391	8.9 (31)	3,393	12.6 (31)
Sanilac	123	7.3 (75)	56.1 (6)	29	*	*	14	*	21	*	496	7.7 (18)	496	12.1 (21)
Schoolcraf	116	2.6 (7)	65.5 (67)	90	*	*	3	*	8	*	112	9.8 (46)	112	12.5 (30)
Shiawassee	911	4.5 (51)	63.4 (58)	734	21.1 (54)	50.1 (16)	13	*	8	*	946	7.1 (8)	947	9.6 (3)
St Clair	1,790	4.1 (38)	61.7 (36)	1,447	17.7 (29)	53.8 (43)	80	*	102	34.3 (9)	1,708	8.3 (23)	1,712	14.7 (48)
St Joseph	996	5.4 (64)	61.9 (41)	374	20.3 (49)	51.6 (25)	31	*	42	*	1,084	10.2 (51)	1,085	12.3 (26)
Tuscola	595	4.0 (35)	63.5 (60)	394	20.8 (53)	49.5 (12)	28	*	21	*	743	11.6 (68)	744	14.9 (51)
Van Buren	1,029	3.2 (12)	67.2 (72)	310	31.3 (63)	41.3 (1)	122	31.1 (3)	157	14.6 (1)	1,173	12.7 (72)	1,174	12.4 (28)
Washtenaw	2,500	3.9 (33)	61.2 (33)	1,561	20.4 (51)	48.0 (9)	179	43.6 (10)	258	29.8 (8)	2,904	9.5 (42)	2,905	14.3 (44)
Wayne	27,239	3.8 (30)	62.2 (43)	15,966	17.3 (21)	53.6 (41)	848	48.2 (11)	213	37.1 (11)	36,443	8.0 (20)	36,458	12.1 (21)
Wexford	569	5.6 (66)	58.5 (13)	400	20.0 (45)	50.8 (21)	17	*	12	*	642	10.6 (55)	642	13.2 (39)
Michigan	108,849	3.9	61.7	65,508	18.1	52.5	4,914	36.3	4,945	26.1	135,141	8.8	135,252	13.4

(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) 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: 5/29/2024

Table 6B

2020 - 2022 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	95	*	*	110	26.4 (71)	104	30.8 (26)	81	*
Alger	66	*	*	75	*	68	*	59	*
Allegan	1,204	93.5 (11)	1.3 (5)	1,340	31.3 (45)	1,265	24.9 (50)	953	91.0 (36)
Alpena	381	89.8 (37)	6.3 (61)	429	34.0 (32)	410	24.4 (52)	331	95.8 (6)
Antrim	219	90.4 (31)	2.3 (22)	235	27.7 (67)	226	27.9 (36)	171	88.9 (62)
Arenac	276	89.9 (35)	3.3 (38)	294	34.4 (29)	281	23.1 (57)	229	84.3 (71)
Baraga	132	91.7 (24)	2.3 (22)	143	37.1 (19)	137	29.2 (31)	107	97.2 (1)
Barry	547	92.5 (20)	1.6 (9)	588	26.9 (70)	564	32.4 (16)	415	96.9 (4)
Bay	1,309	83.3 (68)	8.7 (70)	1,507	38.2 (14)	1,456	22.9 (58)	1,192	90.3 (47)
Benzie	192	89.1 (44)	5.2 (54)	213	31.0 (47)	207	42.5 (7)	156	90.4 (44)
Berrien	1,903	79.7 (72)	5.2 (54)	2,281	30.5 (49)	2,118	21.8 (63)	1,653	90.7 (41)
Branch	808	85.3 (63)	5.6 (56)	944	29.7 (53)	858	29.5 (29)	706	89.7 (53)
Calhoun	2,511	95.8 (4)	1.6 (9)	2,754	32.1 (42)	2,466	28.1 (35)	2,025	89.2 (60)
Cass	747	92.9 (15)	3.3 (38)	817	38.2 (14)	757	21.5 (65)	619	81.9 (73)
Charlevoix	283	90.1 (32)	3.5 (42)	296	25.0 (74)	287	38.7 (11)	225	90.7 (41)
Cheboygan	315	81.9 (70)	7.6 (66)	364	32.7 (40)	352	31.8 (22)	294	94.6 (12)
Chippewa	487	96.1 (2)	1.4 (7)	529	36.5 (20)	505	46.5 (3)	427	89.7 (53)
Clare	493	87.8 (51)	4.3 (48)	555	40.7 (10)	507	28.4 (33)	456	89.3 (57)
Clinton	337	90.8 (28)	1.8 (11)	374	30.2 (51)	285	41.1 (8)	274	94.2 (16)
Crawford	229	91.7 (24)	2.2 (16)	252	41.3 (7)	243	30.9 (25)	201	91.0 (36)
Delta	531	93.4 (12)	0.9 (3)	572	32.2 (41)	547	26.5 (41)	431	94.9 (10)

(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: 5/29/2024

Table 6B

2020 - 2022 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	347	94.2 (7)	3.2 (36)	387	35.7 (26)	371	25.6 (44)	305	93.1 (22)
Eaton	634	89.4 (43)	2.2 (16)	691	27.2 (69)	654	31.2 (24)	497	93.2 (20)
Emmet	350	90.0 (34)	2.9 (30)	368	28.0 (66)	357	40.3 (9)	267	92.9 (24)
Genesee	6,537	89.1 (44)	1.8 (11)	7,322	25.2 (73)	5,762	14.8 (75)	5,311	91.2 (35)
Gladwin	359	77.4 (74)	14.2 (76)	403	41.2 (8)	388	32.2 (19)	315	89.2 (60)
Gogebic	143	93.7 (9)	1.4 (7)	160	29.4 (57)	148	38.5 (12)	105	97.1 (2)
Gr Travers	980	86.2 (60)	7.2 (63)	1,116	28.9 (59)	1,070	29.3 (30)	778	90.4 (44)
Gratiot	496	90.7 (30)	3.0 (32)	549	37.3 (18)	450	32.0 (20)	436	95.6 (7)
Hillsdale	565	90.8 (28)	3.7 (44)	606	28.9 (59)	574	43.7 (5)	439	94.5 (13)
Houghton	471	86.6 (58)	6.2 (60)	551	32.1 (42)	524	37.0 (13)	425	93.2 (20)
Huron	366	86.9 (57)	3.0 (32)	399	24.8 (75)	369	36.6 (14)	266	91.0 (36)
Ingham	4,646	90.1 (32)	3.2 (36)	5,251	27.4 (68)	4,825	10.5 (78)	3,846	90.0 (49)
Ionia	803	92.8 (18)	3.0 (32)	871	28.7 (62)	828	22.8 (59)	607	95.4 (8)
Iosco	375	88.0 (50)	3.7 (44)	406	35.7 (26)	400	22.5 (62)	325	88.6 (63)
Iron	139	94.2 (7)	3.6 (43)	163	45.4 (2)	152	60.5 (2)	135	90.4 (44)
Isabella	946	89.9 (35)	4.0 (47)	1,058	36.5 (20)	1,008	31.9 (21)	831	91.5 (31)
Jackson	2,443	88.1 (49)	4.8 (52)	2,785	37.5 (16)	2,620	23.6 (55)	2,168	88.3 (64)
Kalamazoo	3,080	88.8 (47)	2.8 (28)	3,529	32.9 (38)	3,314	18.6 (71)	2,620	88.2 (66)
Kalkaska	245	83.7 (67)	9.4 (72)	271	36.2 (24)	255	29.8 (27)	208	89.4 (56)
Kent	8,420	87.3 (54)	2.9 (30)	9,504	23.5 (77)	8,020	21.0 (66)	6,861	90.8 (39)
Lake	153	75.2 (75)	7.2 (63)	175	38.3 (13)	169	25.4 (45)	139	84.2 (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

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Table 6B

2020 - 2022 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	892	87.0 (56)	5.9 (58)	991	30.9 (48)	950	26.0 (42)	713	93.3 (19)
Leelanau	85	*	*	97	*	84	*	70	*
Lenawee	1,084	92.9 (15)	1.3 (5)	1,214	28.5 (63)	1,153	20.7 (68)	876	93.0 (23)
Livingston	866	89.6 (41)	4.5 (51)	974	28.3 (65)	904	38.9 (10)	681	94.4 (14)
Luce	93	*	*	114	48.2 (1)	101	34.7 (15)	89	*
Mackinac	87	*	*	94	*	90	*	73	*
Macomb	8,911	93.0 (13)	2.1 (15)	9,582	25.6 (72)	7,178	12.0 (76)	6,829	94.8 (11)
Manistee	236	85.2 (64)	8.1 (68)	258	34.1 (31)	244	76.6 (1)	199	91.5 (31)
Marquette	583	91.4 (26)	3.8 (46)	676	36.5 (20)	540	32.4 (16)	535	92.3 (27)
Mason	334	86.2 (60)	5.1 (53)	381	33.3 (36)	363	27.3 (39)	291	92.4 (26)
Mecosta	648	95.1 (5)	2.3 (22)	724	40.3 (11)	669	15.2 (74)	564	91.5 (31)
Menominee	203	91.1 (27)	3.0 (32)	252	30.2 (51)	205	25.9 (43)	166	94.0 (17)
Midland	864	92.6 (19)	2.0 (14)	941	29.4 (57)	912	25.4 (45)	677	95.3 (9)
Missaukee	182	89.6 (41)	6.0 (59)	210	34.3 (30)	207	31.4 (23)	170	91.8 (28)
Monroe	1,728	89.8 (37)	3.4 (41)	1,931	28.5 (63)	1,808	24.7 (51)	1,384	91.7 (30)
Montcalm	875	89.8 (37)	4.3 (48)	975	30.5 (49)	828	32.4 (16)	722	96.3 (5)
Montmorenc	121	87.6 (52)	0.8 (2)	134	32.8 (39)	128	24.2 (53)	103	97.1 (2)
Muskegon	3,062	89.7 (40)	2.8 (28)	3,432	35.7 (26)	2,930	24.0 (54)	2,603	89.9 (50)
Newaygo	891	84.1 (66)	6.5 (62)	1,098	41.0 (9)	932	23.5 (56)	865	90.3 (47)
Oakland	9,251	91.9 (22)	2.2 (16)	10,214	24.5 (76)	8,317	22.6 (61)	7,153	91.8 (28)
Oceana	362	78.2 (73)	13.0 (75)	464	37.5 (16)	443	26.6 (40)	353	85.8 (69)

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

(2) Excludes records with unknown data or errors.

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

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

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

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

WIC PNSS & PedNSS

Run Date: 5/29/2024

Table 6B

2020 - 2022 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	315	87.3 (54)	5.7 (57)	354	33.3 (36)	339	18.6 (71)	273	90.5 (43)
Ontonagon	44	*	*	49	*	49	*	42	*
Osceola	378	86.2 (60)	8.2 (69)	449	43.9 (4)	433	20.1 (69)	362	87.6 (68)
Oscoda	111	91.9 (22)	2.7 (26)	120	42.5 (5)	118	25.4 (45)	99	*
Otsego	389	95.9 (3)	1.0 (4)	417	29.5 (56)	383	29.2 (31)	305	91.5 (31)
Ottawa	2,779	93.6 (10)	2.2 (16)	3,088	28.8 (61)	2,784	25.4 (45)	2,102	89.9 (50)
Presque Is	107	98.1 (1)	0.0 (1)	115	29.6 (55)	110	44.5 (4)	94	*
Roscommon	277	92.1 (21)	2.2 (16)	300	38.7 (12)	266	27.8 (37)	242	89.3 (57)
Saginaw	3,233	87.5 (53)	3.3 (38)	3,552	33.5 (34)	3,356	19.9 (70)	2,745	89.3 (57)
Sanilac	489	94.9 (6)	2.5 (25)	548	36.3 (23)	526	43.0 (6)	432	94.4 (14)
Schoolcraf	110	89.1 (44)	2.7 (26)	119	45.4 (2)	114	22.8 (59)	99	*
Shiawassee	924	93.0 (13)	4.3 (48)	1,022	31.2 (46)	360	27.5 (38)	740	85.3 (70)
St Clair	1,495	81.0 (71)	10.8 (73)	1,877	41.9 (6)	1,757	25.4 (45)	1,510	87.9 (67)
St Joseph	918	74.1 (76)	12.4 (74)	1,183	35.8 (25)	1,139	21.7 (64)	922	89.8 (52)
Tuscola	708	86.3 (59)	7.3 (65)	768	31.9 (44)	741	29.6 (28)	559	92.5 (25)
Van Buren	1,023	84.6 (65)	7.8 (67)	1,278	33.9 (33)	1,130	11.0 (77)	962	88.3 (64)
Washtenaw	2,797	92.9 (15)	2.2 (16)	3,140	29.7 (53)	2,974	16.1 (73)	2,334	93.8 (18)
Wayne	35,385	88.3 (48)	1.9 (13)	38,340	21.6 (78)	29,098	21.0 (66)	26,510	89.6 (55)
Wexford	597	83.1 (69)	8.7 (70)	665	33.4 (35)	626	28.4 (33)	491	90.8 (39)
Michigan	129,039	89.2	3.1	143,475	27.7	121,256	22.2	103,878	90.8

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

(2) Excludes records with unknown data or errors.

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

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

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

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

WIC PNSS & PedNSS

Run Date: 5/29/2024

Table 7B

2020 - 2022 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)	Number	% (rank)
Alcona	86	*	98	*	25	*	81	*	100	4.0 (49)
Alger	61	*	68	*	20	*	59	*	68	*
Allegan	1,025	24.7 (17)	1,246	13.0 (20)	220	39.5 (21)	953	6.0 (17)	1,256	3.3 (37)
Alpena	346	41.6 (71)	393	22.6 (65)	119	33.6 (30)	331	12.1 (55)	397	2.5 (24)
Antrim	182	37.4 (61)	225	20.4 (53)	56	*	171	10.5 (44)	227	7.5 (75)
Arenac	243	35.4 (54)	292	21.9 (61)	79	*	229	17.5 (69)	293	10.2 (78)
Baraga	114	48.2 (75)	139	28.8 (75)	46	*	107	9.3 (35)	139	2.9 (30)
Barry	464	32.5 (45)	562	15.3 (33)	125	48.8 (4)	413	10.7 (49)	564	2.7 (27)
Bay	1,258	34.7 (50)	1,412	16.9 (40)	392	35.2 (28)	1,192	10.1 (41)	1,424	4.1 (52)
Benzie	170	37.1 (60)	202	18.8 (49)	57	*	157	10.8 (50)	204	5.9 (72)
Berrien	1,795	26.5 (23)	2,049	12.2 (16)	370	43.5 (12)	1,652	11.5 (53)	2,057	4.5 (56)
Branch	767	23.2 (15)	892	13.5 (22)	144	27.8 (42)	703	8.1 (30)	897	1.9 (13)
Calhoun	2,177	24.7 (17)	2,549	9.7 (9)	449	36.3 (26)	2,028	4.0 (9)	2,585	1.7 (12)
Cass	657	21.5 (10)	776	9.9 (10)	134	32.1 (36)	619	3.6 (2)	777	0.9 (1)
Charlevoix	241	28.2 (30)	283	14.8 (31)	61	*	224	10.3 (43)	283	4.6 (58)
Cheboygan	305	35.1 (51)	331	17.8 (45)	95	*	294	9.5 (36)	335	5.1 (64)
Chippewa	453	30.7 (37)	495	21.6 (57)	122	15.6 (49)	423	10.6 (48)	495	3.2 (35)
Clare	474	40.5 (68)	511	27.8 (73)	166	24.7 (43)	455	16.0 (66)	513	3.9 (48)
Clinton	283	32.2 (42)	353	14.7 (28)	87	*	274	3.6 (2)	358	1.4 (7)

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

(2) Excludes records with unknown data or errors.

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

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

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

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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	215	28.4 (31)	234	20.5 (55)	56	*	200	12.5 (58)	236	3.4 (41)
Delta	465	38.9 (63)	533	23.1 (66)	149	30.2 (39)	430	10.5 (44)	532	3.0 (34)
Dickinson	330	30.9 (38)	352	17.9 (46)	87	*	304	3.3 (1)	355	1.4 (7)
Eaton	546	33.7 (47)	651	14.0 (26)	155	47.1 (5)	497	7.4 (23)	651	2.5 (24)
Emmet	301	32.2 (42)	358	16.5 (36)	80	*	266	6.8 (18)	355	2.8 (28)
Genesee	5,736	21.8 (11)	6,792	10.9 (13)	1,045	40.4 (18)	5,305	8.0 (28)	6,838	2.9 (30)
Gladwin	340	35.9 (58)	380	21.8 (60)	104	22.1 (47)	315	16.2 (67)	384	6.5 (74)
Gogebic	116	40.5 (68)	147	25.2 (69)	40	*	105	21.0 (72)	147	5.4 (67)
Gr Travers	875	35.4 (54)	1,044	14.8 (31)	257	45.1 (7)	778	6.8 (18)	1,059	4.0 (49)
Gratiot	457	31.5 (41)	510	15.5 (34)	132	39.4 (22)	437	10.5 (44)	524	2.9 (30)
Hillsdale	467	35.1 (51)	576	24.1 (68)	140	30.0 (40)	439	9.6 (37)	576	3.6 (43)
Houghton	445	34.6 (49)	507	21.7 (59)	133	35.3 (27)	425	7.5 (24)	507	2.8 (28)
Huron	302	34.4 (48)	388	19.6 (52)	93	*	266	10.2 (42)	389	5.1 (64)
Ingham	4,156	17.8 (7)	5,041	8.4 (8)	653	44.7 (9)	3,836	3.9 (7)	5,044	2.3 (20)
Ionia	675	28.7 (32)	809	17.3 (42)	165	27.9 (41)	606	8.1 (30)	820	2.4 (21)
Iosco	338	38.2 (62)	384	25.3 (70)	115	21.7 (48)	325	13.5 (60)	389	4.9 (61)
Iron	138	47.8 (74)	148	31.1 (76)	56	*	134	14.2 (62)	148	4.7 (59)
Isabella	883	26.3 (22)	995	14.7 (28)	205	32.2 (35)	830	7.7 (26)	996	2.9 (30)
Jackson	2,289	29.8 (34)	2,643	17.7 (43)	610	30.3 (38)	2,168	7.6 (25)	2,643	2.4 (21)

(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	2,812	21.9 (12)	3,226	10.2 (11)	512	37.7 (24)	2,612	5.1 (14)	3,233	2.0 (15)
Kalkaska	220	40.0 (67)	255	22.4 (64)	72	*	207	14.0 (61)	260	5.8 (71)
Kent	7,465	13.1 (4)	8,916	6.1 (5)	807	45.0 (8)	6,732	3.8 (6)	8,903	1.3 (3)
Lake	143	51.0 (76)	164	32.9 (77)	72	*	139	21.6 (73)	166	7.8 (76)
Lapeer	785	27.3 (27)	946	13.8 (25)	173	43.4 (13)	713	8.0 (28)	947	2.1 (17)
Leelanau	78	*	90	*	18	*	70	*	91	*
Lenawee	953	28.1 (29)	1,109	12.4 (17)	214	44.4 (10)	876	9.8 (38)	1,108	4.3 (53)
Livingston	766	26.5 (23)	905	13.0 (20)	167	40.1 (19)	683	4.7 (12)	916	1.9 (13)
Luce	92	*	103	20.4 (53)	28	*	89	*	102	4.9 (61)
Mackinac	78	*	87	*	18	*	72	*	87	*
Macomb	7,541	12.5 (3)	9,202	5.2 (3)	783	44.3 (11)	6,813	4.3 (10)	9,195	1.3 (3)
Manistee	216	32.4 (44)	245	21.6 (57)	64	*	199	9.0 (34)	247	4.5 (56)
Marquette	575	39.8 (64)	619	19.2 (50)	213	35.2 (28)	532	8.3 (33)	648	1.5 (9)
Mason	309	35.9 (58)	360	19.4 (51)	97	*	291	12.4 (57)	359	5.6 (69)
Mecosta	588	31.3 (40)	656	17.7 (43)	164	23.2 (45)	565	11.3 (51)	688	2.5 (24)
Menominee	186	39.8 (64)	215	27.9 (74)	58	*	166	14.5 (64)	215	3.3 (37)
Midland	736	27.0 (26)	890	13.5 (22)	172	36.6 (25)	677	5.0 (13)	897	1.3 (3)
Missaukee	178	24.7 (17)	197	18.3 (48)	36	*	170	10.0 (40)	197	3.6 (43)
Monroe	1,523	30.6 (36)	1,791	14.1 (27)	388	41.8 (16)	1,383	9.8 (38)	1,796	4.3 (53)

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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	774	35.7 (56)	907	16.9 (40)	235	40.0 (20)	722	12.3 (56)	926	3.8 (47)
Montmorenc	111	42.3 (72)	122	23.8 (67)	39	*	103	15.5 (65)	126	5.6 (69)
Muskegon	2,766	26.9 (25)	3,242	14.7 (28)	638	33.2 (32)	2,609	8.2 (32)	3,276	3.3 (37)
Newaygo	923	23.0 (14)	1,031	12.9 (19)	190	33.2 (32)	866	5.8 (15)	1,037	2.4 (21)
Oakland	7,952	10.2 (1)	9,533	4.3 (2)	672	43.2 (15)	7,142	3.6 (2)	9,552	1.3 (3)
Oceana	378	23.5 (16)	427	11.2 (15)	71	*	352	6.8 (18)	427	2.1 (17)
Ogemaw	286	35.3 (53)	323	22.0 (62)	87	*	273	19.4 (71)	328	6.1 (73)
Ontonagon	43	*	45	*	10	*	42	*	45	*
Osceola	383	31.1 (39)	427	21.1 (56)	107	22.4 (46)	362	14.4 (63)	428	4.0 (49)
Oscoda	104	28.8 (33)	110	18.2 (47)	24	*	99	*	113	4.4 (55)
Otsego	327	35.8 (57)	398	22.1 (63)	102	31.4 (37)	305	19.3 (70)	401	4.7 (59)
Ottawa	2,340	17.9 (8)	2,869	6.9 (6)	343	45.2 (6)	2,085	3.6 (2)	2,875	1.6 (10)
Presque Is	103	22.3 (13)	109	16.5 (36)	21	*	94	*	110	3.6 (43)
Roscommon	255	41.2 (70)	277	26.7 (72)	89	*	242	17.4 (68)	286	5.2 (66)
Saginaw	2,884	29.9 (35)	3,342	10.9 (13)	778	51.4 (3)	2,742	10.5 (44)	3,392	3.6 (43)
Sanilac	459	15.7 (5)	494	10.5 (12)	58	*	430	5.8 (15)	496	1.6 (10)
Schoolcraf	102	46.1 (73)	110	26.4 (71)	40	*	99	*	112	8.9 (77)
Shiawassee	800	26.0 (21)	947	12.7 (18)	170	32.9 (34)	734	6.9 (22)	939	3.5 (42)
St Clair	1,592	39.8 (64)	1,698	16.1 (35)	533	43.3 (14)	1,510	13.2 (59)	1,715	5.0 (63)

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(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)	Number	% (rank)
St Joseph	971	27.5 (28)	1,083	13.7 (24)	228	38.2 (23)	921	7.9 (27)	1,083	3.3 (37)
Tuscola	607	32.9 (46)	746	16.8 (39)	179	41.3 (17)	559	11.8 (54)	748	3.2 (35)
Van Buren	1,018	20.4 (9)	1,152	8.1 (7)	176	33.5 (31)	957	3.9 (7)	1,175	2.0 (15)
Washtenaw	2,538	16.5 (6)	2,891	5.9 (4)	340	52.6 (2)	2,331	4.4 (11)	2,898	1.1 (2)
Wayne	29,192	12.2 (2)	36,512	4.2 (1)	2,928	56.1 (1)	26,464	6.8 (18)	36,498	2.2 (19)
Wexford	529	25.9 (20)	648	16.7 (38)	117	23.9 (44)	490	11.4 (52)	647	5.4 (67)
Michigan	112,918	20.2	134,825	9.3	19,273	41.2	103,605	7.0	135,290	2.5

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

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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	93	*	*	96	*	82	*	93	*
Alger	64	*	*	66	*	57	*	64	*
Allegan	1,171	9.3 (40)	6.5 (18)	1,216	13.7 (63)	1,007	3.1 (17)	1,184	76.9 (42)
Alpena	379	7.4 (15)	7.9 (44)	387	10.1 (17)	334	3.6 (27)	379	74.4 (54)
Antrim	202	6.9 (8)	7.4 (34)	212	7.1 (1)	183	3.3 (23)	211	79.6 (27)
Arenac	276	8.0 (24)	7.2 (27)	280	8.6 (4)	248	3.2 (21)	274	76.6 (44)
Baraga	126	4.8 (1)	12.7 (75)	129	8.5 (3)	112	2.7 (8)	126	76.2 (47)
Barry	522	9.6 (45)	6.7 (20)	552	12.7 (51)	456	3.7 (32)	528	83.3 (15)
Bay	1,317	10.8 (56)	8.4 (52)	1,382	12.5 (48)	1,152	4.3 (42)	1,325	70.0 (65)
Benzie	188	8.5 (29)	8.5 (54)	195	10.3 (21)	169	5.9 (70)	188	85.6 (6)
Berrien	1,935	9.7 (49)	5.5 (4)	1,992	10.8 (27)	1,695	5.5 (65)	1,938	71.8 (61)
Branch	851	8.7 (32)	7.9 (44)	878	9.7 (13)	754	5.3 (60)	857	76.5 (45)
Calhoun	2,445	9.6 (45)	7.0 (24)	2,508	10.4 (22)	2,166	4.7 (48)	2,463	74.9 (52)
Cass	724	6.6 (7)	8.1 (50)	742	11.5 (40)	639	3.1 (17)	727	77.7 (36)
Charlevoix	235	10.6 (54)	6.8 (21)	271	12.9 (53)	204	4.4 (47)	262	83.6 (14)
Cheboygan	324	8.6 (31)	8.0 (48)	324	11.1 (34)	282	4.3 (42)	324	81.5 (20)
Chippewa	457	7.2 (12)	10.9 (73)	473	10.1 (17)	403	2.7 (8)	457	75.3 (50)
Clare	474	7.2 (12)	7.8 (41)	503	9.9 (14)	428	4.2 (40)	473	72.3 (60)
Clinton	342	16.7 (75)	9.4 (64)	348	17.5 (76)	280	5.7 (67)	345	85.2 (9)

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

(2) Excludes records with unknown data or errors.

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

(4) <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: 5/29/2024

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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)
Crawford	195	10.8 (56)	8.7 (56)	225	13.8 (67)	169	3.6 (27)	196	84.2 (13)
Delta	489	5.1 (2)	8.6 (55)	516	9.1 (11)	441	1.6 (2)	490	80.2 (25)
Dickinson	345	6.4 (4)	5.8 (7)	350	11.4 (39)	305	2.3 (4)	346	77.5 (39)
Eaton	618	11.8 (67)	7.1 (25)	642	13.1 (55)	535	4.9 (53)	624	85.4 (7)
Emmet	333	9.3 (40)	6.9 (22)	345	11.0 (32)	292	2.7 (8)	340	89.1 (1)
Genesee	6,540	12.0 (68)	5.3 (3)	6,724	13.3 (58)	5,634	5.7 (67)	6,552	61.4 (73)
Gladwin	345	8.4 (28)	7.5 (36)	356	11.0 (32)	306	3.3 (23)	346	80.6 (23)
Gogebic	131	7.6 (18)	9.9 (70)	141	9.2 (12)	119	2.5 (6)	134	75.4 (49)
Gr Travers	979	9.1 (37)	9.4 (64)	1,013	11.3 (36)	861	3.8 (33)	986	87.0 (4)
Gratiot	491	7.7 (21)	5.9 (11)	500	10.8 (27)	433	1.4 (1)	490	80.4 (24)
Hillsdale	540	11.1 (60)	6.3 (15)	557	13.8 (67)	459	4.8 (49)	540	79.1 (30)
Houghton	475	7.4 (15)	8.8 (59)	499	10.0 (15)	425	3.8 (33)	477	87.8 (2)
Huron	369	7.3 (14)	10.6 (72)	382	10.7 (26)	331	3.0 (16)	368	79.3 (28)
Ingham	4,720	11.1 (60)	5.9 (11)	4,907	13.5 (61)	4,081	4.3 (42)	4,750	79.0 (31)
Ionia	777	7.5 (17)	8.4 (52)	800	10.9 (31)	687	2.8 (12)	778	86.0 (5)
Iosco	355	11.3 (64)	9.6 (66)	363	11.3 (36)	308	6.5 (72)	354	70.1 (64)
Iron	138	8.7 (32)	8.7 (56)	141	11.3 (36)	123	2.4 (5)	136	80.1 (26)
Isabella	944	9.5 (44)	9.0 (61)	978	10.4 (22)	847	5.4 (62)	945	76.9 (42)
Jackson	2,487	10.5 (53)	8.0 (48)	2,563	12.2 (45)	2,189	4.8 (49)	2,493	73.9 (56)

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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	2,997	10.7 (55)	6.4 (16)	3,145	12.1 (44)	2,613	4.3 (42)	3,029	72.7 (59)
Kalkaska	247	9.7 (49)	8.9 (60)	250	10.0 (15)	218	2.8 (12)	246	84.6 (12)
Kent	8,354	12.8 (72)	5.6 (6)	8,730	15.0 (73)	7,085	5.4 (62)	8,461	75.7 (48)
Lake	152	12.5 (71)	7.9 (44)	160	13.1 (55)	127	5.5 (65)	152	77.0 (41)
Lapeer	883	9.6 (45)	7.8 (41)	908	13.1 (55)	758	4.9 (53)	886	77.7 (36)
Leelanau	84	*	*	88	*	73	*	85	*
Lenawee	1,054	6.9 (8)	7.3 (31)	1,095	8.9 (9)	959	2.9 (15)	1,053	73.6 (58)
Livingston	874	11.0 (59)	6.2 (13)	896	13.5 (61)	755	4.1 (39)	872	83.3 (15)
Luce	95	*	*	96	*	82	*	94	*
Mackinac	81	*	*	85	*	75	*	81	*
Macomb	8,751	11.6 (66)	5.1 (2)	8,900	13.3 (58)	7,508	5.2 (56)	8,790	67.3 (69)
Manistee	217	11.1 (60)	9.2 (63)	232	14.7 (72)	184	4.3 (42)	219	74.0 (55)
Marquette	619	7.1 (10)	7.8 (41)	620	9.0 (10)	555	3.1 (17)	621	83.3 (15)
Mason	334	9.0 (34)	6.9 (22)	341	12.0 (43)	290	3.8 (33)	334	76.3 (46)
Mecosta	652	9.0 (34)	7.2 (27)	669	10.5 (24)	581	3.6 (27)	654	79.2 (29)
Menominee	205	7.8 (23)	9.8 (68)	211	7.6 (2)	189	4.8 (49)	205	63.4 (72)
Midland	855	8.2 (27)	9.0 (61)	883	10.2 (20)	767	3.1 (17)	857	78.5 (33)
Missaukee	168	7.1 (10)	6.5 (18)	185	8.6 (4)	149	4.0 (37)	168	87.5 (3)
Monroe	1,709	8.0 (24)	7.5 (36)	1,749	11.1 (34)	1,515	2.8 (12)	1,709	69.2 (67)

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(5) >4000 g.

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Comparison of Infant Health Indicators by County

Combined 3 Years

Comparison of Infant Health Indicators (2,3)									
County	Birthweight			Preterm		Full Term LBW		Ever Breastfed	
	Low (4)		High (5)	(6)		(7)			
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
Montcalm	873	10.8 (56)	5.8 (7)	900	13.3 (58)	745	3.2 (21)	878	85.2 (9)
Montmorenc	117	8.5 (29)	10.3 (71)	119	10.1 (17)	103	4.9 (53)	119	81.5 (20)
Muskegon	3,090	11.4 (65)	6.2 (13)	3,157	13.0 (54)	2,649	5.2 (56)	3,098	66.8 (70)
Newaygo	955	9.8 (51)	7.3 (31)	983	12.5 (48)	828	4.8 (49)	958	82.3 (19)
Oakland	8,910	12.2 (70)	5.8 (7)	9,320	13.7 (63)	7,636	5.4 (62)	9,062	73.7 (57)
Oceana	402	9.0 (34)	7.7 (40)	402	12.2 (45)	346	4.0 (37)	406	78.3 (34)
Ogemaw	304	7.6 (18)	7.2 (27)	315	8.6 (4)	278	5.8 (69)	305	71.5 (62)
Ontonagon	43	*	*	44	*	33	*	43	*
Osceola	397	11.1 (60)	7.3 (31)	408	12.5 (48)	343	6.1 (71)	398	78.1 (35)
Oscoda	99	*	*	107	14.0 (71)	86	*	99	*
Otsego	344	9.6 (45)	8.7 (56)	389	8.7 (8)	307	5.2 (56)	381	77.7 (36)
Ottawa	2,447	10.1 (52)	7.9 (44)	2,804	13.9 (70)	2,086	3.5 (26)	2,731	82.4 (18)
Presque Is	106	9.4 (43)	11.3 (74)	106	15.1 (74)	89	*	106	77.4 (40)
Roscommon	263	6.5 (5)	7.2 (27)	269	8.6 (4)	235	3.4 (25)	263	75.3 (50)
Saginaw	3,200	12.9 (73)	5.5 (4)	3,301	13.7 (63)	2,765	5.3 (60)	3,204	65.3 (71)
Sanilac	466	7.7 (21)	6.4 (16)	489	10.8 (27)	409	4.2 (40)	478	60.7 (74)
Schoolcraf	105	7.6 (18)	7.6 (39)	111	16.2 (75)	89	*	105	71.4 (63)
Shiawassee	895	8.0 (24)	7.5 (36)	932	10.8 (27)	795	3.6 (27)	898	69.8 (66)
St Clair	1,614	9.3 (40)	7.1 (25)	1,655	12.3 (47)	1,414	3.6 (27)	1,614	69.1 (68)

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

(2) Excludes records with unknown data or errors.

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

(4) <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: 5/29/2024

Table 8B

2020 - 2022 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	1,018	6.3 (3)	9.8 (68)	1,052	10.6 (25)	903	2.2 (3)	1,023	85.0 (11)
Tuscola	705	6.5 (5)	8.1 (50)	729	11.8 (41)	625	2.6 (7)	705	78.6 (32)
Van Buren	1,074	9.1 (37)	7.4 (34)	1,136	11.8 (41)	941	3.8 (33)	1,105	74.5 (53)
Washtenaw	2,701	12.1 (69)	5.8 (7)	2,812	13.7 (63)	2,314	5.2 (56)	2,739	81.1 (22)
Wayne	33,862	13.0 (74)	4.7 (1)	35,487	13.8 (67)	28,881	6.5 (72)	34,526	57.9 (75)
Wexford	607	9.2 (39)	9.7 (67)	615	12.8 (52)	519	2.7 (8)	608	85.4 (7)
Michigan	126,335	11.2	6.1	131,479	13.0	109,108	5.1	127,943	52.7

(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) <2500 g.

(5) >4000 g.

(6) <37 weeks gestation.

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