

Table 3B
2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Racial and Ethnic Distribution by County

Comparison of Racial and Ethnic Distribution ⁽²⁾								
County	Number Included in Analysis	White, Not Hispanic %	Black, Not Hispanic %	Hispanic %	American Indian/Alaska Native %	Asian/Pacific Islander %	Multiple Races %	All Other/Unknown %
Alcona	44	*	*	*	*	*	*	*
Alger	33	*	*	*	*	*	*	*
Allegan	1,708	60.8	3.0	29.7	0.1	3.2	1.4	1.7
Alpena	200	94.5	0.5	0.5	0.0	1.0	3.0	0.5
Antrim	145	97.9	0.0	1.4	0.0	0.0	0.7	0.0
Arenac	127	91.3	0.0	2.4	0.0	0.0	5.5	0.8
Baraga	74	*	*	*	*	*	*	*
Barry	315	97.5	0.0	1.6	0.0	0.0	0.6	0.3
Bay	704	83.2	2.0	9.1	0.3	0.1	4.5	0.7
Benzie	102	79.4	1.0	13.7	1.0	0.0	2.9	2.0
Berrien	1,207	52.4	38.0	4.6	0.2	1.7	1.9	1.3
Branch	411	84.4	0.7	11.9	0.0	1.2	1.0	0.7
Calhoun	1,180	64.8	19.0	7.1	0.1	3.7	4.7	0.5
Cass	465	62.8	7.3	21.9	0.6	1.1	1.7	4.5
Charlevoix	159	83.6	0.0	1.3	0.0	0.0	15.1	0.0
Cheboygan	149	89.9	0.7	2.0	0.0	1.3	6.0	0.0
Chippewa	294	59.2	0.3	1.0	20.7	0.3	18.0	0.3
Clare	269	94.8	0.0	1.9	0.0	0.0	1.9	1.5
Clinton	257	89.5	1.9	6.6	0.0	0.8	0.4	0.8
Crawford	89	*	*	*	*	*	*	*

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		%	%	%	%	%	%	%
Delta	286	86.7	0.0	2.4	1.7	0.3	8.7	0.0
Dickinson	188	88.3	0.0	4.3	0.0	0.5	3.2	3.7
Eaton	470	87.4	4.7	4.9	0.2	0.9	1.7	0.2
Emmet	209	91.4	0.5	1.9	2.9	1.4	1.9	0.0
Genesee	3,237	52.7	39.4	4.1	0.1	0.4	2.7	0.6
Gladwin	142	97.2	0.0	1.4	0.0	0.0	1.4	0.0
Gogebic	111	83.8	0.0	0.0	12.6	0.0	0.9	2.7
Gr Travers	620	91.5	1.1	3.9	0.8	0.3	1.6	0.8
Gratiot	316	88.9	0.0	9.8	0.3	0.3	0.6	0.0
Hillsdale	348	95.1	0.3	1.7	0.0	0.3	1.1	1.4
Houghton	224	92.4	0.4	1.3	0.0	4.0	1.3	0.4
Huron	215	92.6	0.0	4.2	0.0	1.4	0.9	0.9
Ingham	2,084	49.3	26.8	13.7	0.0	5.3	3.9	0.9
Ionia	496	89.1	0.0	8.7	0.0	0.8	1.4	0.0
Iosco	196	93.9	0.5	3.1	0.0	0.0	2.0	0.5
Iron	87	*	*	*	*	*	*	*
Isabella	419	88.3	3.6	3.6	1.0	0.5	2.6	0.5
Jackson	1,316	76.8	12.5	4.9	0.2	0.5	5.1	0.2
Kalamazoo	1,730	55.2	29.4	9.0	0.1	0.9	4.9	0.6
Kalkaska	113	95.6	0.0	1.8	0.0	0.0	2.7	0.0

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Kent	5,121	45.3	20.8	26.6	0.4	2.4	3.8	0.7
Lake	73	*	*	*	*	*	*	*
Lapeer	584	81.7	0.3	12.3	0.0	0.0	5.0	0.7
Leelanau	55	*	*	*	*	*	*	*
Lenawee	710	81.8	1.1	13.4	0.0	0.0	2.1	1.5
Livingston	609	92.0	0.5	4.3	0.2	0.8	1.3	1.0
Luce	60	*	*	*	*	*	*	*
Mackinac	42	*	*	*	*	*	*	*
Macomb	3,917	66.4	21.7	4.4	0.1	3.8	3.1	0.5
Manistee	119	85.7	0.0	7.6	0.0	0.8	5.9	0.0
Marquette	357	90.2	0.8	1.1	1.4	1.1	5.0	0.3
Mason	217	88.9	0.0	7.8	0.0	0.0	2.8	0.5
Mecosta	309	89.3	4.2	1.9	0.0	1.3	1.6	1.6
Menominee	126	77.8	0.0	2.4	11.9	0.0	4.0	4.0
Midland	484	92.4	1.2	2.7	0.2	0.6	2.5	0.4
Missaukee	73	*	*	*	*	*	*	*
Monroe	891	86.3	5.2	4.9	0.2	0.2	2.1	1.0
Montcalm	474	92.0	0.2	4.4	0.0	0.6	1.7	1.1
Montmorenc	54	*	*	*	*	*	*	*
Muskegon	1,789	63.9	24.3	6.7	0.2	0.1	4.4	0.4

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Newaygo	445	82.9	0.0	13.3	0.0	0.2	1.6	2.0
Oakland	5,007	47.9	37.4	9.5	0.2	2.0	2.5	0.5
Oceana	256	51.2	0.0	45.7	0.4	0.0	2.3	0.4
Ogemaw	184	96.2	0.0	2.2	0.0	0.0	1.6	0.0
Ontonagon	30	*	*	*	*	*	*	*
Osceola	181	96.1	1.7	0.0	0.0	0.6	1.7	0.0
Oscoda	49	*	*	*	*	*	*	*
Otsego	231	95.2	0.0	2.2	0.0	0.0	2.6	0.0
Ottawa	595	87.2	1.7	6.1	0.2	1.0	2.5	1.3
Presque Is	55	*	*	*	*	*	*	*
Roscommon	182	91.8	0.0	1.6	0.0	0.0	4.9	1.6
Saginaw	1,731	45.3	38.7	12.8	0.1	0.6	2.1	0.5
Sanilac	267	91.0	0.0	7.5	0.0	0.4	0.7	0.4
Schoolcraf	60	*	*	*	*	*	*	*
Shiawassee	500	93.2	0.2	4.2	0.0	0.0	2.0	0.4
St Clair	1,063	85.7	4.0	4.9	0.1	0.3	4.4	0.7
St Joseph	632	77.2	2.4	16.3	0.0	0.2	3.2	0.8
Tuscola	386	94.6	0.8	3.4	0.0	0.0	0.8	0.5
Van Buren	695	61.6	4.7	28.2	0.0	0.1	2.3	3.0
Washtenaw	1,607	43.0	35.7	10.0	0.2	5.0	5.9	0.2

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Wayne	16,796	29.1	57.3	9.5	0.1	2.0	1.9	0.1
Wexford	396	94.9	0.5	2.3	0.0	0.5	1.3	0.5
Unknown Counties	117	28.2	17.9	14.5	12.0	5.1	15.4	6.8
Michigan	68,268	57.0	27.3	10.0	0.4	1.7	2.9	0.6
Nation (Prior Year)	1,162,961	41.6	22.7	29.2	1.1	3.4	1.3	0.7

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Table 4B
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Comparison of Age Distribution by County

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County	Number Included in Analysis	< 15 Years %	15 - 17 Years %	18 - 19 Years %	20 - 29 Years %	30 - 39 Years %	>= 40 Years %	Unknown %
Alcona	44	*	*	*	*	*	*	*
Alger	33	*	*	*	*	*	*	*
Allegan	1,708	0.2	5.3	11.5	62.5	19.3	1.2	0.0
Alpena	200	0.0	4.0	11.5	68.0	16.0	0.5	0.0
Antrim	145	0.7	6.9	16.6	55.2	18.6	2.1	0.0
Arenac	127	0.0	3.9	11.0	64.6	19.7	0.8	0.0
Baraga	74	*	*	*	*	*	*	*
Barry	315	0.0	2.9	11.7	62.2	21.6	1.6	0.0
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Benzie	102	0.0	13.7	7.8	62.7	12.7	2.0	1.0
Berrien	1,207	0.2	6.7	13.9	61.1	17.1	0.9	0.1
Branch	411	0.0	5.6	11.9	63.5	17.3	1.7	0.0
Calhoun	1,180	0.2	5.5	13.6	65.2	14.5	0.8	0.2
Cass	465	0.2	5.8	13.1	61.9	17.8	0.9	0.2
Charlevoix	159	0.0	5.7	11.3	63.5	17.6	1.9	0.0
Cheboygan	149	0.0	2.0	14.1	56.4	26.8	0.7	0.0
Chippewa	294	0.0	4.1	11.6	67.7	14.6	2.0	0.0
Clare	269	0.0	3.3	14.9	66.5	13.4	1.9	0.0
Clinton	257	0.0	2.3	10.1	66.5	19.1	1.6	0.4

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Delta	286	0.0	4.2	10.8	66.4	18.2	0.3	0.0
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Emmet	209	0.0	1.9	9.1	69.4	17.7	1.9	0.0
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Gladwin	142	1.4	7.7	9.2	63.4	16.2	0.7	1.4
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Gr Travers	620	0.3	5.8	9.4	59.7	21.8	1.6	1.5
Gratiot	316	0.0	5.7	10.1	67.7	15.5	0.6	0.3
Hillsdale	348	0.3	6.9	13.5	64.7	13.5	1.1	0.0
Houghton	224	0.0	3.1	8.0	59.4	27.7	1.8	0.0
Huron	215	0.9	0.9	8.4	67.0	22.3	0.5	0.0
Ingham	2,084	0.4	4.1	10.8	64.6	18.8	1.2	0.1
Ionia	496	0.4	6.5	15.1	64.1	12.7	1.0	0.2
Iosco	196	0.0	4.6	8.7	71.4	12.8	2.6	0.0
Iron	87	*	*	*	*	*	*	*
Isabella	419	0.0	5.7	12.4	65.9	15.3	0.7	0.0
Jackson	1,316	0.3	4.9	12.7	66.0	15.2	0.5	0.4

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Kalkaska	113	0.0	5.3	10.6	69.0	14.2	0.9	0.0
Kent	5,121	0.2	4.8	11.2	59.7	20.9	1.5	1.7
Lake	73	*	*	*	*	*	*	*
Lapeer	584	0.2	4.1	10.1	62.0	22.4	1.2	0.0
Leelanau	55	*	*	*	*	*	*	*
Lenawee	710	0.0	6.2	12.1	62.8	17.0	1.8	0.0
Livingston	609	0.2	2.8	7.1	62.9	25.1	2.0	0.0
Luce	60	*	*	*	*	*	*	*
Mackinac	42	*	*	*	*	*	*	*
Macomb	3,917	0.1	3.0	9.0	60.9	24.9	2.0	0.0
Manistee	119	0.0	5.0	9.2	65.5	20.2	0.0	0.0
Marquette	357	0.0	4.2	7.8	70.9	16.8	0.3	0.0
Mason	217	0.5	6.5	12.9	68.7	11.1	0.5	0.0
Mecosta	309	0.3	3.6	13.9	65.4	14.6	2.3	0.0
Menominee	126	0.0	4.0	15.9	63.5	15.9	0.8	0.0
Midland	484	0.0	3.1	11.8	67.8	16.5	0.8	0.0
Missaukee	73	*	*	*	*	*	*	*
Monroe	891	0.2	5.7	12.9	64.3	15.5	1.2	0.1

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Montmorenc	54	*	*	*	*	*	*	*
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Newaygo	445	0.2	6.3	16.9	57.8	18.0	0.9	0.0
Oakland	5,007	0.1	3.5	10.5	59.2	24.4	2.1	0.2
Oceana	256	0.0	5.5	14.5	55.9	21.1	3.1	0.0
Ogemaw	184	0.0	8.2	13.6	62.5	15.2	0.5	0.0
Ontonagon	30	*	*	*	*	*	*	*
Osceola	181	0.0	6.6	13.3	61.3	16.0	2.8	0.0
Oscoda	49	*	*	*	*	*	*	*
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Ottawa	595	0.3	3.5	9.2	66.1	19.7	1.2	0.0
Presque Is	55	*	*	*	*	*	*	*
Roscommon	182	0.5	4.9	11.5	65.9	15.9	1.1	0.0
Saginaw	1,731	0.6	5.4	12.8	63.3	16.4	1.4	0.1
Sanilac	267	0.0	4.5	13.5	58.8	20.6	2.2	0.4
Schoolcraf	60	*	*	*	*	*	*	*
Shiawassee	500	0.0	5.2	11.2	65.8	17.0	0.8	0.0
St Clair	1,063	0.0	5.2	13.5	64.5	15.9	0.8	0.0

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Tuscola	386	0.0	4.7	12.4	61.1	20.7	1.0	0.0
Van Buren	695	0.3	4.7	12.1	63.7	17.7	1.4	0.0
Washtenaw	1,607	0.1	4.0	9.3	61.0	23.9	1.5	0.2
Wayne	16,796	0.3	5.0	11.5	58.7	22.3	1.8	0.4
Wexford	396	0.3	4.0	13.4	66.2	14.6	1.5	0.0
Unknown Counties	117	0.0	1.7	3.4	48.7	43.6	1.7	0.9
Michigan	68,268	0.2	4.9	11.5	61.7	19.9	1.5	0.3
Nation (Prior Year)	1,162,961	0.3	5.3	11.5	59.4	21.7	1.7	0.2

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Table 5B
2011 Pregnancy Nutrition Surveillance ⁽¹⁾
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Comparison of Maternal Health Indicators by County

Comparison of Maternal Health Indicators ^(2, 3)																
County	Prepregnancy BMI ⁽⁴⁾				Weight Gain ⁽⁵⁾			Anemia (Low Hb/Hct) ⁽⁶⁾				Gestational Diabetes During Pregnancy		Hypertension During Pregnancy		
	Under-weight		Over-weight		< Ideal		> Ideal		3rd Trimester		Postpartum					
	Number	% (Rank)	% (Rank)		Number	% (Rank)	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	
Alcona	40	* *	* *		36	* *	* *		4	* *	6	* *	40	* *	40	* *
Alger	33	* *	* *		26	* *	* *		2	* *	4	* *	28	* *	28	* *
Allegan	1,403	4.1 (25)	54.3 (39)		906	18.1 (38)	48.8 (23)		211	43.6 (15)	261	34.5 (18)	1,521	7.7 (45)	1,527	8.1 (11)
Alpena	197	8.1 (65)	54.8 (44)		178	13.5 (6)	53.9 (48)		20	* *	42	* *	187	4.8 (13)	187	9.6 (26)
Antrim	115	3.5 (13)	44.3 (1)		104	18.3 (39)	48.1 (19)		14	* *	10	* *	140	4.3 (8)	140	10.7 (38)
Arenac	125	2.4 (2)	60.8 (65)		107	15.0 (13)	56.1 (55)		13	* *	23	* *	119	8.4 (51)	119	10.9 (40)
Baraga	68	* *	* *		61	* *	* *		7	* *	14	* *	67	* *	67	* *
Barry	306	3.3 (8)	58.8 (60)		274	16.1 (19)	53.6 (46)		31	* *	52	* *	301	9.6 (56)	302	9.3 (23)
Bay	610	3.3 (8)	57.9 (58)		511	20.5 (53)	48.3 (20)		71	* *	92	* *	656	9.5 (55)	656	12.2 (51)
Benzie	97	* *	* *		79	* *	* *		14	* *	14	* *	86	* *	86	* *
Berrien	1,057	4.9 (40)	53.5 (28)		899	17.6 (31)	55.6 (52)		201	43.8 (16)	164	30.5 (14)	1,084	3.4 (1)	1,084	6.1 (3)
Branch	393	5.6 (53)	54.7 (43)		339	25.7 (62)	40.7 (2)		64	* *	70	* *	373	9.7 (57)	373	5.1 (1)
Calhoun	1,123	4.5 (34)	54.6 (42)		957	16.7 (24)	50.9 (30)		168	35.7 (10)	137	27.7 (11)	1,074	6.9 (37)	1,068	11.5 (49)
Cass	354	5.6 (53)	55.4 (47)		221	20.4 (50)	48.0 (18)		40	* *	60	* *	397	7.1 (39)	398	7.3 (6)
Charlevoix	146	5.5 (49)	54.1 (35)		123	24.4 (61)	50.4 (28)		10	* *	12	* *	150	6.0 (23)	150	12.7 (56)
Cheboygan	148	3.4 (11)	57.4 (56)		119	18.5 (40)	47.1 (14)		15	* *	24	* *	136	6.6 (33)	137	8.0 (10)
Chippewa	288	3.5 (13)	53.5 (28)		251	17.5 (30)	49.4 (25)		28	* *	50	* *	273	5.1 (18)	273	11.4 (47)

(1) Reporting period is January 1 through December 31.
(2) Excludes records with unknown data or errors.
(3) Rank compares one county's rate to other counties. Rank 1 = best rate.
(4) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI >30.0).
(5) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight prepregnancy (ideal weight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).
(6) Based on 1990 MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States"; adjusted for altitude and smoking.
* Percentages are not calculated if <100 records are available for analysis after exclusions.



Table 5B
2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Maternal Health Indicators by County

Comparison of Maternal Health Indicators ^(2, 3)														
County	Prepregnancy BMI ⁽⁴⁾			Weight Gain ⁽⁵⁾			Anemia (Low Hb/Hct) ⁽⁶⁾				Gestational Diabetes During Pregnancy		Hypertension During Pregnancy	
	Under-weight	Over-weight		< Ideal	> Ideal		3rd Trimester		Postpartum					
	Number	% (Rank)	% (Rank)	Number	% (Rank)	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Clare	261	7.3 (64)	54.4 (40)	232	19.8 (45)	51.7 (38)	28	* *	45	* *	250	3.6 (3)	251	5.2(2)
Clinton	238	5.5 (49)	57.1 (55)	209	11.5 (3)	56.9 (60)	29	* *	76	* *	240	5.0 (15)	239	13.4(62)
Crawford	83	* *	* *	74	* *	* *	7	* *	23	* *	78	* *	78	* *
Delta	269	3.0 (7)	50.6 (10)	234	21.4 (57)	46.6 (10)	23	* *	42	* *	257	10.5 (61)	257	10.5(35)
Dickinson	172	4.1 (25)	50.6 (10)	153	9.8 (2)	60.1 (63)	17	* *	22	* *	170	4.1 (6)	171	12.3(52)
Eaton	449	4.9 (40)	55.9 (49)	377	14.6 (12)	56.8 (58)	57	* *	85	* *	423	4.3 (8)	421	11.4(47)
Emmet	168	2.4 (2)	51.2 (13)	110	20.0 (48)	39.1 (1)	27	* *	23	* *	199	5.0 (15)	199	7.0(5)
Genesee	3,115	5.3 (46)	53.0 (25)	2,814	17.3 (27)	51.8 (40)	641	39.0 (12)	1,098	30.0(13)	3,003	8.4 (51)	2,998	12.8(57)
Gladwin	122	6.6 (62)	45.9 (2)	111	18.0 (36)	52.3 (42)	15	* *	20	* *	131	5.3 (20)	131	9.2(22)
Gogebic	107	2.8 (5)	55.1 (45)	92	* *	* *	21	* *	16	* *	92	* *	92	* *
Gr Travers	593	4.0 (23)	47.0 (4)	517	14.1 (10)	50.9 (30)	71	* *	55	* *	577	3.6 (3)	577	7.5(8)
Gratiot	274	6.2 (59)	51.5 (15)	239	15.9 (18)	48.5 (21)	47	* *	63	* *	294	4.4 (10)	295	13.9(63)
Hillsdale	333	5.1 (43)	59.8 (62)	291	16.8 (25)	58.8 (62)	41	* *	65	* *	315	3.5 (2)	315	8.9(20)
Houghton	213	2.3 (1)	47.9 (5)	191	20.4 (50)	47.6 (16)	24	* *	52	* *	210	8.1 (48)	210	13.3(60)
Huron	200	3.5 (13)	53.5 (28)	180	20.6 (54)	48.9 (24)	21	* *	27	* *	192	9.4 (54)	193	9.8(27)
Ingham	1,923	4.4 (32)	54.1 (35)	1,582	13.7 (7)	55.9 (53)	313	28.4 (3)	362	21.0 (6)	1,889	5.0 (15)	1,889	9.4(24)
Ionia	370	5.4 (47)	50.8 (12)	290	17.9 (34)	50.0 (27)	45	* *	72	* *	448	6.5 (30)	448	8.7(18)

(1) Reporting period is January 1 through December 31.
(2) Excludes records with unknown data or errors.
(3) Rank compares one county's rate to other counties. Rank 1 = best rate.
(4) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI >30.0).
(5) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight prepregnancy (ideal weight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).
(6) Based on 1990 MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States"; adjusted for altitude and smoking.
* Percentages are not calculated if <100 records are available for analysis after exclusions.



Table 5B
2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Maternal Health Indicators by County

Comparison of Maternal Health Indicators ^(2, 3)														
County	Prepregnancy BMI ⁽⁴⁾			Weight Gain ⁽⁵⁾			Anemia (Low Hb/Hct) ⁽⁶⁾				Gestational Diabetes During Pregnancy		Hypertension During Pregnancy	
	Under-weight		Over-weight	< Ideal		> Ideal	3rd Trimester		Postpartum					
	Number	% (Rank)	% (Rank)	Number	% (Rank)	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Iosco	174	3.4 (11)	56.9 (52)	143	23.1 (58)	55.9 (53)	20	* *	33	* *	182	6.6 (33)	182	11.0(41)
Iron	85	* *	* *	70	* *	* *	10	* *	16	* *	76	* *	76	* *
Isabella	414	6.3 (60)	57.0 (54)	372	23.4 (59)	46.8 (11)	44	* *	54	* *	394	5.6 (21)	394	8.1(11)
Jackson	1,184	5.0 (42)	51.4 (14)	947	16.5 (21)	51.6 (37)	153	32.7 (6)	122	25.4 (9)	1,175	6.1 (25)	1,174	10.1(31)
Kalamazoo	1,502	3.8 (20)	55.8 (48)	1,164	19.2 (43)	51.4 (34)	204	39.2 (13)	289	29.1(12)	1,536	13.0 (65)	1,535	8.5(16)
Kalkaska	103	8.7 (66)	51.5 (15)	89	* *	* *	16	* *	22	* *	102	4.9 (14)	102	9.8(27)
Kent	4,303	4.0 (23)	53.5 (28)	3,160	20.2 (49)	47.0 (12)	650	31.5 (5)	797	31.5(17)	4,669	6.3 (28)	4,672	10.0(30)
Lake	70	* *	* *	58	* *	* *	7	* *	11	* *	67	* *	67	* *
Lapeer	571	6.0 (56)	52.0 (21)	497	16.5 (21)	47.7 (17)	83	* *	94	* *	541	10.4 (60)	541	10.7(38)
Leelanau	53	* *	* *	44	* *	* *	7	* *	8	* *	48	* *	48	* *
Lenawee	660	4.7 (38)	51.7 (17)	573	21.1 (56)	45.2 (7)	125	20.8 (1)	139	19.4 (3)	646	6.5 (30)	647	12.5(54)
Livingston	598	3.3 (8)	50.2 (9)	532	13.9 (9)	56.8 (58)	85	* *	170	13.5 (1)	552	7.8 (47)	553	12.8(57)
Luce	56	* *	* *	52	* *	* *	2	* *	9	* *	53	* *	54	* *
Mackinac	40	* *	* *	33	* *	* *	0	* *	9	* *	36	* *	36	* *
Macomb	3,775	4.6 (37)	53.4 (26)	2,641	15.3 (15)	51.8 (40)	694	35.6 (9)	1,177	21.4 (7)	2,870	7.7 (45)	2,873	11.1(43)
Manistee	104	5.8 (55)	51.9 (18)	79	* *	* *	15	* *	18	* *	100	9.0 (53)	100	11.0(41)
Marquette	333	5.1 (43)	46.2 (3)	293	17.4 (29)	54.6 (49)	52	* *	82	* *	328	5.2 (19)	327	12.5(54)

(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.



Table 5B
2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Maternal Health Indicators by County

Comparison of Maternal Health Indicators ^(2, 3)														
County	Prepregnancy BMI ⁽⁴⁾			Weight Gain ⁽⁵⁾			Anemia (Low Hb/Hct) ⁽⁶⁾				Gestational Diabetes During Pregnancy		Hypertension During Pregnancy	
	Under-weight	Over-weight		< Ideal	> Ideal		3rd Trimester		Postpartum					
	Number	% (Rank)	% (Rank)	Number	% (Rank)	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Mason	193	5.2 (45)	53.4 (26)	173	13.3 (5)	55.5 (51)	18	* *	44	* *	202	4.0 (5)	201	9.5(25)
Mecosta	294	6.1 (58)	54.4 (40)	262	15.6 (16)	57.6 (61)	39	* *	52	* *	282	6.0 (23)	282	7.4(7)
Menominee	121	4.1 (25)	52.1 (22)	107	8.4 (1)	56.1 (55)	11	* *	26	* *	107	4.7 (11)	107	8.4(15)
Midland	466	4.7 (38)	54.1 (35)	412	14.1 (10)	56.3 (57)	64	* *	63	* *	452	7.3 (42)	452	15.3(65)
Missaukee	71	* *	* *	60	* *	* *	4	* *	22	* *	68	* *	69	* *
Monroe	819	5.5 (49)	51.9 (18)	699	18.9 (41)	51.5 (36)	120	35.0 (8)	138	21.7 (8)	802	6.1 (25)	804	14.9(64)
Montcalm	454	5.5 (49)	59.9 (63)	387	15.2 (14)	51.7 (38)	72	* *	116	20.7 (5)	435	7.4 (43)	434	10.4(33)
Montmorenc	52	* *	* *	43	* *	* *	4	* *	9	* *	50	* *	50	* *
Muskegon	1,593	3.8 (20)	56.9 (52)	1,414	19.8 (45)	51.3 (33)	192	28.1 (2)	127	20.5 (4)	1,653	8.2 (49)	1,643	11.5(49)
Newaygo	419	3.8 (20)	59.2 (61)	375	16.3 (20)	51.2 (32)	43	* *	80	* *	410	8.3 (50)	412	10.4(33)
Oakland	4,802	3.7 (17)	54.0 (34)	4,144	15.7 (17)	52.7 (43)	912	31.4 (4)	1,149	27.4(10)	4,531	7.1 (39)	4,538	11.3(45)
Oceana	217	2.8 (5)	60.4 (64)	176	23.9 (60)	44.3 (6)	22	* *	37	* *	219	10.0 (59)	219	12.3(52)
Ogemaw	172	3.5 (13)	54.1 (35)	158	16.5 (21)	53.8 (47)	21	* *	21	* *	171	4.7 (11)	171	9.9(29)
Ontonagon	29	* *	* *	27	* *	* *	2	* *	2	* *	29	* *	29	* *
Osceola	176	6.8 (63)	55.1 (45)	156	17.9 (34)	48.7 (22)	22	* *	26	* *	172	4.1 (6)	172	7.6(9)
Oscoda	46	* *	* *	38	* *	* *	5	* *	3	* *	44	* *	45	* *
Otsego	162	3.7 (17)	58.0 (59)	145	20.7 (55)	42.1 (5)	20	* *	21	* *	220	5.9 (22)	220	6.8(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.



Table 5B
2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Maternal Health Indicators by County

Comparison of Maternal Health Indicators ^(2, 3)														
County	Prepregnancy BMI ⁽⁴⁾			Weight Gain ⁽⁵⁾			Anemia (Low Hb/Hct) ⁽⁶⁾				Gestational Diabetes During Pregnancy		Hypertension During Pregnancy	
	Under-weight		Over-weight	< Ideal		> Ideal	3rd Trimester		Postpartum					
	Number	% (Rank)	% (Rank)	Number	% (Rank)	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Ottawa	546	4.4 (32)	48.0 (7)	417	19.9 (47)	45.3 (8)	61	* *	97	* *	555	6.1 (25)	555	10.6(36)
Presque Is	53	* *	* *	49	* *	* *	12	* *	8	* *	52	* *	52	* *
Roscommon	167	4.2 (29)	53.9 (32)	146	13.7 (7)	53.4 (45)	20	* *	47	* *	165	6.7 (36)	165	13.3(60)
Saginaw	1,508	3.7 (17)	57.7 (57)	1,197	19.6 (44)	49.5 (26)	239	41.0 (14)	405	30.9(15)	1,595	6.3 (28)	1,592	10.2(32)
Sanilac	258	5.4 (47)	53.9 (32)	233	18.0 (36)	46.4 (9)	24	* *	46	* *	247	9.7 (57)	248	8.1(11)
Schoolcraf	60	* *	* *	56	* *	* *	4	* *	2	* *	58	* *	58	* *
Shiawassee	492	6.5 (61)	52.8 (24)	423	13.2 (4)	53.0 (44)	61	* *	71	* *	457	6.6 (33)	456	8.1(11)
St Clair	1,029	4.5 (34)	47.9 (5)	879	17.7 (33)	50.7 (29)	125	32.8 (7)	218	15.1 (2)	956	7.2 (41)	958	8.5(16)
St Joseph	503	6.0 (56)	52.7 (23)	388	17.3 (27)	47.4 (15)	86	* *	113	38.1(20)	582	12.4 (63)	582	8.8(19)
Tuscola	353	4.5 (34)	49.6 (8)	323	20.4 (50)	41.2 (3)	35	* *	53	* *	364	10.7 (62)	364	11.3(45)
Van Buren	605	4.1 (25)	61.5 (66)	343	32.7 (63)	41.4 (4)	70	* *	82	* *	610	12.5 (64)	610	11.1(43)
Washtenaw	1,488	4.3 (31)	51.9 (18)	1,183	16.9 (26)	47.0 (12)	263	35.7 (10)	392	30.9(15)	1,421	7.0 (38)	1,424	9.1(21)
Wayne	15,426	4.2 (29)	56.0 (50)	12,336	17.6 (31)	51.4 (34)	2,952	44.4 (17)	3,666	35.5(19)	15,282	6.5 (30)	15,292	10.6(36)
Wexford	379	2.6 (4)	56.5 (51)	338	18.9 (41)	55.3 (50)	33	* *	87	* *	365	7.4 (43)	365	12.9(59)
Unknown Counties	79	* *	* *	59	* *	* *	10	* *	23	* *	73	* *	72	* *
Michigan	62,450	4.4	54.4	50,780	17.6	51.0	10,073	35.7	13,477	28.1	61,404	7.0	61,421	10.5

(1) Reporting period is January 1 through December 31.
(2) Excludes records with unknown data or errors.
(3) Rank compares one county's rate to other counties. Rank 1 = best rate.
(4) 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.



Table 5B
2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Maternal Health Indicators by County

Comparison of Maternal Health Indicators ^(2, 3)														
County	Prepregnancy BMI (4)			Weight Gain (5)			Anemia (Low Hb/Hct) (6)				Gestational Diabetes During Pregnancy	Hypertension During Pregnancy		
	Under-weight		Over-weight	< Ideal		> Ideal	3rd Trimester		Postpartum					
	Number	% (Rank)	% (Rank)	Number	% (Rank)	% (Rank)	Number	% (Rank)	Number	% (Rank)			Number	% (Rank)
Nation (Prior Year)	1,106,370	4.5	53.4	835,927	21.5	48.0	164,201	33.9	346,981	28.1	419,956	5.2	467,675	6.3

(1) Reporting period is January 1 through December 31.
(2) Excludes records with unknown data or errors.
(3) Rank compares one county's rate to other counties. Rank 1 = best rate.
(4) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI >30.0).
(5) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight prepregnancy (ideal weight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).
(6) Based on 1990 MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States"; adjusted for altitude and smoking.
* Percentages are not calculated if <100 records are available for analysis after exclusions.



Table 6B
2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Maternal Behavioral Indicators by County

Comparison of Maternal Behavioral Indicators ^(2, 3)										
County	Medical Care				WIC Enrollment		Multivitamin Consumption			
	1st Trimester		No Care		1st Trimester		Prepregnancy (4)		During Pregnancy (5)	
	Number	% (Rank)	%	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Alcona	40	* *	* *	* *	41	* *	27	* *	33	* *
Alger	28	* *	* *	* *	33	* *	21	* *	32	* *
Allegan	1,484	88.8 (10)	5.3 (11)		1,680	43.4 (43)	1,322	18.2 (50)	1,388	81.3 (47)
Alpena	188	94.7 (2)	3.2 (3)		199	48.2 (22)	195	23.6 (32)	178	93.3 (6)
Antrim	141	62.4 (63)	28.4 (64)		142	52.1 (7)	134	20.1 (44)	124	83.9 (40)
Arenac	119	78.2 (38)	12.6 (34)		123	45.5 (36)	114	27.2 (14)	104	94.2 (5)
Baraga	68	* *	* *	* *	72	* *	73	* *	67	* *
Barry	292	91.8 (3)	4.1 (6)		304	44.4 (39)	223	28.7 (10)	256	84.8 (37)
Bay	656	75.2 (46)	17.8 (47)		683	51.8 (10)	673	21.1 (38)	619	82.9 (42)
Benzie	87	* *	* *	* *	99	* *	80	* *	87	* *
Berrien	1,071	81.0 (33)	5.6 (14)		1,177	35.9 (56)	843	15.3 (54)	980	89.9 (15)
Branch	308	75.0 (47)	14.0 (36)		406	47.0 (27)	384	15.9 (53)	357	72.3 (62)
Calhoun	1,059	79.1 (36)	12.0 (32)		1,164	40.9 (52)	792	23.6 (32)	977	75.9 (56)
Cass	389	84.8 (21)	5.9 (15)		459	42.7 (46)	275	32.0 (6)	362	73.5 (61)
Charlevoix	150	72.0 (55)	21.3 (55)		159	54.7 (2)	154	27.9 (11)	140	82.1 (45)
Cheboygan	139	75.5 (45)	18.0 (48)		144	45.8 (35)	123	26.0 (20)	130	86.2 (29)
Chippewa	268	75.7 (43)	18.7 (50)		287	57.5 (1)	203	33.5 (4)	265	75.8 (58)
Clare	251	62.2 (64)	26.7 (62)		259	47.9 (23)	176	29.5 (7)	219	88.6 (20)
Clinton	238	90.3 (6)	5.5 (13)		251	41.4 (50)	215	20.5 (41)	195	82.6 (43)
Crawford	77	* *	* *	* *	85	* *	80	* *	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) Women who reported taking a multivitamin four times a week 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.



Table 6B
2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Maternal Behavioral Indicators by County

Comparison of Maternal Behavioral Indicators ^(2, 3)										
County	Medical Care				WIC Enrollment		Multivitamin Consumption			
	1st Trimester		No Care		1st Trimester		Prepregnancy (4)		During Pregnancy (5)	
	Number	% (Rank)	%	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Delta	256	84.4 (24)	9.8	(31)	280	52.5 (6)	273	25.6 (25)	250	85.6 (33)
Dickinson	170	91.2 (4)	6.5	(19)	187	47.1 (26)	176	23.9 (29)	155	94.8 (4)
Eaton	412	86.2 (16)	7.8	(22)	460	40.4 (54)	337	23.7 (31)	375	85.1 (36)
Emmet	201	80.6 (34)	17.4	(45)	206	50.5 (14)	204	37.3 (2)	179	86.6 (28)
Genesee	2,995	83.5 (26)	2.7	(2)	3,193	22.9 (66)	2,288	8.3 (65)	2,438	79.3 (52)
Gladwin	129	74.4 (49)	24.8	(60)	140	52.1 (7)	127	15.0 (56)	123	85.4 (34)
Gogebic	92	* *	* *		107	32.7 (61)	103	22.3 (35)	94	* *
Gr Travers	572	61.9 (65)	32.2	(65)	612	46.6 (28)	513	32.2 (5)	515	87.8 (22)
Gratiot	292	81.2 (32)	8.6	(26)	309	46.3 (29)	267	25.8 (21)	270	87.4 (24)
Hillsdale	304	89.8 (8)	4.6	(8)	342	40.9 (52)	317	12.0 (61)	275	85.8 (32)
Houghton	211	78.2 (38)	15.6	(41)	221	42.5 (47)	214	36.9 (3)	181	90.1 (13)
Huron	195	79.0 (37)	15.9	(42)	211	48.8 (20)	201	20.4 (42)	180	90.0 (14)
Ingham	1,834	82.3 (28)	8.8	(28)	2,054	35.6 (57)	1,825	16.9 (51)	1,730	86.8 (26)
Ionia	450	95.1 (1)	2.4	(1)	485	50.3 (15)	468	10.3 (64)	432	95.4 (3)
Iosco	185	89.2 (9)	5.4	(12)	194	47.4 (25)	168	25.6 (25)	167	87.4 (24)
Iron	76	* *	* *		83	* *	67	* *	73	* *
Isabella	392	77.8 (40)	19.1	(51)	409	49.1 (17)	395	25.8 (21)	369	90.5 (10)
Jackson	1,153	84.7 (22)	7.9	(23)	1,294	47.6 (24)	771	26.1 (19)	1,112	75.9 (56)
Kalamazoo	1,532	74.2 (51)	17.0	(43)	1,694	45.9 (33)	1,613	15.3 (54)	1,466	74.4 (60)
Kalkaska	102	74.5 (48)	19.6	(52)	112	49.1 (17)	109	25.7 (23)	104	87.5 (23)

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

(2) Excludes records with unknown data or errors.

(3) Rank compares one county's rate to other counties. Rank 1 = best rate.

(4) Women who reported taking a multivitamin four times a week 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.



Table 6B
2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Maternal Behavioral Indicators by County

Comparison of Maternal Behavioral Indicators ^(2, 3)										
County	Medical Care				WIC Enrollment		Multivitamin Consumption			
	1st Trimester		No Care		1st Trimester		Prepregnancy (4)		During Pregnancy (5)	
	Number	% (Rank)	% (Rank)		Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Kent	4,620	77.1 (41)	14.7 (37)		5,031	40.0 (55)	4,410	19.1 (48)	4,368	85.2 (35)
Lake	67	* *	* *		72	* *	65	* *	63	* *
Lapeer	533	73.2 (53)	20.5 (54)		576	43.2 (44)	496	19.4 (47)	483	80.5 (49)
Leelanau	45	* *	* *		55	* *	45	* *	44	* *
Lenawee	632	83.2 (27)	7.9 (23)		693	35.4 (59)	394	15.0 (56)	563	90.4 (11)
Livingston	555	84.9 (20)	8.8 (28)		598	29.1 (64)	523	27.5 (13)	439	90.4 (11)
Luce	54	* *	* *		56	* *	50	* *	50	* *
Mackinac	36	* *	* *		41	* *	39	* *	36	* *
Macomb	2,847	88.6 (11)	3.9 (5)		3,871	32.5 (62)	2,326	23.8 (30)	3,217	88.9 (18)
Manistee	101	73.3 (52)	13.9 (35)		117	43.6 (42)	102	25.5 (27)	103	80.6 (48)
Marquette	323	91.0 (5)	5.9 (15)		356	44.4 (39)	295	26.8 (16)	307	90.6 (9)
Mason	201	69.7 (59)	26.9 (63)		212	54.2 (3)	200	22.0 (36)	189	86.8 (26)
Mecosta	282	87.6 (14)	8.2 (25)		306	41.2 (51)	175	86.9 (1)	259	91.9 (7)
Menominee	103	75.7 (43)	17.5 (46)		122	45.9 (33)	87	* *	98	* *
Midland	455	81.3 (30)	15.2 (39)		480	46.3 (29)	462	26.6 (17)	420	96.2 (1)
Missaukee	67	* *	* *		73	* *	53	* *	68	* *
Monroe	797	76.3 (42)	14.8 (38)		875	46.1 (31)	843	20.0 (45)	744	89.8 (16)
Montcalm	433	87.1 (15)	7.4 (21)		460	41.7 (49)	404	14.6 (58)	393	88.8 (19)
Montmorenc	49	* *	* *		52	* *	51	* *	41	* *
Muskegon	1,601	85.6 (18)	6.2 (18)		1,771	50.6 (12)	1,323	20.2 (43)	1,499	75.1 (59)

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

(2) Excludes records with unknown data or errors.

(3) Rank compares one county's rate to other counties. Rank 1 = best rate.

(4) Women who reported taking a multivitamin four times a week 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.



Table 6B
2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Maternal Behavioral Indicators by County

Comparison of Maternal Behavioral Indicators ^(2, 3)										
County	Medical Care				WIC Enrollment		Multivitamin Consumption			
	1st Trimester		No Care		1st Trimester		Prepregnancy (4)		During Pregnancy (5)	
	Number	% (Rank)	%	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Newaygo	398	90.2 (7)	3.8	(4)	441	43.8 (41)	391	25.1 (28)	372	86.0 (31)
Oakland	4,498	85.5 (19)	5.9	(15)	4,958	29.8 (63)	3,263	16.2 (52)	3,886	86.1 (30)
Oceana	211	67.3 (62)	26.1	(61)	249	53.0 (5)	217	12.4 (60)	208	67.8 (64)
Ogemaw	175	88.0 (13)	5.1	(10)	180	50.6 (12)	151	26.5 (18)	157	91.1 (8)
Ontonagon	29	* *	* *		30	* *	29	* *	28	* *
Osceola	172	74.4 (49)	18.0	(48)	176	53.4 (4)	172	20.9 (40)	153	79.1 (53)
Oscoda	45	* *	* *		48	* *	48	* *	45	* *
Otsego	222	79.3 (35)	15.3	(40)	222	50.9 (11)	202	25.7 (23)	200	83.5 (41)
Ottawa	551	85.7 (17)	9.1	(30)	589	43.1 (45)	441	29.5 (7)	488	88.3 (21)
Presque Is	52	* *	* *		54	* *	35	* *	47	* *
Roscommon	162	88.3 (12)	4.9	(9)	176	33.0 (60)	170	20.0 (45)	151	96.0 (2)
Saginaw	1,560	71.2 (56)	17.1	(44)	1,693	46.1 (31)	1,606	11.1 (62)	1,499	77.1 (55)
Sanilac	244	81.6 (29)	12.3	(33)	266	45.1 (37)	155	29.0 (9)	225	79.6 (51)
Schoolcraf	59	* *	* *		59	* *	57	* *	57	* *
Shiawassee	452	69.9 (58)	23.9	(58)	487	48.9 (19)	476	18.5 (49)	432	84.0 (39)
St Clair	945	73.1 (54)	20.1	(53)	1,049	49.9 (16)	663	21.0 (39)	937	79.7 (50)
St Joseph	573	67.9 (61)	24.6	(59)	623	42.4 (48)	591	11.0 (63)	535	79.1 (53)
Tuscola	363	69.1 (60)	22.9	(57)	376	48.7 (21)	371	27.0 (15)	338	89.3 (17)
Van Buren	579	84.5 (23)	8.6	(26)	682	44.7 (38)	480	21.9 (37)	559	70.8 (63)
Washtenaw	1,421	84.2 (25)	7.0	(20)	1,588	35.5 (58)	1,497	22.5 (34)	1,321	81.8 (46)

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

(2) Excludes records with unknown data or errors.

(3) Rank compares one county's rate to other counties. Rank 1 = best rate.

(4) Women who reported taking a multivitamin four times a week 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.



Table 6B
2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Maternal Behavioral Indicators by County

Comparison of Maternal Behavioral Indicators ^(2, 3)										
County	Medical Care				WIC Enrollment		Multivitamin Consumption			
	1st Trimester		No Care		1st Trimester		Pregnancy (4)		During Pregnancy (5)	
	Number	% (Rank)	%	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Wayne	15,140	81.3 (30)	4.5	(7)	16,515	25.8 (65)	11,019	14.5 (59)	13,292	82.4 (44)
Wexford	361	70.1 (57)	22.4	(56)	387	51.9 (9)	264	27.7 (12)	342	84.2 (38)
Unknown Counties	84	* *	*	*	112	22.3 (67)	65	* *	39	* *
Michigan	60,703	81.1	9.2		67,137	36.7	51,249	18.8	55,764	83.4
Nation (Prior Year)	429,770	83.1	4.1		1,074,863	36.0	380,154	19.2	418,448	85.0

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

(2) Excludes records with unknown data or errors.

(3) Rank compares one county's rate to other counties. Rank 1 = best rate.

(4) Women who reported taking a multivitamin four times a week 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.



Table 7B
2011 Pregnancy Nutrition Surveillance (1)
Michigan
Comparison of Smoking Indicators by County

Comparison of Smoking Indicators (2, 3)										
County	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (4)	Smoking in Household				
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy			Prenatal		Postpartum		
	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Alcona	35	* *	40	* *	16	* *	33	* *	40	* *
Alger	32	* *	28	* *	15	* *	32	* *	28	* *
Allegan	1,585	30.6 (6)	1,523	16.0 (7)	404	39.9 (12)	1,397	8.3 (3)	1,530	3.1 (6)
Alpena	196	53.6 (59)	186	30.6 (58)	91	* *	178	16.9 (24)	187	2.7 (4)
Antrim	138	49.3 (52)	142	29.6 (55)	59	* *	124	21.8 (48)	142	9.2 (61)
Arenac	115	43.5 (36)	119	27.7 (46)	43	* *	104	25.0 (55)	118	8.5 (60)
Baraga	73	* *	68	* *	35	* *	67	* *	68	* *
Barry	290	35.9 (16)	299	23.7 (29)	93	* *	258	14.0 (12)	302	3.6 (10)
Bay	677	49.2 (51)	656	24.4 (32)	286	35.0 (23)	620	18.2 (29)	657	4.9 (28)
Benzie	95	* *	85	* *	40	* *	87	* *	86	* *
Berrien	1,119	36.9 (18)	1,085	19.7 (15)	332	36.4 (20)	980	19.3 (36)	1,085	5.9 (39)
Branch	393	37.2 (19)	373	22.8 (27)	121	27.3 (37)	357	21.3 (46)	373	4.6 (23)
Calhoun	1,089	38.4 (23)	1,070	20.7 (19)	349	32.4 (28)	979	19.5 (38)	1,074	4.9 (28)
Cass	410	33.2 (11)	397	21.4 (22)	111	27.9 (36)	365	17.8 (28)	396	8.3 (59)
Charlevoix	158	46.8 (48)	150	25.3 (38)	65	* *	140	23.6 (52)	149	6.0 (40)

(1) Reporting period is January 1 through December 31.
(2) Excludes records with unknown data or errors.
(3) Rank compares one county's rate to other counties. Rank 1 = best rate.
(4) Among women who smoked 3 months prior to pregnancy.
* Percentages are not calculated if <100 records are available for analysis after exclusions.



Table 7B
2011 Pregnancy Nutrition Surveillance (1)
Michigan
Comparison of Smoking Indicators by County

Comparison of Smoking Indicators (2, 3)										
County	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (4)		Smoking in Household			
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Cheboygan	143	53.8 (60)	133	33.1 (60)	62	* *	130	20.8 (44)	137	4.4 (19)
Chippewa	277	54.5 (61)	270	29.3 (54)	135	39.3 (14)	266	15.8 (20)	273	5.1 (32)
Clare	243	59.3 (63)	251	38.6 (64)	121	29.8 (33)	220	29.1 (62)	250	9.6 (62)
Clinton	235	40.0 (29)	238	20.6 (18)	78	* *	193	11.4 (6)	239	4.2 (16)
Crawford	80	* *	78	* *	39	* *	68	* *	78	* *
Delta	276	43.8 (38)	258	27.9 (47)	95	* *	250	19.2 (35)	258	2.7 (4)
Dickinson	177	52.0 (56)	171	22.8 (27)	74	* *	155	14.8 (16)	172	3.5 (8)
Eaton	440	35.0 (14)	423	19.1 (13)	121	39.7 (13)	378	16.1 (21)	423	6.9 (51)
Emmet	204	40.2 (30)	199	24.6 (34)	71	* *	179	15.6 (19)	199	5.5 (35)
Genesee	2,958	34.0 (12)	3,005	17.7 (11)	815	41.8 (10)	2,440	18.6 (30)	3,011	3.8 (12)
Gladwin	133	52.6 (58)	131	34.4 (62)	61	* *	123	32.5 (63)	131	17.6 (65)
Gogebic	104	62.5 (66)	92	* *	51	* *	94	* *	92	* *
Gr Travers	590	39.8 (28)	573	17.8 (12)	195	44.1 (8)	514	11.3 (5)	575	5.6 (37)
Gratiot	297	41.1 (32)	294	27.9 (47)	103	28.2 (34)	271	19.9 (41)	294	7.1 (54)
Hillsdale	318	38.7 (24)	316	26.3 (41)	98	* *	275	18.9 (32)	316	5.1 (32)

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

(2) Excludes records with unknown data or errors.

(3) Rank compares one county's rate to other counties. Rank 1 = best rate.

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

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



Table 7B
2011 Pregnancy Nutrition Surveillance (1)
Michigan
Comparison of Smoking Indicators by County

Comparison of Smoking Indicators (2, 3)										
County	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (4)	Smoking in Household				
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy			Prenatal		Postpartum		
	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Houghton	213	38.0 (22)	210	21.4 (22)	68	* *	179	7.3 (1)	210	0.5 (1)
Huron	203	45.3 (41)	195	29.2 (53)	78	* *	180	26.1 (58)	196	6.1 (41)
Ingham	1,968	34.0 (12)	1,886	16.3 (8)	534	41.2 (11)	1,729	16.1 (21)	1,890	4.4 (19)
Ionia	476	35.1 (15)	450	26.0 (39)	136	18.4 (40)	432	25.2 (57)	451	5.3 (34)
Iosco	183	51.9 (55)	186	32.3 (59)	82	* *	167	21.0 (45)	186	6.5 (48)
Iron	81	* *	76	* *	34	* *	73	* *	76	* *
Isabella	404	46.0 (45)	393	24.9 (35)	169	38.5 (16)	369	23.3 (51)	394	6.1 (41)
Jackson	1,216	44.1 (39)	1,173	23.8 (31)	449	37.6 (18)	1,116	18.9 (32)	1,176	4.8 (27)
Kalamazoo	1,639	41.2 (33)	1,537	20.2 (17)	540	38.3 (17)	1,466	21.7 (47)	1,537	6.6 (50)
Kalkaska	110	57.3 (62)	102	33.3 (61)	54	* *	104	20.2 (43)	101	5.0 (31)
Kent	4,853	28.3 (3)	4,677	13.9 (5)	1,125	39.2 (15)	4,372	9.4 (4)	4,675	2.4 (2)
Lake	67	* *	67	* *	36	* *	63	* *	67	* *
Lapeer	551	37.4 (20)	539	21.9 (24)	175	35.4 (22)	487	19.1 (34)	541	6.3 (45)
Leelanau	49	* *	48	* *	15	* *	44	* *	49	* *
Lenawee	652	29.1 (5)	644	21.1 (21)	154	25.3 (39)	514	12.8 (9)	565	6.4 (47)

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

(2) Excludes records with unknown data or errors.

(3) Rank compares one county's rate to other counties. Rank 1 = best rate.

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

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



Table 7B
2011 Pregnancy Nutrition Surveillance (1)
Michigan
Comparison of Smoking Indicators by County

Comparison of Smoking Indicators (2, 3)										
County	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (4)	Smoking in Household				
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy			Prenatal		Postpartum		
	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Livingston	582	43.1 (34)	552	20.8 (20)	195	52.8 (1)	444	13.1 (10)	554	2.5 (3)
Luce	53	* *	54	* *	27	* *	50	* *	54	* *
Mackinac	39	* *	36	* *	18	* *	36	* *	36	* *
Macomb	3,738	30.9 (7)	2,874	12.7 (3)	724	46.3 (5)	3,211	14.1 (13)	2,875	3.5 (8)
Manistee	112	46.4 (46)	100	27.0 (44)	40	* *	102	18.6 (30)	100	7.0 (53)
Marquette	339	52.2 (57)	327	29.7 (56)	150	36.0 (21)	308	17.2 (25)	327	3.1 (6)
Mason	205	40.5 (31)	202	22.3 (25)	75	* *	189	15.3 (18)	202	4.0 (13)
Mecosta	292	45.5 (42)	283	29.0 (51)	106	25.5 (38)	259	14.3 (14)	283	4.2 (16)
Menominee	113	59.3 (63)	106	43.4 (65)	53	* *	98	* *	107	4.7 (25)
Midland	463	43.6 (37)	454	24.9 (35)	176	33.0 (27)	420	17.6 (27)	452	4.9 (28)
Missaukee	72	* *	69	* *	18	* *	68	* *	69	* *
Monroe	844	44.4 (40)	804	26.1 (40)	295	33.9 (24)	744	13.4 (11)	804	6.5 (48)
Montcalm	441	43.1 (34)	436	28.7 (50)	160	30.6 (32)	393	19.8 (40)	437	5.5 (35)
Montmorenc	52	* *	50	* *	18	* *	41	* *	50	* *
Muskegon	1,666	39.6 (26)	1,647	23.7 (29)	557	31.8 (31)	1,506	19.5 (38)	1,650	7.5 (55)

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

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Table 7B
2011 Pregnancy Nutrition Surveillance (1)
Michigan
Comparison of Smoking Indicators by County

Comparison of Smoking Indicators (2, 3)										
County	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (4)		Smoking in Household			
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Newaygo	410	36.1 (17)	412	19.7 (15)	127	33.9 (24)	372	19.4 (37)	412	5.8 (38)
Oakland	4,745	23.7 (2)	4,540	9.4 (1)	868	48.7 (4)	3,888	11.7 (7)	4,534	3.7 (11)
Oceana	222	32.4 (9)	219	19.2 (14)	62	* *	209	14.4 (15)	219	4.6 (23)
Ogemaw	173	50.3 (54)	174	30.5 (57)	71	* *	158	27.8 (60)	174	6.9 (51)
Ontonagon	29	* *	29	* *	12	* *	28	* *	29	* *
Osceola	174	39.7 (27)	172	25.0 (37)	60	* *	153	33.3 (64)	172	14.0 (64)
Oscoda	48	* *	45	* *	21	* *	45	* *	45	* *
Otsego	226	45.6 (43)	220	29.1 (52)	87	* *	200	26.5 (59)	220	11.8 (63)
Ottawa	556	32.7 (10)	552	14.3 (6)	162	50.6 (2)	489	7.4 (2)	555	4.5 (21)
Presque Is	54	* *	52	* *	20	* *	48	* *	52	* *
Roscommon	170	59.4 (65)	165	35.8 (63)	82	* *	151	23.2 (50)	165	6.1 (41)
Saginaw	1,629	39.1 (25)	1,597	16.8 (9)	540	44.4 (7)	1,491	22.5 (49)	1,584	7.7 (58)
Sanilac	251	45.8 (44)	248	28.6 (49)	98	* *	226	19.9 (41)	246	4.5 (21)
Schoolcraf	58	* *	58	* *	21	* *	57	* *	59	* *
Shiawassee	473	46.7 (47)	453	27.4 (45)	188	31.9 (30)	431	28.8 (61)	459	6.1 (41)

(1) Reporting period is January 1 through December 31.
(2) Excludes records with unknown data or errors.
(3) Rank compares one county's rate to other counties. Rank 1 = best rate.
(4) Among women who smoked 3 months prior to pregnancy.
* Percentages are not calculated if <100 records are available for analysis after exclusions.



Table 7B
2011 Pregnancy Nutrition Surveillance (1)
Michigan
Comparison of Smoking Indicators by County

Comparison of Smoking Indicators (2, 3)										
County	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (4)		Smoking in Household			
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
St Clair	1,013	49.1 (50)	953	26.5 (42)	401	37.2 (19)	940	25.0 (55)	957	7.6 (56)
St Joseph	593	37.9 (21)	584	22.4 (26)	177	28.2 (34)	535	15.1 (17)	585	4.1 (14)
Tuscola	370	49.7 (53)	364	24.5 (33)	160	42.5 (9)	338	24.3 (54)	364	4.1 (14)
Van Buren	621	31.7 (8)	603	17.2 (10)	160	33.8 (26)	558	12.5 (8)	611	4.3 (18)
Washtenaw	1,528	28.9 (4)	1,424	13.1 (4)	317	46.1 (6)	1,323	16.8 (23)	1,421	4.7 (25)
Wayne	15,708	21.6 (1)	15,296	9.6 (2)	2,520	50.1 (3)	13,326	17.5 (26)	15,305	7.6 (56)
Wexford	373	47.5 (49)	364	26.9 (43)	148	32.4 (28)	342	24.0 (53)	365	6.3 (45)
Unknown Counties	69	* *	73	* *	9	* *	38	* *	73	* *
Michigan	64,049	32.8	61,427	16.9	16,751	39.5	55,787	16.8	61,403	5.5
Nation (Prior Year)	814,631	23.0	715,034	12.1	137,883	38.1	660,570	16.3	562,126	15.6

(1) Reporting period is January 1 through December 31.
(2) Excludes records with unknown data or errors.
(3) Rank compares one county's rate to other counties. Rank 1 = best rate.
(4) Among women who smoked 3 months prior to pregnancy.
* Percentages are not calculated if <100 records are available for analysis after exclusions.



Table 8B
2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Infant Health Indicators by County

Comparison of Infant Health Indicators ^(2, 3)												
County	Birthweight				Preterm (6)		Full Term LBW (7)		Ever Breastfed			
	Low (4)		High (5)		Number	%	Number	%	Number	%		
	Number	% (Rank)	% (Rank)	(Rank)							(Rank)	(Rank)
Alcona	37	* * * *	* * * *			36	* *		29	* *	38	* *
Alger	27	* * * *	* * * *			28	* *		24	* *	27	* *
Allegan	1,422	6.2 (15)	8.0 (31)			1,483	10.5 (32)		1,264	2.5 (14)	1,468	72.0 (20)
Alpena	176	5.7 (7)	14.2 (61)			180	7.2 (5)		162	2.5 (14)	176	53.4 (58)
Antrim	126	4.8 (4)	4.0 (1)			134	6.0 (1)		118	3.4 (40)	130	84.6 (2)
Arenac	105	7.6 (38)	11.4 (57)			104	6.7 (2)		95	* *	105	62.9 (47)
Baraga	61	* * * *	* * * *			64	* *		54	* *	61	* *
Barry	277	6.9 (25)	8.7 (39)			282	9.6 (20)		245	3.3 (37)	277	71.8 (22)
Bay	621	7.7 (40)	9.7 (47)			629	12.6 (55)		538	2.4 (11)	620	59.8 (51)
Benzie	79	* * * *	* * * *			82	* *		69	* *	79	* *
Berrien	1,023	9.7 (57)	8.1 (32)			1,039	10.8 (34)		897	3.5 (43)	1,024	52.1 (60)
Branch	348	6.9 (25)	8.9 (43)			359	10.9 (37)		306	2.3 (10)	348	58.9 (52)
Calhoun	1,018	8.3 (47)	8.8 (41)			1,051	10.8 (34)		911	2.9 (26)	1,017	58.3 (53)
Cass	359	7.0 (27)	7.5 (23)			378	9.8 (22)		319	4.1 (53)	370	64.3 (45)

(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.



Table 8B
2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Infant Health Indicators by County

Comparison of Infant Health Indicators ^(2, 3)										
County	Birthweight				Preterm (6)		Full Term LBW (7)		Ever Breastfed	
	Low (4)		High (5)							
	Number	% (Rank)	%	(Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Charlevoix	138	5.8 (8)	9.4 (46)		146	8.9 (16)	127	2.4 (11)	143	83.9 (3)
Cheboygan	131	8.4 (50)	5.3 (3)		130	8.5 (13)	116	5.2 (60)	132	65.2 (41)
Chippewa	247	6.5 (20)	15.0 (62)		254	9.1 (18)	222	3.6 (46)	247	68.8 (36)
Clare	220	8.2 (44)	7.7 (27)		228	13.2 (61)	187	2.7 (22)	219	61.6 (48)
Clinton	222	7.2 (30)	8.1 (32)		225	10.2 (29)	197	2.5 (14)	222	83.8 (4)
Crawford	73	* * * *			75	* *	65	* *	73	* *
Delta	241	8.3 (47)	8.7 (39)		245	13.1 (58)	205	2.9 (26)	240	65.8 (39)
Dickinson	158	4.4 (3)	8.9 (43)		163	8.0 (9)	145	1.4 (2)	158	69.6 (31)
Eaton	397	7.1 (29)	9.8 (49)		409	9.5 (19)	356	2.5 (14)	401	75.1 (13)
Emmet	175	8.0 (41)	10.3 (52)		192	12.5 (54)	153	2.6 (20)	188	80.9 (6)
Genesee	2,910	10.5 (59)	5.1 (2)		2,960	14.0 (62)	2,477	4.0 (52)	2,906	52.4 (59)
Gladwin	122	6.6 (21)	10.7 (54)		126	7.1 (4)	114	4.4 (56)	122	73.8 (15)
Gogebic	87	* * * *			88	* *	80	* *	87	* *
Gr Travers	526	7.6 (38)	10.6 (53)		549	10.2 (29)	469	3.0 (33)	525	81.1 (5)

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- (4) <2500 g.
- (5) >4000 g.
- (6) <37 weeks gestation.
- (7) 37 or more weeks gestation and <2500 g.
- * Percentages are not calculated if <100 records are available for analysis after exclusions.



Table 8B
2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Infant Health Indicators by County

Comparison of Infant Health Indicators ^(2, 3)										
County	Birthweight				Preterm (6)		Full Term LBW (7)		Ever Breastfed	
	Low (4)		High (5)							
	Number	% (Rank)	%	(Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Gratiot	267	7.5 (34)	6.0	(9)	278	12.2 (52)	228	3.5 (43)	271	72.7 (18)
Hillsdale	286	7.3 (32)	8.4	(37)	303	7.6 (7)	264	3.4 (40)	288	70.1 (28)
Houghton	198	6.1 (12)	8.6	(38)	200	11.0 (39)	174	2.9 (26)	197	84.8 (1)
Huron	188	9.0 (53)	12.2	(59)	190	12.1 (50)	165	3.6 (46)	187	55.6 (55)
Ingham	1,793	7.5 (34)	7.9	(29)	1,839	10.2 (29)	1,603	2.7 (22)	1,801	69.9 (29)
Ionia	424	6.1 (12)	7.5	(23)	428	9.8 (22)	381	2.9 (26)	425	69.2 (35)
Iosco	169	3.6 (1)	10.1	(51)	176	7.4 (6)	156	1.9 (5)	173	70.5 (27)
Iron	71	* * *	* *	*	69	* *	59	* *	71	* *
Isabella	366	6.8 (24)	5.5	(4)	376	10.9 (37)	325	2.5 (14)	364	77.5 (8)
Jackson	1,134	8.9 (51)	8.1	(32)	1,143	12.9 (56)	978	3.0 (33)	1,132	63.9 (46)
Kalamazoo	1,432	8.2 (44)	7.8	(28)	1,479	11.9 (47)	1,242	2.7 (22)	1,450	66.9 (37)
Kalkaska	96	* * *	* *	*	99	* *	87	* *	96	* *
Kent	4,405	8.1 (43)	8.2	(35)	4,510	12.1 (50)	3,841	3.2 (36)	4,402	65.6 (40)
Lake	62	* * *	* *	*	63	* *	58	* *	62	* *

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- (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.



Table 8B
2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Infant Health Indicators by County

Comparison of Infant Health Indicators ^(2, 3)									
County	Birthweight			Preterm (6)		Full Term LBW (7)		Ever Breastfed	
	Low (4)		High (5)						
	Number	% (Rank)	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Lapeer	513	7.0 (27)	7.0 (16)	520	11.2 (40)	451	2.4 (11)	514	69.6 (31)
Leelanau	46	* *	* *	48	* *	43	* *	46	* *
Lenawee	608	7.2 (30)	6.4 (14)	624	8.2 (10)	551	3.4 (40)	613	69.3 (34)
Livingston	516	6.2 (15)	11.2 (56)	536	9.7 (21)	464	1.5 (3)	516	71.7 (23)
Luce	52	* *	* *	50	* *	46	* *	52	* *
Mackinac	31	* *	* *	34	* *	24	* *	31	* *
Macomb	2,788	9.2 (55)	6.0 (9)	2,814	13.1 (58)	2,391	3.8 (50)	2,806	65.2 (41)
Manistee	97	* *	* *	96	* *	92	* *	97	* *
Marquette	314	6.4 (18)	8.9 (43)	317	10.1 (27)	281	2.8 (25)	314	77.1 (9)
Mason	183	5.5 (6)	6.0 (9)	188	11.2 (40)	162	2.5 (14)	183	71.0 (26)
Mecosta	263	4.2 (2)	11.0 (55)	269	10.8 (34)	233	1.7 (4)	263	71.9 (21)
Menominee	97	* *	* *	101	8.9 (16)	88	* *	97	* *
Midland	431	7.4 (33)	9.7 (47)	443	7.0 (3)	398	3.0 (33)	431	75.6 (12)
Missaukee	66	* *	* *	68	* *	59	* *	66	* *

(1) Reporting period is January 1 through December 31.
(2) Excludes records with unknown data or errors.
(3) Rank compares one county's rate to other counties. Rank 1 = best rate.
(4) <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.



Table 8B
2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Infant Health Indicators by County

Comparison of Infant Health Indicators ^(2, 3)										
County	Birthweight				Preterm (6)		Full Term LBW (7)		Ever Breastfed	
	Low (4)		High (5)							
	Number	% (Rank)	%	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Monroe	774	8.3 (47)	6.8	(15)	786	10.6 (33)	688	4.1 (53)	774	64.6 (43)
Montcalm	396	5.3 (5)	7.1	(18)	402	8.2 (10)	356	2.2 (8)	396	71.7 (23)
Montmorenc	43	*	*	* *	45	* *	39	* *	43	* *
Muskegon	1,566	8.9 (51)	5.9	(6)	1,611	12.0 (48)	1,372	3.9 (51)	1,568	54.6 (56)
Newaygo	382	6.3 (17)	12.6	(60)	388	7.7 (8)	351	2.0 (6)	382	71.5 (25)
Oakland	4,356	9.4 (56)	6.3	(13)	4,458	11.6 (43)	3,832	3.6 (46)	4,380	55.8 (54)
Oceana	200	10.5 (59)	7.5	(23)	205	16.1 (63)	168	4.2 (55)	202	73.8 (15)
Ogemaw	169	5.9 (10)	7.1	(18)	169	10.1 (27)	151	1.3 (1)	169	61.5 (49)
Ontonagon	27	*	*	* *	29	* *	24	* *	27	* *
Osceola	152	5.9 (10)	7.2	(20)	158	8.2 (10)	138	2.9 (26)	151	72.2 (19)
Oscoda	40	*	*	* *	41	* *	35	* *	41	* *
Otsego	195	13.3 (62)	6.2	(12)	200	13.0 (57)	165	6.1 (61)	199	79.4 (7)
Ottawa	508	6.7 (23)	12.0	(58)	542	9.8 (22)	455	2.2 (8)	530	76.6 (10)
Presque Is	48	*	*	* *	51	* *	44	* *	48	* *

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- (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.



Table 8B
2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Infant Health Indicators by County

Comparison of Infant Health Indicators ^(2, 3)										
County	Birthweight				Preterm (6)		Full Term LBW (7)		Ever Breastfed	
	Low (4)		High (5)							
	Number	% (Rank)	%	(Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Roscommon	146	7.5 (34)	7.5	(23)	153	8.5 (13)	132	4.5 (57)	147	76.2 (11)
Saginaw	1,495	10.6 (61)	7.2	(20)	1,542	12.3 (53)	1,303	5.0 (59)	1,496	52.0 (61)
Sanilac	228	6.6 (21)	7.0	(16)	241	12.0 (48)	202	3.5 (43)	228	64.5 (44)
Schoolcraft	55	*	*	* *	54	* *	49	* *	54	* *
Shiawassee	437	8.2 (44)	5.9	(6)	441	11.6 (43)	383	2.6 (20)	437	69.6 (31)
St Clair	909	6.4 (18)	5.9	(6)	924	10.0 (25)	819	3.3 (37)	908	59.9 (50)
St Joseph	547	7.5 (34)	8.8	(41)	562	11.2 (40)	484	2.9 (26)	550	66.9 (37)
Tuscola	342	9.1 (54)	8.2	(35)	347	11.8 (46)	300	3.7 (49)	341	54.5 (57)
Van Buren	555	6.1 (12)	7.9	(29)	579	11.7 (45)	488	2.0 (6)	559	73.3 (17)
Washtenaw	1,356	8.0 (41)	7.4	(22)	1,384	10.0 (25)	1,212	3.3 (37)	1,361	69.9 (29)
Wayne	14,494	10.2 (58)	5.5	(4)	14,900	13.1 (58)	12,445	4.6 (58)	14,660	48.8 (62)
Wexford	342	5.8 (8)	9.9	(50)	342	8.5 (13)	306	2.9 (26)	342	74.0 (14)
Unknown Counties	56	*	*	* *	69	* *	51	* *	58	* *

- (1) Reporting period is January 1 through December 31.
- (2) Excludes records with unknown data or errors.
- (3) Rank compares one county's rate to other counties. Rank 1 = best rate.
- (4) <2500 g.
- (5) >4000 g.
- (6) <37 weeks gestation.
- (7) 37 or more weeks gestation and <2500 g.
- * Percentages are not calculated if <100 records are available for analysis after exclusions.



Table 8B
2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Infant Health Indicators by County

Comparison of Infant Health Indicators ^(2, 3)									
County	Birthweight			Preterm (6)		Full Term LBW (7)		Ever Breastfed	
	Low (4)		High (5)						
	Number	% (Rank)	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Michigan	58,040	8.6	7.1	59,523	11.7	50,780	3.6	58,402	60.5
Nation (Prior Year)	880,933	8.0	6.7	948,286	10.7	749,107	3.4	871,811	68.2

- (1) Reporting period is January 1 through December 31.
- (2) Excludes records with unknown data or errors.
- (3) Rank compares one county's rate to other counties. Rank 1 = best rate.
- (4) <2500 g.
- (5) >4000 g.
- (6) <37 weeks gestation.
- (7) 37 or more weeks gestation and <2500 g.
- * Percentages are not calculated if <100 records are available for analysis after exclusions.



Table 3B
2009 - 2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Racial and Ethnic Distribution by County
Combined 3 Years

Comparison of Racial and Ethnic Distribution ⁽²⁾								
County	Number Included in Analysis	White, Not Hispanic %	Black, Not Hispanic %	Hispanic %	American Indian/Alaska Native %	Asian/Pacific Islander %	Multiple Races %	All Other/Unknown %
Alcona	152	95.4	1.3	1.3	0.7	0.0	0.7	0.7
Alger	145	86.9	0.0	0.7	4.8	0.7	6.9	0.0
Allegan	5,206	59.8	3.3	30.3	0.1	3.2	1.4	2.1
Alpena	645	94.1	0.5	0.8	0.0	1.1	2.8	0.8
Antrim	439	95.0	0.0	0.9	0.9	0.2	2.7	0.2
Arenac	373	93.8	0.0	1.9	0.0	0.0	2.9	1.3
Baraga	211	52.1	0.0	0.5	31.8	0.0	15.2	0.5
Barry	1,060	95.2	0.4	2.9	0.1	0.2	0.6	0.7
Bay	2,230	83.2	2.1	9.6	0.2	0.2	4.1	0.6
Benzie	335	80.6	0.6	15.2	0.6	0.0	1.8	1.2
Berrien	3,675	52.2	38.2	5.1	0.2	1.2	1.8	1.4
Branch	1,289	85.3	0.5	10.7	0.1	1.2	1.7	0.5
Calhoun	3,641	65.4	19.1	7.7	0.2	3.0	3.8	0.9
Cass	1,556	59.8	6.4	26.3	0.6	1.0	1.3	4.6
Charlevoix	466	83.3	0.6	3.2	0.2	0.0	12.7	0.0
Cheboygan	453	87.2	0.7	1.3	0.0	1.3	9.3	0.2
Chippewa	932	62.9	0.3	1.5	19.2	1.1	14.6	0.4
Clare	799	94.7	0.1	2.0	0.1	0.1	1.8	1.1
Clinton	792	90.2	1.4	5.6	0.3	0.9	1.1	0.6
Crawford	300	92.7	1.3	0.7	0.0	0.3	4.7	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.



Table 3B
2009 - 2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Racial and Ethnic Distribution by County
Combined 3 Years

Comparison of Racial and Ethnic Distribution ⁽²⁾								
County	Number Included in Analysis	White, Not Hispanic	Black, Not Hispanic	Hispanic	American Indian/Alaska Native	Asian/Pacific Islander	Multiple Races	All Other/Unknown
		%	%	%	%	%	%	%
Delta	821	90.0	0.0	1.5	1.2	0.1	6.7	0.5
Dickinson	548	89.6	0.2	2.6	0.0	0.4	5.3	2.0
Eaton	1,441	88.3	4.2	4.8	0.1	1.0	1.2	0.4
Emmet	671	90.3	0.4	1.0	2.5	1.2	4.5	0.0
Genesee	9,755	54.4	39.7	3.2	0.1	0.3	1.9	0.4
Gladwin	501	97.8	0.0	1.2	0.0	0.2	0.8	0.0
Gogebic	341	87.7	0.0	1.5	7.6	0.3	1.8	1.2
Gr Travers	1,818	90.8	0.9	3.7	0.7	0.8	2.2	0.9
Gratiot	951	89.2	0.1	9.7	0.1	0.3	0.4	0.2
Hillsdale	1,070	93.9	0.5	2.1	0.0	0.1	1.4	2.0
Houghton	719	92.1	0.7	1.1	0.0	4.3	1.4	0.4
Huron	697	94.4	0.1	2.9	0.0	0.9	0.9	0.9
Ingham	6,330	49.2	26.4	14.5	0.2	4.7	4.0	0.9
Ionia	1,420	88.7	0.4	9.1	0.0	0.5	1.4	0.0
Iosco	546	93.6	0.7	2.9	0.4	0.0	2.2	0.2
Iron	274	96.0	0.4	1.8	0.0	0.0	1.5	0.4
Isabella	1,320	89.0	3.9	2.4	1.2	0.8	2.3	0.4
Jackson	4,088	76.7	12.7	5.4	0.1	0.6	4.2	0.2
Kalamazoo	5,310	55.1	29.3	9.1	0.2	1.3	4.6	0.5
Kalkaska	393	95.2	0.0	2.0	0.3	0.0	2.0	0.5

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

(2) Excludes data with errors.

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



Table 3B
2009 - 2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Racial and Ethnic Distribution by County
Combined 3 Years

Comparison of Racial and Ethnic Distribution ⁽²⁾								
County	Number Included in Analysis	White, Not Hispanic	Black, Not Hispanic	Hispanic	American Indian/Alaska Native	Asian/Pacific Islander	Multiple Races	All Other/Unknown
		%	%	%	%	%	%	%
Kent	15,521	46.1	20.0	27.3	0.2	2.4	3.4	0.6
Lake	203	75.9	15.3	3.0	0.5	0.5	3.9	1.0
Lapeer	1,821	81.3	0.3	13.4	0.0	0.3	4.0	0.7
Leelanau	189	55.6	0.5	22.8	10.1	1.1	9.0	1.1
Lenawee	2,014	79.3	1.2	15.4	0.0	0.1	1.9	1.9
Livingston	1,737	92.1	0.7	3.9	0.1	1.2	1.2	0.9
Luce	185	82.7	0.5	0.5	0.5	0.0	14.6	1.1
Mackinac	150	55.3	2.7	1.3	1.3	3.3	36.0	0.0
Macomb	11,179	66.9	20.8	5.0	0.1	3.3	3.3	0.6
Manistee	424	79.0	0.0	8.5	0.2	0.2	10.4	1.7
Marquette	1,159	88.9	1.1	1.4	1.2	0.5	6.3	0.6
Mason	697	85.4	0.6	8.8	0.6	0.4	3.4	0.9
Mecosta	970	89.5	4.0	2.3	0.0	0.6	2.7	0.9
Menominee	387	80.1	0.0	2.3	8.5	0.3	6.2	2.6
Midland	1,465	93.4	1.2	2.0	0.3	0.8	1.8	0.5
Missaukee	212	93.9	0.0	4.7	0.5	0.5	0.0	0.5
Monroe	2,811	87.2	4.4	4.6	0.2	0.3	2.0	1.3
Montcalm	1,492	92.1	0.3	4.6	0.1	0.5	2.0	0.4
Montmorenc	162	98.1	0.0	0.6	1.2	0.0	0.0	0.0
Muskegon	5,448	61.9	25.5	7.6	0.2	0.3	4.0	0.5

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

(2) Excludes data with errors.

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



Table 3B
2009 - 2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Racial and Ethnic Distribution by County
Combined 3 Years

Comparison of Racial and Ethnic Distribution ⁽²⁾								
County	Number Included in Analysis	White, Not Hispanic %	Black, Not Hispanic %	Hispanic %	American Indian/Alaska Native %	Asian/Pacific Islander %	Multiple Races %	All Other/Unknown %
Newaygo	1,368	81.8	0.2	14.3	0.1	0.3	1.5	1.8
Oakland	14,633	49.3	35.9	9.8	0.1	2.3	2.2	0.4
Oceana	881	51.1	0.1	45.1	0.1	0.0	1.9	1.7
Ogemaw	523	96.0	0.2	1.7	0.0	0.2	1.9	0.0
Ontonagon	81	*	*	*	*	*	*	*
Osceola	550	94.0	1.3	1.3	0.7	0.2	2.4	0.2
Oscoda	153	96.1	0.0	1.3	0.0	0.7	2.0	0.0
Otsego	694	94.4	0.3	2.2	0.0	0.3	2.9	0.0
Ottawa	1,829	89.0	1.5	5.4	0.1	0.8	2.0	1.4
Presque Is	175	94.3	0.0	1.1	0.0	0.0	4.6	0.0
Roscommon	482	92.9	0.0	0.8	0.0	0.2	4.4	1.7
Saginaw	5,258	45.8	37.8	13.6	0.1	0.6	1.6	0.5
Sanilac	874	92.6	0.0	5.5	0.1	0.2	0.7	0.9
Schoolcraf	195	77.9	0.0	0.5	9.2	0.5	11.8	0.0
Shiawassee	1,494	92.2	0.1	4.6	0.0	0.0	2.4	0.7
St Clair	3,148	86.4	4.2	4.8	0.0	0.3	3.6	0.7
St Joseph	1,865	75.9	2.9	17.6	0.0	0.2	2.6	0.8
Tuscola	1,163	93.5	0.7	4.2	0.0	0.0	1.4	0.3
Van Buren	2,160	58.4	4.8	30.0	0.4	0.2	2.1	4.2
Washtenaw	4,878	42.7	37.2	9.5	0.5	4.9	5.0	0.2

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

(2) Excludes data with errors.

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



Table 3B
2009 - 2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Racial and Ethnic Distribution by County
Combined 3 Years

Comparison of Racial and Ethnic Distribution ⁽²⁾								
County	Number Included in Analysis	White, Not Hispanic %	Black, Not Hispanic %	Hispanic %	American Indian/Alaska Native %	Asian/Pacific Islander %	Multiple Races %	All Other/Unknown %
Wayne	50,503	27.6	58.7	9.7	0.1	2.1	1.6	0.2
Wexford	1,153	93.7	0.4	2.8	0.1	0.5	2.0	0.5
Unknown Counties	242	26.4	16.1	14.0	10.7	4.5	19.0	9.1
Michigan	206,241	56.9	27.4	10.3	0.3	1.7	2.7	0.6

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

(2) Excludes data with errors.

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



Table 4B
2009 - 2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Age Distribution by County
Combined 3 Years

Comparison of Age Distribution ⁽²⁾								
County	Number Included in Analysis	< 15 Years %	15 - 17 Years %	18 - 19 Years %	20 - 29 Years %	30 - 39 Years %	>= 40 Years %	Unknown %
Alcona	152	0.0	3.3	9.9	59.9	25.7	0.7	0.7
Alger	145	0.0	5.5	12.4	62.8	17.2	2.1	0.0
Allegan	5,206	0.3	6.2	11.7	61.5	18.9	1.4	0.0
Alpena	645	0.3	4.5	14.9	65.0	15.0	0.3	0.0
Antrim	439	0.2	7.5	14.1	59.7	17.3	1.1	0.0
Arenac	373	0.3	4.6	11.5	64.1	16.9	2.4	0.3
Baraga	211	0.0	4.3	12.8	68.2	13.7	0.9	0.0
Barry	1,060	0.1	4.7	13.8	63.4	16.7	1.3	0.0
Bay	2,230	0.1	5.5	12.9	61.3	18.7	1.3	0.0
Benzie	335	0.3	9.6	9.6	61.2	17.0	1.5	0.9
Berrien	3,675	0.3	7.6	14.4	60.0	16.3	1.3	0.1
Branch	1,289	0.2	6.0	11.2	66.6	14.9	1.1	0.1
Calhoun	3,641	0.2	6.5	13.9	63.9	14.4	0.9	0.2
Cass	1,556	0.1	6.8	12.9	59.7	19.2	1.0	0.4
Charlevoix	466	0.0	3.6	11.6	65.9	17.4	1.5	0.0
Cheboygan	453	0.2	2.9	13.9	59.2	23.2	0.7	0.0
Chippewa	932	0.0	4.3	12.3	66.1	16.3	1.0	0.0
Clare	799	0.1	4.6	14.5	67.1	12.1	1.4	0.1
Clinton	792	0.0	3.3	11.2	64.8	19.1	1.5	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.



Table 4B
2009 - 2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Age Distribution by County
Combined 3 Years

Comparison of Age Distribution ⁽²⁾								
County	Number Included in Analysis	< 15 Years %	15 - 17 Years %	18 - 19 Years %	20 - 29 Years %	30 - 39 Years %	>= 40 Years %	Unknown %
Crawford	300	1.3	8.0	16.7	59.0	13.7	1.3	0.0
Delta	821	0.0	3.7	11.2	66.3	17.9	1.0	0.0
Dickinson	548	0.4	4.6	11.9	64.8	17.5	0.9	0.0
Eaton	1,441	0.1	5.1	11.2	66.5	16.3	0.8	0.0
Emmet	671	0.1	3.0	13.3	63.9	18.5	1.2	0.0
Genesee	9,755	0.3	6.8	14.6	61.0	16.2	1.1	0.1
Gladwin	501	0.8	5.2	12.8	65.1	14.2	1.4	0.6
Gogebic	341	0.0	4.1	12.6	64.2	17.6	1.5	0.0
Gr Travers	1,818	0.3	4.8	10.8	62.6	19.6	1.4	0.5
Gratiot	951	0.1	4.3	13.2	67.8	13.7	0.7	0.1
Hillsdale	1,070	0.2	5.5	13.3	66.4	13.6	1.0	0.0
Houghton	719	0.1	3.3	8.3	62.7	23.2	2.2	0.0
Huron	697	0.3	1.9	10.8	63.8	21.4	1.9	0.0
Ingham	6,330	0.3	5.4	12.1	62.7	18.2	1.2	0.1
Ionia	1,420	0.2	5.6	13.6	66.4	12.9	1.2	0.1
Iosco	546	0.2	5.1	11.9	67.4	13.4	2.0	0.0
Iron	274	1.1	5.8	10.2	65.0	17.9	0.0	0.0
Isabella	1,320	0.1	5.8	12.3	64.6	16.1	0.8	0.2
Jackson	4,088	0.3	6.0	14.3	63.1	14.5	1.0	0.7

(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.



Table 4B
2009 - 2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Age Distribution by County
Combined 3 Years

Comparison of Age Distribution ⁽²⁾								
County	Number Included in Analysis	< 15 Years %	15 - 17 Years %	18 - 19 Years %	20 - 29 Years %	30 - 39 Years %	>= 40 Years %	Unknown %
Kalamazoo	5,310	0.3	7.0	12.8	62.1	16.6	1.1	0.1
Kalkaska	393	0.0	5.6	12.0	66.7	15.0	0.8	0.0
Kent	15,521	0.3	5.5	11.6	59.7	20.4	1.3	1.2
Lake	203	0.0	6.9	15.8	60.6	15.8	1.0	0.0
Lapeer	1,821	0.1	3.7	12.1	63.2	19.8	1.2	0.0
Leelanau	189	0.0	3.2	10.6	57.7	24.9	3.7	0.0
Lenawee	2,014	0.1	6.0	13.4	62.6	16.5	1.3	0.0
Livingston	1,737	0.1	3.2	10.1	62.8	22.5	1.4	0.0
Luce	185	0.0	5.4	11.9	69.7	11.9	1.1	0.0
Mackinac	150	0.0	2.0	11.3	61.3	24.7	0.7	0.0
Macomb	11,179	0.1	3.6	9.4	60.3	24.8	1.8	0.0
Manistee	424	0.2	5.0	11.1	65.1	18.4	0.2	0.0
Marquette	1,159	0.0	3.1	9.4	69.6	17.3	0.4	0.2
Mason	697	0.1	6.5	15.8	64.3	12.3	1.0	0.0
Mecosta	970	0.1	4.9	14.8	65.7	12.6	1.8	0.1
Menominee	387	0.5	5.2	10.3	65.1	17.6	1.0	0.3
Midland	1,465	0.0	4.1	12.2	67.2	15.8	0.7	0.0
Missaukee	212	0.0	7.1	12.7	60.8	17.5	1.9	0.0
Monroe	2,811	0.2	6.5	13.4	62.1	16.7	1.0	0.0

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

(2) Excludes data with errors.

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



Table 4B
2009 - 2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Age Distribution by County
Combined 3 Years

Comparison of Age Distribution ⁽²⁾								
County	Number Included in Analysis	< 15 Years %	15 - 17 Years %	18 - 19 Years %	20 - 29 Years %	30 - 39 Years %	>= 40 Years %	Unknown %
Montcalm	1,492	0.1	6.0	16.0	64.1	12.5	0.9	0.4
Montmorenc	162	0.0	6.2	9.3	63.6	19.8	1.2	0.0
Muskegon	5,448	0.3	6.7	13.5	63.9	14.8	0.8	0.0
Newaygo	1,368	0.1	6.5	14.2	59.9	18.4	0.8	0.0
Oakland	14,633	0.2	4.1	10.8	59.3	23.6	1.9	0.1
Oceana	881	0.5	5.7	12.5	61.9	17.9	1.6	0.0
Ogemaw	523	0.0	5.4	13.6	64.4	15.5	1.1	0.0
Ontonagon	81	*	*	*	*	*	*	*
Osceola	550	0.2	7.3	14.0	60.9	15.3	2.4	0.0
Oscoda	153	0.0	8.5	11.1	66.0	13.1	1.3	0.0
Otsego	694	0.1	5.2	12.0	65.6	16.0	1.0	0.1
Ottawa	1,829	0.1	3.6	10.8	62.8	21.7	1.0	0.0
Presque Is	175	0.0	4.6	11.4	62.3	20.0	1.7	0.0
Roscommon	482	0.2	5.0	12.7	65.4	16.0	0.8	0.0
Saginaw	5,258	0.4	7.1	14.4	60.2	16.7	1.1	0.1
Sanilac	874	0.1	4.5	11.3	63.3	18.9	1.6	0.3
Schoolcraf	195	0.0	6.2	14.4	56.4	21.0	2.1	0.0
Shiawassee	1,494	0.1	5.1	13.0	63.9	16.6	1.3	0.0
St Clair	3,148	0.2	5.0	13.4	65.0	15.7	0.8	0.0

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

(2) Excludes data with errors.

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



Table 4B
2009 - 2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Age Distribution by County
Combined 3 Years

Comparison of Age Distribution ⁽²⁾								
County	Number Included in Analysis	< 15 Years %	15 - 17 Years %	18 - 19 Years %	20 - 29 Years %	30 - 39 Years %	>= 40 Years %	Unknown %
St Joseph	1,865	0.4	5.2	12.3	63.6	17.3	1.2	0.0
Tuscola	1,163	0.2	4.8	11.9	63.5	18.8	0.7	0.1
Van Buren	2,160	0.3	6.4	13.0	61.9	17.1	1.3	0.0
Washtenaw	4,878	0.1	4.5	10.0	60.6	23.0	1.6	0.2
Wayne	50,503	0.3	6.0	12.8	57.2	21.2	1.8	0.6
Wexford	1,153	0.1	4.3	12.3	67.3	15.1	0.9	0.0
Unknown Counties	242	0.0	2.5	3.7	53.3	38.4	1.7	0.4
Michigan	206,241	0.2	5.5	12.4	60.9	19.2	1.4	0.3

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

(2) Excludes data with errors.

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



Table 5B
2009 - 2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Maternal Health Indicators by County
Combined 3 Years

Comparison of Maternal Health Indicators ^(2, 3)														
County	Prepregnancy BMI ⁽⁴⁾			Weight Gain ⁽⁵⁾			Anemia (Low Hb/Hct) ⁽⁶⁾				Gestational Diabetes During Pregnancy		Hypertension During Pregnancy	
	Under-weight	Over-weight		< Ideal	> Ideal		3rd Trimester		Postpartum					
	Number	% (Rank)	% (Rank)	Number	% (Rank)	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Alcona	140	5.0 (61)	60.7 (78)	121	16.5 (15)	55.4 (75)	10	* *	28	* *	117	10.3 (81)	117	11.1(53)
Alger	145	4.1 (28)	45.5 (2)	119	26.9 (73)	38.7 (3)	12	* *	15	* *	106	5.7 (27)	105	11.4(56)
Allegan	4,305	3.6 (14)	54.6 (51)	2,699	21.0 (56)	48.7 (27)	614	40.6 (33)	813	30.0(43)	4,607	7.7 (60)	4,618	8.9(19)
Alpena	631	5.7 (74)	53.1 (31)	568	16.5 (15)	53.5 (62)	85	* *	130	14.6 (6)	532	6.6 (41)	532	11.7(61)
Antrim	377	4.8 (57)	52.0 (20)	327	22.0 (61)	45.0 (12)	35	* *	28	* *	378	3.2 (2)	378	10.3(38)
Arenac	362	3.6 (14)	61.3 (79)	315	22.5 (63)	52.1 (54)	34	* *	70	* *	343	7.9 (63)	344	11.9(63)
Baraga	196	4.6 (47)	50.0 (8)	172	22.7 (64)	40.7 (6)	23	* *	34	* *	178	3.9 (4)	179	15.1(79)
Barry	1,027	3.7 (16)	54.4 (47)	877	15.6 (7)	54.0 (66)	128	21.9 (9)	157	18.5(13)	978	7.0 (49)	980	8.8(17)
Bay	1,979	4.6 (47)	55.1 (55)	1,680	21.1 (57)	49.5 (29)	243	31.3 (18)	384	23.4(26)	1,953	8.4 (69)	1,956	10.9(48)
Benzie	321	2.8 (5)	62.9 (81)	242	28.5 (77)	42.6 (9)	29	* *	37	* *	250	5.6 (22)	249	10.4(41)
Berrien	3,320	5.1 (64)	54.2 (43)	2,830	18.0 (28)	53.9 (65)	555	44.9 (39)	704	34.1(49)	3,270	4.6 (11)	3,268	6.9(4)
Branch	1,236	5.3 (67)	54.8 (53)	1,064	23.0 (66)	45.3 (15)	164	21.3 (8)	177	24.3(29)	1,164	7.2 (54)	1,164	5.8(1)
Calhoun	3,465	3.9 (20)	55.1 (55)	2,938	19.2 (40)	51.5 (47)	535	36.4 (29)	436	28.9(40)	3,255	5.6 (22)	3,251	10.3(38)
Cass	1,170	5.0 (61)	58.0 (71)	709	27.9 (75)	42.5 (7)	138	34.8 (24)	194	34.5(50)	1,292	6.7 (44)	1,291	8.4(11)
Charlevoix	408	3.7 (16)	54.2 (43)	335	20.6 (53)	51.0 (42)	45	* *	45	* *	408	6.4 (40)	409	12.2(66)
Cheboygan	443	3.4 (10)	53.7 (37)	380	18.4 (29)	49.5 (29)	47	* *	87	* *	395	6.6 (41)	396	7.6(8)
Chippewa	904	4.2 (32)	53.9 (40)	758	19.7 (45)	51.2 (44)	80	* *	162	23.5(27)	758	5.7 (27)	758	10.0(33)

- (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.



Table 5B
2009 - 2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Maternal Health Indicators by County
Combined 3 Years

Comparison of Maternal Health Indicators ^(2, 3)														
County	Prepregnancy BMI ⁽⁴⁾			Weight Gain ⁽⁵⁾			Anemia (Low Hb/Hct) ⁽⁶⁾				Gestational Diabetes During Pregnancy		Hypertension During Pregnancy	
	Under-weight		Over-weight	< Ideal		> Ideal	3rd Trimester		Postpartum					
	Number	% (Rank)	% (Rank)	Number	% (Rank)	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Clare	740	6.4 (78)	54.6 (51)	649	19.3 (42)	50.4 (35)	80	* *	110	26.4 (35)	726	4.3 (7)	727	8.5 (15)
Clinton	745	4.6 (47)	56.0 (62)	635	15.0 (2)	53.7 (64)	97	* *	209	12.4 (4)	716	5.6 (22)	714	12.2 (66)
Crawford	289	4.8 (57)	51.9 (19)	257	19.5 (43)	55.3 (73)	30	* *	84	* *	248	5.6 (22)	248	6.0 (2)
Delta	789	3.4 (10)	50.8 (13)	706	26.9 (73)	45.0 (12)	66	* *	157	11.5 (3)	685	10.1 (80)	685	12.8 (73)
Dickinson	519	3.9 (20)	47.4 (3)	453	15.2 (3)	52.3 (57)	40	* *	68	* *	441	4.8 (15)	442	11.8 (62)
Eaton	1,366	4.3 (36)	55.3 (57)	1,149	13.0 (1)	57.7 (80)	173	20.8 (6)	256	19.9 (16)	1,295	5.4 (20)	1,297	9.4 (24)
Emmet	530	3.0 (7)	52.8 (28)	390	19.7 (45)	45.4 (16)	57	* *	66	* *	572	4.7 (14)	572	7.5 (7)
Genesee	9,242	5.3 (67)	53.3 (32)	6,742	18.4 (29)	51.1 (43)	1,825	42.9 (36)	2,549	30.9 (44)	7,459	7.9 (63)	7,450	12.6 (70)
Gladwin	438	6.4 (78)	48.4 (4)	383	23.8 (70)	53.5 (62)	46	* *	75	* *	453	5.7 (27)	453	9.9 (32)
Gogebic	334	3.3 (9)	58.7 (73)	293	21.5 (58)	54.3 (68)	46	* *	64	* *	273	9.9 (77)	273	15.4 (80)
Gr Travers	1,721	4.2 (32)	50.6 (11)	1,475	17.8 (27)	52.1 (54)	183	32.2 (21)	267	21.0 (18)	1,556	4.4 (8)	1,556	9.1 (21)
Gratiot	793	5.7 (74)	53.3 (32)	638	21.6 (60)	47.8 (23)	113	16.8 (2)	245	21.2 (20)	879	4.4 (8)	882	10.9 (48)
Hillsdale	1,019	4.5 (44)	58.2 (72)	867	17.5 (24)	54.4 (70)	117	13.7 (1)	198	32.8 (48)	954	3.5 (3)	954	7.2 (5)
Houghton	671	2.8 (5)	43.8 (1)	590	20.2 (50)	46.6 (18)	74	* *	149	9.4 (2)	603	6.1 (35)	603	8.6 (16)
Huron	661	4.4 (41)	54.5 (50)	580	20.7 (54)	52.2 (56)	75	* *	100	25.0 (31)	592	8.8 (72)	595	9.2 (22)
Ingham	5,882	4.0 (24)	54.4 (47)	4,828	15.9 (10)	54.8 (71)	999	28.3 (17)	1,173	21.9 (23)	5,677	5.2 (17)	5,678	10.5 (43)
Ionia	1,208	4.9 (60)	53.0 (29)	948	19.5 (43)	51.8 (50)	156	24.4 (14)	193	14.5 (5)	1,280	5.8 (31)	1,280	7.7 (9)

- (1) Reporting period is January 1 through December 31.
- (2) Excludes records with unknown data or errors.
- (3) Rank compares one county's rate to other counties. Rank 1 = best rate.
- (4) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI >30.0).
- (5) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight prepregnancy (ideal weight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).
- (6) Based on 1990 MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States"; adjusted for altitude and smoking.
- * Percentages are not calculated if <100 records are available for analysis after exclusions.



Table 5B
2009 - 2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Maternal Health Indicators by County
Combined 3 Years

Comparison of Maternal Health Indicators ^(2, 3)														
County	Prepregnancy BMI ⁽⁴⁾			Weight Gain ⁽⁵⁾			Anemia (Low Hb/Hct) ⁽⁶⁾				Gestational Diabetes During Pregnancy		Hypertension During Pregnancy	
	Under-weight	Over-weight		< Ideal	> Ideal		3rd Trimester		Postpartum					
	Number	% (Rank)	% (Rank)	Number	% (Rank)	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Iosco	500	4.0 (24)	59.8 (76)	402	28.1 (76)	50.0 (32)	54	* *	83	* *	465	7.3 (55)	466	10.1(35)
Iron	264	4.2 (32)	52.3 (21)	217	35.9 (81)	37.3 (1)	17	* *	38	* *	210	2.9 (1)	210	11.9(63)
Isabella	1,295	5.0 (61)	55.4 (58)	1,109	20.0 (48)	50.9 (41)	146	21.2 (7)	218	21.1(19)	1,209	4.0 (5)	1,209	8.4(11)
Jackson	3,817	4.5 (44)	50.9 (14)	3,216	17.0 (20)	52.3 (57)	463	32.0 (20)	407	25.8(33)	3,697	5.5 (21)	3,696	9.6(26)
Kalamazoo	4,792	4.3 (36)	55.6 (60)	3,910	21.5 (58)	50.5 (37)	632	43.0 (37)	851	30.9(44)	4,758	9.2 (74)	4,758	8.4(11)
Kalkaska	372	4.0 (24)	50.5 (10)	323	16.1 (11)	59.8 (81)	43	* *	97	* *	323	5.3 (19)	323	7.7(9)
Kent	13,219	3.8 (19)	53.8 (38)	9,317	23.1 (68)	45.9 (17)	2,018	34.3 (23)	2,564	26.6(37)	14,147	5.9 (32)	14,154	9.8(28)
Lake	195	2.1 (2)	60.5 (77)	171	22.8 (65)	51.5 (47)	21	* *	43	* *	170	5.9 (32)	170	8.8(17)
Lapeer	1,769	5.5 (71)	53.5 (36)	1,532	17.4 (22)	50.5 (37)	191	23.6 (11)	355	20.3(17)	1,528	8.1 (66)	1,529	12.0(65)
Leelanau	176	3.4 (10)	59.7 (75)	158	15.8 (9)	51.9 (53)	19	* *	33	* *	164	7.3 (55)	164	9.8(28)
Lenawee	1,791	4.7 (53)	53.8 (38)	1,549	23.0 (66)	44.2 (11)	316	23.4 (10)	417	25.2(32)	1,807	7.6 (57)	1,809	11.4(56)
Livingston	1,704	3.7 (16)	50.6 (11)	1,513	15.3 (6)	57.6 (78)	269	18.2 (4)	553	14.6 (6)	1,562	7.7 (60)	1,564	12.4(69)
Luce	176	1.1 (1)	64.2 (82)	149	30.2 (79)	47.7 (22)	12	* *	35	* *	149	8.7 (71)	150	14.0(76)
Mackinac	147	2.7 (3)	57.8 (69)	126	19.0 (36)	60.3 (82)	7	* *	39	* *	130	4.6 (11)	130	13.8(75)
Macomb	10,781	4.3 (36)	53.3 (32)	5,797	15.2 (3)	53.0 (61)	2,063	36.1 (28)	2,638	23.2(25)	6,174	7.6 (57)	6,186	10.9(48)
Manistee	379	4.5 (44)	50.9 (14)	320	16.9 (19)	57.2 (77)	46	* *	84	* *	331	7.9 (63)	330	11.2(54)
Marquette	1,086	3.4 (10)	51.4 (17)	948	17.6 (26)	50.2 (34)	128	26.6 (15)	272	16.9(10)	939	7.1 (52)	937	10.9(48)

(1) Reporting period is January 1 through December 31.
(2) Excludes records with unknown data or errors.
(3) Rank compares one county's rate to other counties. Rank 1 = best rate.
(4) 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.



Table 5B
2009 - 2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Maternal Health Indicators by County
Combined 3 Years

Comparison of Maternal Health Indicators ^(2, 3)														
County	Prepregnancy BMI ⁽⁴⁾			Weight Gain ⁽⁵⁾			Anemia (Low Hb/Hct) ⁽⁶⁾				Gestational Diabetes During Pregnancy		Hypertension During Pregnancy	
	Under-weight	Over-weight		< Ideal	> Ideal		3rd Trimester		Postpartum					
	Number	% (Rank)	% (Rank)	Number	% (Rank)	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Mason	612	4.6 (47)	54.9 (54)	539	18.4 (29)	51.2 (44)	61	* *	106	19.8(15)	571	4.4 (8)	571	10.3(38)
Mecosta	938	4.4 (41)	56.1 (64)	826	19.1 (38)	55.1 (72)	105	37.1 (30)	191	31.9(47)	822	5.7 (27)	822	9.2(22)
Menominee	371	5.4 (70)	50.4 (9)	328	18.9 (35)	51.8 (50)	31	* *	75	* *	304	6.9 (47)	304	8.9(19)
Midland	1,404	4.7 (53)	53.4 (35)	1,252	15.6 (7)	54.3 (68)	159	18.9 (5)	224	28.1(38)	1,291	7.0 (49)	1,290	12.6(70)
Missaukee	209	4.8 (57)	58.9 (74)	184	18.5 (33)	57.6 (78)	12	* *	68	* *	182	7.7 (60)	183	11.5(58)
Monroe	2,616	5.6 (73)	52.7 (27)	2,228	20.3 (51)	52.9 (60)	352	31.5 (19)	538	21.2(20)	2,494	6.3 (39)	2,496	14.6(78)
Montcalm	1,446	5.1 (64)	55.5 (59)	1,251	16.1 (11)	51.3 (46)	187	17.6 (3)	413	15.0 (8)	1,365	7.0 (49)	1,362	11.5(58)
Montmorenc	158	7.6 (82)	51.3 (16)	134	22.4 (62)	47.8 (23)	9	* *	24	* *	134	6.0 (34)	134	9.7(27)
Muskegon	4,875	3.9 (20)	56.2 (65)	4,227	19.1 (38)	50.7 (40)	565	35.4 (26)	365	24.7(30)	4,952	7.6 (57)	4,940	12.6(70)
Newaygo	1,296	4.6 (47)	56.6 (66)	1,139	19.0 (36)	50.4 (35)	122	35.2 (25)	254	26.4(35)	1,145	6.6 (41)	1,147	12.2(66)
Oakland	14,087	4.1 (28)	54.0 (42)	12,214	16.4 (14)	51.8 (50)	2,554	34.0 (22)	3,903	25.8(33)	12,937	6.8 (45)	12,962	11.5(58)
Oceana	771	2.7 (3)	62.5 (80)	647	30.1 (78)	40.5 (5)	69	* *	137	24.1(28)	710	8.2 (68)	709	10.6(44)
Ogemaw	496	4.0 (24)	52.4 (24)	438	26.7 (72)	45.2 (14)	46	* *	72	* *	437	6.9 (47)	437	11.2(54)
Ontonagon	77	* *	* *	73	* *	* *	6	* *	10	* *	73	* *	73	* *
Osceola	530	6.4 (78)	51.7 (18)	457	17.5 (24)	49.5 (29)	58	* *	82	* *	502	4.2 (6)	502	10.6(44)
Oscoda	145	5.5 (71)	56.6 (66)	126	16.7 (18)	57.1 (76)	16	* *	19	* *	126	7.1 (52)	127	10.2(37)
Otsego	523	4.2 (32)	54.3 (46)	457	23.6 (69)	43.1 (10)	45	* *	64	* *	591	5.2 (17)	591	7.3(6)

(1) Reporting period is January 1 through December 31.
(2) Excludes records with unknown data or errors.
(3) Rank compares one county's rate to other counties. Rank 1 = best rate.
(4) 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.



Table 5B
2009 - 2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Maternal Health Indicators by County
Combined 3 Years

Comparison of Maternal Health Indicators ^(2, 3)														
County	Prepregnancy BMI (4)			Weight Gain (5)			Anemia (Low Hb/Hct) (6)				Gestational Diabetes During Pregnancy		Hypertension During Pregnancy	
	Under-weight		Over-weight	< Ideal		> Ideal	3rd Trimester		Postpartum					
	Number	% (Rank)	% (Rank)	Number	% (Rank)	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Ottawa	1,692	4.3 (36)	49.0 (5)	1,369	20.1 (49)	47.2 (19)	212	44.8 (38)	337	28.5(39)	1,679	4.9 (16)	1,681	10.6(44)
Presque Is	171	5.3 (67)	55.6 (60)	158	18.4 (29)	48.1 (25)	24	* *	30	* *	153	4.6 (11)	153	15.7(81)
Roscommon	455	4.6 (47)	53.0 (29)	394	15.2 (3)	55.3 (73)	45	* *	132	17.4(11)	432	10.0 (79)	432	10.6(44)
Saginaw	4,607	3.9 (20)	57.9 (70)	3,666	20.8 (55)	48.9 (28)	661	38.9 (31)	1,293	29.8(42)	4,491	6.1 (35)	4,490	10.4(41)
Sanilac	848	5.9 (77)	52.4 (24)	738	17.1 (21)	48.4 (26)	84	* *	153	17.6(12)	759	9.5 (75)	760	8.4(11)
Schoolcraf	191	7.3 (81)	53.9 (40)	167	24.0 (71)	42.5 (7)	12	* *	19	* *	164	8.5 (70)	163	14.1(77)
Shiawassee	1,458	5.8 (76)	52.3 (21)	1,267	16.1 (11)	52.8 (59)	172	23.8 (12)	225	16.4 (9)	1,349	5.6 (22)	1,347	6.0(2)
St Clair	3,025	4.7 (53)	49.9 (7)	2,605	16.6 (17)	51.6 (49)	415	27.7 (16)	962	19.1(14)	2,711	8.9 (73)	2,708	10.1(35)
St Joseph	1,493	4.7 (53)	52.4 (24)	1,147	17.4 (22)	50.5 (37)	222	36.0 (27)	302	31.8(46)	1,689	9.9 (77)	1,690	9.8(28)
Tuscola	1,094	4.3 (36)	54.4 (47)	975	20.3 (51)	47.4 (20)	105	23.8 (12)	154	6.5 (1)	1,031	8.1 (66)	1,032	9.8(28)
Van Buren	1,736	4.1 (28)	56.8 (68)	981	38.5 (82)	37.5 (2)	222	41.4 (34)	244	22.5(24)	1,860	9.5 (75)	1,861	10.0(33)
Washtenaw	4,532	4.4 (41)	52.3 (21)	3,574	19.8 (47)	47.5 (21)	775	39.5 (32)	1,207	29.1(41)	4,272	6.8 (45)	4,279	9.5(25)
Wayne	47,024	4.1 (28)	56.0 (62)	35,915	19.2 (40)	50.1 (33)	8,813	42.4 (35)	11,287	35.7(51)	42,223	6.2 (38)	42,270	11.0(52)
Wexford	1,114	3.1 (8)	54.2 (43)	987	18.5 (33)	54.1 (67)	89	* *	286	21.7(22)	989	6.1 (35)	988	13.0(74)
Unknown Counties	153	5.2 (66)	49.7 (6)	109	31.2 (80)	40.4 (4)	17	* *	54	* *	136	16.9 (82)	135	22.2(82)
Michigan	189,986	4.3	54.4	149,046	19.2	50.4	29,664	36.1	41,421	27.9	174,730	6.6	174,828	10.6

(1) Reporting period is January 1 through December 31.
(2) Excludes records with unknown data or errors.
(3) Rank compares one county's rate to other counties. Rank 1 = best rate.
(4) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight (BMI <18.5), normal weight (BMI 18.5 to 24.9), overweight (BMI 25.0 to 29.9), obese (BMI >30.0).
(5) Based on 2009 IOM report, "Weight Gain During Pregnancy": underweight during pregnancy (ideal weight gain = 28 to 40 pounds), normal weight prepregnancy (ideal weight gain = 25 to 35 pounds), overweight prepregnancy (ideal weight gain = 15 to 25 pounds), obese prepregnancy (ideal weight gain = 11 to 20 pounds).
(6) Based on 1990 MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States"; adjusted for altitude and smoking.
* Percentages are not calculated if <100 records are available for analysis after exclusions.



Table 6B
2009 - 2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Maternal Behavioral Indicators by County
Combined 3 Years

Comparison of Maternal Behavioral Indicators ^(2, 3)										
County	Medical Care			WIC Enrollment		Multivitamin Consumption				
	1st Trimester		No Care	1st Trimester		Prepregnancy (4)		During Pregnancy (5)		
	Number	% (Rank)	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	
Alcona	132	86.4 (29)	7.6 (42)	146	51.4 (14)	82	* *	86	* *	
Alger	123	83.7 (41)	10.6 (55)	144	60.4 (4)	61	* *	88	* *	
Allegan	4,564	89.2 (16)	4.4 (22)	5,099	41.9 (61)	3,721	16.9 (66)	3,864	82.0 (54)	
Alpena	596	93.3 (2)	1.7 (5)	637	47.1 (32)	449	23.8 (33)	425	92.0 (8)	
Antrim	416	70.0 (80)	21.2 (81)	431	53.4 (11)	305	24.6 (28)	285	81.8 (55)	
Arenac	348	82.8 (49)	10.1 (52)	366	47.3 (31)	277	24.2 (31)	277	90.3 (13)	
Baraga	193	87.6 (25)	5.7 (34)	207	46.9 (33)	162	21.6 (44)	145	90.3 (13)	
Barry	970	90.0 (11)	4.4 (22)	1,041	42.8 (54)	828	19.9 (53)	854	83.8 (45)	
Bay	2,060	81.9 (52)	11.2 (59)	2,192	48.5 (24)	1,536	20.5 (51)	1,558	84.1 (44)	
Benzie	281	76.9 (72)	12.1 (64)	328	58.8 (5)	207	38.2 (4)	215	69.3 (77)	
Berrien	3,223	81.2 (55)	4.1 (18)	3,614	36.4 (72)	2,589	13.3 (76)	2,702	89.7 (19)	
Branch	1,041	81.9 (52)	8.5 (45)	1,267	48.7 (23)	1,003	18.5 (60)	1,028	71.7 (76)	
Calhoun	3,251	84.4 (40)	8.0 (44)	3,593	40.8 (67)	2,612	26.8 (16)	2,947	79.7 (57)	
Cass	1,188	84.6 (39)	3.0 (9)	1,530	40.8 (67)	831	32.7 (6)	1,100	76.6 (70)	
Charlevoix	437	77.8 (68)	16.2 (76)	464	54.1 (7)	345	28.4 (15)	322	78.6 (62)	
Cheboygan	427	84.8 (38)	10.8 (58)	445	47.4 (30)	288	22.9 (37)	284	87.3 (30)	
Chippewa	830	78.1 (67)	14.1 (70)	914	53.7 (9)	445	31.7 (7)	572	73.6 (75)	
Clare	737	71.8 (77)	18.3 (77)	780	48.5 (24)	522	22.4 (40)	603	84.2 (43)	
Clinton	722	89.8 (12)	4.0 (17)	777	42.1 (59)	580	22.6 (39)	529	83.6 (47)	
Crawford	269	85.5 (34)	5.2 (29)	295	45.1 (42)	201	21.4 (45)	184	93.5 (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 week 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.



Table 6B
2009 - 2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Maternal Behavioral Indicators by County
Combined 3 Years

Comparison of Maternal Behavioral Indicators ^(2, 3)									
County	Medical Care			WIC Enrollment		Multivitamin Consumption			
	1st Trimester		No Care	1st Trimester		Pregnancy (4)		During Pregnancy (5)	
	Number	% (Rank)	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Delta	755	89.1 (18)	5.7 (34)	805	47.6 (28)	540	26.1 (18)	506	89.1 (23)
Dickinson	495	90.3 (9)	4.2 (20)	538	50.6 (17)	338	25.1 (25)	331	92.7 (6)
Eaton	1,292	87.5 (26)	5.4 (30)	1,420	41.0 (65)	1,074	19.9 (53)	1,119	84.7 (41)
Emmet	633	87.8 (22)	9.6 (48)	657	51.3 (15)	470	41.9 (3)	419	85.2 (38)
Genesee	7,603	83.2 (47)	3.2 (10)	9,640	26.6 (79)	5,739	8.0 (79)	6,282	80.2 (56)
Gladwin	460	82.4 (51)	14.1 (70)	494	49.4 (21)	403	17.6 (62)	383	89.6 (20)
Gogebic	301	92.7 (3)	2.3 (6)	336	43.5 (50)	243	24.3 (30)	221	95.0 (2)
Gr Travers	1,627	69.8 (81)	23.9 (82)	1,789	46.8 (34)	1,185	29.9 (12)	1,152	86.6 (33)
Gratiot	895	87.7 (24)	4.5 (25)	932	46.0 (36)	689	22.8 (38)	711	84.5 (42)
Hillsdale	940	90.9 (8)	3.2 (10)	1,051	43.5 (50)	860	14.7 (73)	807	82.8 (51)
Houghton	657	79.1 (65)	10.5 (54)	708	40.5 (69)	502	32.9 (5)	433	90.8 (11)
Huron	649	85.7 (31)	7.7 (43)	687	43.2 (53)	504	22.2 (41)	460	90.2 (15)
Ingham	5,616	83.6 (42)	6.2 (38)	6,257	32.6 (75)	5,097	17.4 (63)	5,121	87.0 (31)
Ionia	1,296	95.4 (1)	1.3 (3)	1,400	44.8 (43)	1,065	11.5 (78)	1,043	93.1 (5)
Iosco	505	89.5 (14)	5.1 (28)	532	47.9 (27)	361	23.5 (34)	361	88.1 (27)
Iron	245	89.0 (19)	1.2 (2)	267	58.1 (6)	134	47.0 (2)	152	78.3 (66)
Isabella	1,224	83.3 (46)	11.8 (62)	1,299	45.5 (40)	1,030	22.2 (41)	974	88.2 (25)
Jackson	3,649	86.3 (30)	5.5 (31)	4,006	45.6 (39)	2,608	20.9 (47)	3,408	75.5 (73)
Kalamazoo	4,771	80.7 (56)	9.8 (50)	5,220	43.9 (47)	4,323	15.5 (71)	4,015	76.6 (70)
Kalkaska	348	83.6 (42)	9.5 (47)	386	46.6 (35)	252	31.7 (7)	249	92.4 (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) Women who reported taking a multivitamin four times a week 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.



Table 6B
2009 - 2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Maternal Behavioral Indicators by County
Combined 3 Years

Comparison of Maternal Behavioral Indicators ^(2, 3)										
County	Medical Care			WIC Enrollment		Multivitamin Consumption				
	1st Trimester		No Care	1st Trimester		Pregnancy (4)		During Pregnancy (5)		
	Number	% (Rank)	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	
Kent	14,106	80.2 (59)	9.9 (51)	15,289	38.2 (71)	11,804	18.9 (57)	11,882	85.8 (36)	
Lake	182	83.5 (45)	6.0 (36)	202	42.1 (59)	133	14.3 (75)	130	86.2 (35)	
Lapeer	1,627	80.3 (58)	12.3 (65)	1,790	39.1 (70)	1,120	19.9 (53)	1,119	76.8 (69)	
Leelanau	166	68.7 (82)	18.7 (78)	187	43.9 (47)	115	20.9 (47)	108	79.6 (58)	
Lenawee	1,824	86.7 (28)	3.9 (15)	1,984	31.1 (76)	986	18.2 (61)	1,362	90.1 (16)	
Livingston	1,585	87.1 (27)	6.8 (40)	1,713	29.7 (78)	1,269	25.2 (24)	1,108	89.8 (18)	
Luce	164	75.0 (76)	20.7 (80)	180	65.6 (1)	123	16.3 (69)	123	78.9 (61)	
Mackinac	134	83.6 (42)	4.5 (25)	146	61.6 (3)	99	* *	101	79.2 (59)	
Macomb	6,307	88.7 (20)	3.2 (10)	11,092	31.0 (77)	5,520	23.4 (35)	7,905	89.2 (22)	
Manistee	355	76.9 (72)	11.3 (60)	417	41.0 (65)	247	26.7 (17)	253	87.7 (29)	
Marquette	1,030	92.2 (6)	3.9 (15)	1,150	44.6 (44)	704	25.7 (20)	692	89.9 (17)	
Mason	621	79.5 (62)	15.9 (75)	682	50.6 (17)	472	23.9 (32)	455	87.9 (28)	
Mecosta	897	92.4 (5)	3.3 (14)	951	42.4 (56)	482	77.0 (1)	626	89.5 (21)	
Menominee	327	79.5 (62)	10.7 (57)	377	42.2 (57)	200	25.0 (26)	220	85.5 (37)	
Midland	1,381	85.6 (32)	9.3 (46)	1,439	41.6 (62)	1,054	25.7 (20)	970	95.1 (1)	
Missaukee	193	77.7 (70)	14.0 (69)	210	47.6 (28)	111	30.6 (10)	148	83.8 (45)	
Monroe	2,530	79.7 (61)	9.6 (48)	2,778	41.3 (63)	2,179	20.7 (50)	1,960	90.7 (12)	
Montcalm	1,371	89.4 (15)	4.2 (20)	1,467	41.2 (64)	1,133	14.7 (73)	1,087	90.9 (10)	
Montmorenc	148	92.6 (4)	1.4 (4)	156	53.8 (8)	106	30.2 (11)	93	* *	
Muskegon	4,928	87.8 (22)	4.1 (18)	5,373	49.5 (19)	3,585	18.8 (58)	4,040	77.1 (68)	

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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 week or more in the month before pregnancy; proxy for folic acid consumption.

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

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Table 6B
2009 - 2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Maternal Behavioral Indicators by County
Combined 3 Years

Comparison of Maternal Behavioral Indicators ^(2, 3)										
County	Medical Care				WIC Enrollment		Multivitamin Consumption			
	1st Trimester		No Care		1st Trimester		Pregpregnancy (4)		During Pregpregnancy (5)	
	Number	% (Rank)	%	(Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Newaygo	1,237	89.2 (16)	2.4	(7)	1,347	45.4 (41)	859	23.3 (36)	848	85.1 (39)
Oakland	13,227	85.1 (37)	4.4	(22)	14,492	26.4 (80)	7,654	16.5 (68)	9,442	86.3 (34)
Oceana	747	76.8 (74)	15.7	(74)	850	49.5 (19)	549	17.1 (64)	548	77.6 (67)
Ogemaw	495	88.3 (21)	6.3	(39)	511	51.7 (13)	328	24.4 (29)	336	88.4 (24)
Ontonagon	77	* *	* *		80	* *	57	* *	51	* *
Osceola	520	78.8 (66)	13.7	(68)	538	52.6 (12)	440	20.5 (51)	418	82.3 (53)
Oscoda	141	81.6 (54)	10.6	(55)	150	50.7 (16)	109	25.7 (20)	98	* *
Otsego	647	82.8 (49)	11.7	(61)	674	53.7 (9)	446	29.6 (13)	444	82.4 (52)
Ottawa	1,673	89.6 (13)	5.6	(32)	1,812	42.2 (57)	1,325	26.0 (19)	1,377	88.2 (25)
Presque Is	166	83.1 (48)	12.0	(63)	171	43.9 (47)	100	29.0 (14)	114	86.8 (32)
Roscommon	432	90.3 (9)	2.5	(8)	470	33.6 (74)	376	21.0 (46)	348	94.8 (3)
Saginaw	4,752	77.4 (71)	10.1	(52)	5,159	44.4 (45)	3,722	12.3 (77)	3,524	78.4 (63)
Sanilac	774	85.4 (35)	7.5	(41)	864	44.3 (46)	447	25.7 (20)	575	78.4 (63)
Schoolcraf	179	91.6 (7)	1.1	(1)	187	62.0 (2)	132	15.9 (70)	134	78.4 (63)
Shiawassee	1,350	76.7 (75)	15.5	(73)	1,472	46.0 (36)	1,200	18.6 (59)	1,089	83.3 (49)
St Clair	2,757	77.8 (68)	14.7	(72)	3,121	45.8 (38)	1,787	20.8 (49)	2,242	79.1 (60)
St Joseph	1,690	71.6 (78)	18.8	(79)	1,837	42.6 (55)	1,558	16.7 (67)	1,441	76.3 (72)
Tuscola	1,095	79.3 (64)	13.6	(66)	1,139	48.3 (26)	837	24.7 (27)	776	91.8 (9)
Van Buren	1,815	85.4 (35)	6.0	(36)	2,127	43.3 (52)	1,439	17.1 (64)	1,591	73.8 (74)
Washtenaw	4,347	85.6 (32)	4.6	(27)	4,820	33.7 (73)	3,756	21.9 (43)	3,434	83.0 (50)

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

(2) Excludes records with unknown data or errors.

(3) Rank compares one county's rate to other counties. Rank 1 = best rate.

(4) Women who reported taking a multivitamin four times a week 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.



Table 6B
2009 - 2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Maternal Behavioral Indicators by County
Combined 3 Years

Comparison of Maternal Behavioral Indicators ^(2, 3)									
County	Medical Care			WIC Enrollment		Multivitamin Consumption			
	1st Trimester		No Care	1st Trimester		Pregnancy (4)		During Pregnancy (5)	
	Number	% (Rank)	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Wayne	42,900	80.6 (57)	3.2 (10)	49,647	24.8 (82)	27,955	15.3 (72)	34,403	83.6 (47)
Wexford	1,039	80.1 (60)	13.6 (66)	1,128	49.3 (22)	614	31.1 (9)	786	85.0 (40)
Unknown Counties	160	70.6 (79)	5.6 (32)	234	25.2 (81)	131	19.8 (56)	89	* *
Michigan	177,865	82.9	6.4	203,107	35.6	131,724	18.8	144,705	83.8

(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) Women who reported taking a multivitamin four times a week 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.



Table 7B
2009 - 2011 Pregnancy Nutrition Surveillance (1)
Michigan
Comparison of Smoking Indicators by County
Combined 3 Years

Comparison of Smoking Indicators (2, 3)										
County	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (4)	Smoking in Household				
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy			Prenatal		Postpartum		
	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Alcona	128	51.6 (64)	136	36.8 (77)	46	* *	85	* *	117	6.8 (57)
Alger	134	51.5 (63)	125	31.2 (63)	52	* *	87	* *	108	8.3 (71)
Allegan	4,587	32.4 (8)	4,654	17.3 (9)	1,304	37.7 (18)	3,878	9.1 (2)	4,639	2.8 (4)
Alpena	593	58.3 (78)	596	33.1 (66)	276	34.4 (24)	425	19.3 (41)	537	5.4 (33)
Antrim	407	49.6 (58)	421	28.0 (54)	163	33.1 (35)	286	24.8 (62)	384	10.9 (73)
Arenac	315	47.9 (53)	347	27.1 (45)	134	32.1 (42)	276	29.3 (72)	343	11.4 (75)
Baraga	195	61.0 (81)	193	39.4 (79)	88	* *	143	14.0 (10)	180	1.1 (2)
Barry	956	42.4 (31)	989	23.8 (27)	361	33.0 (36)	853	16.8 (20)	985	5.8 (41)
Bay	2,070	50.0 (60)	2,070	27.1 (45)	868	33.5 (32)	1,558	20.6 (45)	1,969	5.4 (33)
Benzie	312	42.3 (30)	273	23.4 (24)	98	* *	215	20.9 (47)	252	7.5 (63)
Berrien	3,187	39.2 (22)	3,297	21.3 (17)	999	33.7 (30)	2,704	21.6 (51)	3,293	6.7 (54)
Branch	1,168	38.9 (20)	1,184	24.2 (29)	392	27.3 (56)	1,026	19.9 (42)	1,183	4.9 (22)
Calhoun	3,243	41.8 (29)	3,275	23.8 (27)	1,136	29.6 (51)	2,942	19.2 (40)	3,273	4.8 (19)
Cass	1,291	34.2 (13)	1,316	20.7 (15)	373	32.4 (40)	1,101	15.6 (17)	1,306	5.7 (39)
Charlevoix	435	47.6 (51)	443	26.9 (42)	172	32.6 (39)	321	24.9 (63)	411	6.1 (46)

(1) Reporting period is January 1 through December 31.
(2) Excludes records with unknown data or errors.
(3) Rank compares one county's rate to other counties. Rank 1 = best rate.
(4) Among women who smoked 3 months prior to pregnancy.
* Percentages are not calculated if <100 records are available for analysis after exclusions.



Table 7B
2009 - 2011 Pregnancy Nutrition Surveillance (1)
Michigan
Comparison of Smoking Indicators by County
Combined 3 Years

Comparison of Smoking Indicators (2, 3)										
County	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (4)		Smoking in Household			
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Cheboygan	413	53.5 (70)	421	32.5 (65)	184	26.1 (60)	282	22.0 (54)	400	4.8 (19)
Chippewa	839	52.3 (67)	850	30.5 (62)	346	32.1 (42)	576	18.4 (34)	763	5.6 (37)
Clare	703	57.2 (77)	742	39.4 (79)	344	23.5 (65)	600	32.0 (74)	738	11.4 (75)
Clinton	694	42.7 (32)	723	21.3 (17)	248	40.7 (8)	524	14.5 (13)	716	3.5 (7)
Crawford	277	59.6 (80)	274	39.4 (79)	129	25.6 (61)	183	24.0 (60)	251	4.0 (9)
Delta	745	46.0 (41)	761	26.5 (40)	263	33.5 (32)	505	17.4 (26)	689	3.3 (6)
Dickinson	488	52.7 (68)	501	29.1 (58)	199	35.7 (22)	332	13.9 (9)	445	5.2 (30)
Eaton	1,280	39.5 (23)	1,308	20.5 (14)	411	39.4 (14)	1,121	17.7 (28)	1,301	6.1 (46)
Emmet	636	47.2 (48)	640	27.8 (51)	245	40.0 (11)	416	16.3 (19)	576	4.9 (22)
Genesee	8,739	36.3 (16)	7,635	17.9 (11)	2,093	40.5 (10)	6,272	21.4 (49)	7,471	4.7 (16)
Gladwin	457	52.1 (66)	470	33.4 (67)	210	27.1 (57)	383	30.8 (73)	468	16.9 (80)
Gogebic	311	55.6 (73)	304	26.3 (38)	126	38.9 (16)	220	16.8 (20)	276	3.6 (8)
Gr Travers	1,634	45.0 (37)	1,664	21.8 (19)	580	41.0 (7)	1,151	12.3 (8)	1,567	4.5 (14)
Gratiot	855	43.0 (34)	893	27.2 (47)	322	27.6 (55)	709	15.4 (16)	889	7.8 (66)
Hillsdale	924	39.9 (24)	972	27.4 (49)	317	23.0 (66)	807	17.5 (27)	963	5.2 (30)

(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.



Table 7B
2009 - 2011 Pregnancy Nutrition Surveillance (1)
Michigan
Comparison of Smoking Indicators by County
Combined 3 Years

Comparison of Smoking Indicators (2, 3)										
County	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (4)	Smoking in Household				
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy			Prenatal		Postpartum		
	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Houghton	649	40.7 (26)	668	22.5 (22)	205	36.1 (21)	431	7.4 (1)	604	0.5 (1)
Huron	621	45.9 (40)	647	27.0 (44)	239	31.8 (45)	460	21.7 (52)	605	5.1 (28)
Ingham	5,682	34.9 (14)	5,724	17.0 (8)	1,608	40.0 (11)	5,110	16.9 (22)	5,700	4.7 (16)
Ionia	1,298	35.8 (15)	1,299	25.6 (36)	393	19.1 (67)	1,042	28.5 (70)	1,295	5.6 (37)
Iosco	495	54.1 (71)	508	33.7 (68)	212	26.9 (59)	360	25.3 (65)	470	7.7 (64)
Iron	253	49.0 (54)	246	33.7 (68)	90	* *	151	22.5 (57)	212	4.2 (12)
Isabella	1,196	46.8 (46)	1,225	26.9 (42)	496	33.3 (34)	974	22.3 (56)	1,224	8.2 (70)
Jackson	3,682	45.3 (38)	3,687	26.3 (38)	1,443	32.3 (41)	3,409	21.3 (48)	3,685	6.1 (46)
Kalamazoo	4,859	38.5 (18)	4,807	21.1 (16)	1,568	34.1 (25)	4,014	20.6 (45)	4,796	7.3 (59)
Kalkaska	359	54.9 (72)	359	34.8 (72)	155	30.3 (49)	248	20.2 (44)	326	7.7 (64)
Kent	14,109	27.6 (3)	14,301	14.1 (4)	3,283	39.1 (15)	11,867	10.4 (4)	14,244	2.9 (5)
Lake	177	55.9 (75)	185	38.4 (78)	83	* *	130	36.2 (76)	169	5.3 (32)
Lapeer	1,615	40.8 (27)	1,660	23.3 (23)	531	35.0 (23)	1,129	18.1 (31)	1,541	6.7 (54)
Leelanau	162	33.3 (11)	178	19.1 (13)	45	* *	108	11.1 (5)	164	7.3 (59)
Lenawee	1,753	32.5 (9)	1,836	22.2 (21)	477	27.0 (58)	1,270	12.2 (7)	1,630	5.5 (36)

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(4) Among women who smoked 3 months prior to pregnancy.
* Percentages are not calculated if <100 records are available for analysis after exclusions.



Table 7B
2009 - 2011 Pregnancy Nutrition Surveillance (1)
Michigan
Comparison of Smoking Indicators by County
Combined 3 Years

Comparison of Smoking Indicators (2, 3)										
County	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (4)		Smoking in Household			
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Livingston	1,536	46.9 (47)	1,587	24.8 (34)	587	44.5 (4)	1,113	14.6 (14)	1,581	4.6 (15)
Luce	172	61.6 (82)	163	35.0 (74)	81	* *	123	22.8 (58)	150	6.0 (45)
Mackinac	139	43.9 (35)	135	29.6 (60)	55	* *	101	25.7 (66)	130	5.4 (33)
Macomb	10,248	33.6 (12)	6,378	13.1 (3)	1,516	48.3 (2)	7,862	14.3 (11)	6,210	4.0 (9)
Manistee	364	49.2 (55)	371	27.8 (51)	140	36.4 (20)	251	18.3 (32)	333	6.6 (52)
Marquette	1,049	51.0 (62)	1,054	28.5 (56)	413	33.7 (30)	693	16.0 (18)	941	2.6 (3)
Mason	629	42.8 (33)	637	24.2 (29)	214	34.1 (25)	455	18.7 (35)	576	4.9 (22)
Mecosta	888	47.5 (50)	900	32.3 (64)	332	24.4 (63)	626	17.3 (25)	828	5.9 (42)
Menominee	328	56.7 (76)	343	35.3 (76)	138	31.2 (47)	219	18.7 (35)	306	4.9 (22)
Midland	1,301	46.3 (43)	1,380	24.6 (32)	493	34.1 (25)	968	18.7 (35)	1,292	5.0 (26)
Missaukee	197	38.6 (19)	198	23.7 (26)	57	* *	147	28.6 (71)	181	8.3 (71)
Monroe	2,517	45.6 (39)	2,541	26.2 (37)	935	33.9 (28)	1,958	16.9 (22)	2,519	6.7 (54)
Montcalm	1,329	44.2 (36)	1,375	27.3 (48)	509	31.8 (45)	1,082	18.9 (38)	1,372	5.7 (39)
Montmorenc	146	50.7 (61)	151	21.9 (20)	56	* *	93	* *	135	5.9 (42)
Muskegon	4,886	40.1 (25)	5,018	23.4 (24)	1,703	33.8 (29)	4,052	18.0 (30)	4,990	7.4 (62)

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

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Table 7B
2009 - 2011 Pregnancy Nutrition Surveillance (1)
Michigan
Comparison of Smoking Indicators by County
Combined 3 Years

Comparison of Smoking Indicators (2, 3)										
County	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (4)		Smoking in Household			
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Newaygo	1,204	39.1 (21)	1,253	24.2 (29)	375	28.3 (53)	848	19.1 (39)	1,159	6.3 (50)
Oakland	12,818	24.6 (2)	13,392	10.9 (2)	2,455	46.3 (3)	9,436	11.6 (6)	13,012	4.1 (11)
Oceana	753	29.6 (4)	764	16.0 (6)	178	37.6 (19)	548	14.4 (12)	720	5.1 (28)
Ogemaw	460	53.3 (69)	496	34.9 (73)	187	29.4 (52)	336	27.1 (69)	441	7.3 (59)
Ontonagon	72	* *	79	* *	31	* *	51	* *	73	* *
Osceola	512	46.5 (45)	519	30.1 (61)	213	25.4 (62)	418	35.6 (75)	518	14.1 (78)
Oscoda	142	55.6 (73)	142	35.2 (75)	64	* *	98	* *	128	15.6 (79)
Otsego	638	47.3 (49)	657	26.5 (40)	238	31.1 (48)	443	26.2 (67)	589	12.1 (77)
Ottawa	1,625	33.0 (10)	1,686	16.1 (7)	486	40.7 (8)	1,372	9.5 (3)	1,679	4.2 (12)
Presque Is	157	49.7 (59)	166	33.7 (68)	65	* *	115	47.8 (77)	153	24.2 (82)
Roscommon	430	58.8 (79)	439	39.4 (79)	211	23.7 (64)	347	24.5 (61)	437	6.6 (52)
Saginaw	4,738	36.6 (17)	4,854	17.3 (9)	1,418	42.2 (5)	3,510	21.8 (53)	4,529	8.1 (69)
Sanilac	782	46.3 (43)	798	28.1 (55)	307	32.9 (37)	576	20.1 (43)	764	6.2 (49)
Schoolcraf	175	52.0 (65)	181	34.3 (71)	80	* *	132	26.5 (68)	164	11.0 (74)
Shiawassee	1,364	46.2 (42)	1,356	29.2 (59)	529	29.9 (50)	1,088	25.1 (64)	1,361	5.9 (42)

(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.



Table 7B
2009 - 2011 Pregnancy Nutrition Surveillance (1)
Michigan
Comparison of Smoking Indicators by County
Combined 3 Years

Comparison of Smoking Indicators (2, 3)										
County	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (4)		Smoking in Household			
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
St Clair	2,941	49.5 (57)	2,812	27.4 (49)	1,184	37.8 (17)	2,229	22.8 (58)	2,726	8.0 (67)
St Joseph	1,644	40.8 (27)	1,715	24.7 (33)	545	27.7 (54)	1,441	17.1 (24)	1,714	4.7 (16)
Tuscola	1,054	47.6 (51)	1,102	25.1 (35)	420	39.8 (13)	776	22.0 (54)	1,031	4.8 (19)
Van Buren	1,844	32.0 (7)	1,869	17.9 (11)	498	32.9 (37)	1,599	14.8 (15)	1,871	5.0 (26)
Washtenaw	4,406	29.9 (6)	4,355	14.7 (5)	1,019	42.0 (6)	3,437	18.3 (32)	4,312	6.9 (58)
Wayne	44,208	21.4 (1)	43,389	9.3 (1)	6,280	48.6 (1)	34,428	17.9 (29)	42,440	8.0 (67)
Wexford	1,046	49.3 (56)	1,066	27.9 (53)	405	32.1 (42)	772	21.5 (50)	997	6.4 (51)
Unknown Counties	128	29.7 (5)	140	28.6 (57)	21	* *	81	* *	140	21.4 (81)
Michigan	183,796	33.7	180,268	17.8	47,745	37.6	144,508	17.3	175,660	6.0

(1) Reporting period is January 1 through December 31.
(2) Excludes records with unknown data or errors.
(3) Rank compares one county's rate to other counties. Rank 1 = best rate.
(4) Among women who smoked 3 months prior to pregnancy.
* Percentages are not calculated if <100 records are available for analysis after exclusions.



Table 8B
2009 - 2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Infant Health Indicators by County
Combined 3 Years

Comparison of Infant Health Indicators ^(2, 3)									
County	Birthweight			Preterm (6)		Full Term LBW (7)		Ever Breastfed	
	Low (4)		High (5)						
	Number	% (Rank)	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Alcona	124	7.3 (43)	11.3 (76)	126	14.3 (82)	102	2.0 (6)	127	66.1 (41)
Alger	114	7.0 (39)	7.0 (20)	122	8.2 (11)	104	3.8 (70)	114	57.9 (67)
Allegan	4,257	6.8 (33)	7.6 (27)	4,507	10.8 (47)	3,756	2.9 (33)	4,424	69.6 (24)
Alpena	557	8.1 (60)	12.0 (80)	576	8.0 (8)	509	3.7 (67)	557	49.2 (80)
Antrim	369	6.8 (33)	6.0 (6)	389	9.8 (30)	333	3.6 (63)	372	80.1 (3)
Arenac	306	8.2 (63)	10.8 (71)	321	10.0 (36)	272	4.4 (74)	308	59.4 (64)
Baraga	182	8.2 (63)	9.9 (61)	188	9.6 (27)	163	4.3 (72)	179	59.8 (63)
Barry	924	6.2 (20)	8.9 (48)	956	10.5 (43)	822	2.7 (26)	927	66.1 (41)
Bay	1,957	7.6 (51)	9.9 (61)	2,002	11.0 (50)	1,730	3.1 (41)	1,951	58.4 (65)
Benzie	245	8.2 (63)	9.0 (49)	262	9.9 (34)	219	5.0 (76)	246	71.5 (18)
Berrien	3,109	8.7 (72)	7.4 (26)	3,188	11.2 (58)	2,736	3.2 (46)	3,103	50.1 (78)
Branch	1,101	6.2 (20)	8.3 (40)	1,132	9.8 (30)	976	2.3 (12)	1,102	59.9 (61)
Calhoun	3,127	7.5 (49)	8.2 (37)	3,219	9.8 (30)	2,817	3.4 (55)	3,131	54.1 (74)
Cass	1,197	6.6 (30)	8.5 (42)	1,285	11.1 (53)	1,053	3.3 (49)	1,238	66.4 (39)

(1) Reporting period is January 1 through December 31.
(2) Excludes records with unknown data or errors.
(3) Rank compares one county's rate to other counties. Rank 1 = best rate.
(4) <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.



Table 8B
2009 - 2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Infant Health Indicators by County
Combined 3 Years

Comparison of Infant Health Indicators ^(2, 3)									
County	Birthweight			Preterm (6)		Full Term LBW (7)		Ever Breastfed	
	Low (4)		High (5)						
	Number	% (Rank)	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Charlevoix	392	6.4 (26)	8.7 (44)	420	8.3 (13)	360	3.3 (49)	406	77.1 (8)
Cheboygan	399	4.5 (1)	8.8 (46)	410	7.6 (7)	366	2.2 (9)	400	69.0 (27)
Chippewa	771	5.4 (8)	11.8 (79)	814	7.2 (4)	704	2.7 (26)	770	66.9 (37)
Clare	677	7.8 (55)	6.6 (12)	701	13.7 (80)	578	3.6 (63)	673	57.5 (69)
Clinton	670	7.0 (39)	9.7 (59)	697	12.5 (75)	581	2.6 (21)	677	75.3 (9)
Crawford	252	8.3 (66)	5.2 (2)	264	8.7 (18)	230	3.5 (59)	253	70.4 (21)
Delta	710	6.5 (27)	9.6 (56)	731	11.1 (53)	624	2.6 (21)	707	64.5 (50)
Dickinson	456	5.3 (4)	8.3 (40)	473	8.5 (15)	417	1.9 (4)	456	64.9 (47)
Eaton	1,253	6.1 (14)	7.7 (28)	1,282	10.5 (43)	1,116	2.4 (13)	1,256	71.9 (17)
Emmet	554	7.4 (46)	10.1 (65)	607	9.7 (28)	495	2.4 (13)	589	79.6 (4)
Genesee	7,340	9.8 (78)	5.2 (2)	7,522	13.4 (79)	6,292	3.6 (63)	7,341	53.2 (76)
Gladwin	437	6.9 (36)	9.6 (56)	447	8.3 (13)	400	3.8 (70)	436	67.9 (30)
Gogebic	287	4.5 (1)	7.3 (23)	291	10.3 (39)	257	1.6 (2)	286	65.0 (46)
Gr Travers	1,524	6.6 (30)	10.0 (63)	1,595	11.2 (58)	1,345	2.5 (17)	1,526	82.2 (2)

(1) Reporting period is January 1 through December 31.
(2) Excludes records with unknown data or errors.
(3) Rank compares one county's rate to other counties. Rank 1 = best rate.
(4) <2500 g.
(5) >4000 g.
(6) <37 weeks gestation.
(7) 37 or more weeks gestation and <2500 g.
* Percentages are not calculated if <100 records are available for analysis after exclusions.



Table 8B
2009 - 2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Infant Health Indicators by County
Combined 3 Years

Comparison of Infant Health Indicators ^(2, 3)									
County	Birthweight			Preterm (6)		Full Term LBW (7)		Ever Breastfed	
	Low (4)		High (5)						
	Number	% (Rank)	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Gratiot	777	7.3 (43)	7.3 (23)	857	11.0 (50)	680	3.5 (59)	825	66.1 (41)
Hillsdale	879	6.5 (27)	7.8 (30)	927	8.2 (11)	805	3.1 (41)	887	67.8 (31)
Houghton	619	6.0 (12)	9.4 (54)	642	10.3 (39)	552	2.7 (26)	617	79.4 (6)
Huron	597	8.0 (59)	10.9 (73)	623	11.4 (62)	526	3.2 (46)	599	53.6 (75)
Ingham	5,451	7.2 (41)	8.0 (34)	5,624	10.5 (43)	4,856	2.5 (17)	5,488	66.2 (40)
Ionia	1,229	5.6 (9)	6.7 (14)	1,259	11.0 (50)	1,093	2.6 (21)	1,229	64.9 (47)
Iosco	450	5.3 (4)	11.6 (78)	480	7.3 (5)	408	2.0 (6)	462	65.4 (45)
Iron	227	6.2 (20)	4.8 (1)	234	11.1 (53)	198	2.5 (17)	227	59.9 (61)
Isabella	1,133	6.5 (27)	6.4 (9)	1,176	12.6 (76)	984	2.7 (26)	1,127	70.9 (19)
Jackson	3,565	8.5 (67)	7.9 (32)	3,598	11.1 (53)	3,121	3.4 (55)	3,562	60.5 (60)
Kalamazoo	4,472	8.9 (75)	7.1 (21)	4,642	12.3 (73)	3,873	3.3 (49)	4,519	62.8 (55)
Kalkaska	332	6.9 (36)	9.6 (56)	345	9.9 (34)	299	3.0 (36)	334	79.6 (4)
Kent	13,451	7.9 (57)	8.0 (34)	13,825	11.6 (65)	11,812	3.1 (41)	13,471	64.4 (51)
Lake	174	9.2 (77)	6.9 (17)	180	5.6 (1)	163	6.1 (80)	174	58.0 (66)

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Table 8B
2009 - 2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Infant Health Indicators by County
Combined 3 Years

Comparison of Infant Health Indicators ^(2, 3)									
County	Birthweight			Preterm (6)		Full Term LBW (7)		Ever Breastfed	
	Low (4)		High (5)						
	Number	% (Rank)	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Lapeer	1,554	7.9 (57)	6.7 (14)	1,591	11.8 (68)	1,357	2.8 (32)	1,550	67.0 (36)
Leelanau	169	5.9 (11)	12.4 (81)	171	8.8 (19)	154	2.6 (21)	169	84.6 (1)
Lenawee	1,664	7.5 (49)	6.5 (11)	1,804	9.3 (23)	1,493	3.5 (59)	1,748	67.3 (35)
Livingston	1,497	6.1 (14)	10.4 (67)	1,539	8.8 (19)	1,355	2.0 (6)	1,495	68.5 (28)
Luce	155	10.3 (80)	11.0 (74)	156	12.2 (72)	133	5.3 (78)	154	65.6 (44)
Mackinac	123	8.1 (60)	11.4 (77)	124	12.9 (78)	104	1.9 (4)	123	69.9 (23)
Macomb	6,160	8.5 (67)	6.2 (7)	6,289	12.0 (71)	5,371	3.4 (55)	6,198	72.7 (13)
Manistee	344	7.8 (55)	10.8 (71)	359	9.7 (28)	310	3.5 (59)	343	67.6 (32)
Marquette	1,008	7.4 (46)	8.8 (46)	1,028	11.6 (65)	886	3.4 (55)	1,009	70.1 (22)
Mason	588	6.1 (14)	8.2 (37)	604	11.3 (61)	519	3.1 (41)	586	67.4 (34)
Mecosta	839	4.8 (3)	9.8 (60)	857	10.3 (39)	745	1.7 (3)	840	66.8 (38)
Menominee	318	5.3 (4)	9.4 (54)	331	8.5 (15)	288	2.4 (13)	317	60.6 (59)
Midland	1,314	7.6 (51)	9.3 (53)	1,354	8.8 (19)	1,191	2.9 (33)	1,311	72.5 (14)
Missaukee	183	6.0 (12)	8.7 (44)	188	10.1 (38)	164	3.0 (36)	184	77.2 (7)

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- (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.



Table 8B
2009 - 2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Infant Health Indicators by County
Combined 3 Years

Comparison of Infant Health Indicators ^(2, 3)									
County	Birthweight			Preterm (6)		Full Term LBW (7)		Ever Breastfed	
	Low (4)		High (5)						
	Number	% (Rank)	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Monroe	2,421	8.1 (60)	8.1 (36)	2,483	11.5 (64)	2,131	3.3 (49)	2,418	61.0 (58)
Montcalm	1,285	6.2 (20)	6.3 (8)	1,311	9.8 (30)	1,144	2.6 (21)	1,282	67.5 (33)
Montmorenc	140	8.6 (70)	7.1 (21)	140	7.1 (3)	127	5.5 (79)	140	62.9 (54)
Muskegon	4,712	8.7 (72)	6.7 (14)	4,849	12.3 (73)	4,091	3.7 (67)	4,720	51.4 (77)
Newaygo	1,155	6.1 (14)	10.7 (69)	1,199	8.0 (8)	1,057	3.0 (36)	1,156	72.0 (16)
Oakland	12,798	8.9 (75)	6.6 (12)	13,175	11.8 (68)	11,225	3.3 (49)	12,872	54.4 (73)
Oceana	692	7.7 (53)	7.7 (28)	716	12.7 (77)	596	3.0 (36)	698	68.2 (29)
Ogemaw	450	6.2 (20)	10.7 (69)	475	9.5 (26)	408	1.5 (1)	454	61.2 (57)
Ontonagon	71	*	* * *	77	* *	62	* *	71	* *
Osceola	468	5.6 (9)	10.0 (63)	481	8.1 (10)	424	2.4 (13)	466	69.5 (25)
Oscoda	133	5.3 (4)	9.0 (49)	136	8.8 (19)	120	3.3 (49)	134	64.2 (52)
Otsego	554	8.7 (72)	8.5 (42)	603	10.0 (36)	494	4.3 (72)	579	72.5 (14)
Ottawa	1,563	6.3 (25)	10.4 (67)	1,647	10.4 (42)	1,401	2.2 (9)	1,608	74.6 (10)
Presque Is	152	7.2 (41)	9.2 (52)	159	9.4 (25)	140	3.6 (63)	152	46.7 (82)

(1) Reporting period is January 1 through December 31.
(2) Excludes records with unknown data or errors.
(3) Rank compares one county's rate to other counties. Rank 1 = best rate.
(4) <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.



Table 8B
2009 - 2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Infant Health Indicators by County
Combined 3 Years

Comparison of Infant Health Indicators ^(2, 3)										
County	Birthweight				Preterm (6)		Full Term LBW (7)		Ever Breastfed	
	Low (4)		High (5)							
	Number	% (Rank)	%	(Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Roscommon	394	7.4 (46)	7.9 (32)		418	8.6 (17)	356	3.1 (41)	395	74.2 (11)
Saginaw	4,490	10.0 (79)	6.9 (17)		4,672	11.8 (68)	3,933	5.0 (76)	4,483	49.8 (79)
Sanilac	757	6.1 (14)	5.5 (5)		785	11.7 (67)	664	3.2 (46)	754	61.5 (56)
Schoolcraf	162	8.6 (70)	11.1 (75)		165	7.3 (5)	147	6.8 (81)	160	56.9 (70)
Shiawassee	1,288	7.3 (43)	6.4 (9)		1,324	11.2 (58)	1,137	2.5 (17)	1,291	64.1 (53)
St Clair	2,696	7.7 (53)	6.9 (17)		2,755	11.4 (62)	2,387	2.7 (26)	2,698	56.8 (71)
St Joseph	1,588	6.9 (36)	8.2 (37)		1,644	10.8 (47)	1,403	2.7 (26)	1,599	64.7 (49)
Tuscola	1,033	6.7 (32)	7.8 (30)		1,054	11.1 (53)	912	3.0 (36)	1,031	55.9 (72)
Van Buren	1,736	6.1 (14)	9.0 (49)		1,828	10.9 (49)	1,537	2.2 (9)	1,764	70.5 (20)
Washtenaw	4,130	8.5 (67)	7.3 (23)		4,240	10.7 (46)	3,664	3.7 (67)	4,145	69.5 (25)
Wayne	40,658	10.7 (81)	5.4 (4)		42,233	13.7 (80)	34,623	4.9 (75)	41,175	47.9 (81)
Wexford	995	6.8 (33)	10.2 (66)		1,005	9.3 (23)	886	2.9 (33)	993	73.8 (12)
Unknown Counties	99	*	*	*	*	140	5.7 (2)	89	*	*

- (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.



Table 8B
2009 - 2011 Pregnancy Nutrition Surveillance ⁽¹⁾
Michigan
Comparison of Infant Health Indicators by County
Combined 3 Years

Comparison of Infant Health Indicators ^(2, 3)									
County	Birthweight			Preterm (6)		Full Term LBW (7)		Ever Breastfed	
	Low (4)	High (5)							
	Number	% (Rank)	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
Michigan	169,183	8.5	7.1	175,048	11.7	147,955	3.6	170,443	59.2

- (1) Reporting period is January 1 through December 31.
- (2) Excludes records with unknown data or errors.
- (3) Rank compares one county's rate to other counties. Rank 1 = best rate.
- (4) <2500 g.
- (5) >4000 g.
- (6) <37 weeks gestation.
- (7) 37 or more weeks gestation and <2500 g.
- * Percentages are not calculated if <100 records are available for analysis after exclusions.

