

# WIC PNSS & PedNSS

## Table 3F

### 2019 Pregnancy Nutrition Surveillance (1)

#### Michigan

#### Comparison of Racial and Ethnic Distribution by Local Agency

Comparison of Racial and Ethnic Distribution (2)								
Local Agency	Number Included in Analysis	White, Not Hispanic  %	Black, Not Hispanic  %	Hispanic  %	American Indian/Alaska Native  %	Asian/Pacific Islander  %	Multiple Races  %	All Other/Unknown  %
01DHD#2	371	88.1	1.1	5.4	0.3	0.3	4.9	0.0
02LMAS	162	75.9	0.0	1.2	3.1	0.0	19.8	0.0
04DHD#4	375	92.8	0.8	1.6	0.3	0.3	4.0	0.3
05NWMCHA	541	91.3	0.6	2.2	0.7	0.2	5.0	0.0
06CMDHD	1,066	88.6	1.0	3.7	1.5	0.7	4.2	0.3
07West UP	279	88.9	1.4	2.5	0.4	1.4	3.9	1.4
08Barry	495	88.1	2.6	5.9	0.0	1.6	1.2	0.6
09Bay	537	79.9	1.7	12.1	0.0	0.2	5.4	0.7
10Gr Trav	403	84.6	0.7	5.0	1.2	1.2	6.5	0.7
11Berrien	986	48.3	36.9	8.3	0.6	0.8	4.6	0.5
12BHS	1,067	82.3	0.6	11.4	0.0	0.2	4.5	1.0
13Calhoun	930	63.2	20.0	5.9	0.2	4.4	5.7	0.5
14Leelanau	134	81.3	0.7	6.7	4.5	0.0	5.2	1.5
15Interkar	2,511	62.6	3.9	26.7	0.2	1.4	4.3	1.0
17Chippewa	223	49.8	0.4	4.0	26.0	0.9	17.5	0.9
19Mid-Mich	747	87.3	0.4	9.4	0.0	0.0	2.5	0.4
21Delta	305	82.3	0.0	5.2	0.3	0.0	11.8	0.3
22Iron	199	87.4	0.5	2.5	0.0	0.0	6.0	3.5
25Genesee	2,816	47.9	38.6	5.3	0.0	0.1	7.7	0.4
30HDI	606	25.1	53.5	17.3	0.0	0.7	3.1	0.3
32Huron	150	93.3	0.0	4.0	0.0	0.7	1.3	0.7
33Ingham	1,848	41.6	29.0	14.9	0.1	5.2	8.8	0.3
35Keweenaw	37	*	*	*	*	*	*	*

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors

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

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37Ionia	355	86.2	0.0	9.3	0.0	0.3	3.9	0.3
38Jackson	1,002	72.9	13.4	5.3	0.2	0.2	7.7	0.4
39Kalamazo	1,501	47.6	33.0	9.7	0.1	1.2	8.1	0.3
41Kent	3,615	33.4	28.4	28.5	0.4	4.1	4.8	0.4
43DHD#10	1,620	82.5	1.9	10.5	0.2	0.4	4.2	0.4
44Lapeer	343	91.3	0.3	3.8	0.0	0.6	3.2	0.9
45Tuscola	302	93.0	0.0	4.6	0.0	0.0	2.3	0.0
46CAA	434	73.3	1.8	17.3	0.0	0.0	7.1	0.5
47Livingst	367	92.4	0.5	4.1	0.0	0.3	1.6	1.1
50Macomb	2,827	52.3	31.6	2.7	0.0	7.9	5.0	0.4
51DCS	556	70.3	11.2	11.9	0.2	2.2	4.3	0.0
52Marquett	266	90.6	0.4	1.9	0.8	0.0	6.4	0.0
56MMCAA	335	93.1	1.2	1.8	0.0	0.6	3.3	0.0
58Monroe	680	81.6	6.2	6.2	0.1	0.4	4.9	0.6
61Muskegon	1,363	53.9	27.9	9.5	0.4	0.4	7.6	0.3
63Oakland	3,221	48.1	32.6	12.4	0.0	2.4	4.3	0.2
73Saginaw	834	48.6	27.9	16.8	0.0	1.1	5.5	0.1
74St Clair	765	81.8	6.3	6.4	0.4	0.4	4.4	0.3
76Sanilac	212	93.4	0.0	5.2	0.0	0.0	1.4	0.0
78Shiawass	413	89.8	0.5	4.8	0.0	0.0	4.6	0.2
81Washtena	1,119	36.6	40.0	10.3	0.2	1.9	10.6	0.4
82Wayne	5,551	54.3	31.1	5.2	0.1	5.4	3.4	0.5
89Urban L	3,641	11.5	80.8	4.7	0.0	0.4	2.5	0.1

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<b>Local Agency</b>	Number Included in Analysis	White, Not Hispanic  %	Black, Not Hispanic  %	Hispanic  %	American Indian/Alaska Native  %	Asian/Pacific Islander  %	Multiple Races  %	All Other/Unknown  %
90Detroit	5,944	8.2	73.8	15.1	0.1	0.9	1.8	0.2
<b>Michigan</b>	<b>54,099</b>	<b>51.1</b>	<b>30.6</b>	<b>10.6</b>	<b>0.4</b>	<b>2.1</b>	<b>4.8</b>	<b>0.4</b>
<b>National (Prior Year)</b>	<b>181,949</b>	<b>53.8</b>	<b>23.0</b>	<b>14.9</b>	<b>1.5</b>	<b>2.8</b>	<b>3.7</b>	<b>0.4</b>

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# WIC PNSS & PedNSS

## Table 4F

### 2019 Pregnancy Nutrition Surveillance (1)

#### Michigan

#### Comparison of Age Distribution by Local Agency

<b>Comparison of Age Distribution (2)</b>								
Local Agency	Number Included in Analysis	< 15 Years %	15 - 17 Years %	18 - 19 Years %	20 - 29 Years %	30 - 39 Years %	>= 40 Years %	Unknown %
01DHD#2	371	0.0	3.5	8.1	64.7	22.6	1.1	0.0
02LMAS	162	0.0	4.9	8.0	64.2	21.6	1.2	0.0
04DHD#4	375	0.0	2.7	7.5	64.0	24.0	1.9	0.0
05NWMCHA	541	0.0	1.5	6.8	64.5	26.2	0.9	0.0
06CMDHD	1,066	0.2	2.6	6.9	69.1	20.0	0.9	0.2
07West UP	279	0.0	2.5	7.5	55.9	30.1	3.9	0.0
08Barry	495	0.2	3.8	7.7	59.6	26.5	1.8	0.4
09Bay	537	0.2	3.0	7.8	62.4	25.0	1.7	0.0
10Gr Trav	403	0.0	2.0	4.7	62.3	28.0	2.7	0.2
11Berrien	986	0.1	2.5	10.2	60.1	23.7	1.3	1.9
12BHS	1,067	0.0	2.1	9.9	62.3	23.1	2.4	0.1
13Calhoun	930	0.4	2.7	8.1	64.5	23.2	0.9	0.2
14Leelanau	134	0.0	3.7	4.5	61.2	30.6	0.0	0.0
15Interkar	2,511	0.0	3.2	8.4	60.3	26.4	1.6	0.1
17Chippewa	223	0.0	2.7	7.2	62.8	25.6	1.8	0.0
19Mid-Mich	747	0.3	2.7	7.1	66.9	21.4	1.6	0.0
21Delta	305	0.0	3.3	8.9	65.2	21.3	1.3	0.0
22Iron	199	0.5	1.5	8.5	61.8	26.1	1.5	0.0
25Genesee	2,816	0.1	2.7	7.7	65.0	22.8	1.5	0.1
30HDI	606	0.2	3.6	7.8	66.7	20.1	1.7	0.0
32Huron	150	0.0	1.3	4.0	67.3	25.3	2.0	0.0
33Ingham	1,848	0.1	2.4	8.3	61.0	26.5	1.6	0.2
35Keweenaw	37	*	*	*	*	*	*	*
37Ionia	355	0.0	1.7	9.9	62.0	25.4	1.1	0.0

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# WIC PNSS & PedNSS

## Table 4F

### 2019 Pregnancy Nutrition Surveillance (1)

#### Michigan

#### Comparison of Age Distribution by Local Agency

<b>Comparison of Age Distribution (2)</b>								
Local Agency	Number Included in Analysis	< 15 Years %	15 - 17 Years %	18 - 19 Years %	20 - 29 Years %	30 - 39 Years %	>= 40 Years %	Unknown %
38Jackson	1,002	0.0	2.8	9.6	64.1	22.8	0.8	0.0
39Kalamazo	1,501	0.1	3.4	9.3	60.0	25.0	2.3	0.0
41Kent	3,615	0.1	2.9	7.4	58.1	29.0	2.1	0.2
43DHD#10	1,620	0.1	2.5	9.1	63.7	22.7	1.7	0.1
44Lapeer	343	0.0	3.2	5.5	66.5	23.9	0.9	0.0
45Tuscola	302	0.3	3.0	6.0	67.5	20.9	2.3	0.0
46CAA	434	0.0	1.8	9.2	65.4	22.4	1.2	0.0
47Livingst	367	0.0	2.5	4.1	61.9	29.2	2.5	0.0
50Macomb	2,827	0.0	1.1	4.9	60.3	31.0	2.5	0.0
51DCS	556	0.0	0.7	5.0	64.2	27.2	2.9	0.0
52Marquett	266	0.0	0.8	9.4	60.9	27.1	1.9	0.0
56MMCAA	335	0.0	1.5	4.5	66.6	25.4	2.1	0.0
58Monroe	680	0.0	3.2	9.6	63.7	22.4	1.2	0.0
61Muskegon	1,363	0.2	3.7	10.5	62.2	22.2	1.0	0.2
63Oakland	3,221	0.1	1.1	5.8	57.6	32.5	2.6	0.4
73Saginaw	834	0.1	2.9	8.2	63.9	23.9	1.0	0.1
74St Clair	765	0.0	3.3	8.0	63.7	23.1	2.0	0.0
76Sanilac	212	0.0	3.3	12.7	68.4	15.6	0.0	0.0
78Shiawass	413	0.0	4.1	9.4	66.3	18.4	1.7	0.0
81Washtena	1,119	0.1	1.9	7.1	60.1	28.9	1.9	0.1
82Wayne	5,551	0.1	1.1	5.4	60.8	29.4	3.0	0.3
89Urban L	3,641	0.2	2.6	6.6	63.0	25.3	2.2	0.1
90Detroit	5,944	0.1	2.6	7.6	60.6	26.3	2.8	0.1

(1) Reporting period is January 1 through December 31

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## Table 4F

### 2019 Pregnancy Nutrition Surveillance (1)

#### Michigan

#### Comparison of Age Distribution by Local Agency

Michigan	54,102	0.1	2.4	7.4	61.8	26.1	2.0	0.2
National (Prior Year)	181,959	0.1	2.9	8.6	61.8	24.6	1.8	0.1

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors

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

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# WIC PNSS & PedNSS

## Table 5F

### 2019 Pregnancy Nutrition Surveillance (1)

#### Michigan

#### Comparison of Maternal Health Indicators by Local Agency

<b>Comparison of Maternal Health Indicators (2,3)</b>														
Local Agency	Prepregnancy BMI			Weight Gain			Anemia (Low Hb/Hct)				Gestational Diabetes During Pregnancy		Hypertension During Pregnancy	
	(4)			(5)			(6)							
	Under- weight		Over- weight	< Ideal		> Ideal	3rd Trimester		Postpartum					
	Number	% (Rank)	% (Rank)	Number	% (Rank)	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
01DHD#2	262	5.7 (41)	59.9 (18)	132	16.7 (7)	53.0 (23)	49	*	75	*	339	4.7 (2)	339	9.4 (11)
02LMAS	134	3.7 (14)	60.4 (22)	84	*	*	19	*	33	*	143	7.7 (26)	143	15.4 (38)
04DHD#4	355	6.2 (42)	58.9 (11)	168	18.5 (19)	54.2 (28)	47	*	77	*	343	5.8 (7)	343	13.4 (29)
05NWMCHA	430	4.4 (29)	60.5 (23)	143	18.9 (21)	51.0 (12)	76	*	71	*	523	6.5 (12)	522	12.8 (24)
06CMDHD	921	3.8 (20)	60.0 (19)	635	18.1 (16)	51.8 (17)	140	25.0 (3)	201	21.9 (8)	980	8.2 (29)	983	14.1 (32)
07West UP	217	3.7 (14)	55.3 (4)	105	20.0 (29)	49.5 (11)	36	*	79	*	250	7.2 (17)	250	10.0 (12)
08Barry	307	5.5 (38)	58.3 (10)	152	22.4 (37)	49.3 (9)	77	*	110	9.1 (1)	444	9.0 (38)	445	13.0 (26)
09Bay	447	2.9 (1)	62.0 (34)	291	17.5 (13)	52.6 (22)	87	*	77	*	494	5.1 (4)	494	8.9 (6)
10Gr Trav	354	3.7 (14)	53.4 (2)	286	13.3 (2)	54.5 (30)	55	*	67	*	374	11.0 (45)	374	7.5 (1)
11Berrien	839	4.4 (29)	60.7 (25)	610	21.8 (36)	48.0 (5)	134	43.3 (11)	143	21.0 (6)	893	8.0 (28)	893	16.5 (44)
12BHS	910	5.4 (37)	61.4 (30)	465	19.1 (24)	55.3 (33)	167	22.8 (2)	206	29.1 (13)	973	7.6 (23)	973	8.9 (6)
13Calhoun	727	3.9 (23)	63.0 (37)	399	20.6 (32)	53.1 (24)	119	41.2 (9)	210	27.1 (10)	839	9.2 (39)	838	10.0 (12)
14Leelanau	124	5.6 (39)	58.9 (11)	96	*	*	21	*	22	*	128	10.9 (44)	128	11.7 (19)
15Inter-car	1,998	5.6 (39)	60.3 (21)	1,156	21.3 (34)	46.9 (2)	357	38.7 (5)	636	31.4 (16)	2,270	8.6 (35)	2,273	9.3 (9)
17Chippewa	194	5.2 (34)	55.7 (6)	132	12.9 (1)	56.1 (35)	27	*	48	*	197	5.1 (4)	197	12.7 (23)
19Mid-Mich	705	5.0 (33)	61.4 (30)	577	19.2 (26)	49.4 (10)	110	13.6 (1)	212	11.3 (2)	704	8.9 (37)	705	15.0 (35)
21Delta	284	3.5 (11)	59.2 (16)	217	13.8 (3)	54.8 (31)	44	*	76	*	272	8.5 (33)	273	17.2 (45)

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

(2) Excludes records with unknown data or errors.

(3) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

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

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

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

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#### Comparison of Maternal Health Indicators by Local Agency

<b>Comparison of Maternal Health Indicators (2,3)</b>														
Local Agency	Prepregnancy BMI			Weight Gain			Anemia (Low Hb/Hct)				Gestational Diabetes During Pregnancy		Hypertension During Pregnancy	
	(4)			(5)			(6)							
	Under- weight		Over- weight	< Ideal		> Ideal	3rd Trimester		Postpartum					
	Number	% (Rank)	% (Rank)	Number	% (Rank)	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
22Iron	151	8.6 (45)	53.6 (3)	62	*	*	31	*	47	*	172	6.4 (11)	172	12.8 (24)
25Genesee	2,183	5.3 (36)	58.9 (11)	1,131	19.2 (26)	51.9 (19)	520	49.2 (19)	515	31.1 (15)	2,601	7.2 (17)	2,602	14.7 (34)
30HDI	571	3.0 (2)	69.4 (45)	436	20.0 (29)	48.9 (8)	101	43.6 (12)	346	31.8 (18)	562	5.9 (8)	562	13.3 (27)
32Huron	129	6.2 (42)	63.6 (40)	94	*	*	20	*	35	*	137	5.1 (4)	138	8.0 (3)
33Ingham	1,534	4.2 (25)	61.9 (33)	1,199	18.3 (18)	52.0 (20)	333	48.0 (17)	369	31.4 (16)	1,718	7.3 (19)	1,719	10.5 (14)
35Keweenaw	29	*	*	5	*	*	10	*	16	*	34	*	34	*
37Ionia	277	3.2 (6)	64.3 (43)	186	15.6 (4)	56.5 (37)	45	*	92	*	324	10.8 (43)	323	16.4 (42)
38Jackson	719	4.2 (25)	62.0 (34)	425	20.0 (29)	54.4 (29)	144	38.9 (6)	154	33.8 (21)	913	7.1 (16)	915	9.3 (9)
39Kalamazo	1,220	3.7 (14)	60.9 (27)	625	17.4 (10)	54.9 (32)	193	45.6 (14)	350	34.0 (23)	1,357	9.4 (40)	1,357	10.9 (17)
41Kent	2,493	4.2 (25)	59.6 (17)	1,054	28.0 (39)	40.9 (1)	681	41.6 (10)	1,255	32.3 (19)	3,347	7.6 (23)	3,352	13.7 (31)
43DHD#10	1,395	4.5 (32)	60.1 (20)	930	17.5 (13)	51.6 (16)	246	37.4 (4)	359	24.8 (9)	1,498	8.5 (33)	1,497	13.4 (29)
44Lapeer	338	3.0 (2)	56.2 (7)	306	18.0 (15)	53.3 (25)	61	*	91	*	320	4.4 (1)	320	7.5 (1)
45Tuscola	223	3.1 (5)	61.4 (30)	168	16.1 (5)	58.9 (39)	39	*	64	*	287	9.8 (41)	287	15.3 (37)
46CAA	335	3.0 (2)	61.2 (29)	52	*	*	91	*	119	42.9 (27)	394	8.6 (35)	394	11.7 (19)
47Livingst	349	5.2 (34)	49.6 (1)	221	21.7 (35)	48.4 (7)	53	*	129	13.2 (3)	329	13.4 (46)	329	15.8 (40)
50Macomb	2,427	3.7 (14)	61.1 (28)	1,981	19.7 (28)	51.2 (13)	555	40.5 (7)	782	27.1 (10)	2,629	7.5 (21)	2,630	9.0 (8)
51DCS	471	3.6 (13)	56.7 (8)	289	17.0 (8)	57.4 (38)	91	*	175	20.0 (5)	516	8.3 (31)	516	12.4 (21)

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

(2) Excludes records with unknown data or errors.

(3) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

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

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

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

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#### Comparison of Maternal Health Indicators by Local Agency

<b>Comparison of Maternal Health Indicators (2,3)</b>														
<b>Local Agency</b>	Prepregnancy BMI			Weight Gain			Anemia (Low Hb/Hct)				Gestational Diabetes During Pregnancy		Hypertension During Pregnancy	
	(4)			(5)			(6)							
	Under- weight		Over- weight	< Ideal		> Ideal	3rd Trimester		Postpartum					
	Number	% (Rank)	% (Rank)	Number	% (Rank)	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)	Number	% (Rank)
52Marquett	236	3.4 (8)	60.6 (24)	173	16.2 (6)	53.8 (26)	38	*	59	*	230	4.8 (3)	232	16.4 (42)
56MMCAA	319	3.4 (8)	63.0 (37)	21	*	*	49	*	127	14.2 (4)	316	7.9 (27)	316	13.3 (27)
58Monroe	566	3.2 (6)	65.4 (44)	358	24.0 (38)	46.9 (2)	118	50.0 (21)	145	30.3 (14)	624	7.5 (21)	625	16.3 (41)
61Muskegon	1,226	4.4 (29)	62.7 (36)	798	18.5 (19)	52.5 (21)	181	45.3 (13)	180	21.7 (7)	1,245	8.4 (32)	1,246	18.3 (46)
63Oakland	2,776	4.0 (24)	57.9 (9)	1,780	17.4 (10)	54.0 (27)	569	47.5 (16)	755	33.8 (21)	2,949	6.6 (13)	2,950	10.7 (15)
73Saginaw	671	3.7 (14)	58.9 (11)	517	18.2 (17)	51.8 (17)	146	48.6 (18)	154	28.6 (12)	774	7.6 (23)	775	10.8 (16)
74St Clair	719	6.3 (44)	55.6 (5)	632	17.4 (10)	55.5 (34)	108	40.7 (8)	129	37.2 (25)	708	8.2 (29)	709	15.7 (39)
76Sanilac	33	*	*	18	*	*	39	*	36	*	193	7.3 (19)	193	8.3 (5)
78Shiawass	398	3.8 (20)	63.6 (40)	332	19.0 (23)	47.3 (4)	64	*	89	*	375	10.1 (42)	376	14.1 (32)
81Washtena	982	3.8 (20)	60.7 (25)	658	21.1 (33)	48.3 (6)	208	46.2 (15)	330	33.6 (20)	991	7.0 (15)	993	12.4 (21)
82Wayne	4,051	4.2 (25)	58.9 (11)	2,544	18.9 (21)	51.2 (13)	1,113	49.5 (20)	1,564	34.0 (23)	5,117	6.7 (14)	5,116	8.2 (4)
89Urban L	2,970	3.5 (11)	64.1 (42)	1,700	17.2 (9)	56.1 (35)	633	62.7 (23)	583	50.6 (28)	3,388	6.1 (10)	3,391	15.0 (35)
90Detroit	4,702	3.4 (8)	63.2 (39)	3,013	19.1 (24)	51.2 (13)	1,053	55.2 (22)	806	39.0 (26)	5,590	6.0 (9)	5,588	11.3 (18)
<b>Michigan</b>	<b>43,733</b>	<b>4.2</b>	<b>60.6</b>	<b>27,372</b>	<b>19.1</b>	<b>51.5</b>	<b>9,098</b>	<b>45.0</b>	<b>12,203</b>	<b>30.7</b>	<b>49,829</b>	<b>7.3</b>	<b>49,855</b>	<b>11.9</b>
<b>National (Prior Year)</b>	<b>159,852</b>	<b>4.1</b>	<b>60.3</b>	<b>114,229</b>	<b>22.5</b>	<b>48.3</b>	<b>44,569</b>	<b>18.2</b>	<b>57,476</b>	<b>18.5</b>	<b>100,642</b>	<b>10.0</b>	<b>99,796</b>	<b>9.4</b>

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

(2) Excludes records with unknown data or errors.

(3) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

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

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

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

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

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

# WIC PNSS & PedNSS

## Table 6F

### 2019 Pregnancy Nutrition Surveillance (1)

#### Michigan

#### Comparison of Maternal Behavioral Indicators by Local Agency

<b>Comparison of Maternal Behavioral Indicators (2,3)</b>									
Local Agency	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)
01DHD#2	337	81.0 (37)	11.3 (36)	361	32.7 (25)	322	19.9 (28)	291	93.1 (8)
02LMAS	144	79.2 (38)	12.5 (38)	158	41.1 (1)	139	28.1 (11)	129	89.1 (23)
04DHD#4	344	81.4 (34)	11.0 (34)	364	37.9 (11)	331	22.7 (21)	291	90.4 (17)
05NWMCHA	524	87.4 (16)	5.3 (14)	532	35.0 (21)	489	24.9 (17)	429	86.9 (33)
06CMDHD	982	81.1 (36)	12.5 (38)	1,053	38.4 (10)	930	25.7 (15)	838	88.8 (25)
07West UP	250	84.8 (24)	9.2 (29)	275	36.4 (16)	251	37.8 (5)	220	95.5 (1)
08Barry	444	88.1 (14)	5.6 (17)	492	30.3 (30)	453	25.4 (16)	370	93.8 (5)
09Bay	493	76.5 (44)	18.7 (45)	533	39.2 (7)	491	15.3 (39)	445	89.4 (21)
10Gr Trav	373	82.3 (32)	11.0 (34)	399	27.6 (34)	350	22.0 (22)	280	87.1 (29)
11Berrien	871	71.3 (46)	13.9 (42)	972	30.9 (28)	862	15.2 (40)	731	88.5 (26)
12BHS	916	77.0 (41)	13.4 (40)	1,055	34.6 (22)	936	18.7 (31)	812	85.1 (39)
13Calhoun	822	88.4 (12)	6.6 (21)	913	35.6 (18)	657	19.0 (29)	689	83.5 (43)
14Leelanau	128	81.3 (35)	11.7 (37)	134	36.6 (15)	110	28.2 (10)	105	85.7 (36)
15Intercar	2,256	87.1 (18)	7.3 (23)	2,476	35.2 (19)	1,998	24.2 (20)	1,883	86.1 (34)
17Chippewa	196	85.2 (23)	9.2 (29)	217	39.2 (7)	180	42.8 (2)	168	84.5 (40)
19Mid-Mich	702	76.6 (42)	17.0 (44)	737	36.1 (17)	653	24.5 (19)	580	92.9 (10)
21Delta	270	88.9 (11)	5.9 (19)	302	41.1 (1)	262	26.3 (14)	235	93.2 (7)
22Iron	173	85.5 (22)	10.4 (33)	197	37.1 (13)	171	44.4 (1)	159	93.1 (8)
25Genesee	2,594	86.0 (19)	4.2 (10)	2,764	24.3 (37)	2,141	4.3 (46)	1,985	86.1 (34)
30HDI	557	85.8 (20)	5.0 (12)	603	39.6 (4)	530	12.3 (44)	496	81.3 (46)

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

(2) Excludes records with unknown data or errors.

(3) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

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

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

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

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

# WIC PNSS & PedNSS

## Table 6F

### 2019 Pregnancy Nutrition Surveillance (1)

#### Michigan

#### Comparison of Maternal Behavioral Indicators by Local Agency

<b>Comparison of Maternal Behavioral Indicators (2,3)</b>									
<b>Local Agency</b>	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)
32Huron	137	87.6 (15)	8.0 (26)	149	32.2 (26)	126	32.5 (8)	112	87.5 (27)
33Ingham	1,705	85.6 (21)	5.7 (18)	1,832	28.9 (33)	1,635	8.3 (45)	1,369	90.7 (15)
35Keweenaw	34	*	*	37	*	35	*	32	*
37Ionia	318	95.3 (1)	2.8 (4)	353	33.4 (24)	312	21.5 (23)	261	91.6 (13)
38Jackson	908	84.1 (27)	8.5 (27)	989	38.7 (9)	878	17.1 (33)	798	85.3 (38)
39Kalamazo	1,349	84.8 (24)	8.5 (27)	1,488	39.4 (6)	1,352	15.8 (37)	1,188	82.6 (44)
41Kent	3,319	84.6 (26)	5.4 (15)	3,571	23.3 (38)	3,094	21.0 (24)	2,677	90.5 (16)
43DHD#10	1,490	79.2 (38)	13.4 (40)	1,598	37.1 (13)	1,285	28.8 (9)	1,282	87.0 (30)
44Lapeer	319	82.8 (31)	10.3 (32)	337	30.0 (32)	309	14.6 (41)	257	94.9 (2)
45Tuscola	288	81.9 (33)	9.7 (31)	295	31.5 (27)	257	26.8 (13)	218	94.0 (4)
46CAA	387	92.2 (4)	3.6 (8)	429	23.3 (38)	373	18.2 (32)	322	89.1 (23)
47Livingst	328	91.2 (5)	3.0 (5)	359	21.2 (44)	267	41.6 (3)	237	90.3 (18)
50Macomb	2,615	90.5 (8)	4.1 (9)	2,774	22.9 (40)	1,987	12.9 (43)	1,944	92.3 (11)
51DCS	511	90.2 (9)	3.1 (6)	545	20.0 (46)	360	28.1 (11)	386	93.8 (5)
52Marquett	228	91.2 (5)	4.4 (11)	264	34.5 (23)	201	40.3 (4)	217	89.9 (19)
56MMCAA	316	94.3 (2)	1.3 (1)	333	21.0 (45)	299	33.4 (7)	241	94.2 (3)
58Monroe	622	83.4 (28)	7.4 (25)	672	30.2 (31)	604	20.2 (27)	516	89.5 (20)
61Muskegon	1,224	88.4 (12)	5.1 (13)	1,331	39.6 (4)	1,142	15.4 (38)	1,048	82.4 (45)
63Oakland	2,899	87.3 (17)	7.2 (22)	3,196	27.3 (35)	2,347	16.5 (34)	2,345	87.3 (28)
73Saginaw	763	83.4 (28)	6.4 (20)	830	30.4 (29)	724	16.0 (35)	630	87.0 (30)
74St Clair	702	72.2 (45)	21.1 (46)	755	37.4 (12)	629	20.8 (26)	609	84.2 (41)

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

(2) Excludes records with unknown data or errors.

(3) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

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

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

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

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

# WIC PNSS & PedNSS

## Table 6F

### 2019 Pregnancy Nutrition Surveillance (1)

#### Michigan

#### Comparison of Maternal Behavioral Indicators by Local Agency

<b>Comparison of Maternal Behavioral Indicators (2,3)</b>									
<b>Local Agency</b>	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)
76Sanilac	191	89.5 (10)	7.3 (23)	211	40.3 (3)	196	36.2 (6)	183	92.3 (11)
78Shiawass	372	76.6 (42)	16.9 (43)	410	35.1 (20)	367	21.0 (24)	324	87.0 (30)
81Washtena	994	90.6 (7)	3.1 (6)	1,092	27.3 (35)	974	15.9 (36)	842	91.3 (14)
82Wayne	5,072	92.6 (3)	2.0 (2)	5,463	21.7 (43)	3,952	24.6 (18)	3,876	89.2 (22)
89Urban L	3,365	83.4 (28)	2.6 (3)	3,558	22.1 (42)	2,244	19.0 (29)	2,567	83.6 (42)
90Detroit	5,556	78.9 (40)	5.5 (16)	5,870	22.5 (41)	3,935	14.3 (42)	4,126	85.5 (37)
<b>Michigan</b>	<b>49,415</b>	<b>84.9</b>	<b>6.6</b>	<b>53,324</b>	<b>28.5</b>	<b>42,172</b>	<b>19.1</b>	<b>39,761</b>	<b>87.7</b>
<b>National (Prior Year)</b>	<b>125,577</b>	<b>72.2</b>	<b>5.9</b>	<b>159,369</b>	<b>19.0</b>	<b>98,317</b>	<b>21.7</b>	<b>96,069</b>	<b>88.0</b>

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

(2) Excludes records with unknown data or errors.

(3) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

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

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

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

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

# WIC PNSS & PedNSS

## Table 7F

### 2019 Pregnancy Nutrition Surveillance (1)

### Michigan

### Comparison of Smoking Indicators by Local Agency

<b>Comparison of Smoking Indicators (2,3)</b>										
Local Agency	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)
01DHD#2	325	43.4 (43)	338	30.5 (44)	112	25.0 (27)	290	16.9 (43)	337	3.9 (32)
02LMAS	148	39.9 (39)	144	29.9 (41)	52	*	129	14.7 (37)	144	2.8 (22)
04DHD#4	333	47.7 (46)	343	30.3 (43)	128	26.6 (25)	291	15.5 (41)	343	4.4 (36)
05NWMCHA	491	39.9 (39)	523	27.0 (39)	170	28.8 (24)	429	17.2 (44)	521	5.6 (43)
06CMDHD	956	43.0 (42)	987	26.2 (37)	332	34.6 (18)	838	15.9 (42)	988	4.0 (33)
07West UP	257	37.7 (32)	250	28.0 (40)	79	*	220	8.6 (16)	250	2.4 (19)
08Barry	454	36.3 (27)	445	20.9 (26)	123	37.4 (11)	370	7.8 (11)	445	4.0 (33)
09Bay	495	32.3 (21)	496	22.6 (30)	137	21.2 (30)	444	14.6 (35)	495	4.6 (39)
10Gr Trav	350	35.1 (23)	374	20.1 (21)	101	35.6 (15)	280	8.9 (17)	374	2.1 (14)
11Berrien	861	32.1 (20)	894	16.1 (17)	215	40.5 (9)	731	13.4 (32)	894	4.7 (40)
12BHS	936	38.7 (35)	972	23.3 (34)	278	35.6 (15)	809	13.6 (33)	970	3.1 (25)
13Calhoun	813	28.4 (14)	834	19.2 (20)	182	23.1 (29)	698	8.9 (17)	838	2.3 (16)
14Leelanau	122	36.9 (30)	128	20.3 (23)	39	*	106	9.4 (20)	128	2.3 (16)
15InterCar	2,212	23.3 (10)	2,274	12.7 (10)	432	36.3 (14)	1,881	5.7 (3)	2,273	1.1 (3)
17Chippewa	190	44.7 (44)	195	31.8 (46)	70	*	167	15.0 (40)	197	6.6 (45)
19Mid-Mich	666	36.9 (30)	703	22.8 (31)	206	31.1 (21)	580	11.0 (24)	707	3.5 (28)
21Delta	274	45.3 (45)	273	23.1 (33)	99	*	235	14.9 (39)	272	5.1 (41)
22Iron	174	36.8 (29)	172	30.8 (45)	55	*	159	9.4 (20)	171	3.5 (28)

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

(2) Excludes records with unknown data or errors.

(3) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

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

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

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

# WIC PNSS & PedNSS

## Table 7F

### 2019 Pregnancy Nutrition Surveillance (1)

#### Michigan

#### Comparison of Smoking Indicators by Local Agency

<b>Comparison of Smoking Indicators (2,3)</b>										
<b>Local Agency</b>	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)
25Genesee	2,412	26.4 (12)	2,616	15.3 (14)	492	34.6 (18)	1,983	9.1 (19)	2,608	1.6 (8)
30HDI	531	31.8 (19)	562	13.9 (12)	150	42.7 (7)	496	10.7 (23)	561	1.8 (12)
32Huron	136	39.7 (38)	138	22.5 (29)	43	*	112	18.8 (45)	138	5.1 (41)
33Ingham	1,639	18.2 (6)	1,719	9.9 (8)	247	37.7 (10)	1,360	7.6 (9)	1,711	3.3 (26)
35Keweenaw	35	*	34	*	17	*	32	*	34	*
37Ionia	312	36.2 (26)	324	22.2 (27)	95	*	261	11.1 (25)	324	2.5 (20)
38Jackson	897	38.7 (35)	914	26.3 (38)	288	30.2 (22)	796	13.1 (31)	915	2.8 (22)
39Kalamazo	1,359	24.2 (11)	1,355	14.9 (13)	267	26.6 (25)	1,187	7.6 (9)	1,353	1.3 (4)
41Kent	3,199	17.9 (5)	3,357	8.9 (6)	442	41.0 (8)	2,637	4.4 (1)	3,337	1.6 (8)
43DHD#10	1,427	35.5 (24)	1,499	22.8 (31)	437	32.0 (20)	1,282	12.9 (30)	1,499	3.3 (26)
44Lapeer	309	26.9 (13)	320	15.3 (14)	57	*	257	6.2 (5)	320	0.9 (1)
45Tuscola	258	39.1 (37)	288	23.6 (35)	84	*	218	12.8 (29)	288	1.4 (6)
46CAA	374	34.8 (22)	394	15.7 (16)	93	*	318	8.5 (15)	395	4.3 (35)
47Livingst	317	28.4 (14)	326	18.4 (19)	65	*	237	5.9 (4)	328	2.1 (14)
50Macomb	2,478	18.5 (7)	2,630	9.2 (7)	329	46.2 (6)	1,944	8.2 (13)	2,629	1.7 (11)
51DCS	486	21.6 (8)	514	8.6 (5)	83	*	386	6.2 (5)	516	1.9 (13)
52Marquett	242	40.5 (41)	233	30.0 (42)	82	*	218	8.3 (14)	232	3.0 (24)
56MMCAA	300	29.0 (16)	316	20.3 (23)	69	*	241	7.1 (8)	315	3.5 (28)
58Monroe	606	36.3 (27)	624	20.8 (25)	180	37.2 (12)	516	11.8 (26)	622	2.3 (16)

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

(2) Excludes records with unknown data or errors.

(3) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

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

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

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

# WIC PNSS & PedNSS

## Table 7F

### 2019 Pregnancy Nutrition Surveillance (1)

### Michigan

### Comparison of Smoking Indicators by Local Agency

<b>Comparison of Smoking Indicators (2,3)</b>										
<b>Local Agency</b>	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)
61Muskegon	1,187	30.6 (17)	1,241	20.2 (22)	314	24.8 (28)	1,048	12.2 (28)	1,244	4.5 (38)
63Oakland	2,899	12.5 (1)	2,950	6.7 (2)	277	36.8 (13)	2,337	5.1 (2)	2,948	1.3 (4)
73Saginaw	727	36.0 (25)	780	12.9 (11)	219	57.5 (2)	629	10.5 (22)	780	1.0 (2)
74St Clair	691	38.4 (34)	711	22.4 (28)	216	35.2 (17)	607	18.9 (46)	707	7.2 (46)
76Sanilac	199	30.7 (18)	193	17.6 (18)	48	*	183	12.0 (27)	193	2.6 (21)
78Shiawass	374	38.2 (33)	376	24.2 (36)	121	28.9 (23)	324	14.8 (38)	375	3.5 (28)
81Washtena	986	22.8 (9)	995	11.4 (9)	179	46.9 (5)	840	8.0 (12)	995	1.6 (8)
82Wayne	4,862	14.9 (2)	5,117	7.2 (4)	525	47.8 (4)	3,846	6.8 (7)	5,118	1.4 (6)
89Urban L	3,060	17.6 (4)	3,387	7.0 (3)	436	55.5 (3)	2,563	14.2 (34)	3,379	5.7 (44)
90Detroit	4,962	17.0 (3)	5,596	5.9 (1)	698	58.9 (1)	4,115	14.6 (35)	5,590	4.4 (36)
<b>Michigan</b>	<b>47,367</b>	<b>24.7</b>	<b>49,881</b>	<b>13.5</b>	<b>9,363</b>	<b>38.4</b>	<b>39,647</b>	<b>10.1</b>	<b>49,826</b>	<b>2.9</b>
<b>National (Prior Year)</b>	<b>155,621</b>	<b>27.7</b>	<b>167,457</b>	<b>14.5</b>	<b>26,902</b>	<b>35.4</b>	<b>120,434</b>	<b>11.5</b>	<b>146,763</b>	<b>7.1</b>

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

(2) Excludes records with unknown data or errors.

(3) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

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

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

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

# WIC PNSS & PedNSS

## Table 8F

### 2019 Pregnancy Nutrition Surveillance (1)

### Michigan

### Comparison of Infant Health Indicators by Local Agency

<b>Comparison of Infant Health Indicators (2,3)</b>									
Local Agency	Birthweight			Preterm		Full Term LBW		Ever Breastfed	
	Low (4)		High (5)	(6)		(7)			
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
01DHD#2	311	7.1 (8)	6.4 (15)	322	7.5 (1)	285	4.9 (41)	312	68.3 (34)
02LMAS	141	6.4 (4)	12.8 (45)	139	7.9 (3)	126	2.4 (7)	141	74.5 (25)
04DHD#4	317	9.8 (30)	8.8 (32)	320	10.0 (11)	278	4.7 (38)	316	77.5 (20)
05NWMCHA	467	7.7 (15)	9.0 (35)	506	11.7 (24)	409	2.7 (10)	493	83.8 (5)
06CMDHD	929	7.8 (17)	5.9 (12)	959	11.6 (23)	818	3.3 (16)	932	79.0 (15)
07West UP	235	7.2 (10)	8.9 (33)	238	7.6 (2)	214	4.2 (27)	235	83.8 (5)
08Barry	419	8.1 (18)	9.8 (40)	439	11.2 (18)	371	4.6 (35)	427	81.0 (12)
09Bay	468	8.5 (21)	6.6 (17)	481	9.8 (8)	424	4.5 (32)	469	63.1 (38)
10Gr Trav	353	6.2 (3)	13.6 (46)	364	8.8 (4)	318	1.9 (4)	353	82.4 (9)
11Berrien	841	7.7 (15)	5.0 (5)	867	9.9 (9)	748	4.0 (24)	843	71.4 (30)
12BHS	913	7.3 (11)	8.2 (29)	946	9.9 (9)	815	2.3 (6)	920	80.0 (14)
13Calhoun	803	9.0 (26)	7.7 (27)	813	9.7 (7)	715	4.6 (35)	805	73.8 (27)
14Leelanau	124	4.0 (1)	8.9 (33)	126	9.5 (6)	113	0.0 (1)	124	87.9 (1)
15Intercar	2,133	7.0 (6)	9.1 (37)	2,195	10.6 (15)	1,893	2.7 (10)	2,160	77.4 (21)
17Chippewa	179	9.5 (28)	11.7 (44)	182	11.5 (21)	154	2.6 (8)	179	61.5 (41)
19Mid-Mich	661	7.6 (14)	9.2 (39)	675	10.7 (16)	583	3.4 (19)	662	87.0 (3)
21Delta	260	8.5 (21)	7.3 (24)	262	10.7 (16)	230	3.9 (21)	260	77.3 (22)
22Iron	161	8.7 (23)	10.6 (41)	167	10.2 (13)	144	4.9 (41)	161	78.9 (16)
25Genesee	2,509	11.6 (40)	6.0 (13)	2,551	13.8 (43)	2,148	5.9 (44)	2,513	55.0 (44)

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

(2) Excludes records with unknown data or errors.

(3) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

(4) <2500 g.

(5) >4000 g.

(6) <37 weeks gestation.

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

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

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



# WIC PNSS & PedNSS

## Table 8F

### 2019 Pregnancy Nutrition Surveillance (1)

#### Michigan

#### Comparison of Infant Health Indicators by Local Agency

<b>Comparison of Infant Health Indicators (2,3)</b>									
<b>Local Agency</b>	Birthweight			Preterm		Full Term LBW		Ever Breastfed	
	Low (4)		High (5)	(6)		(7)			
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
30HDI	534	11.8 (42)	3.4 (1)	543	13.6 (39)	462	4.3 (28)	534	62.9 (39)
32Huron	127	11.8 (42)	7.1 (22)	132	12.1 (29)	112	3.6 (20)	127	78.7 (17)
33Ingham	1,602	9.6 (29)	6.6 (17)	1,671	11.7 (24)	1,415	4.4 (31)	1,618	77.8 (19)
35Keweenaw	33	*	*	34	*	29	*	33	*
37Ionia	312	8.7 (23)	9.0 (35)	316	11.7 (24)	274	2.9 (12)	312	82.7 (8)
38Jackson	871	10.2 (31)	7.3 (24)	885	11.5 (21)	768	3.9 (21)	870	71.7 (29)
39Kalamazo	1,274	11.6 (40)	7.5 (26)	1,318	12.8 (36)	1,110	4.3 (28)	1,288	71.2 (31)
41Kent	3,175	12.3 (44)	5.8 (10)	3,255	15.2 (45)	2,673	4.5 (32)	3,184	75.6 (23)
43DHD#10	1,397	7.1 (8)	7.7 (27)	1,431	11.3 (19)	1,221	2.9 (12)	1,400	78.2 (18)
44Lapeer	306	6.9 (5)	8.2 (29)	309	10.0 (11)	271	3.0 (14)	306	80.4 (13)
45Tuscola	271	8.9 (25)	8.5 (31)	272	13.6 (39)	229	2.2 (5)	270	81.5 (10)
46CAA	370	7.0 (6)	6.5 (16)	390	12.1 (29)	322	1.6 (3)	369	74.0 (26)
47Livingst	322	10.6 (36)	6.8 (19)	322	12.7 (35)	279	3.9 (21)	322	84.5 (4)
50Macomb	2,518	10.3 (32)	5.6 (9)	2,556	12.8 (36)	2,164	4.3 (28)	2,546	61.7 (40)
51DCS	498	8.4 (20)	6.8 (19)	501	12.2 (32)	429	3.3 (16)	500	68.2 (35)
52Marquett	225	9.3 (27)	11.6 (43)	231	12.1 (29)	198	4.5 (32)	226	87.6 (2)
56MMCAA	303	7.3 (11)	11.2 (42)	313	9.3 (5)	274	2.6 (8)	303	82.8 (7)
58Monroe	592	10.5 (33)	6.9 (21)	606	11.7 (24)	517	4.8 (39)	593	65.3 (36)
61Muskegon	1,188	10.5 (33)	5.1 (6)	1,208	14.0 (44)	1,002	4.0 (24)	1,190	69.0 (33)

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

(2) Excludes records with unknown data or errors.

(3) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

(4) <2500 g.

(5) >4000 g.

(6) <37 weeks gestation.

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

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

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

# WIC PNSS & PedNSS

## Table 8F

### 2019 Pregnancy Nutrition Surveillance (1)

#### Michigan

#### Comparison of Infant Health Indicators by Local Agency

<b>Comparison of Infant Health Indicators (2,3)</b>									
<b>Local Agency</b>	Birthweight			Preterm		Full Term LBW		Ever Breastfed	
	Low (4)		High (5)	(6)		(7)			
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
63Oakland	2,834	11.5 (39)	7.1 (22)	2,898	12.0 (28)	2,482	4.6 (35)	2,854	72.4 (28)
73Saginaw	756	11.0 (37)	5.3 (7)	767	13.4 (38)	653	4.0 (24)	756	64.3 (37)
74St Clair	682	6.0 (2)	9.1 (37)	697	10.2 (13)	608	3.3 (16)	685	69.1 (32)
76Sanilac	186	7.5 (13)	4.8 (4)	191	13.6 (39)	160	0.0 (1)	186	56.5 (43)
78Shiawass	360	8.1 (18)	6.1 (14)	364	12.4 (33)	315	3.2 (15)	360	75.3 (24)
81Washtena	946	11.0 (37)	5.3 (7)	958	12.4 (33)	824	5.2 (43)	945	81.2 (11)
82Wayne	4,848	10.5 (33)	5.8 (10)	4,979	11.3 (19)	4,249	4.8 (39)	4,904	58.8 (42)
89Urban L	3,062	15.3 (46)	3.7 (2)	3,273	17.1 (46)	2,492	6.9 (46)	3,201	53.9 (45)
90Detroit	5,312	12.8 (45)	4.3 (3)	5,458	13.7 (42)	4,544	6.1 (45)	5,337	53.7 (46)
<b>Michigan</b>	<b>47,135</b>	<b>10.4</b>	<b>6.4</b>	<b>48,449</b>	<b>12.5</b>	<b>40,866</b>	<b>4.5</b>	<b>47,531</b>	<b>67.8</b>
<b>National (Prior Year)</b>	<b>121,176</b>	<b>9.3</b>	<b>6.7</b>	<b>121,542</b>	<b>11.8</b>	<b>103,169</b>	<b>3.9</b>	<b>119,843</b>	<b>56.8</b>

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

(2) Excludes records with unknown data or errors.

(3) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

(4) <2500 g.

(5) >4000 g.

(6) <37 weeks gestation.

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

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

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

# WIC PNSS & PedNSS

## Table 3F

### 2017 - 2019 Pregnancy Nutrition Surveillance <sup>(1)</sup>

#### Michigan

#### Comparison of Racial and Ethnic Distribution by Local Agency

#### Combined 3 Years

<b>Comparison of Racial and Ethnic Distribution <sup>(2)</sup></b>								
Local Agency	Number Included in Analysis	White, Not Hispanic  %	Black, Not Hispanic  %	Hispanic  %	American Indian/Alaska Native %	Asian/Pacific Islander  %	Multiple Races  %	All Other/Unknown  %
01DHD#2	1,226	90.3	0.6	3.7	0.3	0.2	4.6	0.3
02LMAS	528	77.1	0.4	1.1	3.0	0.0	18.4	0.0
04DHD#4	1,181	91.3	0.6	2.4	0.1	0.3	5.1	0.3
05NWMCHA	1,775	90.4	0.7	2.5	0.7	0.5	5.2	0.0
06CMDHD	3,321	88.9	1.5	3.5	1.1	0.8	3.9	0.3
07West UP	902	89.8	1.3	2.1	0.2	2.3	3.0	1.2
08Barry	1,618	88.9	3.0	5.1	0.1	0.8	1.7	0.4
09Bay	1,703	80.1	2.2	10.6	0.0	0.4	6.0	0.8
10Gr Trav	1,342	84.2	1.1	6.6	1.3	1.1	5.0	0.7
11Berrien	2,845	48.5	37.4	7.8	0.4	0.8	4.2	0.9
12BHS	3,311	81.8	1.3	12.2	0.0	0.3	3.5	0.9
13Calhoun	2,946	61.3	19.9	6.8	0.1	5.2	6.1	0.5
14Leelanau	404	80.7	0.7	9.4	3.2	0.7	4.0	1.2
15Interkar	7,688	62.1	3.8	26.4	0.2	1.6	4.4	1.5
17Chippewa	706	54.7	0.4	2.7	20.8	0.4	20.3	0.6
19Mid-Mich	2,302	88.1	0.3	9.1	0.1	0.1	2.0	0.3
21Delta	928	83.7	0.3	4.2	0.3	0.5	9.8	1.1
22Iron	624	91.2	0.5	2.1	0.3	0.0	4.3	1.6
25Genesee	8,485	47.3	40.0	4.9	0.1	0.3	6.9	0.5
30HDI	1,685	20.2	54.4	21.1	0.1	0.6	3.4	0.2
32Huron	460	94.1	0.0	3.5	0.2	0.2	1.1	0.9
33Ingham	5,437	42.4	27.8	15.3	0.2	5.6	8.2	0.4
35Keweenaw	146	15.1	0.0	4.8	68.5	0.0	11.6	0.0

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

(2) Excludes data with errors.

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

# WIC PNSS & PedNSS

## Table 3F

### 2017 - 2019 Pregnancy Nutrition Surveillance <sup>(1)</sup>

#### Michigan

#### Comparison of Racial and Ethnic Distribution by Local Agency

#### Combined 3 Years

<b>Comparison of Racial and Ethnic Distribution <sup>(2)</sup></b>								
Local Agency	Number Included in Analysis	White, Not Hispanic  %	Black, Not Hispanic  %	Hispanic  %	American Indian/Alaska Native  %	Asian/Pacific Islander  %	Multiple Races  %	All Other/Unknown  %
37Ionia	1,092	89.3	0.1	7.3	0.0	0.2	3.0	0.1
38Jackson	3,160	71.8	14.7	5.5	0.1	0.4	7.2	0.3
39Kalamazo	3,664	49.8	30.7	9.3	0.2	1.2	8.4	0.5
40Kal Fam	845	37.8	43.4	11.8	0.1	1.1	5.7	0.1
41Kent	11,410	35.3	26.8	27.4	0.3	4.5	5.2	0.5
43DHD#10	5,103	83.3	1.4	10.5	0.3	0.3	3.7	0.5
44Lapeer	1,077	89.2	0.4	5.1	0.0	0.5	4.4	0.5
45Tuscola	990	91.9	0.5	4.5	0.0	0.2	2.7	0.1
46CAA	1,419	75.2	1.8	16.3	0.0	0.1	5.9	0.7
47Livingst	1,116	91.3	0.4	3.6	0.2	1.3	2.1	1.2
50Macomb	8,621	53.8	31.5	2.6	0.1	7.0	4.6	0.4
51DCS	1,847	69.3	11.2	13.2	0.1	1.6	4.8	0.0
52Marquett	803	87.0	0.5	3.2	0.9	0.4	7.5	0.5
56MMCAA	1,078	93.4	0.8	1.8	0.1	0.9	2.8	0.2
58Monroe	1,976	81.9	6.0	6.4	0.1	0.4	4.5	0.7
61Muskegon	4,330	54.8	28.4	8.8	0.3	0.5	7.0	0.3
63Oakland	9,901	46.9	34.0	12.2	0.1	2.4	4.1	0.3
73Saginaw	2,754	47.9	30.5	15.7	0.0	0.6	4.8	0.6
74St Clair	2,336	82.4	5.6	5.9	0.1	0.4	5.1	0.5
76Sanilac	650	93.4	0.2	4.8	0.0	0.0	1.5	0.2
78Shiawass	1,193	88.9	0.3	5.8	0.1	0.1	4.5	0.3
81Washtena	3,396	36.8	39.6	10.0	0.2	2.8	10.0	0.6
82Wayne	17,281	55.9	29.9	4.9	0.2	5.4	3.4	0.5
89Urban L	11,170	11.5	80.4	4.8	0.1	0.6	2.4	0.2

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

(2) Excludes data with errors.

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

# WIC PNSS & PedNSS

## Table 3F

### 2017 - 2019 Pregnancy Nutrition Surveillance <sup>(1)</sup>

### Michigan

### Comparison of Racial and Ethnic Distribution by Local Agency Combined 3 Years

<b>Comparison of Racial and Ethnic Distribution <sup>(2)</sup></b>								
<b>Local Agency</b>	Number Included in Analysis	White, Not Hispanic  %	Black, Not Hispanic  %	Hispanic  %	American Indian/Alaska Native  %	Asian/Pacific Islander  %	Multiple Races  %	All Other/Unknown  %
90Detroit	18,247	8.3	73.4	15.3	0.0	1.1	1.6	0.2
<b>Michigan</b>	<b>167,191</b>	<b>51.6</b>	<b>30.3</b>	<b>10.5</b>	<b>0.4</b>	<b>2.2</b>	<b>4.6</b>	<b>0.5</b>

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

(2) Excludes data with errors.

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

# WIC PNSS & PedNSS

## Table 4F

### 2017 - 2019 Pregnancy Nutrition Surveillance <sup>(1)</sup>

### Michigan

### Comparison of Age Distribution by Local Agency

### Combined 3 Years

<b>Comparison of Age Distribution <sup>(2)</sup></b>								
Local Agency	Number Included in Analysis	< 15 Years %	15 - 17 Years %	18 - 19 Years %	20 - 29 Years %	30 - 39 Years %	>= 40 Years %	Unknown %
01DHD#2	1,226	0.0	3.3	8.8	65.9	21.2	0.8	0.0
02LMAS	528	0.0	3.8	6.4	65.7	23.3	0.8	0.0
04DHD#4	1,181	0.1	2.7	8.0	66.1	21.6	1.4	0.0
05NWMCHA	1,775	0.0	1.5	8.3	64.2	24.9	1.1	0.0
06CMDHD	3,321	0.1	3.0	8.9	65.7	21.1	1.1	0.1
07West UP	902	0.0	2.5	7.6	59.5	27.4	2.8	0.1
08Barry	1,618	0.1	2.6	9.3	62.4	23.9	1.3	0.4
09Bay	1,703	0.1	2.6	8.7	64.5	22.4	1.7	0.0
10Gr Trav	1,342	0.0	2.6	6.5	62.1	26.2	2.3	0.3
11Berrien	2,845	0.1	3.6	9.7	62.0	22.1	1.5	0.9
12BHS	3,311	0.0	2.7	10.0	64.2	21.2	1.9	0.1
13Calhoun	2,946	0.2	3.2	8.8	63.8	22.6	1.2	0.1
14Leelanau	404	0.0	2.5	7.2	60.4	27.7	1.5	0.7
15Inter-car	7,688	0.1	3.3	8.5	61.0	25.3	1.7	0.1
17Chippewa	706	0.1	1.4	7.4	62.3	27.2	1.6	0.0
19Mid-Mich	2,302	0.2	2.8	8.9	66.2	20.4	1.6	0.0
21Delta	928	0.0	3.0	9.5	63.3	23.2	1.1	0.0
22Iron	624	0.2	2.1	9.3	59.8	26.9	1.6	0.2
25Genesee	8,485	0.2	2.7	8.4	65.1	22.2	1.3	0.1
30HDI	1,685	0.4	4.0	9.0	65.2	19.8	1.5	0.1
32Huron	460	0.0	2.0	7.4	64.6	25.0	1.1	0.0
33Ingham	5,437	0.2	3.0	7.7	61.3	25.9	1.8	0.1
35Keweenaw	146	0.0	2.1	10.3	61.6	25.3	0.7	0.0
37Ionia	1,092	0.0	2.7	9.2	66.7	20.5	0.9	0.0

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

(2) Excludes data with errors.

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

# WIC PNSS & PedNSS

## Table 4F

### 2017 - 2019 Pregnancy Nutrition Surveillance <sup>(1)</sup>

### Michigan

### Comparison of Age Distribution by Local Agency

### Combined 3 Years

<b>Comparison of Age Distribution <sup>(2)</sup></b>								
Local Agency	Number Included in Analysis	< 15 Years %	15 - 17 Years %	18 - 19 Years %	20 - 29 Years %	30 - 39 Years %	>= 40 Years %	Unknown %
38Jackson	3,160	0.1	3.3	9.2	66.3	20.1	0.8	0.2
39Kalamazo	3,664	0.1	3.2	9.2	62.1	23.4	2.0	0.1
40Kal Fam	845	0.4	4.6	9.5	61.2	22.4	2.0	0.0
41Kent	11,410	0.1	3.0	7.7	59.4	27.2	2.1	0.3
43DHD#10	5,103	0.1	3.0	8.8	65.9	20.8	1.4	0.1
44Lapeer	1,077	0.1	3.0	7.5	65.6	22.7	1.0	0.1
45Tuscola	990	0.2	2.6	8.1	65.4	21.8	1.8	0.1
46CAA	1,419	0.0	2.4	9.7	65.1	21.8	0.9	0.0
47Livingst	1,116	0.0	2.0	6.2	60.3	29.7	1.8	0.0
50Macomb	8,621	0.0	1.4	4.7	61.6	29.9	2.4	0.0
51DCS	1,847	0.1	0.8	5.4	62.5	28.7	2.6	0.0
52Marquett	803	0.1	2.5	7.3	59.9	29.0	1.1	0.0
56MMCAA	1,078	0.0	1.7	7.1	66.0	23.7	1.5	0.1
58Monroe	1,976	0.1	3.1	9.8	63.2	22.5	1.3	0.1
61Muskegon	4,330	0.3	3.7	9.4	64.5	20.7	1.3	0.1
63Oakland	9,901	0.1	1.7	6.3	58.9	30.5	2.5	0.1
73Saginaw	2,754	0.1	2.7	8.4	65.6	21.7	1.5	0.0
74St Clair	2,336	0.1	3.3	8.3	64.1	22.9	1.3	0.0
76Sanilac	650	0.0	3.8	9.4	63.4	22.8	0.6	0.0
78Shiawass	1,193	0.1	3.3	9.9	68.7	16.8	1.3	0.0
81Washtena	3,396	0.1	2.5	6.4	60.4	28.0	2.5	0.1
82Wayne	17,281	0.1	1.7	5.2	60.9	29.0	2.8	0.3
89Urban L	11,170	0.2	2.6	7.3	63.3	24.4	2.2	0.1
90Detroit	18,247	0.1	2.7	7.4	61.5	25.6	2.6	0.0

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

(2) Excludes data with errors.

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

# WIC PNSS & PedNSS

## Table 4F

### 2017 - 2019 Pregnancy Nutrition Surveillance (1)

#### Michigan

#### Comparison of Age Distribution by Local Agency

#### Combined 3 Years

Michigan	167,191	0.1	2.6	7.6	62.5	25.2	1.9	0.1
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(1) Reporting period is January 1 through December 31.

(2) Excludes data with errors.

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



# WIC PNSS & PedNSS

## Table 5F

### 2017 - 2019 Pregnancy Nutrition Surveillance <sup>(1)</sup>

#### Michigan

#### Comparison of Maternal Health Indicators by Local Agency

#### Combined 3 Years

<b>Comparison of Maternal Health Indicators <sup>(2,3)</sup></b>														
Local Agency	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)
01DHD#2	933	4.7 (35)	59.7 (25)	485	18.8 (26)	50.1 (11)	168	47.0 (26)	256	33.6 (27)	1,133	6.3 (11)	1,133	9.4 (5)
02LMAS	433	3.9 (14)	59.6 (24)	231	17.7 (16)	56.7 (45)	52	*	124	23.4 (10)	485	8.5 (39)	485	13.6 (38)
04DHD#4	1,109	5.0 (39)	57.6 (13)	700	18.7 (25)	54.1 (35)	170	40.6 (18)	239	33.1 (25)	1,100	6.0 (6)	1,100	9.9 (10)
05NWMCHA	1,328	4.6 (34)	56.2 (7)	560	21.1 (40)	50.5 (14)	256	32.8 (10)	265	29.1 (20)	1,685	6.3 (11)	1,686	9.8 (7)
06CMDHD	2,851	4.1 (20)	60.3 (36)	1,920	17.2 (11)	53.6 (32)	466	33.5 (11)	612	26.0 (14)	3,095	6.8 (16)	3,100	11.6 (23)
07West UP	627	3.8 (10)	52.6 (3)	290	17.2 (11)	48.6 (9)	126	22.2 (3)	236	16.5 (4)	807	6.8 (16)	808	9.9 (10)
08Barry	1,015	4.9 (37)	57.4 (11)	517	18.0 (18)	53.2 (28)	249	39.8 (17)	340	16.8 (5)	1,473	8.8 (42)	1,477	14.1 (41)
09Bay	1,416	4.0 (17)	61.1 (40)	1,032	19.3 (32)	52.1 (22)	255	32.5 (9)	234	17.9 (6)	1,591	6.6 (14)	1,591	10.1 (16)
10Gr Trav	1,214	4.4 (26)	51.6 (1)	995	15.9 (5)	53.5 (31)	189	56.1 (39)	194	37.6 (36)	1,267	8.0 (34)	1,269	9.9 (10)
11Berrien	2,398	3.8 (10)	60.8 (37)	1,768	19.0 (27)	53.4 (29)	431	47.6 (29)	455	32.1 (22)	2,588	6.3 (11)	2,588	12.9 (33)
12BHS	2,677	5.0 (39)	60.0 (29)	1,468	18.1 (19)	53.1 (27)	479	26.3 (6)	608	27.6 (15)	3,023	7.0 (21)	3,025	9.8 (7)
13Calhoun	2,351	3.2 (5)	61.1 (40)	1,346	20.1 (38)	54.3 (37)	390	46.9 (25)	583	32.8 (24)	2,686	7.7 (31)	2,682	9.3 (3)
14Leelanau	371	4.3 (24)	58.5 (20)	279	19.7 (35)	54.8 (41)	64	*	61	*	376	8.8 (42)	376	9.3 (3)
15Intercar	6,180	4.4 (26)	60.1 (31)	3,610	22.2 (42)	46.2 (3)	1,029	45.7 (22)	1,696	35.6 (33)	6,958	7.9 (32)	6,968	10.2 (18)
17Chippewa	519	4.0 (17)	59.9 (28)	254	16.5 (8)	56.3 (44)	89	*	122	27.9 (19)	632	7.3 (23)	631	11.9 (24)
19Mid-Mich	2,119	5.0 (39)	60.2 (33)	1,651	19.0 (27)	51.8 (18)	325	21.8 (2)	579	14.7 (2)	2,151	8.8 (42)	2,154	14.3 (42)
21Delta	650	2.9 (4)	54.8 (5)	402	14.9 (2)	54.0 (34)	122	19.7 (1)	212	25.9 (13)	814	9.7 (46)	815	13.0 (34)

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

(2) Excludes records with unknown data or errors.

(3) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

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

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

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

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

# WIC PNSS & PedNSS

## Table 5F

### 2017 - 2019 Pregnancy Nutrition Surveillance <sup>(1)</sup>

#### Michigan

#### Comparison of Maternal Health Indicators by Local Agency

#### Combined 3 Years

<b>Comparison of Maternal Health Indicators</b> <sup>(2,3)</sup>														
Local Agency	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)
22Iron	469	6.0 (48)	52.9 (4)	166	12.0 (1)	46.4 (4)	82	*	123	27.6 (15)	546	5.7 (4)	546	13.2 (37)
25Genesee	6,738	5.3 (44)	57.6 (13)	3,393	18.5 (22)	52.0 (20)	1,524	51.4 (35)	1,408	34.0 (28)	7,906	7.6 (29)	7,906	15.4 (47)
30HDI	1,575	2.8 (2)	67.2 (48)	1,201	22.8 (44)	45.7 (2)	287	49.5 (32)	983	42.4 (43)	1,556	5.3 (3)	1,555	11.0 (20)
32Huron	377	5.0 (39)	64.7 (47)	289	16.6 (9)	51.2 (15)	57	*	113	22.1 (9)	430	7.9 (32)	431	12.5 (31)
33Ingham	4,602	4.5 (29)	60.1 (31)	3,695	18.5 (22)	52.0 (20)	939	47.3 (28)	917	33.4 (26)	5,104	6.9 (19)	5,106	9.7 (6)
35Keweenaw	120	1.7 (1)	58.3 (18)	52	*	*	20	*	48	*	133	11.3 (47)	133	9.8 (7)
37Ionia	726	4.4 (26)	61.8 (44)	483	14.9 (2)	55.5 (42)	160	24.4 (4)	284	14.1 (1)	1,002	8.2 (36)	1,000	15.8 (48)
38Jackson	2,334	5.7 (47)	60.2 (33)	1,346	18.6 (24)	53.4 (29)	476	46.4 (24)	542	41.5 (42)	2,913	6.1 (9)	2,916	10.7 (19)
39Kalamazo	2,936	3.8 (10)	59.4 (22)	1,596	17.4 (14)	54.4 (38)	496	49.6 (33)	898	38.3 (39)	3,338	8.5 (39)	3,339	10.0 (14)
40Kal Fam	717	4.5 (29)	61.5 (43)	336	17.3 (13)	54.2 (36)	92	*	120	43.3 (45)	755	7.3 (23)	756	11.9 (24)
41Kent	8,067	4.2 (23)	58.4 (19)	3,745	26.1 (46)	42.9 (1)	1,957	44.3 (20)	3,593	36.6 (35)	10,589	7.5 (28)	10,599	12.2 (28)
43DHD#10	4,457	4.1 (20)	59.5 (23)	2,905	19.2 (30)	51.3 (16)	731	39.0 (16)	1,107	27.8 (18)	4,747	7.0 (21)	4,747	12.0 (26)
44Lapeer	1,059	4.5 (29)	56.2 (7)	931	15.9 (5)	54.7 (40)	185	38.9 (15)	290	32.4 (23)	1,012	4.1 (1)	1,012	6.1 (1)
45Tuscola	738	5.3 (44)	56.9 (9)	570	15.3 (4)	56.8 (46)	124	25.0 (5)	185	21.6 (8)	948	8.4 (38)	948	12.4 (30)
46CAA	1,126	3.6 (6)	57.5 (12)	270	22.2 (42)	47.0 (5)	285	47.0 (26)	344	38.4 (41)	1,296	7.3 (23)	1,297	13.0 (34)
47Livingst	1,035	5.0 (39)	52.5 (2)	684	17.4 (14)	52.5 (26)	179	34.1 (12)	378	15.1 (3)	1,018	12.0 (48)	1,018	14.7 (46)
50Macomb	7,654	4.3 (24)	59.7 (25)	6,274	19.0 (27)	51.8 (18)	1,628	45.8 (23)	2,208	34.8 (30)	8,026	8.1 (35)	8,026	10.0 (14)

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

(2) Excludes records with unknown data or errors.

(3) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

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

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

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

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

# WIC PNSS & PedNSS

## Table 5F

### 2017 - 2019 Pregnancy Nutrition Surveillance <sup>(1)</sup>

#### Michigan

### Comparison of Maternal Health Indicators by Local Agency Combined 3 Years

<b>Comparison of Maternal Health Indicators</b> <sup>(2,3)</sup>														
Local Agency	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)
51DCS	1,659	4.5 (29)	58.2 (17)	1,217	15.9 (5)	52.3 (24)	332	41.6 (19)	464	30.0 (21)	1,717	9.6 (45)	1,717	12.3 (29)
52Marquett	704	3.6 (6)	55.7 (6)	514	19.3 (32)	47.7 (6)	105	36.2 (13)	198	23.7 (11)	711	5.1 (2)	717	14.5 (44)
56MMCAA	934	2.8 (2)	60.2 (33)	189	21.2 (41)	54.5 (39)	157	31.8 (8)	400	25.3 (12)	1,023	6.0 (6)	1,024	12.7 (32)
58Monroe	1,501	3.9 (14)	59.8 (27)	883	22.9 (45)	48.1 (7)	330	53.0 (36)	415	34.0 (28)	1,808	7.4 (26)	1,809	13.9 (40)
61Muskegon	3,996	4.0 (17)	61.1 (40)	2,848	19.9 (37)	50.3 (12)	570	44.7 (21)	508	27.6 (15)	3,985	8.2 (36)	3,992	14.4 (43)
63Oakland	8,616	3.9 (14)	58.0 (16)	5,796	17.9 (17)	52.4 (25)	1,808	48.3 (30)	2,295	36.3 (34)	9,196	5.9 (5)	9,197	10.1 (16)
73Saginaw	2,215	4.1 (20)	60.9 (39)	1,654	19.7 (35)	50.4 (13)	446	53.8 (37)	473	35.1 (31)	2,562	6.8 (16)	2,562	11.1 (21)
74St Clair	2,212	5.6 (46)	57.0 (10)	1,898	16.8 (10)	56.2 (43)	324	49.7 (34)	458	37.6 (36)	2,138	6.9 (19)	2,145	13.7 (39)
76Sanilac	183	4.9 (37)	59.0 (21)	72	*	*	105	31.4 (7)	122	21.3 (7)	594	6.6 (14)	594	9.9 (10)
78Shiawass	1,144	4.8 (36)	60.8 (37)	948	19.2 (30)	48.3 (8)	178	38.8 (14)	240	35.4 (32)	1,102	8.6 (41)	1,103	12.1 (27)
81Washtena	3,067	3.8 (10)	60.0 (29)	2,013	20.2 (39)	49.7 (10)	630	54.0 (38)	927	38.3 (39)	3,047	7.4 (26)	3,048	13.1 (36)
82Wayne	12,591	4.5 (29)	57.6 (13)	7,746	18.4 (21)	51.3 (16)	3,421	49.4 (31)	4,729	37.6 (36)	16,066	7.6 (29)	16,066	8.7 (2)
89Urban L	9,324	3.7 (8)	62.8 (46)	5,883	18.1 (19)	53.8 (33)	1,927	65.7 (41)	1,643	54.0 (46)	10,413	6.1 (9)	10,419	14.5 (44)
90Detroit	14,953	3.7 (8)	62.7 (45)	10,618	19.4 (34)	52.2 (23)	3,188	57.0 (40)	2,329	42.4 (43)	17,258	6.0 (6)	17,258	11.1 (21)
<b>Michigan</b>	<b>136,140</b>	<b>4.2</b>	<b>59.6</b>	<b>87,782</b>	<b>19.1</b>	<b>51.5</b>	<b>27,604</b>	<b>47.9</b>	<b>35,578</b>	<b>35.0</b>	<b>154,877</b>	<b>7.1</b>	<b>154,947</b>	<b>11.5</b>

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

(2) Excludes records with unknown data or errors.

(3) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

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

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

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

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

# WIC PNSS & PedNSS

## Table 6F

### 2017 - 2019 Pregnancy Nutrition Surveillance <sup>(1)</sup>

### Michigan

### Comparison of Maternal Behavioral Indicators by Local Agency

### Combined 3 Years

<b>Comparison of Maternal Behavioral Indicators <sup>(2,3)</sup></b>									
<b>Local Agency</b>	Medical Care			WIC Enrollment		Multivitamin Consumption			
	1st Trimester		No Care	1st Trimester		Prepregnancy <sup>(4)</sup>		During Pregnancy <sup>(5)</sup>	
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
01DHD#2	1,125	82.3 (31)	10.7 (31)	1,209	35.4 (24)	1,085	20.6 (25)	986	91.4 (13)
02LMAS	488	78.1 (40)	15.2 (44)	518	46.7 (2)	445	23.4 (21)	431	88.6 (22)
04DHD#4	1,099	83.9 (25)	8.8 (25)	1,160	36.6 (19)	1,054	25.5 (13)	934	91.0 (17)
05NWMCHA	1,690	89.3 (7)	5.3 (13)	1,752	34.2 (28)	1,607	28.3 (11)	1,378	87.9 (26)
06CMDHD	3,093	80.6 (36)	12.7 (38)	3,283	40.4 (7)	2,915	24.8 (15)	2,700	88.9 (20)
07West UP	806	85.0 (22)	9.4 (29)	880	35.0 (25)	809	43.5 (2)	707	92.9 (7)
08Barry	1,474	89.1 (9)	4.7 (9)	1,603	30.1 (35)	1,453	23.1 (22)	1,222	93.9 (3)
09Bay	1,579	74.3 (46)	20.4 (47)	1,690	41.6 (6)	1,550	15.2 (42)	1,408	84.3 (41)
10Gr Trav	1,266	77.8 (41)	14.6 (43)	1,324	29.9 (36)	1,178	23.6 (19)	932	87.6 (29)
11Berrien	2,537	72.5 (47)	13.3 (40)	2,809	30.5 (33)	2,404	14.4 (44)	2,108	88.8 (21)
12BHS	2,832	77.1 (43)	13.5 (41)	3,256	36.7 (18)	2,891	19.0 (28)	2,588	85.0 (38)
13Calhoun	2,621	89.0 (10)	5.1 (11)	2,901	36.4 (20)	2,032	17.0 (33)	2,237	81.4 (45)
14Leelanau	374	79.4 (37)	13.1 (39)	398	32.2 (30)	277	32.5 (8)	290	84.1 (42)
15InterCar	6,836	87.5 (15)	7.0 (21)	7,573	35.9 (22)	5,699	25.2 (14)	5,701	82.6 (44)
17Chippewa	636	85.8 (20)	10.4 (30)	680	46.3 (3)	590	49.0 (1)	566	84.5 (40)
19Mid-Mich	2,141	81.3 (33)	12.4 (37)	2,260	35.6 (23)	1,989	23.6 (19)	1,753	91.7 (10)
21Delta	812	89.3 (7)	5.2 (12)	912	42.2 (5)	806	24.3 (17)	737	91.5 (11)
22Iron	555	86.1 (18)	10.8 (33)	617	43.8 (4)	557	40.6 (4)	519	91.5 (11)
25Genesee	7,856	86.1 (18)	3.9 (6)	8,315	23.8 (43)	6,577	8.3 (47)	5,977	88.4 (23)
30HDI	1,551	80.9 (34)	5.9 (15)	1,677	37.3 (17)	1,487	10.1 (46)	1,389	80.0 (46)
32Huron	426	83.1 (27)	11.7 (35)	457	38.9 (12)	387	36.7 (6)	347	87.0 (33)

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

(2) Excludes records with unknown data or errors.

(3) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

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

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

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

# WIC PNSS & PedNSS

## Table 6F

### 2017 - 2019 Pregnancy Nutrition Surveillance <sup>(1)</sup>

### Michigan

### Comparison of Maternal Behavioral Indicators by Local Agency

### Combined 3 Years

<b>Comparison of Maternal Behavioral Indicators <sup>(2,3)</sup></b>									
<b>Local Agency</b>	Medical Care			WIC Enrollment		Multivitamin Consumption			
	1st Trimester		No Care	1st Trimester		Prepregnancy <sup>(4)</sup>		During Pregnancy <sup>(5)</sup>	
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
33Ingham	5,051	84.9 (23)	7.3 (22)	5,380	29.1 (38)	4,804	7.8 (48)	4,060	90.5 (18)
35Keweenaw	133	94.0 (1)	0.0 (1)	144	40.3 (8)	128	21.1 (23)	122	95.9 (1)
37Ionia	993	91.6 (2)	4.3 (8)	1,083	34.3 (27)	975	20.2 (26)	826	93.7 (4)
38Jackson	2,890	85.7 (21)	7.4 (23)	3,121	39.3 (9)	2,748	15.4 (41)	2,559	86.0 (35)
39Kalamazo	3,303	82.4 (30)	8.9 (27)	3,613	34.8 (26)	3,202	16.0 (37)	2,722	82.8 (43)
40Kal Fam	753	75.4 (45)	16.9 (46)	837	59.5 (1)	832	16.9 (34)	842	76.6 (48)
41Kent	10,515	83.5 (26)	6.0 (16)	11,266	26.2 (40)	9,425	20.1 (27)	8,669	90.5 (18)
43DHD#10	4,715	80.8 (35)	12.3 (36)	5,025	39.1 (10)	3,877	29.7 (10)	4,039	87.9 (26)
44Lapeer	1,010	83.0 (28)	11.1 (34)	1,057	30.7 (32)	978	16.0 (37)	817	93.5 (5)
45Tuscola	946	77.8 (41)	14.1 (42)	972	36.1 (21)	867	27.3 (12)	738	92.8 (8)
46CAA	1,288	88.1 (13)	5.5 (14)	1,395	26.2 (40)	1,230	21.1 (23)	1,052	87.3 (31)
47Livingst	1,016	91.1 (3)	3.2 (4)	1,097	21.8 (48)	816	38.5 (5)	724	92.1 (9)
50Macomb	7,944	88.8 (11)	4.8 (10)	8,461	24.6 (42)	5,826	15.7 (40)	6,167	91.1 (16)
51DCS	1,696	90.0 (6)	4.2 (7)	1,821	23.6 (45)	1,355	24.6 (16)	1,320	93.5 (5)
52Marquett	707	88.7 (12)	6.1 (18)	794	37.5 (16)	593	35.8 (7)	634	91.3 (15)
56MMCAA	1,021	87.6 (14)	8.6 (24)	1,063	29.4 (37)	967	32.0 (9)	810	95.9 (1)
58Monroe	1,801	82.8 (29)	8.9 (27)	1,946	31.3 (31)	1,761	18.3 (29)	1,489	87.5 (30)
61Muskegon	3,926	86.3 (17)	6.4 (19)	4,214	39.0 (11)	3,691	17.3 (31)	3,363	80.0 (46)
63Oakland	9,086	87.0 (16)	6.0 (16)	9,782	26.7 (39)	7,126	15.2 (42)	7,240	88.0 (25)
73Saginaw	2,521	78.9 (38)	10.7 (31)	2,725	32.7 (29)	2,308	16.0 (37)	2,072	86.8 (34)
74St Clair	2,138	69.2 (48)	22.6 (48)	2,314	38.0 (14)	1,977	18.0 (30)	1,880	85.9 (36)

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

(2) Excludes records with unknown data or errors.

(3) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

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

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

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

# WIC PNSS & PedNSS

## Table 6F

### 2017 - 2019 Pregnancy Nutrition Surveillance <sup>(1)</sup>

### Michigan

### Comparison of Maternal Behavioral Indicators by Local Agency

### Combined 3 Years

<b>Comparison of Maternal Behavioral Indicators</b> <sup>(2,3)</sup>									
<b>Local Agency</b>	Medical Care			WIC Enrollment		Multivitamin Consumption			
	1st Trimester		No Care	1st Trimester		Pregnancy <sup>(4)</sup>		During Pregnancy <sup>(5)</sup>	
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
76Sanilac	579	84.3 (24)	8.8 (25)	643	38.7 (13)	504	41.9 (3)	519	87.3 (31)
78Shiawass	1,085	76.6 (44)	16.1 (45)	1,184	37.8 (15)	1,076	16.4 (36)	939	87.9 (26)
81Washtena	3,045	90.6 (4)	2.7 (2)	3,342	30.3 (34)	3,029	16.7 (35)	2,612	91.4 (13)
82Wayne	15,936	90.2 (5)	3.2 (4)	17,027	22.6 (46)	12,731	23.8 (18)	12,323	88.4 (23)
89Urban L	10,325	82.2 (32)	2.9 (3)	10,911	22.0 (47)	6,996	17.3 (31)	7,892	85.3 (37)
90Detroit	17,041	78.5 (39)	6.5 (20)	17,977	23.8 (43)	12,018	13.1 (45)	12,950	84.9 (39)
<b>Michigan</b>	<b>153,335</b>	<b>84.1</b>	<b>7.0</b>	<b>164,632</b>	<b>29.5</b>	<b>129,731</b>	<b>19.1</b>	<b>124,345</b>	<b>87.4</b>

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

(2) Excludes records with unknown data or errors.

(3) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

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

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

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

# WIC PNSS & PedNSS

## Table 7F

### 2017 - 2019 Pregnancy Nutrition Surveillance <sup>(1)</sup>

#### Michigan

#### Comparison of Smoking Indicators by Local Agency

#### Combined 3 Years

<b>Comparison of Smoking Indicators</b> <sup>(2,3)</sup>										
Local Agency	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes <sup>(4)</sup>		Smoking in Household			
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
	Number	% (rank)	Number	% (rank)			Number	% (rank)	Number	% (rank)
01DHD#2	1,102	47.8 (45)	1,135	33.3 (47)	442	26.5 (42)	985	20.2 (47)	1,134	4.9 (43)
02LMAS	473	47.8 (45)	487	32.6 (46)	199	27.1 (41)	431	17.4 (43)	487	2.9 (28)
04DHD#4	1,060	49.2 (47)	1,099	28.7 (43)	429	35.9 (20)	934	18.8 (46)	1,100	4.6 (41)
05NWMCHA	1,614	40.6 (39)	1,687	25.8 (38)	551	32.3 (31)	1,378	16.0 (40)	1,686	5.5 (46)
06CMDHD	3,019	43.8 (43)	3,102	26.8 (41)	1,111	32.7 (29)	2,699	18.0 (45)	3,105	4.5 (40)
07West UP	819	37.2 (25)	807	26.0 (39)	241	22.0 (46)	706	10.3 (21)	808	2.4 (16)
08Barry	1,466	37.4 (26)	1,480	20.9 (24)	427	38.9 (16)	1,222	8.4 (11)	1,480	2.6 (19)
09Bay	1,554	38.7 (34)	1,594	24.1 (36)	542	30.3 (37)	1,407	13.6 (32)	1,594	3.7 (34)
10Gr Trav	1,179	35.4 (23)	1,270	21.3 (26)	339	34.8 (23)	932	9.7 (16)	1,270	3.1 (30)
11Berrien	2,451	29.6 (13)	2,593	15.2 (14)	569	39.2 (14)	2,108	12.7 (28)	2,593	3.7 (34)
12BHS	2,942	37.7 (29)	3,025	22.5 (29)	877	32.5 (30)	2,585	13.8 (34)	3,024	3.7 (34)
13Calhoun	2,567	31.0 (16)	2,674	18.5 (19)	673	26.2 (43)	2,255	10.1 (20)	2,686	2.4 (16)
14Leelanau	356	39.6 (38)	375	24.0 (35)	114	36.0 (19)	292	12.3 (26)	376	3.5 (33)
15InterCar	6,684	24.4 (10)	6,962	12.9 (10)	1,417	36.2 (18)	5,723	6.2 (5)	6,966	1.7 (5)
17Chippewa	634	43.1 (42)	629	32.3 (45)	231	17.3 (47)	569	23.6 (48)	629	14.5 (48)
19Mid-Mich	2,050	39.5 (37)	2,154	22.7 (30)	670	37.8 (17)	1,755	11.7 (23)	2,159	2.7 (20)
21Delta	836	45.0 (44)	816	25.1 (37)	293	34.8 (23)	737	13.6 (32)	815	2.8 (26)
22Iron	579	41.5 (40)	546	29.5 (44)	193	22.8 (44)	518	9.8 (18)	547	2.7 (20)
25Genesee	7,212	28.0 (12)	7,943	15.9 (16)	1,674	35.6 (21)	5,980	9.4 (15)	7,939	2.2 (13)

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

(2) Excludes records with unknown data or errors.

(3) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

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

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

# WIC PNSS & PedNSS

## Table 7F

### 2017 - 2019 Pregnancy Nutrition Surveillance <sup>(1)</sup>

#### Michigan

#### Comparison of Smoking Indicators by Local Agency

#### Combined 3 Years

<b>Comparison of Smoking Indicators <sup>(2,3)</sup></b>										
<b>Local Agency</b>	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes <sup>(4)</sup>		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)
30HDI	1,493	30.9 (15)	1,556	14.4 (13)	399	43.6 (10)	1,389	8.8 (14)	1,555	2.3 (15)
32Huron	428	35.3 (22)	431	20.4 (23)	127	40.2 (13)	349	16.3 (42)	431	3.9 (38)
33Ingham	4,828	17.9 (4)	5,104	11.3 (9)	702	33.6 (27)	4,052	6.9 (6)	5,098	3.7 (34)
35Keweenaw	128	60.2 (48)	131	46.6 (48)	65	*	122	14.8 (38)	133	0.8 (2)
37Ionia	976	38.2 (30)	1,005	22.1 (27)	312	31.4 (35)	826	11.7 (23)	1,005	2.8 (26)
38Jackson	2,845	39.2 (35)	2,916	26.2 (40)	948	28.5 (38)	2,557	13.4 (31)	2,916	2.7 (20)
39Kalamazo	3,215	25.9 (11)	3,336	15.4 (15)	653	31.5 (34)	2,721	8.7 (13)	3,336	1.5 (4)
40Kal Fam	843	34.8 (21)	755	18.0 (18)	258	34.9 (22)	843	12.0 (25)	755	2.4 (16)
41Kent	10,144	19.2 (5)	10,611	9.4 (5)	1,524	42.9 (11)	8,629	5.6 (4)	10,595	1.9 (9)
43DHD#10	4,532	37.4 (26)	4,754	22.9 (31)	1,446	31.1 (36)	4,038	13.8 (34)	4,754	3.1 (30)
44Lapeer	978	31.4 (17)	1,011	14.2 (12)	232	44.0 (9)	817	3.5 (1)	1,010	0.6 (1)
45Tuscola	873	38.4 (32)	949	22.4 (28)	279	34.8 (23)	738	14.1 (36)	950	2.7 (20)
46CAA	1,239	38.3 (31)	1,300	17.6 (17)	362	47.0 (5)	1,048	9.7 (16)	1,302	3.9 (38)
47Livingst	981	32.5 (20)	1,013	18.5 (19)	230	41.7 (12)	727	8.0 (10)	1,018	2.7 (20)
50Macomb	7,626	19.8 (6)	8,029	9.6 (6)	1,146	45.9 (7)	6,194	7.6 (7)	8,030	1.7 (5)
51DCS	1,628	23.5 (8)	1,713	10.4 (7)	308	46.8 (6)	1,324	5.3 (3)	1,716	1.9 (9)
52Marquett	730	41.9 (41)	717	27.6 (42)	258	33.7 (26)	638	10.0 (19)	716	2.1 (11)
56MMCAA	968	29.8 (14)	1,024	19.8 (21)	237	28.3 (39)	809	8.5 (12)	1,023	2.2 (13)
58Monroe	1,766	37.4 (26)	1,810	23.2 (33)	518	33.0 (28)	1,489	12.9 (29)	1,809	2.9 (28)

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

(2) Excludes records with unknown data or errors.

(3) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

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

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



# WIC PNSS & PedNSS

## Table 7F

### 2017 - 2019 Pregnancy Nutrition Surveillance <sup>(1)</sup>

### Michigan

### Comparison of Smoking Indicators by Local Agency Combined 3 Years

<b>Comparison of Smoking Indicators</b> <sup>(2,3)</sup>										
<b>Local Agency</b>	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes <sup>(4)</sup>	Smoking in Household				
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy			Prenatal		Postpartum		
	Number	% (rank)	Number	% (rank)		Number	% (rank)	Number	% (rank)	Number
61Muskegon	3,803	31.7 (18)	3,980	20.9 (24)	1,035	27.6 (40)	3,365	13.0 (30)	3,993	5.4 (44)
63Oakland	8,946	14.0 (1)	9,204	7.2 (3)	939	39.2 (14)	7,241	4.8 (2)	9,201	1.1 (3)
73Saginaw	2,386	36.0 (24)	2,568	13.6 (11)	725	52.1 (3)	2,072	12.4 (27)	2,570	2.1 (11)
74St Clair	2,099	39.2 (35)	2,150	23.6 (34)	684	31.9 (32)	1,878	17.8 (44)	2,146	5.4 (44)
76Sanilac	580	31.7 (18)	591	20.1 (22)	163	22.1 (45)	529	11.2 (22)	593	2.7 (20)
78Shiawass	1,080	38.5 (33)	1,102	22.9 (31)	360	31.7 (33)	938	16.2 (41)	1,102	3.3 (32)
81Washtena	3,045	23.6 (9)	3,057	11.0 (8)	546	45.4 (8)	2,610	7.7 (8)	3,056	1.7 (5)
82Wayne	15,310	16.3 (2)	16,065	7.7 (4)	1,866	47.1 (4)	12,310	7.7 (8)	16,068	1.8 (8)
89Urban L	9,397	20.2 (7)	10,414	7.0 (2)	1,556	60.8 (1)	7,884	14.7 (37)	10,407	5.6 (47)
90Detroit	15,397	17.4 (3)	17,280	5.9 (1)	2,222	57.3 (2)	12,949	14.9 (39)	17,271	4.7 (42)
<b>Michigan</b>	<b>146,996</b>	<b>26.0</b>	<b>155,033</b>	<b>13.8</b>	<b>31,092</b>	<b>38.9</b>	<b>124,354</b>	<b>10.6</b>	<b>155,026</b>	<b>3.0</b>

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

(2) Excludes records with unknown data or errors.

(3) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

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

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

# WIC PNSS & PedNSS

## Table 8F

### 2017 - 2019 Pregnancy Nutrition Surveillance <sup>(1)</sup>

### Michigan

### Comparison of Infant Health Indicators by Local Agency

### Combined 3 Years

<b>Comparison of Infant Health Indicators</b> <sup>(2,3)</sup>									
Local Agency	Birthweight			Preterm		Full Term LBW		Ever Breastfed	
	Low (4)		High (5)	(6)		(7)			
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
01DHD#2	1,074	7.1 (6)	8.2 (24)	1,092	8.1 (1)	983	4.1 (33)	1,075	67.9 (37)
02LMAS	462	7.4 (10)	11.7 (47)	466	8.6 (3)	416	3.6 (26)	462	75.1 (23)
04DHD#4	1,033	9.2 (31)	9.9 (40)	1,050	10.0 (12)	919	4.5 (39)	1,031	74.2 (25)
05NWMCHA	1,458	8.0 (18)	9.1 (35)	1,622	8.9 (5)	1,317	3.5 (24)	1,575	82.0 (6)
06CMDHD	2,892	7.8 (15)	8.2 (24)	2,992	10.1 (14)	2,597	4.0 (32)	2,898	77.1 (19)
07West UP	748	6.1 (2)	9.9 (40)	768	8.3 (2)	668	3.0 (9)	749	82.5 (5)
08Barry	1,408	8.1 (20)	9.4 (37)	1,463	10.3 (15)	1,263	3.4 (19)	1,434	81.9 (7)
09Bay	1,507	7.4 (10)	8.6 (30)	1,543	9.7 (8)	1,364	3.4 (19)	1,508	67.0 (38)
10Gr Trav	1,203	7.7 (13)	11.6 (46)	1,234	8.8 (4)	1,089	2.8 (7)	1,203	85.0 (2)
11Berrien	2,440	8.2 (23)	6.8 (13)	2,528	9.9 (10)	2,185	4.3 (35)	2,445	71.5 (31)
12BHS	2,831	7.1 (6)	7.9 (22)	2,917	10.6 (18)	2,511	2.3 (4)	2,849	81.2 (10)
13Calhoun	2,554	9.3 (32)	7.6 (21)	2,605	10.9 (21)	2,256	3.9 (29)	2,559	73.2 (28)
14Leelanau	355	6.8 (5)	9.6 (39)	361	10.0 (12)	316	1.9 (3)	355	85.6 (1)
15Intercar	6,550	8.0 (18)	9.5 (38)	6,724	11.5 (29)	5,746	3.0 (9)	6,617	77.0 (20)
17Chippewa	591	8.1 (20)	11.2 (44)	589	11.2 (26)	505	2.6 (6)	593	68.6 (36)
19Mid-Mich	2,044	7.7 (13)	8.7 (32)	2,071	10.5 (16)	1,806	3.1 (12)	2,047	84.0 (3)
21Delta	769	8.2 (23)	8.8 (33)	780	10.9 (21)	681	3.2 (15)	769	74.1 (26)
22Iron	513	8.2 (23)	8.6 (30)	528	9.3 (6)	461	3.9 (29)	513	77.2 (18)
25Genesee	7,668	12.1 (46)	5.4 (5)	7,751	13.8 (44)	6,531	5.9 (46)	7,687	57.1 (46)

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

(2) Excludes records with unknown data or errors.

(3) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

(4) <2500 g.

(5) >4000 g.

(6) <37 weeks gestation.

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

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

# WIC PNSS & PedNSS

## Table 8F

### 2017 - 2019 Pregnancy Nutrition Surveillance <sup>(1)</sup>

### Michigan

### Comparison of Infant Health Indicators by Local Agency

### Combined 3 Years

<b>Comparison of Infant Health Indicators</b> <sup>(2,3)</sup>									
<b>Local Agency</b>	Birthweight			Preterm		Full Term LBW		Ever Breastfed	
	Low (4)		High (5)	(6)		(7)			
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
30HDI	1,470	12.0 (45)	4.7 (3)	1,494	13.4 (42)	1,273	4.6 (41)	1,470	60.5 (42)
32Huron	404	8.7 (29)	11.4 (45)	415	11.3 (27)	359	3.1 (12)	405	77.5 (17)
33Ingham	4,794	9.8 (35)	6.8 (13)	4,971	12.0 (33)	4,213	4.5 (39)	4,830	78.6 (14)
35Keweenaw	125	4.8 (1)	13.6 (48)	132	10.6 (18)	111	1.8 (2)	124	81.5 (9)
37Ionia	965	9.0 (30)	6.8 (13)	980	12.3 (36)	843	2.8 (7)	967	81.9 (7)
38Jackson	2,759	9.5 (33)	7.4 (19)	2,822	12.5 (37)	2,405	3.6 (26)	2,759	73.4 (27)
39Kalamazo	3,117	10.5 (38)	8.3 (28)	3,217	12.7 (40)	2,705	3.9 (29)	3,147	72.7 (30)
40Kal Fam	717	8.6 (27)	6.6 (11)	734	12.5 (37)	622	3.4 (19)	719	70.7 (33)
41Kent	10,052	11.1 (42)	6.8 (13)	10,323	13.9 (45)	8,611	4.3 (35)	10,090	75.8 (21)
43DHD#10	4,446	7.6 (12)	8.2 (24)	4,548	11.0 (23)	3,908	3.5 (24)	4,448	78.5 (15)
44Lapeer	965	7.9 (16)	8.4 (29)	973	10.5 (16)	850	3.2 (15)	966	79.5 (12)
45Tuscola	900	8.3 (26)	10.4 (43)	914	11.4 (28)	786	3.1 (12)	899	75.6 (22)
46CAA	1,225	6.5 (3)	8.2 (24)	1,268	9.9 (10)	1,093	3.0 (9)	1,225	72.9 (29)
47Livingst	991	9.6 (34)	9.0 (34)	1,003	12.0 (33)	869	3.6 (26)	991	79.2 (13)
50Macomb	7,651	10.5 (38)	5.1 (4)	7,803	12.7 (40)	6,577	4.3 (35)	7,768	60.2 (43)
51DCS	1,652	8.1 (20)	6.8 (13)	1,679	11.7 (30)	1,445	3.3 (18)	1,658	70.7 (33)
52Marquett	693	10.2 (37)	9.1 (35)	711	11.8 (31)	610	5.6 (45)	696	83.3 (4)
56MMCAA	974	6.7 (4)	10.2 (42)	999	9.7 (8)	875	2.3 (4)	975	77.8 (16)
58Monroe	1,717	8.6 (27)	6.6 (11)	1,758	11.1 (24)	1,509	3.4 (19)	1,701	64.4 (40)

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

(2) Excludes records with unknown data or errors.

(3) Rank compares one Local Agency's rate to other Local Agencies. Rank 1 = best rate.

(4) <2500 g.

(5) >4000 g.

(6) <37 weeks gestation.

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

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

# WIC PNSS & PedNSS

## Table 8F

### 2017 - 2019 Pregnancy Nutrition Surveillance <sup>(1)</sup>

### Michigan

### Comparison of Infant Health Indicators by Local Agency Combined 3 Years

<b>Comparison of Infant Health Indicators</b> <sup>(2,3)</sup>									
<b>Local Agency</b>	Birthweight			Preterm		Full Term LBW		Ever Breastfed	
	Low (4)		High (5)	(6)		(7)			
	Number	% (rank)	% (rank)	Number	% (rank)	Number	% (rank)	Number	% (rank)
61Muskegon	3,795	10.8 (41)	5.4 (5)	3,839	14.7 (47)	3,155	4.2 (34)	3,800	66.0 (39)
63Oakland	8,802	11.3 (44)	6.1 (9)	8,989	12.5 (37)	7,645	4.8 (43)	8,867	71.2 (32)
73Saginaw	2,490	11.1 (42)	5.8 (8)	2,513	11.9 (32)	2,179	4.3 (35)	2,492	61.7 (41)
74St Clair	2,046	7.2 (9)	8.1 (23)	2,087	10.7 (20)	1,819	3.2 (15)	2,048	70.1 (35)
76Sanilac	574	7.1 (6)	7.3 (18)	585	12.1 (35)	499	1.0 (1)	574	58.5 (45)
78Shiawass	1,054	7.9 (16)	7.4 (19)	1,068	9.6 (7)	950	3.4 (19)	1,054	75.1 (23)
81Washtena	2,913	10.6 (40)	5.4 (5)	2,967	13.4 (42)	2,519	4.8 (43)	2,848	80.7 (11)
82Wayne	15,117	10.1 (36)	6.3 (10)	15,657	11.1 (24)	13,303	4.7 (42)	15,402	59.8 (44)
89Urban L	9,453	14.2 (48)	3.8 (1)	10,062	17.1 (48)	7,685	6.3 (48)	9,811	53.1 (47)
90Detroit	16,272	12.9 (47)	4.3 (2)	16,778	14.5 (46)	13,777	6.1 (47)	16,378	51.5 (48)
<b>Michigan</b>	<b>146,255</b>	<b>10.3</b>	<b>6.6</b>	<b>150,442</b>	<b>12.5</b>	<b>126,827</b>	<b>4.4</b>	<b>147,505</b>	<b>57.5</b>

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

(2) Excludes records with unknown data or errors.

(3) Rank compares one Local Agency's rate to other Local Agencies. 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.