

WIC PNNS & PedNSS

Table 1C

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Demographic Indicators (2)

Total Records	Number	%
Complete Records	37,822	68.3
Prenatal Records	3,464	6.3
Postpartum Records	14,127	25.5
Total	55,413	

Source of Data	Number	%
WIC	55,413	100.0
Maternal Health	0	0.0
Other	0	0.0
Total	55,413	100.0
<i>Excluded Unknown</i>	0	0.0 %

Race/Ethnic Distribution	Number	%
White, Not Hispanic	28,615	51.9
Black, Not Hispanic	16,581	30.1
Hispanic	5,815	10.5
American Indian/Alaska Native	198	0.4
Asian/Pacific Islander	1,183	2.1
Multiple Races	2,733	5.0
All Other	1	0.0
Total	55,126	100.0
<i>Excluded Unknown</i>	282	0.5 %

Age Distribution	Number	%
< 15 Years	67	0.1
15 - 17 Years	1,419	2.6
18 - 19 Years	4,271	7.7
20 - 29 Years	34,620	62.5
30 - 39 Years	13,900	25.1
>= 40 Years	1,082	2.0
Total	55,359	100.0
<i>Excluded Unknown: 54</i>		0.1 %

Education Distribution	Number	%
< High School	12,505	23.0
High School	25,203	46.3
> High School	16,731	30.7
Total	54,439	100.0
<i>Excluded Unknown</i>	974	1.8 %

% of Poverty Level	Number	%
0 - 50	15,381	37.4
51 - 100	10,673	25.9
101 - 130	5,259	12.8
131 - 150	2,428	5.9
151 - 185	3,412	8.3
186 - 200	1,026	2.5
> 200	2,794	6.8
Adjunctive Eligibility	197	0.5
Total	41,170	100.0
<i>Excluded Unknown</i>	116	0.2 %

Program Participation (3)	Number	%
WIC	41,286	100.0
SNAP	41,246	45.5
Medicaid	41,237	90.0
Tanf	41,270	4.8
Excluded Unknown:		
WIC:	0	0.0
SNAP:	40	0.1
Medicaid:	49	0.1
Tanf:	16	0.0

Migrant Status	Number	%
Yes	484	0.9
No	54,929	99.1
Total	55,413	100.0
<i>Excluded Unknown</i>	0	0.0 %

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data or errors.

(3) Prenatal program participation

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Table 2C 2018 Pregnancy Nutrition Surveillance (1) Michigan Summary of Health Indicators

Summary of Health Indicators (2)				
	Michigan Prevalence		National (7) Prevalence (Prior Year)	
	Number	%	Number	%
Prepregnancy BMI (3)				
Underweight	45,296	4.3	78,830	4.2
Normal Weight	45,296	36.3	78,830	37.7
Overweight	45,296	24.7	78,830	25.3
Obese	45,296	34.8	78,830	32.8
Maternal Weight Gain (4)				
Less Than Ideal	29,118	19.1	60,587	20.6
Ideal	29,118	29.8	60,587	31.1
Greater Than Ideal	29,118	51.0	60,587	48.3
Anemia (Low Hb/Hct) (5)				
1st Trimester	15,897	13.7	25,694	6.1
2nd Trimester	15,187	20.6	26,006	7.6
3rd Trimester	9,090	49.4	19,110	33.8
Postpartum	12,050	37.9	18,650	29.5
Parity (6)				
0	54,812	34.8	78,831	29.8
1	54,812	28.9	78,831	31.5
2	54,812	18.9	78,831	20.0
>= 3	54,812	17.4	78,831	18.8
Interpregnancy Interval				
<= 6 Months	34,872	12.8	41,536	12.5
6 - <18 Months	34,872	26.7	41,536	26.7
>= 18 Months	34,872	60.5	41,536	60.8
Gestational Diabetes	51,368	7.0	62,888	9.8
Hypertension During Pregnancy	51,399	11.4	62,050	11.8

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) 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).

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

(5) Based on 1990 MMWR, "Recommendations to prevent and control Iron Deficiency in the United States"; adjusted for altitude and smoking.

(6) Number of times a woman has given birth to an infant 20 or more weeks gestation

(7) National includes previous year's data for all participating States and ITOs.

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

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Table 2C 2018 Pregnancy Nutrition Surveillance (1) Michigan Summary of Health Indicators

Summary of Health Indicators (2)				
	Michigan Prevalence		National (7) Prevalence (Prior Year)	
	Number	%	Number	%
Medical Care				
1st Trimester	50,875	84.3	82,216	68.1
No Care	50,875	6.8	82,216	9.0
WIC Enrollment				
1st Trimester	54,591	29.4	92,908	20.8
2nd Trimester	54,591	28.5	92,908	20.8
3rd Trimester	54,591	17.3	92,908	40.1
Postpartum (3)	54,591	24.8	92,908	18.3
Prepregnancy Multivitamin Consumption (4)	42,983	19.1	67,301	23.1
Multivitamin Consumption During Pregnancy (5)	40,941	87.4	68,644	87.7
Smoking				
3 Months Prior to Pregnancy	48,601	26.1	79,888	27.4
During Pregnancy	40,991	15.6	72,501	15.5
Last 3 Months of Pregnancy	51,441	13.9	86,864	13.9
Postpartum	51,448	14.9	87,245	14.8
Smoking Changes (6)				
Quit Smoking by First Prenatal Visit	11,312	44.1	20,376	45.4
Quit Smoking by First Prenatal Visit and Stayed Off Cigarettes	10,331	38.9	19,045	38.3
Smoking in Household				
During Pregnancy	40,995	10.4	72,847	9.3
Postpartum	51,462	3.0	87,350	2.8
Drinking				
3 Months Prior to Pregnancy	48,500	17.3	82,899	15.9
Last 3 Months of Pregnancy	51,457	0.5	86,156	0.6

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) Women who initially enrolled in WIC during the postpartum period.

(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.

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

(7) National includes previous year's data for all participating States and ITOs.

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

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Table 2C

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Health Indicators

Summary of Health Indicators (2)				
	Michigan Prevalence		National (6) Prevalence (Prior Year)	
	Number	%	Number	%
Birthweight (3)				
Very Low	48,594	1.4	87,958	1.2
Low	48,594	8.8	87,958	8.2
Normal	48,594	83.1	87,958	83.8
High	48,594	6.7	87,958	6.8
Preterm (4)	49,968	12.5	85,742	11.3
Full term Low Birth Weight (5)	42,176	4.5	73,871	4.1
Multiple Births	51,209	1.7	91,577	1.8
Breastfeeding				
Ever Breastfed	48,971	67.7	88,626	72.0

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) Very low birth weight (<1500 g), low birth weight (1500 - <2500 g), normal birth weight (2500 - <4000 g), high birth weight (>4000 g).

(4) <37 weeks gestation.

(5) 37 or more weeks gestation <2500 g.

(6) National includes previous year's data for all participating States and ITOs.

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

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Table 3C

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Comparison of Racial and Ethnic Distribution by Contributor to National (3)

Comparison of Racial and Ethnic Distribution (2)								
Contributor	Number Included in Analysis	White, Not Hispanic %	Black, Not Hispanic %	Hispanic %	American Indian/Alaska Native %	Asian/Pacific Islander %	Multiple Races %	All Other/Unknown %
Michigan	55,407	51.7	29.9	10.5	0.4	2.1	4.9	0.5
National (Prior Year)	94,408	50.1	22.6	18.8	2.0	2.9	3.3	0.4

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors

(3) National includes previous year's data for all participating States and ITOs.

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

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Table 4C

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Comparison of Age Distribution by Contributor to National (3)

Comparison of Age Distribution (2)								
Contributor	Number Included in Analysis	< 15 Years %	15 - 17 Years %	18 - 19 Years %	20 - 29 Years %	30 - 39 Years %	>= 40 Years %	Unknown %
Michigan	55,413	0.1	2.6	7.7	62.5	25.1	2.0	0.1
National (Prior Year)	98,943	0.1	2.7	7.5	61.8	25.7	2.0	0.1

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors

(3) National includes previous year's data for all participating States and ITOs.

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

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Table 5C

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Comparison of Maternal Health Indicators by Contributor to National (6)

Comparison of Maternal Health Indicators (2)														
Contributor	Pregnancy BMI			Weight Gain			Anemia (Low Hb/Hct)				Gestational Diabetes During Pregnancy		Hypertension During Pregnancy	
	(3)			(4)			(5)							
	Under- weight		Over- weight	< Ideal		> Ideal	3rd Trimester		Postpartum					
	Number	%	%	Number	%	%	Number	%	Number	%	Number	%	Number	%
Michigan	45,296	4.3	59.5	29,118	19.1	51.0	9,090	49.4	12,050	37.9	51,368	7.0	51,399	11.4
National (Prior Year)	78,830	4.2	58.1	60,587	20.6	48.3	19,110	33.8	18,650	29.5	62,888	9.8	62,050	11.8

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) 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).

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

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

(5) Based on 1990 MMWR, "Recommendations to prevent and control Iron Deficiency in the United States"; adjusted for altitude and smoking.

(6) National includes previous year's data for all participating States and ITOs.

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

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Table 6C

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Comparison of Maternal Behavioral Indicators by Contributor to National (5)

Comparison of Maternal Behavioral Indicators (2)									
Contributor	Medical Care			WIC Enrollment		Multivitamin Consumption			
	1st Trimester		No Care	1st Trimester		Pregnancy (3)		During Pregnancy (4)	
	Number	%	%	Number	%	Number	%	Number	%
Michigan	50,875	84.3	6.8	54,591	29.4	42,983	19.1	40,941	87.4
National (Prior Year)	82,216	68.1	9.0	92,908	20.8	67,301	23.1	68,644	87.7

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

(2) Excludes records with unknown data or errors.

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

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

(5) National includes previous year's data for all participating States and ITOs.

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

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Table 7C

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Comparison of Smoking Indicators by Contributor to National (4)

Comparison of Smoking Indicators (2)										
Contributor	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (3)		Smoking in Household			
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
	Number	%	Number	%	Number	%	Number	%	Number	%
Michigan	48,601	26.1	51,441	13.9	10,331	38.9	40,995	10.4	51,462	3.0
National (Prior Year)	79,888	27.4	86,864	13.9	19,045	38.3	72,847	9.3	87,350	2.8

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

(2) Excludes records with unknown data or errors.

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

(4) National includes previous year's data for all participating States and ITOs.

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

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Table 8C

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Comparison of Infant Health Indicators by Contributor to National (7)

Comparison of Infant Health Indicators (2)									
Contributor	Birthweight			Preterm		Full Term LBW		Ever Breastfed	
	Low	High		(5)		(6)			
	(3)	(4)		Number	%	Number	%	Number	%
Michigan	48,594	10.2	6.7	49,968	12.5	42,176	4.5	48,971	67.7
National (Prior Year)	87,958	9.4	6.8	85,742	11.3	73,871	4.1	88,626	58.4

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

(7) 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 PNNS & PedNSS

Table 9C

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Maternal Health Indicators by Race/Ethnicity, Age, or Education

Maternal Health Indicators by Race/Ethnicity, Age, or Education (2)

	Prepregnancy BMI (3)			Weight Gain (4)			Anemia (Low Hb/Hct) (5)				Gestational Diabetes		Hypertension During Pregnancy		
	Number	%	%	Number	%	%	3rd Trimester		Postpartum		Number	%	Number	%	
							< Ideal	>Ideal	Number	%					Number
Race/Ethnicity															
White, Not Hispanic	23,428	4.6	57.1	14,986	17.8	52.3	4,414	39.6	6,888	29.5	26,614	7.3	26,640	10.8	
Black, Not Hispanic	13,810	3.9	62.9	9,119	19.5	52.4	3,123	64.4	3,041	56.4	15,541	5.5	15,550	13.8	
Hispanic	4,704	2.5	65.6	2,934	22.7	44.3	850	45.4	1,184	38.3	5,368	8.2	5,368	8.9	
American Indian/Alaska Native	153	5.9	60.8	84	*	*	33	*	56	*	169	13.0	168	13.1	
Asian/Pacific Islander	903	7.9	41.1	546	31.5	29.1	162	34.6	294	35.0	1,110	13.2	1,111	5.5	
Multiple Races	2,265	4.9	58.9	1,429	18.9	50.9	503	54.5	578	42.6	2,542	6.5	2,538	10.4	
All Other/Unknown	29	*	*	20	*	*	4	*	8	*	22	*	22	*	
Total	45,296	4.3	59.5	29,118	19.1	51.0	9,090	49.4	12,050	37.9	51,368	7.0	51,399	11.4	
Age															
< 15 Years	54	*	*	34	*	*	19	*	5	*	61	*	61	*	
15 - 17 Years	1,198	9.3	37.3	752	19.3	53.6	246	52.8	248	44.0	1,294	1.7	1,294	10.0	
18 - 19 Years	3,637	7.2	45.4	2,245	18.2	53.1	746	52.3	806	46.9	3,896	2.4	3,898	11.9	
20 - 29 Years	28,480	4.6	58.4	18,447	18.8	51.2	5,917	49.5	7,449	38.6	32,192	5.4	32,206	10.3	
30 - 39 Years	11,051	2.2	68.5	7,124	20.1	50.2	2,016	48.6	3,262	33.8	12,932	12.0	12,947	13.6	
>= 40 Years	837	0.8	73.8	493	21.1	43.6	140	35.7	263	35.7	944	17.6	943	17.1	
Unknown	39	*	*	23	*	*	6	*	17	*	49	*	50	*	
Total	45,296	4.3	59.5	29,118	19.1	51.0	9,090	49.4	12,050	37.9	51,368	7.0	51,399	11.4	
Education															
< High School	9,941	5.5	55.8	6,099	22.0	48.6	2,024	51.9	2,387	45.0	11,605	6.1	11,608	9.7	
High School	20,687	4.4	59.4	13,346	18.6	51.5	4,225	51.3	5,227	38.3	23,529	6.8	23,544	11.6	
> High School	14,135	3.2	62.3	9,355	17.9	52.1	2,743	44.7	4,248	34.1	15,576	7.8	15,586	12.3	
Excluded Unknown	533	3.8	55.9	318	22.0	47.8	98	*	188	26.1	658	8.2	661	8.5	
Total	45,296	4.3	59.5	29,118	19.1	51.0	9,090	49.4	12,050	37.9	51,368	7.0	51,399	11.4	

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data for health indicators, and data with errors for health and demographic indicators.

(3) 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).

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

(5) 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 PNNS & PedNSS

Table 10C

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Maternal Behavioral Indicators by Race/Ethnicity, Age, or Education

Maternal Behavioral Indicators by Race/Ethnicity, Age, or Education (2)									
	Medical Care			WIC Enrollment		Multivitamin Consumption			
	1st Trimester		No Care	1st Trimester		Prepregnancy (3)		During Pregnancy (4)	
	Number	%	%	Number	%	Number	%	Number	%
Race/Ethnicity									
White, Not Hispanic	26,419	85.8	8.1	28,188	32.9	23,202	22.3	21,491	88.8
Black, Not Hispanic	15,371	82.7	3.8	16,355	21.7	11,918	13.2	11,697	86.5
Hispanic	5,277	80.5	9.9	5,723	35.2	4,525	20.0	4,615	83.3
American Indian/Alaska Native	169	84.6	6.5	195	30.3	168	26.2	147	87.8
Asian/Pacific Islander	1,099	89.1	5.4	1,162	30.1	996	14.9	875	85.9
Multiple Races	2,517	84.4	5.8	2,693	30.4	2,146	17.3	2,106	87.6
All Other/Unknown	21	*	*	269	2.6	22	*	5	*
Total	50,875	84.3	6.8	54,591	29.4	42,983	19.1	40,941	87.4
Age									
< 15 Years	58	*	*	67	*	56	*	54	*
15 - 17 Years	1,275	70.2	10.0	1,405	34.6	1,204	8.0	1,192	85.2
18 - 19 Years	3,836	81.2	8.4	4,219	33.1	3,615	9.9	3,481	85.6
20 - 29 Years	31,871	85.1	6.2	34,094	27.8	26,561	17.9	25,328	87.2
30 - 39 Years	12,854	84.9	7.4	13,684	31.6	10,649	26.1	10,066	88.8
>= 40 Years	932	80.7	7.8	1,069	32.6	858	27.6	786	86.8
Unknown	49	*	*	53	*	40	*	34	*
Total	50,875	84.3	6.8	54,591	29.4	42,983	19.1	40,941	87.4
Education									
< High School	11,444	79.2	8.4	12,291	31.8	9,262	13.6	9,603	82.2
High School	23,307	84.2	6.8	24,850	29.5	19,640	17.5	18,880	87.4
> High School	15,480	88.3	5.7	16,505	28.0	13,491	25.4	12,021	91.6
Excluded Unknown	644	82.1	7.3	945	21.9	590	17.1	437	86.0
Total	50,875	84.3	6.8	54,591	29.4	42,983	19.1	40,941	87.4

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

(2) Excludes records with unknown data for behavioral indicators, and data with errors for behavioral and demographic indicators.

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

(4) 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 PNNS & PedNSS

Table 11C

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Smoking Indicators by Race/Ethnicity, Age, or Education

Smoking Indicators by Race/Ethnicity, Age, or Education (2)										
	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (3)		Smoking in Household			
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
	Number	%	Number	%	Number	%	Number	%	Number	%
Race/Ethnicity										
White, Not Hispanic	25,740	33.6	26,654	19.8	6,992	33.0	21,521	11.1	26,665	2.8
Black, Not Hispanic	13,953	17.7	15,561	6.9	2,044	55.5	11,708	11.5	15,571	3.9
Hispanic	5,195	14.3	5,381	5.9	622	51.9	4,620	5.1	5,380	1.5
American Indian/Alaska Native	180	49.4	167	36.5	60	*	148	20.9	168	8.3
Asian/Pacific Islander	1,106	3.4	1,116	1.4	27	*	879	1.9	1,114	1.2
Multiple Races	2,396	29.8	2,538	16.4	586	38.4	2,109	12.7	2,540	3.7
All Other/Unknown	25	*	22	*	0	*	5	*	22	*
Total	48,601	26.1	51,441	13.9	10,331	38.9	40,995	10.4	51,462	3.0
Age										
< 15 Years	67	*	62	*	7	*	54	*	62	*
15 - 17 Years	1,369	19.0	1,296	8.0	224	50.4	1,194	23.2	1,296	7.0
18 - 19 Years	4,036	25.6	3,897	10.7	879	49.0	3,480	18.9	3,899	5.3
20 - 29 Years	30,034	26.5	32,218	13.7	6,523	40.4	25,364	9.8	32,239	2.8
30 - 39 Years	12,074	27.0	12,969	16.1	2,566	31.1	10,080	7.8	12,970	2.4
>= 40 Years	976	18.0	949	11.1	127	26.8	788	6.9	946	3.1
Unknown	45	*	50	*	5	*	35	*	50	*
Total	48,601	26.1	51,441	13.9	10,331	38.9	40,995	10.4	51,462	3.0
Education										
< High School	10,708	33.2	11,611	20.4	2,934	31.3	9,629	13.4	11,623	4.2
High School	22,132	28.2	23,556	14.6	5,158	40.0	18,903	10.9	23,571	3.1
> High School	15,105	18.4	15,613	8.1	2,161	46.6	12,024	7.3	15,606	2.0
Excluded Unknown	656	19.4	661	11.0	78	*	439	9.8	662	2.1
Total	48,601	26.1	51,441	13.9	10,331	38.9	40,995	10.4	51,462	3.0

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

(2) Excludes records with unknown data for smoking indicators, and data with errors for smoking and demographic indicators.

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

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

WIC PNNS & PedNSS

Table 12C 2018 Pregnancy Nutrition Surveillance (1) Michigan

Infant Health Indicators by Race/Ethnicity, Age, or Education

Infant Health Indicators by Race/Ethnicity, Age, or Education (2)									
	Birthweight			Preterm		Full Term LBW		Ever Breastfed	
	Low (3)		High (4)	(5)		(6)			
	Number	%	%	Number	%	Number	%	Number	%
Race/Ethnicity									
White, Not Hispanic	25,171	8.3	8.3	25,844	10.9	22,236	3.4	25,327	71.9
Black, Not Hispanic	14,739	14.4	3.7	15,218	15.5	12,342	6.7	14,896	57.7
Hispanic	5,062	7.4	7.5	5,167	11.8	4,425	3.3	5,100	72.3
American Indian/Alaska Native	158	7.0	11.4	166	10.2	140	3.6	158	72.8
Asian/Pacific Islander	1,039	11.6	4.8	1,075	12.1	905	7.1	1,058	79.4
Multiple Races	2,402	9.5	7.5	2,475	11.5	2,105	4.3	2,409	69.6
All Other/Unknown	21	*	*	21	*	21	*	21	*
Total	48,594	10.2	6.7	49,968	12.5	42,176	4.5	48,971	67.7
Age									
< 15 Years	59	*	*	61	*	49	*	59	*
15 - 17 Years	1,231	9.6	4.7	1,269	13.2	1,064	4.7	1,237	62.5
18 - 19 Years	3,711	8.9	4.8	3,827	11.5	3,261	5.0	3,732	66.9
20 - 29 Years	30,583	8.2	6.4	31,417	11.4	26,836	4.3	30,807	68.1
30 - 39 Years	12,136	9.8	8.3	12,489	15.0	10,244	4.6	12,247	67.5
>= 40 Years	828	11.2	7.1	857	17.2	682	5.4	841	66.8
Unknown	46	*	*	48	*	40	*	48	*
Total	48,594	10.2	6.7	49,968	12.5	42,176	4.5	48,971	67.7
Education									
< High School	10,823	9.8	5.3	11,224	13.6	9,255	5.5	10,962	56.8
High School	22,308	8.8	6.5	22,897	12.1	19,435	4.4	22,455	65.8
> High School	14,866	8.1	8.0	15,209	12.1	12,968	3.7	14,937	78.1
Excluded Unknown	597	9.0	7.9	638	12.9	518	4.4	617	74.2
Total	48,594	10.2	6.7	49,968	12.5	42,176	4.5	48,971	67.7

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data for health indicators, and data with errors for health and demographic indicators.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

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

Table 13C

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Maternal Weight Gain and Birth Outcomes by Select Health Indicators

Maternal Weight Gain and Birth Outcomes by Select Health Indicators (2)										
	Weight Gain (3)			Birthweight			Preterm (6)		Full Term LBW (7)	
	< Ideal	> Ideal		Low (4)	High (5)					
	Number	%	%	Number	%	%	Number	%	Number	%
Prepregnancy BMI										
Underweight	1,266	31.8	27.3	1,654	17.5	2.1	1,719	14.5	1,405	10.0
Normal Weight	10,810	23.2	41.7	14,620	11.2	4.6	15,047	12.7	12,659	5.1
Overweight	7,267	11.5	61.2	10,043	9.4	6.6	10,245	11.9	8,756	4.0
Obese	9,775	18.8	56.8	14,087	9.1	9.1	14,393	12.2	12,257	3.6
Weight Gain										
< Ideal	-	-	-	5,246	17.1	3.1	5,413	17.8	4,285	7.5
Ideal	-	-	-	8,349	10.9	4.6	8,550	12.6	7,247	5.0
> Ideal	-	-	-	14,386	7.5	9.1	14,650	10.0	12,813	3.3
Smoking During Pregnancy										
Smokers	2,933	20.4	51.0	5,327	12.8	4.2	5,538	13.7	4,606	6.8
Non-Smokers	16,545	18.8	51.3	30,149	8.3	7.2	31,042	11.4	26,677	3.8

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

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

(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 PNNS & PedNSS

Table 14C

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Trends in Racial and Ethnic Distribution

Summary of Trends in Racial and Ethnic Distribution (2)								
Year	Number Included in Analysis	White, Not Hispanic %	Black, Not Hispanic %	Hispanic %	American Indian/Alaska Native %	Asian/Pacific Islander %	Multiple Races %	All Other/Unknown %
2018	55,407	51.7	29.9	10.5	0.4	2.1	4.9	0.5
2017	57,669	52.1	30.4	10.4	0.3	2.3	4.0	0.5
2016	60,139	53.6	28.9	10.6	0.3	2.1	4.0	0.5
2015	63,103	54.0	29.0	10.2	0.4	2.1	3.6	0.8
2014	65,941	55.7	28.0	9.7	0.4	2.0	3.6	0.6
2013	67,256	55.5	28.3	9.9	0.4	2.0	3.5	0.6
2012	67,977	56.2	27.5	10.0	0.4	1.9	3.4	0.6
2011	68,267	57.0	27.3	10.0	0.4	1.7	2.9	0.6

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

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

WIC PNNS & PedNSS

Table 15C

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Trends in Age Distribution

Summary of Trends in Age Distribution (2)								
Year	Number Included in Analysis	< 15 Years %	15 - 17 Years %	18 - 19 Years %	20 - 29 Years %	30 - 39 Years %	>= 40 Years %	Unknown %
2018	55,413	0.1	2.6	7.7	62.5	25.1	2.0	0.1
2017	57,676	0.1	2.8	7.7	63.1	24.3	1.8	0.1
2016	60,143	0.1	3.0	7.9	63.4	23.7	1.8	0.1
2015	63,108	0.1	3.2	8.4	63.8	22.8	1.6	0.2
2014	65,945	0.2	3.4	9.1	63.5	22.1	1.7	0.2
2013	67,261	0.2	3.9	9.8	63.1	21.2	1.6	0.2
2012	67,977	0.2	4.5	10.7	62.2	20.5	1.5	0.3
2011	68,267	0.2	4.9	11.5	61.7	19.9	1.5	0.3

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

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

WIC PNNS & PedNSS

Table 16C

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Trends in Maternal Health Indicators

Summary of Trends in Maternal Health Indicators (2)										
Year	Prepregnancy BMI (3)			Weight Gain (4)			Anemia (Low Hb/Hct) (5)			
	Under-weight		Over-weight	< Ideal		> Ideal	3rd Trimester		Postpartum	
	Number	%	%	Number	%	%	Number	%	Number	%
2018	45,296	4.3	59.5	29,118	19.1	51.0	9,090	49.4	12,050	37.9
2017	47,111	4.3	58.8	31,292	19.1	51.9	9,416	49.2	11,325	36.6
2016	51,019	4.4	58.1	33,141	19.4	51.2	9,642	45.1	12,082	34.6
2015	53,616	4.4	56.8	44,468	19.6	50.7	9,750	41.4	12,310	31.6
2014	56,540	4.3	56.3	45,714	17.2	52.3	9,959	39.6	12,485	28.7
2013	58,063	4.3	56.0	46,728	16.9	52.4	9,903	38.9	11,995	28.7
2012	61,321	4.4	54.9	48,759	17.4	51.3	9,736	38.4	12,636	27.9
2011	62,450	4.4	54.4	50,780	17.6	51.0	10,073	35.7	13,689	27.5

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) 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).

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

(5) 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 PNNS & PedNSS
Table 17C
2018 Pregnancy Nutrition Surveillance (1)
Michigan
Summary of Maternal Behavioral Indicators

Summary of Maternal Behavioral Indicators (2)					
Year	Medical Care			WIC Enrollment	
	1st Trimester		No Care	1st Trimester	
	Number	%	%	Number	%
2018	50,875	84.3	6.8	54,591	29.4
2017	53,045	83.1	7.7	56,717	30.6
2016	54,902	82.2	8.4	59,189	32.4
2015	57,579	81.1	9.4	62,203	34.1
2014	60,317	79.7	10.8	64,954	35.7
2013	61,039	79.9	10.5	66,266	36.9
2012	61,308	79.8	10.6	67,036	38.0
2011	60,703	81.1	9.2	67,132	36.7

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

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

WIC PNNS & PedNSS

Table 18C

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Trends in Smoking Indicators

Summary of Trends in Smoking Indicators (2)										
Year	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (3)		Smoking in Household			
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
	Number	%	Number	%	Number	%	Number	%	Number	%
2018	48,601	26.1	51,441	13.9	10,331	38.9	40,995	10.4	51,462	3.0
2017	51,028	27.1	53,711	14.1	11,398	39.3	43,712	11.3	53,738	3.2
2016	53,738	28.6	55,530	15.1	12,776	39.3	46,598	11.9	55,576	3.4
2015	56,882	30.6	58,245	15.8	14,580	39.6	49,656	13.4	58,264	4.2
2014	60,217	32.0	61,120	16.4	16,301	39.4	52,726	14.6	61,124	4.5
2013	62,025	32.3	61,793	16.8	18,044	36.4	54,649	15.1	61,835	5.0
2012	63,072	32.4	61,988	16.9	16,769	38.6	55,380	16.0	61,994	4.9
2011	64,049	32.8	61,427	16.9	16,751	39.5	55,787	16.8	61,403	5.5

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) Prenatal program participation

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

WIC PNNS & PedNSS

Table 19C

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Trends in Infant Health Indicators

Summary of Trends in Infant Health Indicators (2)									
Year	Birthweight			Preterm		Full Term LBW		Ever Breastfed	
	Low		High	(5)		(6)			
	(3)	(4)		Number	%	Number	%	Number	%
2018	48,594	10.2	6.7	49,968	12.5	42,176	4.5	48,971	67.7
2017	50,526	10.2	6.7	52,025	12.4	43,785	4.3	51,003	66.7
2016	52,145	9.8	6.9	53,729	12.3	45,193	4.2	52,506	66.2
2015	54,702	9.7	6.9	56,532	11.9	47,832	4.2	54,837	65.1
2014	57,572	9.0	7.0	59,292	11.8	50,471	3.8	57,574	63.6
2013	58,028	8.7	7.2	59,882	11.5	50,981	3.7	58,101	63.1
2012	58,368	8.8	7.3	60,111	12.1	50,877	3.7	58,753	61.2
2011	58,040	8.6	7.1	59,523	11.7	50,780	3.6	58,401	60.5

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

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

WIC PNNS & PedNSS

Table 20C

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Trends in Maternal Health Indicators by Race/Ethnicity

Summary of Trends in Maternal Health Indicators by Race/Ethnicity (2)											
Race/Ethnicity	Year	Prepregnancy BMI			Weight Gain			Anemia (Low Hb/Hct)			
		(3)			(4)			(5)			
		Under- weight	Over- weight		< Ideal	> Ideal		3rd Trimester		Postpartum	
		Number	%	%	Number	%	%	Number	%	Number	%
White, Not Hispanic	2018	23,428	4.6	57.1	14,986	17.8	52.3	4,414	39.6	6,888	29.5
	2017	24,340	4.7	56.3	15,648	17.8	53.3	4,514	39.7	6,533	29.0
	2016	27,427	4.8	55.7	17,582	17.8	52.5	4,843	35.9	7,093	27.4
	2015	29,203	4.8	54.7	24,343	18.2	51.9	4,999	31.7	7,322	24.6
Black, Not Hispanic	2018	13,810	3.9	62.9	9,119	19.5	52.4	3,123	64.4	3,041	56.4
	2017	14,791	3.7	62.3	10,603	19.4	52.4	3,380	63.6	2,870	53.4
	2016	14,954	3.9	62.3	10,223	19.5	51.9	3,280	59.2	2,992	52.1
	2015	15,907	4.2	60.2	13,240	20.2	51.2	3,363	58.0	3,041	49.8

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) 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).

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

(5) 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 PNNS & PedNSS

Table 20C

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Trends in Maternal Health Indicators by Race/Ethnicity

Summary of Trends in Maternal Health Indicators by Race/Ethnicity (2)											
Race/Ethnicity	Year	Prepregnancy BMI			Weight Gain			Anemia (Low Hb/Hct) (5)			
		(3)		(4)	(4)		3rd Trimester		Postpartum		
		Under-weight	Over-weight	< Ideal	> Ideal	Number	%	Number	%	Number	%
Hispanic	2018	4,704	2.5	65.6	2,934	22.7	44.3	850	45.4	1,184	38.3
	2017	4,919	3.0	64.2	3,119	23.0	45.8	908	42.4	1,071	37.0
	2016	5,372	3.1	62.6	3,323	24.8	44.2	935	45.3	1,149	33.9
	2015	5,335	2.4	62.0	4,309	24.0	44.4	840	34.4	1,156	30.2
American Indian/Alaska Native	2018	153	5.9	60.8	84	*	*	33	*	56	*
	2017	153	6.5	58.2	96	*	*	23	*	42	*
	2016	156	3.2	63.5	78	*	*	22	*	42	*
	2015	206	3.9	59.2	165	20.0	47.3	33	*	41	*

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) 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).

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

(5) 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 PNNS & PedNSS

Table 20C

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Trends in Maternal Health Indicators by Race/Ethnicity

Summary of Trends in Maternal Health Indicators by Race/Ethnicity (2)											
Race/Ethnicity	Year	Prepregnancy BMI (3)			Weight Gain (4)			Anemia (Low Hb/Hct) (5)			
		Under-weight		Over-weight	< Ideal		> Ideal	3rd Trimester		Postpartum	
		Number	%	%	Number	%	%	Number	%	Number	%
Asian/Pacific Islander	2018	903	7.9	41.1	546	31.5	29.1	162	34.6	294	35.0
	2017	964	7.6	38.1	602	30.2	34.6	186	37.6	295	32.5
	2016	1,003	7.7	37.9	610	30.7	30.7	183	40.4	292	29.5
	2015	975	9.0	34.7	769	27.8	34.7	172	29.1	294	26.2
Multiple Races	2018	2,265	4.9	58.9	1,429	18.9	50.9	503	54.5	578	42.6
	2017	1,927	4.4	59.0	1,210	18.5	52.9	400	54.3	497	41.4
	2016	2,084	4.7	58.0	1,318	19.8	54.9	376	41.2	506	35.8
	2015	1,981	4.3	56.2	1,636	19.6	52.7	342	42.1	453	28.5

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) 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).

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

(5) 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 PNNS & PedNSS

Table 20C

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Trends in Maternal Health Indicators by Race/Ethnicity

Summary of Trends in Maternal Health Indicators by Race/Ethnicity (2)											
Race/Ethnicity	Year	Prepregnancy BMI (3)			Weight Gain (4)			Anemia (Low Hb/Hct) (5)			
		Under-weight		Over-weight	< Ideal		> Ideal	3rd Trimester		Postpartum	
		Number	%	%	Number	%	%	Number	%	Number	%
All Other/Unknown	2018	29	*	*	20	*	*	4	*	8	*
	2017	10	*	*	9	*	*	0	*	15	*
	2016	20	*	*	6	*	*	3	*	7	*
	2015	6	*	*	3	*	*	0	*	2	*
Total All Race/Ethnic Groups	2018	45,296	4.3	59.5	29,118	19.1	51.0	9,090	49.4	12,050	37.9
	2017	47,111	4.3	58.8	31,292	19.1	51.9	9,416	49.2	11,325	36.6
	2016	51,019	4.4	58.1	33,141	19.4	51.2	9,642	45.1	12,082	34.6
	2015	53,616	4.4	56.8	44,468	19.6	50.7	9,750	41.4	12,310	31.6

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) 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).

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

(5) 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 PNNS & PedNSS

Table 21C

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity (2)						
Race/Ethnicity	Year	Medical Care			WIC Enrollment	
		1st Trimester		No Care	1st Trimester	
		Number	%	%	Number	%
White, Not Hispanic	2018	26,419	85.8	8.1	28,188	32.9
	2017	27,700	84.7	9.1	29,532	34.7
	2016	29,471	83.8	9.8	31,689	36.0
	2015	31,266	82.6	10.8	33,651	37.4
Black, Not Hispanic	2018	15,371	82.7	3.8	16,355	21.7
	2017	16,319	81.6	4.4	17,248	21.8
	2016	16,144	80.4	4.8	17,148	23.5
	2015	16,981	79.5	5.7	18,059	25.1

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors.

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

WIC PNNS & PedNSS

Table 21C

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity (2)						
Race/Ethnicity	Year	Medical Care			WIC Enrollment	
		1st Trimester		No Care	1st Trimester	
		Number	%	%	Number	%
Hispanic	2018	5,277	80.5	9.9	5,723	35.2
	2017	5,474	79.4	11.0	5,888	36.7
	2016	5,744	79.0	11.7	6,262	38.5
	2015	5,822	77.3	12.7	6,336	40.6
American Indian/Alaska Native	2018	169	84.6	6.5	195	30.3
	2017	174	82.8	10.3	192	39.1
	2016	162	84.6	5.6	182	40.7
	2015	205	82.0	9.8	227	37.0

(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 PNNS & PedNSS

Table 21C

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity (2)						
Race/Ethnicity	Year	Medical Care			WIC Enrollment	
		1st Trimester		No Care	1st Trimester	
		Number	%	%	Number	%
Asian/Pacific Islander	2018	1,099	89.1	5.4	1,162	30.1
	2017	1,226	87.7	5.3	1,293	28.0
	2016	1,164	84.8	7.6	1,240	31.2
	2015	1,222	84.0	8.5	1,299	33.7
Multiple Races	2018	2,517	84.4	5.8	2,693	30.4
	2017	2,129	80.5	9.3	2,278	33.0
	2016	2,205	81.0	9.2	2,348	34.6
	2015	2,077	79.5	10.6	2,240	36.7

(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

WIC PNNS & PedNSS

Table 21C

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity (2)						
Race/Ethnicity	Year	Medical Care			WIC Enrollment	
		1st Trimester		No Care	1st Trimester	
		Number	%	%	Number	%
All Other/Unknown	2018	21	*	*	269	2.6
	2017	16	*	*	279	0.7
	2016	9	*	*	316	6.0
	2015	1	*	*	386	42.2
Total All Race/Ethnic Groups	2018	50,875	84.3	6.8	54,591	29.4
	2017	53,045	83.1	7.7	56,717	30.6
	2016	54,902	82.2	8.4	59,189	32.4
	2015	57,579	81.1	9.4	62,203	34.1

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors.

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

WIC PNNS & PedNSS

Table 22C

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Trends in Smoking Indicators by Race/Ethnicity

Summary of Trends in Smoking Indicators by Race/Ethnicity (2)											
Race/Ethnicity	Year	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (3)		Smoking in Household			
		3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
		Number	%	Number	%	Number	%	Number	%	Number	%
White, Not Hispanic	2018	25,740	33.6	26,654	19.8	6,992	33.0	21,521	11.1	26,665	2.8
	2017	27,201	34.3	28,001	20.2	7,583	33.4	23,102	11.9	28,026	3.1
	2016	29,428	35.6	29,826	20.8	8,628	33.1	25,257	12.4	29,852	3.0
	2015	31,435	37.9	31,631	21.7	9,922	34.1	27,142	13.9	31,643	3.7
Black, Not Hispanic	2018	13,953	17.7	15,561	6.9	2,044	55.5	11,708	11.5	15,571	3.9
	2017	14,920	19.3	16,531	6.9	2,473	54.7	12,760	12.2	16,535	3.9
	2016	15,021	20.9	16,280	8.1	2,669	55.8	13,003	13.6	16,292	4.6
	2015	16,083	22.5	17,134	8.4	3,087	55.0	14,074	15.2	17,142	5.7

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors.

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

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

WIC PNNS & PedNSS

Table 22C

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Trends in Smoking Indicators by Race/Ethnicity

Summary of Trends in Smoking Indicators by Race/Ethnicity (2)											
Race/Ethnicity	Year	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (3)		Smoking in Household			
		3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
		Number	%	Number	%	Number	%	Number	%	Number	%
Hispanic	2018	5,195	14.3	5,381	5.9	622	51.9	4,620	5.1	5,380	1.5
	2017	5,434	14.2	5,582	5.7	653	53.0	4,894	5.4	5,578	1.6
	2016	5,775	14.7	5,846	6.0	721	53.5	5,271	6.1	5,850	1.7
	2015	5,835	15.5	5,932	5.4	791	54.6	5,347	6.7	5,928	2.4
American Indian/Alaska Native	2018	180	49.4	167	36.5	60	*	148	20.9	168	8.3
	2017	175	49.7	171	33.3	73	*	150	24.0	172	8.1
	2016	168	48.8	160	26.9	62	*	152	16.4	161	6.8
	2015	197	52.8	207	41.1	82	*	172	26.7	206	8.3

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors.

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

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

WIC PNNS & PedNSS

Table 22C

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Trends in Smoking Indicators by Race/Ethnicity

Summary of Trends in Smoking Indicators by Race/Ethnicity (2)											
Race/Ethnicity	Year	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (3)		Smoking in Household			
		3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
		Number	%	Number	%	Number	%	Number	%	Number	%
Asian/Pacific Islander	2018	1,106	3.4	1,116	1.4	27	*	879	1.9	1,114	1.2
	2017	1,232	3.6	1,248	1.4	37	*	991	2.8	1,249	1.5
	2016	1,176	3.6	1,182	1.1	36	*	977	3.0	1,182	1.2
	2015	1,241	3.8	1,245	1.2	39	*	1,042	3.4	1,245	1.4
Multiple Races	2018	2,396	29.8	2,538	16.4	586	38.4	2,109	12.7	2,540	3.7
	2017	2,043	34.0	2,155	18.1	577	36.0	1,810	15.0	2,155	4.4
	2016	2,147	36.0	2,224	19.5	660	37.7	1,924	14.5	2,227	3.8
	2015	2,085	37.6	2,090	21.6	657	33.9	1,874	16.6	2,094	5.2

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors.

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

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

WIC PNNS & PedNSS

Table 22C

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Trends in Smoking Indicators by Race/Ethnicity

Summary of Trends in Smoking Indicators by Race/Ethnicity (2)											
Race/Ethnicity	Year	Smoking				Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (3)		Smoking in Household			
		3 Months Prior to Pregnancy		Last 3 Months of Pregnancy				Prenatal		Postpartum	
		Number	%	Number	%	Number	%	Number	%	Number	%
All Other/Unknown	2018	25	*	22	*	0	*	5	*	22	*
	2017	16	*	16	*	0	*	0	*	16	*
	2016	19	*	9	*	0	*	10	*	9	*
	2015	2	*	1	*	0	*	1	*	1	*
Total All Race/Ethnic Groups	2018	48,601	26.1	51,441	13.9	10,331	38.9	40,995	10.4	51,462	3.0
	2017	51,028	27.1	53,711	14.1	11,398	39.3	43,712	11.3	53,738	3.2
	2016	53,738	28.6	55,530	15.1	12,776	39.3	46,598	11.9	55,576	3.4
	2015	56,882	30.6	58,245	15.8	14,580	39.6	49,656	13.4	58,264	4.2

(1) Reporting period is January 1 through December 31

(2) Excludes data with errors.

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

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

WIC PNNS & PedNSS

Table 23C

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Trends in Infant Health Indicators by Race/Ethnicity

Summary of Trends in Infant Health Indicators by Race/Ethnicity (2)										
Race/Ethnicity	Year	Birthweight			Preterm (5)		Full Term LBW (6)		Ever Breastfed	
		Low (3)		High (4)	Number	%	Number	%	Number	%
		Number	%	%						
White, Not Hispanic	2018	25,171	8.3	8.3	25,844	10.9	22,236	3.4	25,327	71.9
	2017	26,229	8.4	8.5	27,065	10.8	23,152	3.5	26,555	71.5
	2016	27,800	8.0	8.8	28,754	11.1	24,436	3.2	28,124	70.6
	2015	29,537	8.0	8.8	30,649	10.5	26,222	3.3	29,774	70.3
Black, Not Hispanic	2018	14,739	14.4	3.7	15,218	15.5	12,342	6.7	14,896	57.7
	2017	15,697	14.1	3.4	16,145	15.5	13,154	6.3	15,781	55.3
	2016	15,487	13.8	3.5	15,903	15.3	12,985	6.3	15,497	54.6
	2015	16,302	13.8	3.5	16,767	14.7	13,798	6.1	16,200	52.3

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

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

WIC PNNS & PedNSS

Table 23C

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Trends in Infant Health Indicators by Race/Ethnicity

Summary of Trends in Infant Health Indicators by Race/Ethnicity (2)										
Race/Ethnicity	Year	Birthweight			Preterm (5)		Full Term LBW (6)		Ever Breastfed	
		Low (3)		High (4)	Number	%	Number	%	Number	%
		Number	%	%						
Hispanic	2018	5,062	7.4	7.5	5,167	11.8	4,425	3.3	5,100	72.3
	2017	5,232	7.5	7.9	5,329	11.9	4,543	2.9	5,262	72.5
	2016	5,469	7.5	7.8	5,590	11.1	4,797	3.7	5,496	72.3
	2015	5,551	7.1	8.0	5,688	11.3	4,876	3.1	5,570	71.0
American Indian/Alaska Native	2018	158	7.0	11.4	166	10.2	140	3.6	158	72.8
	2017	157	10.2	7.6	167	16.8	128	3.9	157	79.0
	2016	149	3.4	12.1	158	8.2	136	1.5	150	73.3
	2015	199	4.5	11.1	200	12.5	171	1.2	196	68.4

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

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

WIC PNNS & PedNSS

Table 23C

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Trends in Infant Health Indicators by Race/Ethnicity

Summary of Trends in Infant Health Indicators by Race/Ethnicity (2)										
Race/Ethnicity	Year	Birthweight			Preterm (5)		Full Term LBW (6)		Ever Breastfed	
		Low (3)		High (4)	Number	%	Number	%	Number	%
		Number	%	%						
Asian/Pacific Islander	2018	1,039	11.6	4.8	1,075	12.1	905	7.1	1,058	79.4
	2017	1,155	10.7	6.1	1,199	11.3	1,012	5.4	1,183	79.9
	2016	1,112	10.6	4.5	1,159	11.8	972	5.1	1,127	74.4
	2015	1,161	9.7	4.0	1,200	10.5	1,028	6.1	1,155	76.8
Multiple Races	2018	2,402	9.5	7.5	2,475	11.5	2,105	4.3	2,409	69.6
	2017	2,035	9.8	6.7	2,097	11.8	1,779	4.2	2,043	69.7
	2016	2,119	9.1	6.4	2,155	11.2	1,860	4.0	2,102	70.7
	2015	1,947	8.7	6.5	2,022	10.2	1,733	4.1	1,937	68.5

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

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

WIC PNNS & PedNSS

Table 23C

2018 Pregnancy Nutrition Surveillance (1)

Michigan

Summary of Trends in Infant Health Indicators by Race/Ethnicity

Summary of Trends in Infant Health Indicators by Race/Ethnicity (2)										
Race/Ethnicity	Year	Birthweight			Preterm (5)		Full Term LBW (6)		Ever Breastfed	
		Low (3)		High (4)	Number	%	Number	%	Number	%
		Number	%	%						
All Other/Unknown	2018	21	*	*	21	*	21	*	21	*
	2017	15	*	*	16	*	12	*	16	*
	2016	7	*	*	8	*	5	*	8	*
	2015	0	*	*	1	*	0	*	0	*
Total All Race/Ethnic Groups	2018	48,594	10.2	6.7	49,968	12.5	42,176	4.5	48,971	67.7
	2017	50,526	10.2	6.7	52,025	12.4	43,785	4.3	51,003	66.7
	2016	52,145	9.8	6.9	53,729	12.3	45,193	4.2	52,506	66.2
	2015	54,702	9.7	6.9	56,532	11.9	47,832	4.2	54,837	65.1

(1) Reporting period is January 1 through December 31

(2) Excludes records with unknown data errors.

(3) <2500 g.

(4) >4000 g.

(5) <37 weeks gestation.

(6) 37 or more weeks gestation and <2500 g.

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