

WIC PNSS & PedNSS

Table 4F

2021 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Racial and Ethnic Distribution by Local Agency

Children Aged < 5 Years ⁽²⁾

Comparison of Racial and Ethnic Distribution								
Local Agency	Number Included in Analysis <small>(3,4)</small>	White, Not Hispanic %	Black, Not Hispanic %	Hispanic %	American Indian/Alaska Native %	Asian/Pacific Islander %	Multiple Races %	All Other/Unknown %
01DHD#2	1,199	87.2	0.0	6.0	0.0	0.0	6.8	0.0
02LMAS	672	63.1	0.6	3.0	6.3	0.0	26.8	0.3
04DHD#4	1,301	86.0	0.2	4.2	0.0	0.1	9.5	0.0
05NWMCHA	1,859	88.2	0.5	3.4	0.6	0.1	7.3	0.0
06CMDHD	4,152	85.3	1.0	5.4	1.1	0.2	6.9	0.1
07West UP	1,160	86.3	0.7	2.6	1.0	0.8	8.5	0.1
08Barry	1,679	83.3	2.6	8.8	0.1	0.5	4.6	0.0
09Bay	2,084	66.7	1.6	17.0	0.0	0.2	14.3	0.1
10Gr Trav	1,413	75.8	0.3	11.4	1.3	0.4	10.8	0.0
11Berrien	2,719	43.5	37.0	9.3	0.3	1.1	8.1	0.8
12BHS	3,496	73.0	0.7	17.8	0.0	0.0	8.3	0.1
13Calhoun	3,384	52.5	18.5	9.3	0.2	5.2	14.3	0.0
14Leelanau	486	75.7	0.2	12.8	3.5	0.0	7.8	0.0
15Intercar	8,801	54.3	3.3	32.5	0.2	0.8	8.7	0.3
17Chippewa	658	40.6	0.2	7.8	18.2	0.5	32.8	0.0
19Mid-Mich	2,464	81.4	0.0	14.0	0.0	0.0	4.5	0.0
21Delta	979	71.2	0.6	6.2	3.5	0.1	18.4	0.0
22Iron	777	96.5	0.0	1.0	0.0	0.0	2.4	0.0
25Genesee	9,373	41.3	39.0	7.6	0.0	0.2	11.9	0.0
30HDI	2,357	24.8	43.9	23.1	0.1	0.4	7.7	0.0
32Huron	515	89.7	0.0	6.6	0.0	0.0	3.5	0.2

(1) Reporting period is January 1 through December 31

(2) Analyses based on one record per child

(3) Excludes records with unknown data errors.

(4) Prenatal program participation

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

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33Ingham	7,063	32.2	26.3	20.3	0.1	4.5	16.5	0.1
35Keweenaw	120	10.8	0.0	4.2	54.2	0.0	30.8	0.0
37Ionia	1,045	79.2	0.1	13.7	0.0	0.0	6.9	0.1
38Jackson	4,099	60.0	13.0	9.1	0.0	0.3	17.4	0.1
39Kalamazo	4,617	38.1	36.2	11.3	0.1	0.6	12.9	0.8
41Kent	11,088	24.0	26.2	34.9	0.1	5.4	9.5	0.0
43DHD#10	6,171	75.2	1.3	15.2	0.1	0.1	8.0	0.1
44Lapeer	1,095	82.8	1.5	9.3	0.1	0.5	5.8	0.1
45Tuscola	1,130	86.6	0.4	7.7	0.0	0.1	5.1	0.0
46CAA	1,418	64.6	1.7	24.3	0.1	0.1	9.0	0.2
47Livingst	1,577	85.5	1.5	5.6	0.1	0.4	6.7	0.2
50Macomb	10,621	45.4	31.5	3.6	0.1	8.9	10.5	0.0
51DCS	1,828	58.4	11.5	16.0	0.0	1.3	12.7	0.1
52Marquett	983	82.3	0.7	4.5	0.8	0.4	11.3	0.0
56MMCAA	1,338	82.7	1.6	6.6	0.1	0.2	8.7	0.0
58Monroe	2,317	70.0	5.8	9.2	0.1	0.2	14.5	0.2
61Muskegon	4,407	46.5	26.5	13.0	0.2	0.2	13.3	0.2
63Oakland	11,305	43.7	31.0	14.0	0.1	2.6	8.7	0.0
73Saginaw	2,834	36.1	29.0	23.5	0.0	0.1	11.2	0.1
74St Clair	2,315	69.5	5.0	10.5	0.1	0.2	14.6	0.1
76Sanilac	619	91.3	0.0	5.2	0.0	0.0	3.6	0.0

(1) Reporting period is January 1 through December 31

(2) Analyses based on one record per child

(3) Excludes records with unknown data errors.

(4) Prenatal program participation

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

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Local Agency	Number Included in Analysis <small>(3,4)</small>	White, Not Hispanic %	Black, Not Hispanic %	Hispanic %	American Indian/Alaska Native %	Asian/Pacific Islander %	Multiple Races %	All Other/Unknown %
78Shiawass	1,369	79.3	0.4	10.8	0.0	0.0	9.5	0.0
81Washtena	4,348	30.7	39.4	11.8	0.1	2.3	15.5	0.2
82Wayne	18,448	55.8	24.2	6.6	0.1	6.5	6.7	0.1
89Urban L	14,036	15.3	72.7	6.6	0.1	0.9	4.3	0.0
90Detroit	21,159	8.2	72.3	15.8	0.0	1.0	2.6	0.0
Michigan	188,977	46.0	29.1	13.3	0.3	2.3	9.0	0.1
National (Prior Year)	665,125	35.3	18.8	20.6	1.0	2.2	5.3	4.0

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Table 5F

2021 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Age Distribution by Local Agency

Children Aged < 5 Years ⁽²⁾

Comparison of Age Distribution				
Local Agency	Number Included in Analysis (3,4)	0 - 11 Months %	12 - 23 Months %	24 - 59 Months %
01DHD#2	1,199	30.2	21.5	48.3
02LMAS	672	25.6	20.4	54.0
04DHD#4	1,301	30.9	22.8	46.3
05NWMCHA	1,859	30.4	19.8	49.8
06CMDHD	4,152	27.9	21.9	50.2
07West UP	1,160	27.0	22.2	50.8
08Barry	1,679	30.3	20.9	48.8
09Bay	2,084	25.7	26.2	48.1
10Gr Trav	1,413	30.1	21.2	48.7
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12BHS	3,496	29.5	22.7	47.8
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17Chippewa	658	32.8	22.8	44.4
19Mid-Mich	2,464	33.3	19.4	47.3
21Delta	979	33.2	23.0	43.8
22Iron	777	24.3	21.2	54.4
25Genesee	9,373	29.7	21.3	49.0
30HDI	2,357	29.4	19.0	51.6
32Huron	515	33.2	20.8	46.0

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35Keweenaw	120	25.8	17.5	56.7
37Ionia	1,045	27.3	25.1	47.7
38Jackson	4,099	28.4	21.4	50.2
39Kalamazo	4,617	31.8	21.2	47.0
41Kent	11,088	31.4	19.9	48.8
43DHD#10	6,171	24.6	23.2	52.2
44Lapeer	1,095	29.2	20.1	50.7
45Tuscola	1,130	26.4	22.6	51.1
46CAA	1,418	31.9	20.8	47.2
47Livingst	1,577	25.5	21.1	53.5
50Macomb	10,621	28.4	22.8	48.8
51DCS	1,828	30.7	24.8	44.4
52Marquett	983	24.9	23.9	51.2
56MMCAA	1,338	34.0	17.6	48.4
58Monroe	2,317	32.6	21.8	45.6
61Muskegon	4,407	27.8	25.4	46.8
63Oakland	11,305	32.9	20.6	46.6
73Saginaw	2,834	32.5	19.6	47.9
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76Sanilac	619	32.1	20.8	47.0

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81Washtena	4,348	28.5	21.3	50.2
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2021 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Growth and Anemia Indicators by Local Agency

Children Aged < 5 Years ⁽²⁾

Comparison of Growth and Anemia Indicators ^(3,4)

Local Agency	Birth Weight ⁽⁵⁾			Height and Weight ^(6,7)						Anemia Low Hb/Hct ⁽⁸⁾		
	Low		High	Short Stature		Under-Weight	Obese	≥ 2 Yrs Overweight and Obese				
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
01DHD#2	286	10.8 (22)	7.3 (21)	153	15.7 (42)	7.8 (18)	15.7 (38)	45	*	*	34	*
02LMAS	123	15.4 (42)	9.8 (40)	194	12.9 (36)	6.7 (11)	16.0 (39)	76	*	*	38	*
04DHD#4	304	12.2 (32)	8.2 (30)	440	11.4 (29)	12.3 (36)	13.9 (35)	126	14.3 (13)	22.2 (25)	13	*
05NWMCHA	333	9.9 (14)	8.4 (32)	1,461	6.1 (9)	5.3 (6)	10.7 (23)	692	18.1 (27)	13.4 (1)	1,060	8.3 (6)
06CMDHD	919	10.6 (21)	8.1 (29)	1,295	12.5 (34)	7.0 (14)	12.6 (30)	438	13.9 (10)	21.0 (20)	279	6.8 (4)
07West UP	237	5.9 (3)	8.4 (32)	70	*	*	*	40	*	*	44	*
08Barry	350	11.4 (27)	7.7 (24)	404	7.2 (14)	6.9 (13)	11.4 (27)	141	21.3 (29)	16.3 (9)	24	*
09Bay	465	11.4 (27)	8.6 (35)	452	5.8 (8)	5.8 (7)	10.0 (17)	70	*	*	19	*
10Gr Trav	347	11.2 (25)	13.3 (45)	400	3.8 (1)	13.0 (37)	9.5 (14)	104	14.4 (14)	18.3 (16)	4	*
11Berrien	668	11.4 (27)	6.0 (14)	1,062	7.0 (13)	5.2 (5)	9.7 (15)	351	16.0 (22)	16.0 (7)	514	9.7 (9)
12BHS	743	8.5 (10)	9.4 (39)	694	13.3 (38)	6.2 (10)	10.2 (19)	144	11.8 (6)	18.1 (15)	151	9.3 (7)
13Calhoun	823	10.4 (19)	6.2 (15)	1,046	7.2 (14)	11.0 (29)	8.8 (10)	130	11.5 (4)	26.9 (29)	4	*
14Leelanau	99	*	*	174	5.2 (6)	11.5 (31)	13.8 (34)	74	*	*	79	*

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

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age <= 2.3rd percentile, underweight is defined as weight-for-length <= 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as >= 97.7th percentile.

(7) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age >= 85th to < 95th percentile, and obesity is defined as >= 95th percentile.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

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2021 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Growth and Anemia Indicators by Local Agency

Children Aged < 5 Years ⁽²⁾

Comparison of Growth and Anemia Indicators ^(3,4)

Local Agency	Birth Weight ⁽⁵⁾			Height and Weight ^(6,7)						Anemia Low Hb/Hct ⁽⁸⁾		
	Low	High		Short Stature	Under-Weight	Obese	≥ 2 Yrs Overweight and Obese					
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
15Intercar	1,785	11.0 (24)	8.5 (34)	5,053	6.1 (9)	4.7 (4)	11.4 (27)	2,134	13.8 (9)	15.7 (4)	3,149	18.3 (14)
17Chippewa	153	5.9 (3)	11.1 (44)	178	14.0 (40)	6.7 (11)	19.1 (42)	55	*	*	20	*
19Mid-Mich	557	14.0 (40)	7.9 (26)	531	8.1 (17)	12.2 (35)	8.7 (9)	114	14.0 (11)	15.8 (5)	59	*
21Delta	241	6.2 (5)	7.9 (26)	633	8.5 (20)	3.5 (1)	12.6 (30)	245	18.4 (28)	15.1 (3)	386	7.3 (5)
22Iron	154	5.8 (2)	7.8 (25)	116	12.1 (31)	6.0 (9)	6.9 (4)	31	*	*	18	*
25Genesee	2,116	12.6 (36)	4.6 (4)	1,392	12.3 (32)	7.1 (15)	15.0 (37)	376	15.4 (21)	25.5 (27)	233	15.0 (13)
30HDI	489	16.6 (45)	5.5 (9)	446	4.3 (2)	13.0 (37)	4.0 (1)	14	*	*	9	*
32Huron	113	2.7 (1)	10.6 (43)	245	4.9 (5)	3.7 (2)	9.4 (13)	92	*	*	145	5.5 (2)
33Ingham	1,517	11.7 (30)	5.7 (11)	1,932	8.5 (20)	10.6 (26)	9.7 (15)	379	11.9 (7)	21.4 (23)	33	*
35Keweenaw	21	*	*	31	*	*	*	9	*	*	0	*
37Ionia	244	8.2 (9)	9.8 (40)	415	4.6 (3)	8.7 (20)	8.9 (11)	110	10.0 (2)	16.4 (10)	177	3.4 (1)
38Jackson	851	12.0 (31)	7.3 (21)	1,403	5.2 (6)	10.5 (25)	9.3 (12)	344	14.2 (12)	19.2 (17)	350	6.6 (3)
39Kalamazo	1,035	12.5 (34)	6.3 (16)	1,067	4.7 (4)	11.6 (32)	4.5 (2)	82	*	*	8	*
41Kent	2,605	14.5 (41)	5.8 (12)	6,355	9.3 (23)	3.7 (2)	12.8 (33)	2,843	14.5 (16)	16.2 (8)	4,061	12.9 (12)

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(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

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

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age <= 2.3rd percentile, underweight is defined as weight-for-length <= 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as >= 97.7th percentile.

(7) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age >= 85th to < 95th percentile, and obesity is defined as >= 95th percentile.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

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	Low	High		Short Stature	Under-Weight	Obese	≥ 2 Yrs Overweight and Obese					
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
43DHD#10	1,311	10.9 (23)	8.7 (36)	1,126	10.2 (24)	7.2 (16)	13.9 (35)	397	15.1 (18)	21.2 (22)	190	10.5 (10)
44Lapeer	237	7.2 (7)	5.5 (9)	93	*	*	*	7	*	*	2	*
45Tuscola	218	6.4 (6)	9.2 (38)	456	7.7 (16)	7.2 (16)	12.7 (32)	166	15.1 (18)	19.3 (18)	113	10.6 (11)
46CAA	329	10.3 (18)	7.0 (20)	223	13.9 (39)	8.1 (19)	16.6 (41)	81	*	*	2	*
47Livingst	302	12.3 (33)	8.9 (37)	26	*	*	*	9	*	*	1	*
50Macomb	2,235	12.5 (34)	5.2 (6)	330	10.9 (25)	9.1 (21)	11.2 (26)	116	11.2 (3)	13.8 (2)	1	*
51DCS	459	10.0 (16)	5.2 (6)	653	6.9 (12)	10.3 (23)	10.6 (22)	184	17.4 (26)	15.8 (5)	135	9.6 (8)
52Marquett	200	8.0 (8)	10.0 (42)	333	8.4 (19)	9.6 (22)	5.7 (3)	86	*	*	27	*
56MMCAA	302	9.3 (12)	8.3 (31)	388	11.3 (28)	5.9 (8)	12.1 (29)	123	9.8 (1)	21.1 (21)	37	*
58Monroe	520	10.4 (19)	7.9 (26)	558	12.7 (35)	17.0 (42)	10.0 (17)	73	*	*	3	*
61Muskegon	1,017	10.1 (17)	6.7 (18)	1,302	8.1 (17)	11.7 (33)	8.4 (8)	180	11.7 (5)	17.8 (12)	14	*
63Oakland	2,544	13.1 (37)	5.9 (13)	2,639	11.0 (26)	11.7 (33)	10.9 (25)	660	14.4 (14)	17.9 (14)	12	*
73Saginaw	622	13.7 (39)	5.0 (5)	738	6.5 (11)	11.0 (29)	7.9 (7)	101	16.8 (24)	16.8 (11)	2	*
74St Clair	516	9.9 (14)	6.8 (19)	798	12.4 (33)	13.0 (37)	10.2 (19)	214	13.6 (8)	17.8 (12)	54	*

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(7) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age >= 85th to < 95th percentile, and obesity is defined as >= 95th percentile.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

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

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

WIC PNSS & PedNSS

Table 6F

2021 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Growth and Anemia Indicators by Local Agency

Children Aged < 5 Years ⁽²⁾

Comparison of Growth and Anemia Indicators ^(3,4)

Local Agency	Birth Weight ⁽⁵⁾			Height and Weight ^(6,7)						Anemia Low Hb/Hct ⁽⁸⁾		
	Low	High		Short Stature	Under-Weight	Obese	≥ 2 Yrs Overweight and Obese					
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
76Sanilac	137	9.5 (13)	3.6 (1)	69	*	*	*	30	*	*	44	*
78Shiawass	301	8.6 (11)	7.3 (21)	162	8.6 (22)	15.4 (41)	7.4 (5)	31	*	*	2	*
81Washtena	903	13.4 (38)	6.4 (17)	943	12.0 (30)	10.6 (26)	10.3 (21)	227	17.2 (25)	20.3 (19)	60	*
82Wayne	3,227	11.2 (25)	5.4 (8)	1,180	14.9 (41)	10.3 (23)	16.4 (40)	385	15.1 (18)	21.8 (24)	5	*
89Urban L	3,256	15.6 (43)	4.2 (3)	2,485	13.2 (37)	14.9 (40)	10.8 (24)	329	14.6 (17)	25.5 (27)	1	*
90Detroit	5,180	16.1 (44)	4.0 (2)	3,190	11.0 (26)	10.9 (28)	7.4 (5)	267	16.1 (23)	24.0 (26)	8	*
Michigan	41,412	12.5	6.2	45,361	9.2	8.5	10.9	12,936	14.6	17.9	11,637	13.0
National (Prior Year)	132,223	11.8	5.8	433,338	11.8	4.7	12.8	177,451	15.7	14.7	117,914	16.2

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

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

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

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age ≤ 2.3rd percentile, underweight is defined as weight-for-length ≤ 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as ≥ 97.7th percentile.

(7) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age ≥ 85th to < 95th percentile, and obesity is defined as ≥ 95th percentile.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

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

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

WIC PNSS & PedNSS

Table 7F

2021 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Breastfeeding, TV Viewing, and Smoking in Household by Local Agency ⁽²⁾

Children Aged < 5 Years ⁽³⁾

Comparison of Breastfeeding, TV Viewing, and Smoking in Household ^(4,5)

Local Agency	Breastfeeding ⁽⁶⁾				Exclusive Breastfeeding ⁽⁷⁾				≤ 2 Hours TV Viewing/Day ⁽⁸⁾		Smoking in Household			
	Number	% Ever Breastfed (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% (Rank)	Number	% (Rank)		
01DHD#2	285	61.4 (36)	171	25.1 (33)	197	12.2 (30)	102	22.5 (13)	132	10.6 (18)	585	87.0 (13)	1,198	3.1 (40)
02LMAS	123	77.2 (8)	100	35.0 (14)	92	*	65	*	83	*	375	82.1 (29)	672	3.0 (39)
04DHD#4	306	71.9 (20)	214	35.5 (11)	230	11.7 (32)	137	27.7 (3)	178	11.2 (14)	628	86.8 (15)	1,300	2.8 (37)
05NWMCHA	363	81.5 (4)	300	46.0 (2)	233	22.3 (4)	180	40.0 (1)	256	19.1 (1)	949	88.5 (7)	1,843	3.3 (43)
06CMDHD	919	63.2 (34)	592	31.1 (22)	670	14.6 (20)	359	22.8 (10)	467	11.6 (10)	2,137	87.6 (10)	4,142	2.6 (34)
07West UP	238	81.9 (3)	195	46.7 (1)	184	19.6 (6)	128	27.3 (4)	172	11.0 (15)	600	87.7 (9)	1,158	2.0 (22)
08Barry	361	82.5 (2)	168	23.8 (37)	249	16.5 (14)	88	*	148	9.5 (20)	808	83.3 (24)	1,649	1.8 (20)
09Bay	466	64.2 (31)	244	28.7 (27)	356	14.3 (23)	142	14.8 (26)	221	2.7 (40)	1,035	85.5 (19)	2,077	1.8 (20)
10Gr Trav	349	84.8 (1)	181	45.3 (3)	223	22.4 (3)	98	*	143	14.0 (4)	692	87.3 (11)	1,401	0.9 (12)
11Berrien	673	66.6 (27)	495	31.9 (20)	406	14.0 (25)	344	20.9 (14)	425	9.4 (22)	1,166	74.7 (37)	2,673	3.2 (42)
12BHS	753	73.7 (14)	548	31.6 (21)	510	16.1 (16)	330	19.4 (16)	417	13.2 (6)	1,698	82.6 (28)	3,472	2.0 (22)
13Calhoun	831	67.5 (26)	515	28.5 (28)	608	12.7 (28)	267	16.5 (24)	349	7.2 (30)	1,593	94.5 (2)	3,380	0.8 (5)
14Leelanau	100	81.0 (5)	64	*	52	*	35	*	54	*	246	81.7 (30)	486	3.5 (44)

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

(2) TV Viewing and Smoking in Household data are not reported by all contributors.

(3) Analyses based on one record per child.

(4) Excludes records with unknown data or errors.

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

(6) Infants born during the reporting period included in the Ever Breastfed analysis. Infants who turned 6 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 6 Months analysis. Children who turned 12 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 12 Months analysis.

(7) The analysis includes infants who were ever breastfed and who turned that age during the reporting period by/on their date of visit.

(8) Children aged 2 years and older included in the analyses.

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

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

WIC PNSS & PedNSS

Table 7F

2021 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Breastfeeding, TV Viewing, and Smoking in Household by Local Agency ⁽²⁾

Children Aged < 5 Years ⁽³⁾

Comparison of Breastfeeding, TV Viewing, and Smoking in Household ^(4,5)

Local Agency	Breastfeeding ⁽⁶⁾				Exclusive Breastfeeding ⁽⁷⁾				≤ 2 Hours TV Viewing/Day ⁽⁸⁾		Smoking in Household			
	Number	% Ever Breastfed (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% (Rank)	Number	% (Rank)		
15Inter-car	1,909	69.9 (23)	1,163	38.1 (7)	1,368	16.5 (14)	769	23.1 (9)	901	11.3 (12)	4,116	92.6 (3)	8,731	0.9 (12)
17Chippewa	154	68.2 (24)	87	*	99	*	52	*	72	*	308	86.4 (16)	658	3.5 (44)
19Mid-Mich	562	80.2 (6)	328	35.4 (12)	323	18.9 (7)	164	23.2 (8)	254	13.4 (5)	1,174	87.1 (12)	2,450	2.7 (36)
21Delta	242	64.0 (32)	186	39.2 (5)	179	15.6 (18)	121	18.2 (20)	141	11.3 (12)	433	82.9 (26)	968	2.2 (26)
22Iron	154	72.7 (16)	114	37.7 (8)	128	13.3 (26)	66	*	97	*	433	89.4 (6)	775	2.5 (33)
25Genesee	2,124	50.4 (45)	1,279	21.7 (39)	1,433	9.9 (39)	678	11.2 (31)	936	5.9 (31)	4,615	81.3 (31)	9,306	2.0 (22)
30HDI	492	50.6 (44)	318	20.1 (43)	300	11.7 (32)	252	12.3 (29)	286	4.2 (36)	1,246	74.5 (40)	2,349	3.1 (40)
32Huron	113	75.2 (12)	70	*	68	*	50	*	62	*	240	84.6 (21)	514	2.3 (28)
33Ingham	1,530	72.7 (16)	866	32.0 (19)	1,138	16.0 (17)	508	18.3 (19)	701	8.6 (25)	3,467	85.6 (18)	7,014	0.8 (5)
35Keweenaw	22	*	16	*	20	*	4	*	12	*	68	*	119	0.8 (5)
37Ionia	245	79.6 (7)	186	39.2 (5)	206	17.0 (12)	129	26.4 (5)	153	16.3 (2)	501	88.4 (8)	1,045	1.0 (15)
38Jackson	855	65.1 (30)	759	35.2 (13)	653	12.7 (28)	414	18.6 (18)	606	10.9 (16)	2,119	74.7 (37)	4,093	2.3 (28)
39Kalamazo	1,049	68.1 (25)	672	32.1 (18)	633	13.3 (26)	470	23.4 (7)	570	9.5 (20)	2,121	71.7 (42)	4,578	1.0 (15)

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Comparison of Breastfeeding, TV Viewing, and Smoking in Household ^(4,5)

Local Agency	Breastfeeding ⁽⁶⁾				Exclusive Breastfeeding ⁽⁷⁾				≤ 2 Hours TV Viewing/Day ⁽⁸⁾		Smoking in Household			
	Number	% Ever Breastfed (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% (Rank)	Number	% (Rank)		
41Kent	2,654	65.6 (29)	1,402	30.7 (24)	1,648	14.7 (19)	813	17.0 (23)	1,039	8.6 (25)	4,156	83.9 (23)	11,028	0.8 (5)
43DHD#10	1,318	74.4 (13)	831	34.4 (15)	1,152	18.8 (8)	511	29.7 (2)	695	11.8 (9)	3,123	89.8 (4)	6,157	2.3 (28)
44Lapeer	237	76.4 (9)	192	37.5 (9)	192	17.7 (9)	128	19.5 (15)	162	7.4 (29)	548	85.8 (17)	1,092	0.8 (5)
45Tuscola	219	76.3 (10)	148	32.4 (17)	169	16.6 (13)	80	*	129	7.8 (28)	593	89.7 (5)	1,128	2.4 (32)
46CAA	326	72.1 (18)	258	32.9 (16)	217	17.1 (11)	185	22.7 (11)	225	12.0 (8)	671	76.6 (36)	1,418	2.3 (28)
47Livingst	303	65.7 (28)	209	36.8 (10)	222	14.4 (22)	126	19.0 (17)	161	13.0 (7)	853	83.1 (25)	1,576	0.9 (12)
50Macomb	2,250	56.8 (39)	1,716	24.2 (36)	1,843	11.2 (35)	1,117	10.1 (33)	1,430	5.0 (33)	5,189	82.7 (27)	10,566	0.7 (4)
51DCS	462	72.1 (18)	224	25.4 (32)	338	17.5 (10)	109	17.4 (22)	178	9.0 (23)	807	84.4 (22)	1,823	0.8 (5)
52Marquett	202	72.8 (15)	114	30.7 (24)	171	24.6 (1)	35	*	72	*	513	97.9 (1)	970	0.5 (2)
56MMCAA	302	71.9 (20)	187	31.0 (23)	149	23.5 (2)	122	25.4 (6)	165	10.9 (16)	662	86.9 (14)	1,324	1.1 (18)
58Monroe	524	60.5 (38)	389	23.4 (38)	390	11.5 (34)	237	11.8 (30)	347	4.0 (37)	1,075	80.7 (32)	2,308	3.6 (46)
61Muskegon	1,022	53.3 (43)	567	20.3 (40)	808	10.3 (38)	353	12.7 (28)	437	4.6 (34)	2,061	68.6 (43)	4,381	2.6 (34)
63Oakland	2,589	70.1 (22)	1,672	29.7 (26)	1,614	14.2 (24)	1,140	16.5 (24)	1,391	9.9 (19)	5,382	74.7 (37)	11,227	0.5 (2)

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WIC PNSS & PedNSS

Table 7F

2021 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

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Children Aged < 5 Years ⁽³⁾

Comparison of Breastfeeding, TV Viewing, and Smoking in Household ^(4,5)

Local Agency	Breastfeeding ⁽⁶⁾				Exclusive Breastfeeding ⁽⁷⁾				≤ 2 Hours TV Viewing/Day ⁽⁸⁾		Smoking in Household			
	Number	% Ever Breastfed (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% (Rank)	Number	% (Rank)		
73Saginaw	622	63.5 (33)	376	24.5 (34)	328	11.9 (31)	264	10.2 (32)	319	5.6 (32)	1,377	78.4 (35)	2,796	2.8 (37)
74St Clair	517	60.9 (37)	420	24.5 (34)	473	11.0 (36)	264	14.8 (26)	367	8.7 (24)	1,175	79.0 (34)	2,314	3.8 (47)
76Sanilac	149	55.0 (41)	120	25.8 (31)	96	*	90	*	105	11.4 (11)	289	65.4 (44)	616	1.1 (18)
78Shiawass	305	55.7 (40)	198	26.8 (29)	241	14.5 (21)	137	18.2 (20)	165	8.5 (27)	701	73.9 (41)	1,335	0.4 (1)
81Washtena	923	75.4 (11)	581	39.9 (4)	649	21.0 (5)	345	22.6 (12)	452	14.2 (3)	2,192	85.2 (20)	4,332	1.0 (15)
82Wayne	3,316	61.8 (35)	2,972	26.3 (30)	3,213	11.0 (36)	1,872	9.7 (34)	2,537	4.5 (35)	9,399	79.6 (33)	18,342	0.8 (5)
89Urban L	3,219	53.5 (42)	1,954	20.3 (40)	1,814	7.7 (41)	1,274	7.8 (35)	1,595	3.7 (38)	6,573	54.1 (46)	13,938	2.2 (26)
90Detroit	5,250	47.6 (46)	2,804	20.3 (40)	3,190	8.8 (40)	1,899	6.9 (36)	2,423	3.5 (39)	10,210	61.7 (45)	21,101	2.0 (22)
Michigan	41,962	62.8	27,182	28.3	29,487	13.2	17,060	15.7	22,234	7.7	90,944	77.9	187,913	1.6
National (Prior Year)	132,310	65.7	63,488	26.1	72,112	13.7	50,061	17.9	57,863	7.3	205,447	78.2	571,316	3.8

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WIC PNSS & PedNSS

Table 6F

2019 - 2021 Pediatric Nutrition Surveillance (1)

Michigan

Comparison of Growth and Anemia Indicators by Local Agency

Children Aged < 5 Years (2)

Combined 3 Years

Comparison of Growth and Anemia Indicators (3,4)

Local Agency	Birth Weight (5)			Height and Weight (6,7)						Anemia Low Hb/Hct (8)		
	Low	High		Short Stature	Under-Weight	Obese	≥ 2 Yrs Overweight and Obese					
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
01DHD#2	899	8.2 (7)	7.6 (24)	2,224	8.0 (28)	2.5 (5)	12.1 (38)	990	19.6 (47)	14.4 (18)	1,374	11.7 (21)
02LMAS	400	9.8 (24)	10.8 (44)	1,170	6.2 (12)	4.1 (23)	11.1 (22)	499	16.8 (23)	16.4 (38)	630	4.9 (3)
04DHD#4	957	10.2 (25)	8.7 (36)	2,527	7.7 (25)	4.7 (34)	11.9 (35)	1,009	17.5 (32)	16.6 (40)	1,225	17.1 (37)
05NWMCHA	1,228	9.4 (19)	8.0 (28)	4,931	7.1 (16)	5.4 (39)	11.3 (25)	2,227	18.7 (42)	15.1 (27)	2,941	8.6 (12)
06CMDHD	2,733	9.4 (19)	7.6 (24)	7,530	8.2 (30)	4.0 (21)	11.1 (22)	3,148	16.5 (17)	16.4 (38)	3,894	8.7 (13)
07West UP	706	7.6 (2)	9.3 (39)	1,569	7.1 (16)	2.7 (6)	11.5 (28)	766	16.6 (20)	14.1 (12)	1,013	5.2 (5)
08Barry	1,172	11.1 (31)	8.1 (29)	3,652	7.3 (20)	3.4 (15)	11.0 (21)	1,553	19.1 (45)	15.1 (27)	1,737	5.4 (7)
09Bay	1,384	11.1 (31)	8.3 (32)	3,549	7.3 (20)	2.0 (2)	11.7 (31)	1,488	18.3 (37)	16.1 (35)	2,048	9.6 (16)
10Gr Trav	1,051	9.6 (21)	12.0 (45)	2,558	4.2 (1)	6.6 (45)	10.0 (7)	1,061	19.1 (45)	13.3 (8)	1,214	18.7 (39)
11Berrien	2,233	9.7 (23)	5.0 (5)	6,493	6.7 (15)	4.2 (24)	10.3 (12)	2,688	16.7 (22)	14.1 (12)	3,737	10.1 (18)
12BHS	2,571	8.5 (9)	8.3 (32)	6,410	8.9 (39)	3.5 (17)	11.4 (26)	2,538	16.4 (12)	15.0 (25)	3,363	12.9 (24)
13Calhoun	2,462	10.8 (29)	6.7 (17)	6,571	7.7 (25)	5.4 (39)	12.1 (38)	2,380	16.8 (23)	17.4 (43)	3,074	15.6 (33)
14Leelanau	318	8.8 (11)	9.1 (38)	972	6.0 (10)	4.3 (26)	12.9 (41)	418	18.4 (39)	17.9 (45)	543	8.8 (14)
15Intercar	5,779	9.3 (16)	8.4 (34)	20,399	5.7 (5)	3.5 (17)	11.4 (26)	9,031	15.4 (6)	14.7 (23)	12,487	20.8 (44)

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

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

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

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age <= 2.3rd percentile, underweight is defined as weight-for-length <= 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as >= 97.7th percentile.

(7) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age >= 85th to < 95th percentile, and obesity is defined as >= 95th percentile.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

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

WIC PNSS & PedNSS

Table 6F

2019 - 2021 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Growth and Anemia Indicators by Local Agency

Children Aged < 5 Years ⁽²⁾

Combined 3 Years

Comparison of Growth and Anemia Indicators ^(3,4)

Local Agency	Birth Weight ⁽⁵⁾			Height and Weight ^(6,7)						Anemia Low Hb/Hct ⁽⁸⁾		
	Low	High		Short Stature	Under- Weight	Obese	≥ 2 Yrs Overweight and Obese					
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
17Chippewa	480	7.3 (1)	12.9 (46)	1,319	8.9 (39)	4.3 (26)	16.0 (47)	596	16.4 (12)	17.6 (44)	595	15.1 (30)
19Mid-Mich	1,797	10.2 (25)	8.4 (34)	4,907	8.4 (34)	3.7 (19)	11.8 (32)	1,954	16.6 (20)	15.6 (31)	2,634	2.1 (1)
21Delta	755	8.1 (5)	7.3 (21)	2,247	9.6 (45)	2.1 (3)	13.0 (42)	915	17.4 (31)	15.0 (25)	1,328	9.2 (15)
22Iron	492	9.6 (21)	8.9 (37)	1,278	6.4 (13)	3.2 (13)	11.8 (32)	576	17.2 (29)	16.7 (41)	709	13.7 (25)
25Genesee	6,907	12.9 (40)	4.9 (4)	15,239	9.3 (42)	2.9 (10)	11.6 (29)	6,341	15.2 (5)	12.8 (5)	8,442	19.5 (41)
30HDI	1,572	13.6 (43)	4.2 (3)	3,852	5.8 (7)	5.9 (44)	9.6 (6)	1,385	15.6 (7)	13.4 (10)	1,872	7.3 (9)
32Huron	382	8.9 (13)	9.4 (41)	1,103	8.3 (31)	3.4 (15)	11.6 (29)	468	16.5 (17)	12.2 (2)	671	4.6 (2)
33Ingham	4,590	10.9 (30)	6.0 (12)	11,557	8.3 (31)	5.3 (38)	10.3 (12)	4,264	16.4 (12)	13.8 (11)	5,310	10.4 (19)
35Keweenaw	84	*	*	253	4.7 (2)	4.3 (26)	14.6 (45)	109	18.3 (37)	18.3 (46)	140	14.3 (27)
37Ionia	828	7.9 (4)	9.3 (39)	2,493	5.3 (3)	5.4 (39)	10.2 (10)	993	17.9 (34)	14.5 (21)	1,404	5.0 (4)
38Jackson	2,625	11.2 (33)	7.7 (26)	7,424	5.7 (5)	9.1 (47)	10.2 (10)	2,823	18.0 (36)	16.8 (42)	3,441	15.7 (34)
39Kalamazo	3,361	12.0 (36)	6.5 (16)	8,584	6.0 (10)	5.4 (39)	10.0 (7)	3,062	17.0 (26)	14.5 (21)	4,369	26.8 (45)
41Kent	8,432	13.8 (44)	5.6 (11)	25,970	9.5 (44)	2.8 (9)	12.0 (37)	11,413	15.8 (9)	14.4 (18)	15,756	11.8 (23)
43DHD#10	4,088	9.0 (14)	8.2 (30)	10,393	7.7 (25)	2.7 (6)	11.9 (35)	4,673	17.9 (34)	15.3 (29)	5,871	11.7 (21)

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

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

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

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age ≤ 2.3rd percentile, underweight is defined as weight-for-length ≤ 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as ≥ 97.7th percentile.

(7) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age ≥ 85th to < 95th percentile, and obesity is defined as ≥ 95th percentile.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

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

WIC PNSS & PedNSS

Table 6F

2019 - 2021 Pediatric Nutrition Surveillance (1)

Michigan

Comparison of Growth and Anemia Indicators by Local Agency

Children Aged < 5 Years (2)

Combined 3 Years

Comparison of Growth and Anemia Indicators (3,4)

Local Agency	Birth Weight (5)			Height and Weight (6,7)						Anemia Low Hb/Hct (8)		
	Low	High		Short Stature	Under-Weight	Obese	≥ 2 Yrs Overweight and Obese					
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
44Lapeer	796	9.3 (16)	7.8 (27)	2,116	5.8 (7)	3.1 (12)	9.4 (4)	888	16.3 (11)	14.2 (14)	1,218	15.1 (30)
45Tuscola	744	8.3 (8)	8.2 (30)	2,431	7.3 (20)	4.5 (31)	10.9 (19)	1,033	17.5 (32)	15.7 (33)	1,237	8.2 (11)
46CAA	1,102	8.1 (5)	7.3 (21)	2,453	8.8 (38)	3.0 (11)	13.3 (43)	1,059	16.8 (23)	16.3 (36)	1,354	28.1 (46)
47Livingst	934	12.5 (38)	7.1 (18)	2,102	8.3 (31)	2.3 (4)	8.9 (1)	963	16.4 (12)	12.1 (1)	1,384	7.5 (10)
50Macomb	7,118	12.0 (36)	5.3 (7)	14,407	7.2 (18)	3.3 (14)	11.1 (22)	5,820	14.4 (2)	13.3 (8)	7,782	11.6 (20)
51DCS	1,458	10.6 (27)	6.0 (12)	3,741	6.5 (14)	4.5 (31)	10.7 (17)	1,453	16.5 (17)	14.3 (16)	1,885	16.7 (36)
52Marquett	633	7.7 (3)	9.5 (42)	1,916	9.4 (43)	4.0 (21)	12.8 (40)	761	18.4 (39)	15.6 (31)	717	5.3 (6)
56MMCAA	863	8.8 (11)	10.0 (43)	2,404	10.1 (46)	2.7 (6)	13.6 (44)	946	17.3 (30)	15.5 (30)	1,096	14.8 (29)
58Monroe	1,709	10.6 (27)	7.1 (18)	4,090	8.9 (39)	4.9 (36)	10.5 (15)	1,535	17.1 (27)	14.8 (24)	2,048	14.4 (28)
61Muskegon	3,358	11.2 (33)	5.3 (7)	8,392	8.4 (34)	4.2 (24)	11.8 (32)	3,102	16.2 (10)	14.4 (18)	4,067	15.5 (32)
63Oakland	7,906	12.5 (38)	6.1 (14)	20,034	8.4 (34)	4.3 (26)	10.1 (9)	8,005	15.6 (7)	13.0 (7)	9,971	19.9 (43)
73Saginaw	1,979	13.1 (42)	5.3 (7)	5,074	5.6 (4)	5.4 (39)	9.5 (5)	1,733	17.1 (27)	14.3 (16)	2,503	16.2 (35)
74St Clair	1,822	8.7 (10)	7.2 (20)	4,885	8.0 (28)	5.2 (37)	10.7 (17)	1,803	19.0 (44)	16.3 (36)	2,357	9.7 (17)
76Sanilac	482	9.3 (16)	6.2 (15)	1,109	13.5 (47)	1.3 (1)	15.0 (46)	495	18.6 (41)	21.2 (47)	681	13.7 (25)

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

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

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

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age <= 2.3rd percentile, underweight is defined as weight-for-length <= 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as >= 97.7th percentile.

(7) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age >= 85th to < 95th percentile, and obesity is defined as >= 95th percentile.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

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

WIC PNSS & PedNSS

Table 6F

2019 - 2021 Pediatric Nutrition Surveillance (1)

Michigan

Comparison of Growth and Anemia Indicators by Local Agency

Children Aged < 5 Years (2)

Combined 3 Years

Comparison of Growth and Anemia Indicators (3,4)

Local Agency	Birth Weight (5)			Height and Weight (6,7)						Anemia Low Hb/Hct (8)		
	Low	High		Short Stature	Under-Weight	Obese	≥ 2 Yrs Overweight and Obese					
	Number	% <2500 g (Rank)	% >4000 g (Rank)	Number	% (Rank)	% (Rank)	% (Rank)	Number	% Overweight (Rank)	% Obese (Rank)	Number	% (Rank)
78Shiawass	962	9.0 (14)	7.5 (23)	2,350	5.9 (9)	4.3 (26)	10.3 (12)	1,008	18.8 (43)	15.9 (34)	1,353	7.1 (8)
81Washtena	2,790	12.9 (40)	5.2 (6)	6,590	7.2 (18)	4.6 (33)	9.3 (3)	2,682	16.4 (12)	12.7 (4)	3,506	19.0 (40)
82Wayne	11,930	11.4 (35)	5.5 (10)	27,798	7.3 (20)	3.7 (19)	10.5 (15)	11,861	14.8 (4)	12.9 (6)	15,716	18.3 (38)
89Urban L	8,499	15.9 (46)	4.0 (1)	21,362	8.7 (37)	7.0 (46)	10.9 (19)	8,034	13.7 (1)	14.2 (14)	11,152	35.0 (47)
90Detroit	17,318	14.7 (45)	4.1 (2)	33,499	7.5 (24)	4.7 (34)	9.1 (2)	12,275	14.4 (2)	12.3 (3)	16,410	19.8 (42)
Michigan	132,727	11.9	6.1	334,039	7.7	4.3	10.9	134,873	16.0	15.3	178,304	16.4

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

(2) Analyses based on one record per child.

(3) Excludes records with unknown data or errors.

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

(5) Infants born during the reporting period included in the analysis.

(6) Based on 2006 WHO growth chart percentiles for children under 2 years of age; short stature is defined as length-for-age ≤ 2.3rd percentile, underweight is defined as weight-for-length ≤ 2.3rd percentile, and high weight-for-length (labeled as "Obese") is defined as ≥ 97.7th percentile.

(7) Based on 2000 CDC growth chart percentiles for children 2 years of age and older; short stature is defined as height-for-age < 5th percentile, underweight is defined as BMI-for-age < 5th percentile, overweight is defined as BMI-for-age ≥ 85th to < 95th percentile, and obesity is defined as ≥ 95th percentile.

(8) Based on 1998 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States", altitude adjusted, children 6 months of age and older included in the analysis.

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

WIC PNSS & PedNSS

Table 7F

2019 - 2021 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Breastfeeding, TV Viewing, and Smoking in Household by Local Agency ⁽²⁾

Children Aged < 5 Years ⁽³⁾

Combined 3 Years

Comparison of Breastfeeding, TV Viewing, and Smoking in Household ^(4,5)

Local Agency	Breastfeeding ⁽⁶⁾				Exclusive Breastfeeding ⁽⁷⁾				≤ 2 Hours TV Viewing/Day ⁽⁸⁾		Smoking in Household			
	Number	% Ever Breastfed (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% (Rank)	Number	% (Rank)		
01DHD#2	901	63.9 (33)	607	28.5 (35)	668	12.3 (34)	397	21.2 (24)	518	9.7 (29)	2,063	86.5 (18)	4,150	4.0 (45)
02LMAS	399	75.7 (16)	314	31.2 (28)	316	15.5 (20)	199	20.6 (27)	269	11.9 (21)	1,049	82.0 (33)	1,986	2.8 (29)
04DHD#4	959	72.5 (20)	683	35.1 (18)	761	12.4 (33)	439	22.8 (19)	579	12.3 (19)	2,079	86.4 (19)	4,186	3.7 (39)
05NWMCHA	1,310	81.0 (7)	962	46.9 (3)	873	20.4 (6)	572	38.3 (1)	813	20.0 (2)	3,134	87.5 (15)	6,230	3.7 (39)
06CMDHD	2,741	71.0 (24)	2,057	35.3 (17)	2,209	15.1 (23)	1,266	23.6 (16)	1,689	11.5 (22)	6,463	87.5 (15)	12,678	3.7 (39)
07West UP	708	82.2 (4)	586	47.6 (2)	575	23.8 (3)	387	28.2 (11)	506	15.8 (7)	1,783	89.3 (6)	3,436	1.7 (16)
08Barry	1,206	81.0 (7)	802	36.3 (12)	882	17.6 (15)	460	22.6 (20)	682	10.0 (26)	2,823	84.6 (27)	5,649	1.7 (16)
09Bay	1,391	63.7 (34)	749	28.3 (36)	1,152	14.1 (29)	418	21.1 (25)	698	4.6 (43)	3,217	87.7 (14)	6,411	2.4 (23)
10Gr Trav	1,059	82.7 (1)	626	47.8 (1)	730	25.1 (1)	367	36.2 (3)	503	13.1 (14)	2,162	89.5 (5)	4,404	1.1 (5)
11Berrien	2,245	69.8 (26)	1,558	33.4 (24)	1,206	14.6 (26)	1,125	21.1 (25)	1,325	10.1 (25)	4,137	76.2 (41)	9,111	3.6 (38)
12BHS	2,600	76.8 (12)	1,729	33.3 (25)	1,850	15.9 (17)	1,082	23.8 (15)	1,393	12.7 (16)	5,581	83.9 (28)	11,560	2.5 (24)
13Calhoun	2,487	69.6 (27)	1,623	30.6 (31)	1,853	14.5 (27)	928	19.7 (28)	1,209	9.2 (31)	5,087	92.1 (3)	10,480	1.1 (5)
14Leelanau	319	82.4 (3)	229	46.3 (4)	212	19.8 (7)	135	37.8 (2)	196	18.9 (3)	808	78.6 (39)	1,590	3.8 (42)

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(2) TV Viewing and Smoking in Household data are not reported by all contributors.

(3) Analyses based on one record per child.

(4) Excludes records with unknown data or errors.

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

(6) Infants born during the reporting period included in the Ever Breastfed analysis. Infants who turned 6 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 6 Months analysis. Children who turned 12 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 12 Months analysis.

(7) The analysis includes infants who were ever breastfed and who turned that age during the reporting period by/on their date of visit.

(8) Children aged 2 years and older included in the analyses.

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

WIC PNSS & PedNSS

Table 7F

2019 - 2021 Pediatric Nutrition Surveillance ⁽¹⁾

Michigan

Comparison of Breastfeeding, TV Viewing, and Smoking in Household by Local Agency ⁽²⁾

Children Aged < 5 Years ⁽³⁾

Combined 3 Years

Comparison of Breastfeeding, TV Viewing, and Smoking in Household ^(4,5)

Local Agency	Breastfeeding ⁽⁶⁾				Exclusive Breastfeeding ⁽⁷⁾				≤ 2 Hours TV Viewing/Day ⁽⁸⁾		Smoking in Household			
	Number	% Ever Breastfed (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% (Rank)	Number	% (Rank)		
15Intercar	6,119	73.6 (18)	3,851	36.0 (13)	4,716	15.2 (21)	2,478	24.9 (13)	3,114	13.1 (14)	13,342	92.7 (2)	27,561	1.1 (5)
17Chippewa	481	63.4 (35)	301	33.6 (22)	343	20.7 (4)	189	33.3 (5)	270	21.9 (1)	1,140	89.7 (4)	2,267	4.8 (47)
19Mid-Mich	1,806	82.6 (2)	1,177	37.6 (8)	1,157	18.0 (13)	651	29.0 (9)	965	13.6 (11)	3,926	84.8 (24)	8,169	2.8 (29)
21Delta	759	71.5 (21)	545	38.3 (7)	566	13.1 (32)	386	21.8 (22)	438	12.6 (17)	1,431	86.0 (20)	3,088	2.8 (29)
22Iron	494	71.3 (22)	343	39.4 (6)	417	18.5 (10)	229	34.9 (4)	298	18.8 (4)	1,323	89.3 (6)	2,450	2.3 (21)
25Genesee	6,932	53.1 (45)	4,529	23.2 (43)	4,414	11.0 (39)	2,754	12.5 (40)	3,540	6.9 (37)	14,059	82.3 (30)	29,227	2.3 (21)
30HDI	1,575	57.1 (41)	1,035	19.0 (46)	968	9.0 (44)	708	10.5 (43)	955	3.9 (46)	3,666	74.5 (44)	7,208	3.1 (34)
32Huron	383	76.5 (13)	277	36.8 (11)	228	12.3 (34)	180	12.2 (41)	235	6.4 (38)	863	84.8 (24)	1,759	3.8 (42)
33Ingham	4,638	73.6 (18)	2,821	35.0 (20)	3,123	17.3 (16)	1,777	19.1 (30)	2,322	10.4 (24)	9,621	89.1 (8)	19,953	1.1 (5)
35Keweenaw	87	*	66	*	48	*	42	*	59	*	209	84.7 (26)	406	2.0 (19)
37Ionia	834	81.5 (5)	581	35.5 (15)	696	17.8 (14)	373	28.4 (10)	505	14.1 (10)	1,817	87.1 (17)	3,676	1.8 (18)
38Jackson	2,640	67.6 (30)	2,373	35.9 (14)	2,124	12.1 (36)	1,344	21.7 (23)	1,917	12.4 (18)	6,295	76.1 (42)	12,244	2.9 (32)
39Kalamazo	3,427	67.3 (32)	2,262	31.2 (28)	2,141	13.9 (30)	1,513	23.1 (18)	1,955	8.4 (34)	6,664	75.3 (43)	14,726	1.6 (15)
41Kent	8,555	71.2 (23)	5,869	29.7 (32)	6,010	14.9 (24)	3,630	16.8 (35)	4,817	8.7 (32)	16,278	85.0 (23)	37,548	1.0 (3)

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(7) The analysis includes infants who were ever breastfed and who turned that age during the reporting period by/on their date of visit.

(8) Children aged 2 years and older included in the analyses.

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WIC PNSS & PedNSS

Table 7F

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Michigan

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Local Agency	Breastfeeding ⁽⁶⁾				Exclusive Breastfeeding ⁽⁷⁾				≤ 2 Hours TV Viewing/Day ⁽⁸⁾		Smoking in Household			
	Number	% Ever Breastfed (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% (Rank)	Number	% (Rank)		
43DHD#10	4,113	75.5 (17)	2,745	37.4 (9)	3,538	18.4 (11)	1,749	29.6 (8)	2,342	13.4 (12)	9,791	88.8 (11)	19,222	3.0 (33)
44Lapeer	800	78.4 (9)	676	37.4 (9)	716	18.2 (12)	437	19.0 (31)	590	8.6 (33)	1,914	88.9 (9)	3,844	0.9 (1)
45Tuscola	746	76.9 (11)	547	34.4 (21)	606	14.7 (25)	344	16.3 (38)	468	5.3 (42)	1,874	88.7 (12)	3,627	2.7 (27)
46CAA	1,103	68.8 (29)	791	31.1 (30)	709	18.6 (9)	558	23.3 (17)	713	12.3 (19)	2,186	78.6 (39)	4,673	2.7 (27)
47Livingst	937	76.1 (15)	688	33.6 (22)	707	15.8 (18)	458	22.1 (21)	590	13.2 (13)	2,384	85.8 (21)	4,698	1.2 (11)
50Macomb	7,188	58.3 (40)	5,097	25.0 (41)	5,519	10.6 (41)	3,659	12.9 (39)	4,452	7.4 (36)	14,162	79.7 (36)	30,674	1.2 (11)
51DCS	1,464	69.3 (28)	855	29.1 (33)	1,082	15.7 (19)	489	19.2 (29)	694	9.5 (30)	2,786	85.7 (22)	6,035	1.0 (3)
52Marquett	637	81.5 (5)	390	35.1 (18)	523	19.7 (8)	185	33.0 (6)	278	14.7 (9)	1,504	96.5 (1)	2,969	1.3 (13)
56MMCAA	865	77.1 (10)	598	35.5 (15)	514	24.3 (2)	438	30.8 (7)	534	16.5 (5)	1,867	88.5 (13)	3,844	1.5 (14)
58Monroe	1,721	62.9 (37)	1,313	26.4 (37)	1,229	11.2 (38)	872	16.4 (36)	1,151	5.7 (41)	3,436	82.6 (29)	7,298	3.8 (42)
61Muskegon	3,370	61.7 (39)	2,015	25.6 (39)	2,484	10.7 (40)	1,331	18.1 (33)	1,617	8.0 (35)	6,550	71.4 (45)	13,926	3.2 (35)
63Oakland	8,034	71.0 (24)	5,604	31.4 (27)	4,821	14.4 (28)	4,154	18.6 (32)	4,849	11.0 (23)	16,681	79.6 (37)	34,723	0.9 (1)
73Saginaw	1,991	62.5 (38)	1,336	23.6 (42)	1,182	9.7 (43)	1,046	11.7 (42)	1,153	6.4 (38)	3,880	80.5 (34)	8,422	2.6 (25)
74St Clair	1,831	63.4 (35)	1,273	25.6 (39)	1,518	11.6 (37)	774	16.4 (36)	1,125	9.9 (28)	3,659	78.7 (38)	7,654	4.0 (45)

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

(2) TV Viewing and Smoking in Household data are not reported by all contributors.

(3) Analyses based on one record per child.

(4) Excludes records with unknown data or errors.

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

(6) Infants born during the reporting period included in the Ever Breastfed analysis. Infants who turned 6 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 6 Months analysis. Children who turned 12 months of age during the reporting period by/on their date of visit included in the Breastfed At Least 12 Months analysis.

(7) The analysis includes infants who were ever breastfed and who turned that age during the reporting period by/on their date of visit.

(8) Children aged 2 years and older included in the analyses.

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

WIC PNSS & PedNSS

Table 7F

2019 - 2021 Pediatric Nutrition Surveillance (1)

Michigan

Comparison of Breastfeeding, TV Viewing, and Smoking in Household by Local Agency (2)

Children Aged < 5 Years (3)

Combined 3 Years

Comparison of Breastfeeding, TV Viewing, and Smoking in Household (4,5)

Local Agency	Breastfeeding (6)				Exclusive Breastfeeding (7)				≤ 2 Hours TV Viewing/Day (8)		Smoking in Household			
	Number	% Ever Breastfed (Rank)	Number	% Breastfed At Least 6 Months (Rank)	Number	% Breastfed At Least 12 Months (Rank)	Number	% Breastfed At Least 3 Months (Rank)	Number	% (Rank)	Number	% (Rank)		
76Sanilac	497	53.3 (44)	335	28.7 (34)	330	13.9 (30)	228	25.4 (12)	300	16.0 (6)	1,033	82.3 (30)	2,129	2.1 (20)
78Shiawass	968	67.4 (31)	662	32.2 (26)	814	15.2 (21)	438	18.0 (34)	562	10.0 (26)	2,185	82.1 (32)	4,316	2.6 (25)
81Washtena	2,822	76.4 (14)	1,954	41.0 (5)	1,975	20.5 (5)	1,391	23.9 (14)	1,604	15.1 (8)	6,080	88.9 (9)	12,471	1.1 (5)
82Wayne	12,288	57.1 (41)	9,909	25.9 (38)	9,405	10.3 (42)	7,067	10.0 (44)	8,663	5.9 (40)	28,213	80.3 (35)	57,494	1.1 (5)
89Urban L	8,765	54.3 (43)	6,232	20.4 (45)	5,540	7.3 (46)	4,199	7.5 (46)	5,277	4.2 (44)	18,593	57.9 (47)	39,575	3.4 (37)
90Detroit	17,536	50.4 (46)	9,327	22.1 (44)	9,757	7.9 (45)	6,587	8.0 (45)	7,968	4.1 (45)	30,031	63.0 (46)	64,730	3.2 (35)
Michigan	134,815	64.6	90,943	29.4	93,252	13.1	60,462	16.8	76,726	8.8	279,931	79.6	584,738	2.2

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