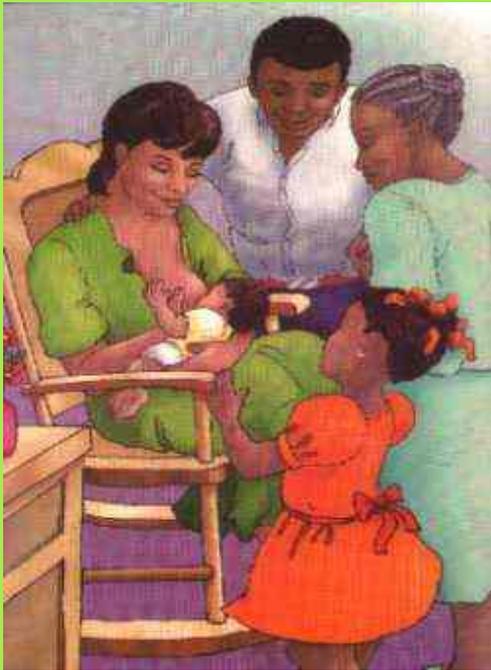


WIC Conference  
2014



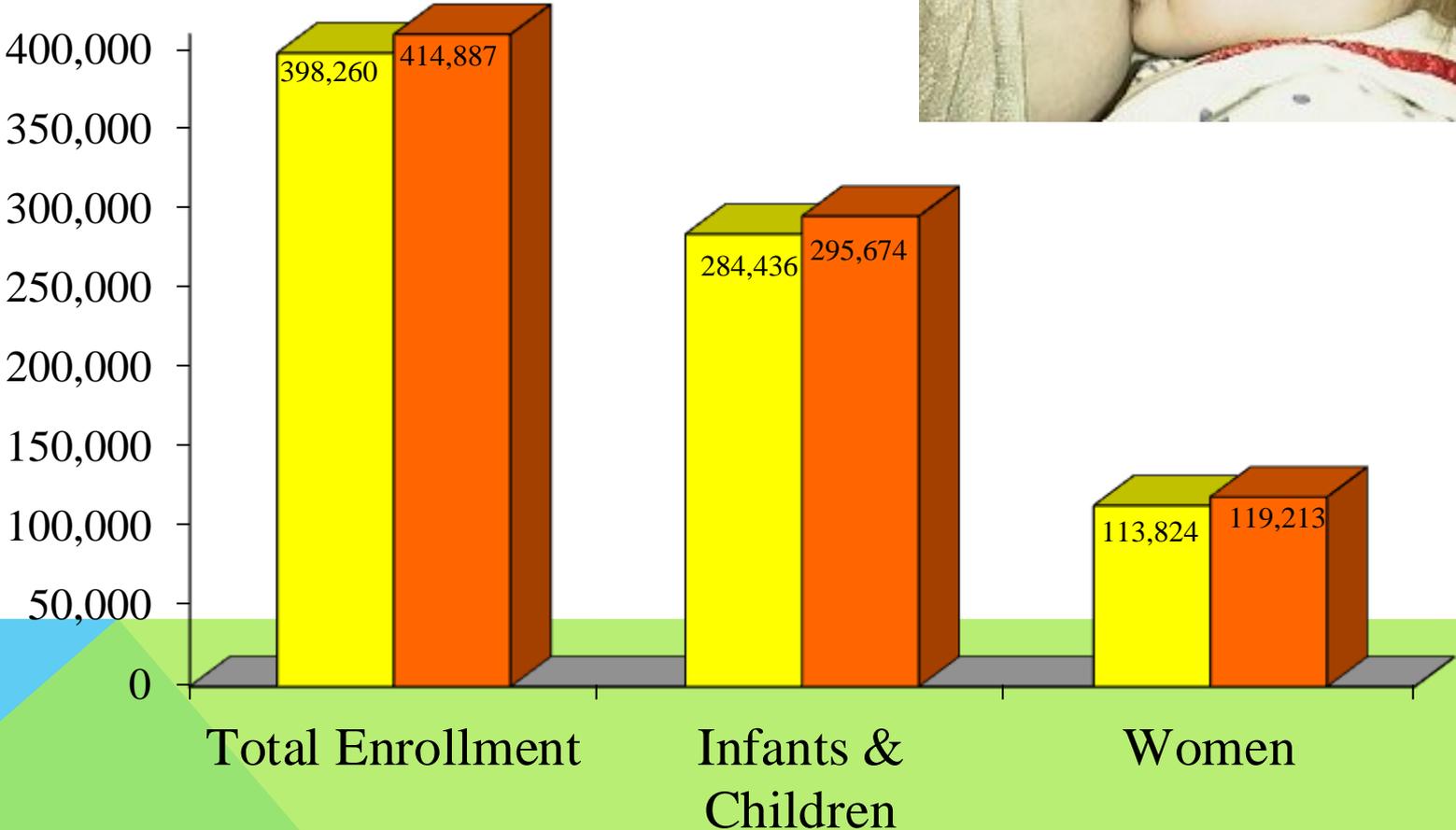
# Michigan WIC Data; Leading The Future



Kobra Eghtedary, PhD  
Data, Research & System Management Director  
Michigan WIC Program  
(517)335-9834

[Eghtedaryk@michigan.gov](mailto:Eghtedaryk@michigan.gov)

# 2013 WIC Enrollment



Feb. 2014 Enrollment: 282,252  
Close out Participation: 245,904

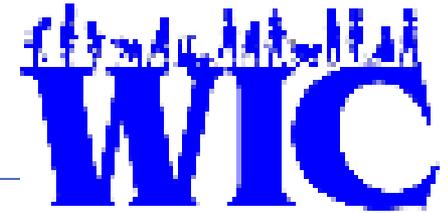
■ 2000 Enrollment ■ 2013 Enrollment

# MI-PNSS & PEDNSS



- When CDC stopped producing the PNSS and PedNSS reports in 2012, a vital WIC program planning and evaluation data source was lost. The goal of MI-PNSS & PedNSS is to collect, analyze, and disseminate data to guide public health policy and action related to WIC population. MI-PNSS & PedNSS information is used for strategic planning, implementation of program priorities and monitoring WIC program effectiveness. The data is also used in evaluation of Block grants and public health programs.
- The MI-PNSS & PedNSS application has the capability to generate nutrition surveillance reports nationally, defined as all participating contributors and for each contributor. A contributor may be a state, US territory or a tribal government. Each contributor can receive more specific reports by state, county, local agency or clinic.

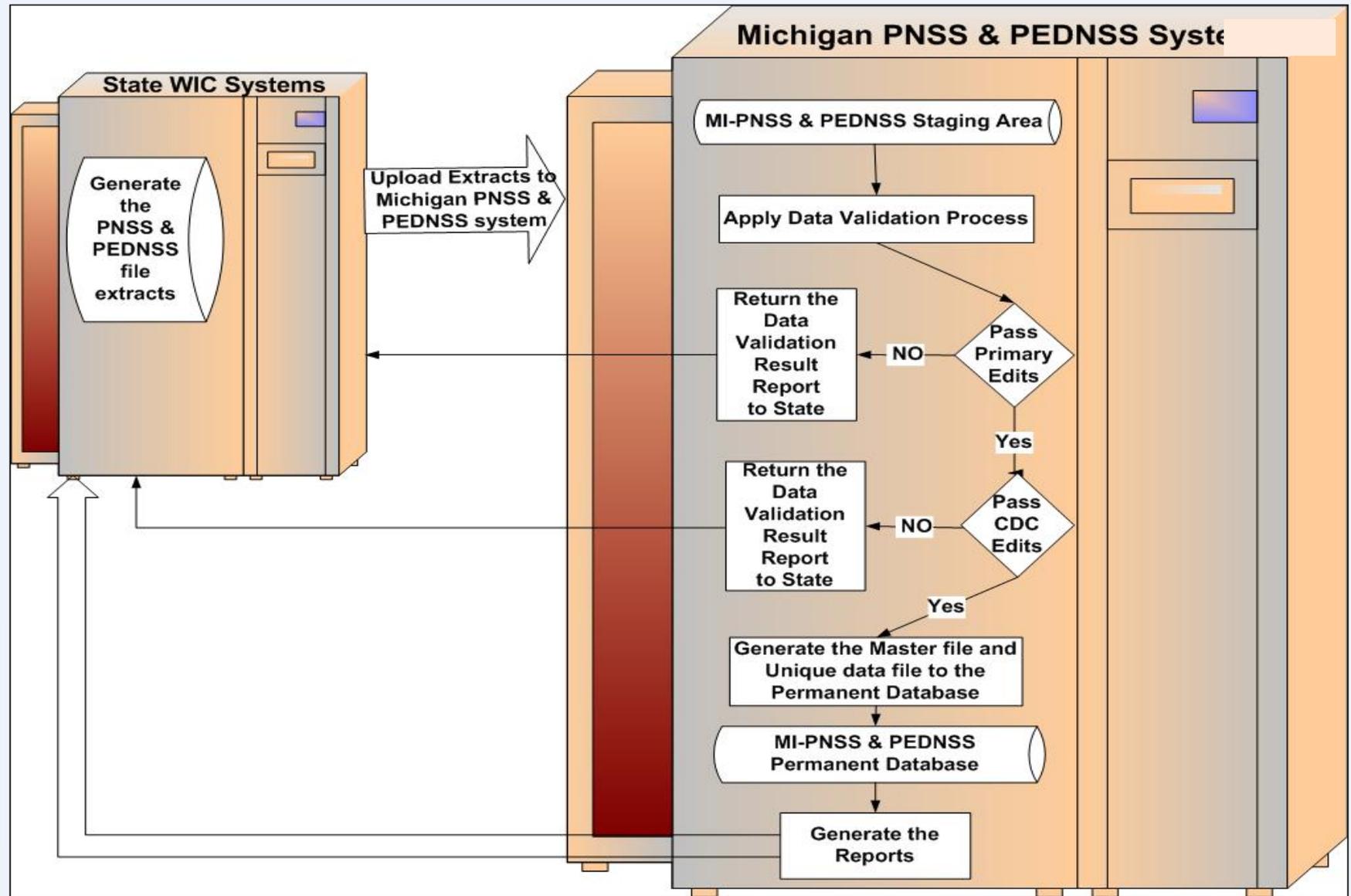
# MI-PNSS & PEDNSS



- Web-based Application – Access through Michigan Secure Single Sign On (SSO)
- Easy Navigation Features
- Process Automation
  - ❖ Secure Role-Based Log in
  - ❖ Program Rules Application
  - ❖ Data Edits & Validation
  - ❖ Data Integrity
  - ❖ Historic Information
  - ❖ Report Generation



# MI-PNSS & PEDNSS



# Drum Roll, Please.....



Browser address bar: [http://localhost/MIWIC\\_SP1/MIWIC.aspx](http://localhost/MIWIC_SP1/MIWIC.aspx) MI-WIC

File Edit View Favorites Tools Help

## MI-WIC

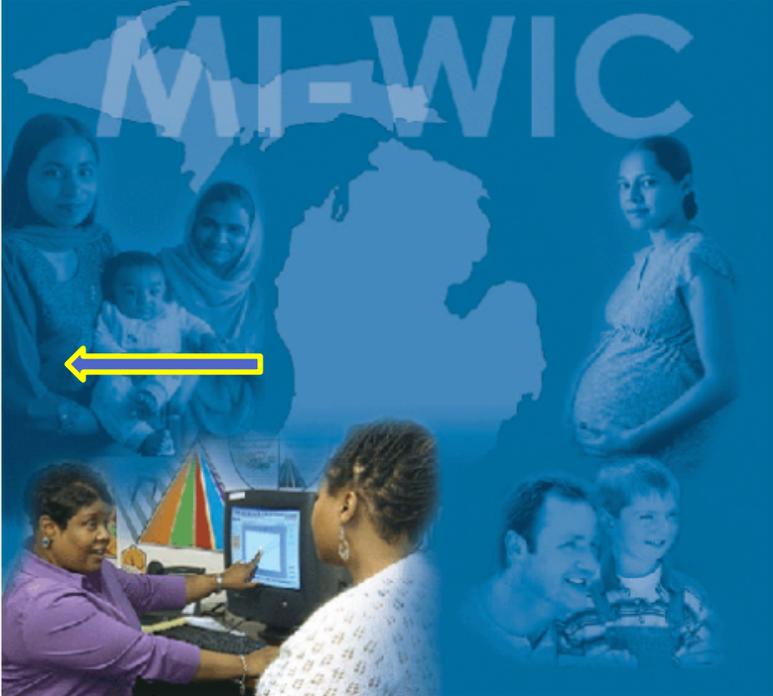
Michigan's Management Information for WIC

Michigan Department of Community Health



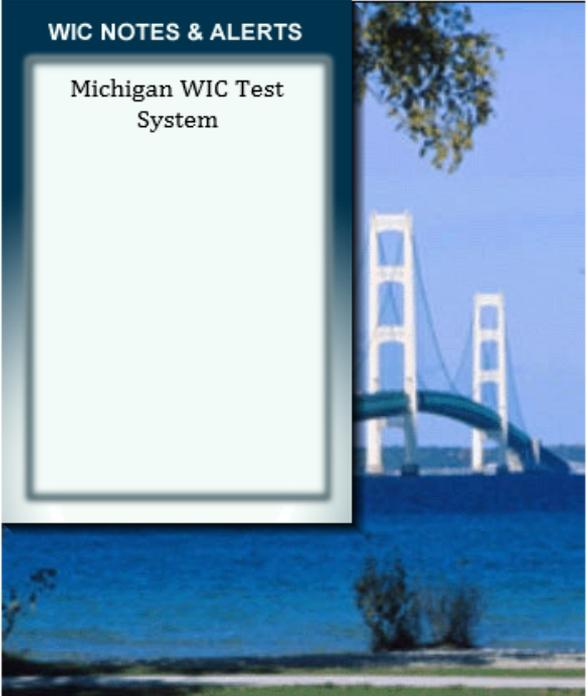
- CLINIC
- ADMIN
- NUTRITION
- VENDOR
- MI PNSS & PEDNSS

Many documents on this site are PDF files which require the use of the free Adobe Acrobat Reader.



### WIC NOTES & ALERTS

Michigan WIC Test System



*Access to this system is restricted to authorized users only and limited to approved business purposes. By using this system, you expressly consent to the monitoring of all activities. Any unauthorized access or use of this system is prohibited and could be subject to criminal and civil penalties. All records, reports, e-mail, software, and other data generated by or residing upon this system are the property of the State of Michigan and may be used by the State of Michigan for any purpose.*



# MI-PNSS & PEDNSS

http://localhost/MIWIC\_SP1/MIWIC.aspx

File Edit View Favorites Tools Help



## Michigan's Management Information for WIC

Michigan Department of Community Health



CLINIC

ADMIN

NUTRITION

VENDOR

MI - PNSS  
PEDNSS

Many documents on this site are PDF files which require the use of the free Adobe Acrobat Reader.



## Women, Infants and Children *For Our Kids' Sake*

### MI - PNSS & PEDNSS

000000 State Agency

OK

### WIC NOTES & ALERTS

Michigan WIC Test System



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# File Upload



File Upload Rules - Windows Internet Explorer

MI-WIC Management Information Michigan WIC

File Upload Data Quality Reports Help Thu 9/12/2013

File Upload

Data Quality

Logoff

**File Upload:**

State\*: MI

Year\*: 2012 Quarter\*: Q1

Select Activity\*:  PNSS  PEDNSS

File Type\*:  Data File  Code File

Select File to Upload\*: E:\PedNSS\PEDNSS\_112012\_3312012.TXT

**Uploaded Files:**

Date Uploaded	State	Year	Quarter	Activity	File Uploaded	File Renamed	File Status
08/28/2013	MI	2012	Q4	PEDNSS	PEDNSS_1012012_1...	MI_PEDNSS_2012_Q4...	Unique Master G...
08/28/2013	MI	2012	Q3	PEDNSS	PEDNSS_712012_93...	MI_PEDNSS_2012_Q3...	Unique Master G...
08/28/2013	MI	2012	Q2	PEDNSS	PEDNSS_412012_63...	MI_PEDNSS_2012_Q2...	Unique Master G...
08/28/2013	MI	2012	Q1	PEDNSS	PEDNSS_112012_33...	MI_PEDNSS_2012_Q1...	Unique Master G...
08/28/2013	MI	2012	Q4	PNSS	PNSS_10012012_123...	MI_PNSS_2012_Q4.dat	Scheduled to Mas...
08/28/2013	MI	2012	Q3	PNSS	PNSS_07012012_093...	MI_PNSS_2012_Q3.dat	Scheduled to Mas...
08/28/2013	MI	2012	Q2	PNSS	PNSS_412012_63020...	MI_PNSS_2012_Q2.dat	Scheduled to Mas...
08/28/2013	MI	2012	Q1	PNSS	PNSS_01012012_033...	MI_PNSS_2012_Q1.dat	Scheduled to Mas...
08/28/2013	MI	2010	Q1	PNSS	PNSS_01012010_033...	MI_PNSS_2010_Q1.dat	Scheduled to Mas...

Version: 5.0.0.1

BALYAMR1234 MI miwics1

# Data Quality Details



-- Webpage Dialog

**Data Quality Details:**

State: **MI**      Activity: **PEDNSS**      Year: **2012**      Quarter: **Q1**

**Error Code: Mis-coded Data**

Field Name	Number of Records	Threshold %	% Found
MONTHLY_HOUSEHOLD_INCOME	14789	5	13.90
▶ WEIGHT_ENGLISH	355	5	0.30

**Detail Record:**

OOD_S...	MEDICIA...	TANF	BIRTHW...	BIRTHW...	HEIGHT_...	HEIGHT_...	WEIGHT...	WEIGHT...	DATE_H.
	2	2			999		9999		01092012
	1	2			999		9999		02082012
	1	2			999		9999		01192012
	1	2			999		9999		02082012
	1	2			999		9999		03142012
	1	2			999		9999		01112012
	1	2			390		9999		03092012
	1	2			999		9999		01262012

WEIGHT\_ENGLISH

Display      Export      Cancel

# Reports



MI PNSS & PEDNSS - Windows Internet Explorer



- File Upload
- Data Quality
- Logoff

File File Upload Data Quality Reports Help Tue 2/25/2014

- PNSS
- PEDNSS
- State
- Local Agency
- County
- Clinic

## Michigan PNSS & PEDNSS

# Proposal For Future Plans



## Phase One-Pilot

- Evaluate the effectiveness of MI-PNSS & PedNSS
- Evaluate the operation cost of the project
- Process 2010, 2011 & 2012 data from MW Regional States: Illinois , Indiana, Minnesota, Ohio & Wisconsin
- Our Goal is to have the PNSS & PedNSS reports generated for the participating states by spring 2014



# Progress Report



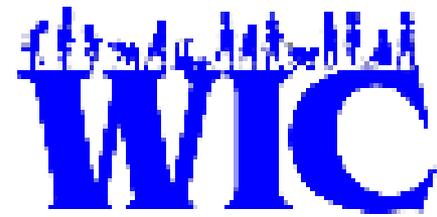
- Pilot phase has started with MWR States.
- Illinois, Indiana, Minnesota , Ohio & Wisconsin have agreed to participate in the pilot project.
- MOUs/data sharing agreements were signed with all five states.
- Documents for access request to the application have been sent to all five states.
- Added Hawaii to the Pilot States.



# Progress Report

- All participating States obtained access through the State secure “Single Sign On” process & have submitted the data extracts to MI-PNSS & PedNSS application for years 2010 to 2012.
- Data quality reports and Master files for years 2010 to 2012 PNSS & PedNSS are generated for IN, & WI.
- Indiana & Wisconsin PNSS & PedNSS reports for years 2010 to 2012 are generated and the initial UAT is completed. The reports are going through secondary UAT with corresponding state experts.
- Hawaii and Minnesota State level reports for 2011 and 2012 have been generated and are being validated
- Ohio and Illinois data files are being processed

# Progress Report



- Local Agencies participating in Report Validation:
  - Grand Traverse County Health Department–  
Melissa Goodchild
  - Health Department of Northwest Michigan –  
Suzette Daly
  - Ingham County Health Department – Tracie  
Bolton
  - Oakland County Health Division, Robert Crotty,  
Contessa Rudolph
  - Washtenaw Co. Public Health – Gayathri Akella
  - PNSS and PedNSS reports are validated at LA,  
Clinic and County level



# Reports – PNSS 2013



**Table 1C**  
**2013 Pregnancy Nutrition Surveillance** <sup>(1)</sup>  
**Michigan**

Run Date: 07/02/2014

**Summary of Demographic Indicators** <sup>(2)</sup>

Total Records	Number	%
Complete Records	50,594	75.2
Prenatal Records	4,645	6.9
Postpartum Records	12,022	17.9
<b>Total Records Accepted</b>	<b>67,261</b>	

Source of Data	Number	%
WIC	67,261	100.0
Maternal Health	0	0.0
Other	0	0.0
<b>Total</b>	<b>67,261</b>	<b>100.0</b>
<i>Excluded Unknowns: 0 0.0</i>		

Race/Ethnic Distribution	Number	%
White, Not Hispanic	37,294	55.8
Black, Not Hispanic	19,000	28.4
Hispanic	6,629	9.9
American Indian/Alaska Native	249	0.4
Asian/Pacific Islander	1,365	2.0
Multiple Races	2,334	3.5
All Other	0	0.0
<b>Total</b>	<b>66,871</b>	<b>100.0</b>
<i>Excluded Unknowns: 385 0.6</i>		

Age Distribution	Number	%
< 15 Years	123	0.2
15 - 17 Years	2,627	3.9
18 - 19 Years	6,574	9.8
20 - 29 Years	42,450	63.2
30 - 39 Years	14,280	21.3
>= 40 Years	1,080	1.6
<b>Total</b>	<b>67,134</b>	<b>100.0</b>
<i>Excluded Unknowns: 127 0.2</i>		

Education Distribution	Number	%
> High School	20,960	31.6
High School	29,145	44.0
< High School	16,183	24.4
<b>Total</b>	<b>66,288</b>	<b>100.0</b>
<i>Excluded Unknowns: 973 1.4</i>		

Poverty Level	Number	%
0 - 50	22,096	40.1
51 - 100	14,641	26.6
101 - 130	6,184	11.2
131 - 150	3,231	5.9
151 - 185	4,077	7.4
186 - 200	1,260	2.3
> 200	3,379	6.1
Adjunctive Eligibility	274	0.5
<b>Total</b>	<b>55,142</b>	<b>100.0</b>
<i>Excluded Unknowns: 12,119 18.0</i>		

Program Participation (3)	Number	%
WIC	55,239	100.0
SNAP	55,184	57.8
Medicaid	55,110	84.1
Tanf	55,195	10.7
Excluded Unknowns:		
WIC:	0	0.0
SNAP:	55	0.1
Medicaid:	129	0.2
Tanf:	44	0.1

Migrant Status	Number	%
Yes	565	0.8
No	66,696	99.2
<b>Total</b>	<b>67,261</b>	<b>100.0</b>
<i>Excluded Unknowns: 0 0.0</i>		

(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

# PNSS Behavioral Indicators



**Table 2C**  
**2013 Pregnancy Nutrition Surveillance**  
**Michigan**  
**Summary of Health Indicators**

(1)

Run Date:

06/29/2014

Summary of Health Indicators (2)				
	Michigan Prevalance		National Prevalance (Prior Year)	
	Number	%	Number	%
<b>Medical Care</b>				
1st Trimester	61,039	79.9	139,391	73.7
No Care	61,039	10.5	139,391	16.7
<b>WIC Enrollment</b>				
1st Trimester	66,266	36.9	160,175	35.8
2nd Trimester	66,266	30.3	160,175	33.6
3rd Trimester	66,266	15.6	160,175	19.8
Postpartum (3)	66,266	17.2	160,175	10.8
<b>Prepregnancy Multivitamin Consumption (4)</b>	51,800	19.8	141,815	19.0
<b>Multivitamin Consumption During Pregnancy (5)</b>	54,684	84.6	141,714	86.5
<b>Smoking</b>				
3 Months Prior to Pregnancy	62,025	32.3	166,211	30.7
During Pregnancy	54,716	18.8	143,223	19.9
Last 3 Months of Pregnancy	61,793	16.8	160,231	17.8
Postpartum	61,815	17.5	160,271	18.7
<b>Smoking Changes (6)</b>				
Quit Smoking by First Prenatal Visit	18,429	44.6	47,776	41.0
Quit Smoking by First Prenatal Visit and Stayed Off Cigarettes	18,044	36.4	59,861	50.4
<b>Smoking in Household</b>				
During Pregnancy	54,649	15.1	141,285	20.6
Postpartum	61,835	5.0	158,772	12.5
<b>Drinking</b>				
3 Months Prior to Pregnancy	61,868	21.4	165,954	14.8
Last 3 Months of Pregnancy	61,893	0.6	160,237	0.5

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

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

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

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

# Health Indicators By Race & Ethnicity



**Table 9C**  
**2013 Pregnancy Nutrition Surveillance** <sup>(1)</sup>  
**Michigan**

Run Date: 06/29/2014

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

**Maternal Health Indicators by Race/Ethnicity, Age, or Education** <sup>(2)</sup>

	Prepregnancy BMI <sup>(3)</sup>			Weight Gain <sup>(4)</sup>			Anemia (Low Hb/Hct) <sup>(5)</sup>				Gestational Diabetes		Hypertension During Pregnancy			
	Under-Weight	Over-Weight		< Ideal		>Ideal		3rd Trimester		Postpartum						
				Number	%	%	Number	%	%	Number	%	Number	%	Number	%	
<b>Race/Ethnicity</b>																
White, Not Hispanic	32,226	4.6	53.6	25,830	15.1	53.9	5,130	28.8	7,346	21.8	34,374	7.0	34,384	9.7		
Black, Not Hispanic	16,964	3.9	60.3	13,962	18.4	53.2	3,403	54.8	2,891	45.5	17,673	5.6	17,688	12.3		
Hispanic	5,481	2.6	62.2	4,256	21.1	44.9	796	38.2	1,000	31.7	6,073	8.3	6,078	7.6		
American Indian/Alaska Native	232	3.4	54.3	189	16.6	51.5	22	*	35	*	215	11.6	215	9.3		
Asian/Pacific Islander	1,094	10.1	29.6	865	27.1	31.0	185	28.6	287	22.6	1,263	12.4	1,264	4.7		
Multiple Races	2,056	4.8	54.8	1,639	16.3	52.7	365	39.5	435	32.6	2,142	6.3	2,146	9.8		
All Other/Unknown	7	*	*	4	*	*	1	*	1	*	3	*	3	*		
<b>Total</b>	<b>58,063</b>	<b>4.3</b>	<b>56.0</b>	<b>46,728</b>	<b>16.9</b>	<b>52.4</b>	<b>9,903</b>	<b>38.9</b>	<b>11,995</b>	<b>28.7</b>	<b>61,748</b>	<b>6.8</b>	<b>61,783</b>	<b>10.1</b>		
<b>Age</b>																
< 15 Years	112	8.0	30.4	95	*	*	30	*	2	*	118	5.1	118	13.6		
15 - 17 Years	2,304	8.1	34.9	1,879	16.9	54.0	406	44.8	367	35.7	2,417	1.9	2,418	10.0		
18 - 19 Years	5,764	7.3	43.4	4,655	16.6	54.4	963	44.7	1,028	33.8	6,016	3.2	6,022	10.0		
20 - 29 Years	36,763	4.4	55.2	29,722	16.5	52.3	6,462	37.9	7,360	29.1	39,109	5.5	39,117	9.1		
30 - 39 Years	12,140	2.3	67.3	9,668	17.7	51.8	1,888	37.6	2,961	25.0	13,050	12.7	13,069	12.8		
>= 40 Years	882	1.8	71.0	635	23.5	47.6	141	39.7	254	29.5	919	18.2	921	16.8		
Unknown	98	*	*	74	*	*	13	*	23	*	119	5.9	118	7.6		
<b>Total</b>	<b>58,063</b>	<b>4.3</b>	<b>56.0</b>	<b>46,728</b>	<b>16.9</b>	<b>52.4</b>	<b>9,903</b>	<b>38.9</b>	<b>11,995</b>	<b>28.7</b>	<b>61,748</b>	<b>6.8</b>	<b>61,783</b>	<b>10.1</b>		
<b>Education</b>																
< High School	13,840	5.6	51.6	10,842	19.7	49.5	2,375	43.5	2,451	34.8	14,910	6.0	14,907	9.2		
High School	25,541	4.5	56.5	20,638	16.8	53.0	4,304	39.0	4,993	28.3	27,010	6.7	27,035	10.3		
> High School	18,258	3.1	58.5	14,942	15.0	53.8	3,153	35.1	4,447	25.8	19,296	7.6	19,306	10.7		
Excluded Unknown	424	4.7	55.7	306	20.3	48.7	71	*	104	33.7	532	7.7	535	8.2		
<b>Total</b>	<b>58,063</b>	<b>4.3</b>	<b>56.0</b>	<b>46,728</b>	<b>16.9</b>	<b>52.4</b>	<b>9,903</b>	<b>38.9</b>	<b>11,995</b>	<b>28.7</b>	<b>61,748</b>	<b>6.8</b>	<b>61,783</b>	<b>10.1</b>		

(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 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.

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



# Comparison Of Health Indicators

**Table 5C**  
**2013 Pregnancy Nutrition Surveillance** <sup>(1)</sup>  
**Michigan**  
**Comparison of Maternal Health Indicators by Contributor to Nation**

Run Date: 06/29/2014

Comparison of Maternal Health Indicators <sup>(2)</sup>														
	Pregnancy BMI <sup>(3)</sup>			Weight Gain <sup>(4)</sup>			Anemia (Low Hb/Hct) <sup>(5)</sup>				Gestational Diabetes During Pregnancy		Hypertension During Pregnancy	
	Under-weight	Over-weight		< Ideal	> Ideal		3rd Trimester		Postpartum		Number	%	Number	%
		Number	%		%	Number	%	%	Number	%				
<b>Michigan</b>	58,063	4.3	56.0	46,728	16.9	52.4	9,903	38.9	11,995	28.7	61,748	6.8	61,783	10.1
<b>Nation (Prior Year)</b>	153,366	4.2	55.7	127,825	19.1	50.4	26,005	35.2	49,433	25.5	160,280	6.0	160,298	6.4

(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

# PNSS Trend Reports



**Table 19C**  
**2013 Pregnancy Nutrition Surveillance** (1)  
**Michigan**  
**Summary of Trends in Infant Health Indicators**

Run Date: 06/29/2014

Summary of Trends in Infant Health Indicators (2)									
Year	Birthweight			Preterm (5)		Full Term LBW (6)		Ever Breastfed	
	Low (3)		High (4)	Number	%	Number	%	Number	%
	Number	%	%						
<b>2013</b>	58,028	8.7	7.2	59,882	11.5	50,981	3.7	58,101	63.1
<b>2012</b>	58,368	8.8	7.3	60,111	12.1	50,877	3.7	58,753	61.2
<b>2011</b>	58,040	8.6	7.1	59,523	11.7	50,780	3.6	58,401	60.5
<b>2010</b>	56,075	8.5	7.2	57,799	12.0	48,927	3.6	56,127	59.8

(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

# 2012 PNSS - INDIANA



Table 1C  
 2012 Pregnancy Nutrition Surveillance (1)  
 Indiana  
 Summary of Demographic Indicators (2)

Page: 1  
 Run Date: 02/13/2014

Total Records	Number	%
Complete Records	33,756	71.0
Prenatal Records	3,030	6.4
Postpartum Records	10,747	22.6
<b>Total Records Accepted</b>	<b>47,533</b>	

Source of Data		Number	%
WIC		47,533	100.0
Maternal Health		0	0.0
Other		0	0.0
<b>Total</b>		<b>47,533</b>	<b>100.0</b>
<i>Excluded Unknown: 0 0.0</i>			

Race/Ethnic Distribution	Number	%
White, Not Hispanic	30,215	64.3
Black, Not Hispanic	8,717	18.6
Hispanic	6,241	13.3
American Individual/Alaska Native	65	0.1
Asian/Pacific Islander	979	2.1
Multiple Races	740	1.6
All Other	0	0.0
<b>Total</b>	<b>46,957</b>	<b>100.0</b>
<i>Excluded Unknown: 575 1.2</i>		

Age Distribution	Number	%
< 15 Years	95	0.2
15 - 17 Years	2,321	4.9
18 - 19 Years	5,912	12.5
20 - 29 Years	29,786	62.7
30 - 39 Years	8,849	18.6
>= 40 Years	510	1.1
<b>Total</b>	<b>47,473</b>	<b>100.0</b>
<i>Excluded Unknown: 60 0.1</i>		

Education Distribution	Number	%
< High School	14,232	30.4
High School	20,909	44.7
> High School	11,677	24.9
<b>Total</b>	<b>46,818</b>	<b>100.0</b>
<i>Excluded Unknown: 715 1.5</i>		

Poverty Level	Number	%
0 - 50	14,010	38.7
51 - 100	12,116	33.4
101 - 130	4,704	13.0
131 - 150	2,039	5.6
151 - 185	2,590	7.1
186 - 200	288	0.8
> 200	481	1.3
Adjunctive Eligibility	0	0.0
<b>Total</b>	<b>36,228</b>	<b>100.0</b>
<i>Excluded Unknown: 558 1.2</i>		

Program Participation (3)	Number	%
WIC	36,786	100.0
SNAP	36,247	12.1
Medicaid	36,247	59.4
Tanf	36,778	0.8
<i>Excluded Unknown:</i>		
WIC:	0	0.0
SNAP:	539	1.1
Medicaid:	539	1.1
Tanf:	8	0.0

Migrant Status	Number	%
Yes	3	0.0
No	47,530	100.0
<b>Total</b>	<b>47,533</b>	<b>100.0</b>
<i>Excluded Unknown: 0 0.0</i>		

(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

# 2012 PNSS - WISCONSIN



**Table 1C**  
**2012 Pregnancy Nutrition Surveillance (1)**  
**Wisconsin**

Page: 1  
 Run Date: 02/21/2014

**Summary of Demographic Indicators (2)**

Total Records	Number	%
Complete Records	23,799	74.7
Prenatal Records	1,894	5.9
Postpartum Records	6,147	19.3
<b>Total Records Accepted</b>	<b>31,840</b>	

Source of Data	Number	%
WIC	31,840	100.0
Maternal Health	0	0.0
Other	0	0.0
<b>Total</b>	<b>31,840</b>	<b>100.0</b>
<i>Excluded Unknown: 0 0.0</i>		

Race/Ethnic Distribution	Number	%
White, Not Hispanic	16,719	52.5
Black, Not Hispanic	6,107	19.2
Hispanic	5,908	18.6
American Individual/Alaska Native	611	1.9
Asian/Pacific Islander	1,718	5.4
Multiple Races	775	2.4
All Other	0	0.0
<b>Total</b>	<b>31,838</b>	<b>100.0</b>
<i>Excluded Unknown: 0 0.0</i>		

Age Distribution	Number	%
< 15 Years	81	0.3
15 - 17 Years	1,319	4.1
18 - 19 Years	3,425	10.8
20 - 29 Years	19,927	62.6
30 - 39 Years	6,635	20.8
>= 40 Years	441	1.4
<b>Total</b>	<b>31,828</b>	<b>100.0</b>
<i>Excluded Unknown: 12 0.0</i>		

Education Distribution	Number	%
< High School	8,118	27.8
High School	13,316	45.5
> High School	7,813	26.7
<b>Total</b>	<b>29,247</b>	<b>100.0</b>
<i>Excluded Unknown: 2,593 8.1</i>		

Poverty Level	Number	%
0 - 50	6,684	26.1
51 - 100	5,146	20.1
101 - 130	2,524	9.9
131 - 150	1,340	5.2
151 - 185	1,807	7.1
186 - 200	35	0.1
> 200	0	0.0
Adjunctive Eligibility	8,087	31.6
<b>Total</b>	<b>25,623</b>	<b>100.0</b>
<i>Excluded Unknown: 0 0.0</i>		

Program Participation (3)	Number	%
WIC	25,693	100.0
SNAP	25,409	56.3
Medicaid	25,620	33.0
Tanf	25,620	1.8
Excluded Unknown:		
WIC:	0	0.0
SNAP:	284	0.9
Medicaid:	73	0.2
Tanf:	73	0.2

Migrant Status	Number	%
Yes	29	0.1
No	31,811	99.9
<b>Total</b>	<b>31,840</b>	<b>100.0</b>
<i>Excluded Unknown: 0 0.0</i>		

(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

# PEDNSS 2012 - INDIANA



**Table 1C**  
**2012 Pediatric Nutrition Surveillance** <sup>(1)</sup>  
**Indiana**  
**Summary of Demographic Indicators** <sup>(2,3)</sup>  
**Children Aged < 5 Years**

Page: 1  
 Run Date: 02/26/2014

Total Records	Number
Total Records (All Visits)	288,783
Individual Children	171,449

Source of Data	Number	%
WIC	171,449	100.0
EPSDT	0	0.0
Child Health-MCH	0	0.0
Child Health-HMO	0	0.0
HeadStart	0	0.0
School Health	0	0.0
Other	0	0.0
Total	171,449	100.0
Excluded Unknown:	0	0.0

Race/Ethnic Distribution	Number	%
White, Not Hispanic	97498	56.9
Black, Not Hispanic	30082	17.5
Hispanic	31199	18.2
American Individual/Alaska Native	114	0.1
Asian/Pacific Islander	3439	2.0
Multiple Races	9097	5.3
All Other	14	0.0
Total	171,443	100.0
Excluded Unknown:	6	0.0

Age Distribution	Number	%
0 - 5 Months	35,132	20.5
6 - 11 Months	18,713	10.9
12 - 23 Months	37,605	21.9
24 - 35 Months	27,477	16.0
3 - 4 Years	52,522	30.6
Total	171,449	99.9

% of Poverty Level	Number	%
0 - 50	50,528	29.6
51 - 100	59,269	34.7
101 - 130	22,046	12.9
131 - 150	9,204	5.4
151 - 185	10,640	6.2
186 - 200	1,754	1.0
Over 200	2,802	1.6
Adjunctive Eligibility	14,651	8.6
Total	170,894	100.0
Excluded Unknown:	555	0.3

Program Participation	Number	%
WIC	171,449	100.0
SNAP	171,449	15.5
Medicaid	171,449	83.5
Tanf	171,449	0.8
Excluded Unknown		
WIC	0	0.0
SNAP	0	0.0
Medicaid	0	0.0
Tanf	0	0.0

Migrant Status	Number	%
No	171,436	100.0
Yes	13	0.0
Total	171,449	100.0
Excluded Unknown:	0	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) Records rejected if date of birth and date of visit unknown  
 \* Percentages are not calculated if <100 records are available for analysis after exclusions

# PEDNSS 2012 - WISCONSIN



**Table 1C**  
**2012 Pediatric Nutrition Surveillance (1)**  
 Wisconsin  
**Summary of Demographic Indicators (2,3)**  
 Children Aged < 5 Years

Page: 1  
 Run Date: 02/26/2014

Total Records	Number
Individual Children	125,493
Total Records (All Visits)	473,247

Source of Data	Number	%
WIC	125,493	100.0
EPSDT	0	0.0
Child Health-MCH	0	0.0
Child Health-HMO	0	0.0
HeadStart	0	0.0
School Health	0	0.0
Other	0	0.0
Total	125,493	100.0
Excluded Unknown:	0	0.0

Race/Ethnic Distribution	Number	%
White, Not Hispanic	54383	43.3
Black, Not Hispanic	23361	18.6
Hispanic	31876	25.4
American Individual/Alaska Native	2016	1.6
Asian/Pacific Islander	6160	4.9
Multiple Races	7637	6.1
All Other	28	0.0
Total	125,461	100.0
Excluded Unknown:	32	0.0

Age Distribution (4)	Number	%
0 - 5 Months	28,431	22.7
6 - 11 Months	13,548	10.8
12 - 23 Months	24,875	19.8
24 - 35 Months	20,539	16.4
3 - 4 Years	38,100	30.4
Total	125,493	100.1

% of Poverty Level	Number	%
0 - 50	26,795	21.4
51 - 100	21,572	17.3
101 - 130	10,858	8.7
131 - 150	6,222	5.0
151 - 185	8,104	6.5
186 - 200	524	0.4
Over 200	1	0.0
Adjunctive Eligibility	50,928	40.7
Total	125,004	100.0
Excluded Unknown:	489	0.4

Program Participation	Number	%
WIC	125,493	100.0
SNAP	123,336	65.4
Medicaid	124,946	41.7
Tanf	124,991	2.7
Excluded Unknown		
WIC	0	0.0
SNAP	2,157	1.7
Medicaid	547	0.4
Tanf	502	0.4

Migrant Status	Number	%
Yes	118	0.1
No	125,375	99.9
Total	125,493	100.0
Excluded Unknown:	0	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) Records rejected if date of birth and date of visit unknown  
 \* Percentages are not calculated if <100 records are available for analysis after exclusions

# PEDNSS 2013- MICHIGAN



**Table 1C**  
**2013 Pediatric Nutrition Surveillance (1)**  
**Michigan**  
**Summary of Demographic Indicators (2,3)**  
**Children Aged < 5 Years**

Page: 1  
 Run Date: 02/27/2014

Total Records	Number
Total Records (All Visits)	406,591
Individual Children	253,913

Source of Data	Number	%
WIC	253,913	100.0
EPSDT	0	0.0
Child Health-MCH	0	0.0
Child Health-HMO	0	0.0
HeadStart	0	0.0
School Health	0	0.0
Other	0	0.0
Total	253,913	100.0
Excluded Unknown:	0	0.0

Race/Ethnic Distribution	Number	%
White, Not Hispanic	126040	49.6
Black, Not Hispanic	68041	26.8
Hispanic	34569	13.6
American Individual/Alaska Native	698	0.3
Asian/Pacific Islander	4186	1.6
Multiple Races	20113	7.9
All Other	47	0.0
Total	253,694	100.0
Excluded Unknown:	219	0.1

Age Distribution (4)	Number	%
0 - 5 Months	44,049	17.3
6 - 11 Months	30,323	11.9
12 - 23 Months	57,019	22.5
24 - 35 Months	42,432	16.7
3 - 4 Years	80,090	31.5
Total	253,913	100.0

% of Poverty Level	Number	%
0 - 50	86,379	37.3
51 - 100	64,757	28.0
101 - 130	23,646	10.2
131 - 150	10,977	4.7
151 - 185	12,757	5.5
186 - 200	3,111	1.3
Over 200	4,805	2.1
Adjunctive Eligibility	24,916	10.8
Total	231,348	100.0
Excluded Unknown:	22,565	8.9

Program Participation	Number	%
WIC	253,913	100.0
SNAP	252,737	59.2
Medicaid	250,887	80.5
Tanf	252,905	8.9
Excluded Unknown		
WIC	0	0.0
SNAP	1,176	0.5
Medicaid	3,026	1.2
Tanf	1,008	0.4

Migrant Status	Number	%
No	251,938	99.2
Yes	1,975	0.8
Total	253,913	100.0
Excluded Unknown:	0	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) Records rejected if date of birth and date of visit unknown  
 \* Percentages are not calculated if <100 records are available for analysis after exclusions

# Michigan WIC Top Ten List

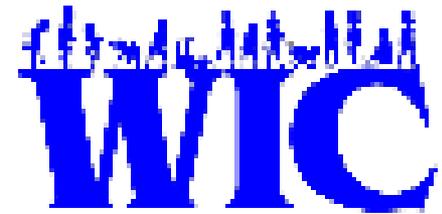


Indicators	2002	2013	Progress Direction
First Trimester Entry into WIC	32.2	36.9	
Birth weight: <ul style="list-style-type: none"> <li>• LBW &lt;2500 g</li> <li>• Full Term LBW</li> <li>• HBW &gt;4000 g</li> <li>• % Preterm Infants</li> </ul>	7.2 -- 8.6 --	8.7 3.7 7.2 11.5	 
Breastfeeding: <ul style="list-style-type: none"> <li>• Initiation</li> <li>• 6 Months Duration</li> </ul>	49.3 13.6	63.1 17.7	 
Prenatal Weight Gain: <ul style="list-style-type: none"> <li>• &lt;Ideal</li> <li>• &gt;Ideal</li> </ul>	28.9 46.3	16.9 52.4	 
Body weight: <ul style="list-style-type: none"> <li>• 85th-&lt;95th%, ≥2yrs</li> <li>• ≥95th%, ≥2yrs</li> </ul>	15.7 12.4	16.8 14.1	 
Anemia, Low Hg, 3 <sup>rd</sup> Trimester	30.9	38.9	
Anemia, Low Hg, 6 months-5 yrs.	13.0	17.5	
Prenatal Smoking, Last Trimester	24.4	16.8	
First Trimester Prenatal Care	73.8	79.9	
Prepregnancy: <ul style="list-style-type: none"> <li>• Overweight/Obese</li> <li>• Underweight</li> </ul>	50.3 5.4	56.0 4.3	 

# Michigan WIC Five-year-plan

## The Health Outcome Indicators

January 2014 To December 2018

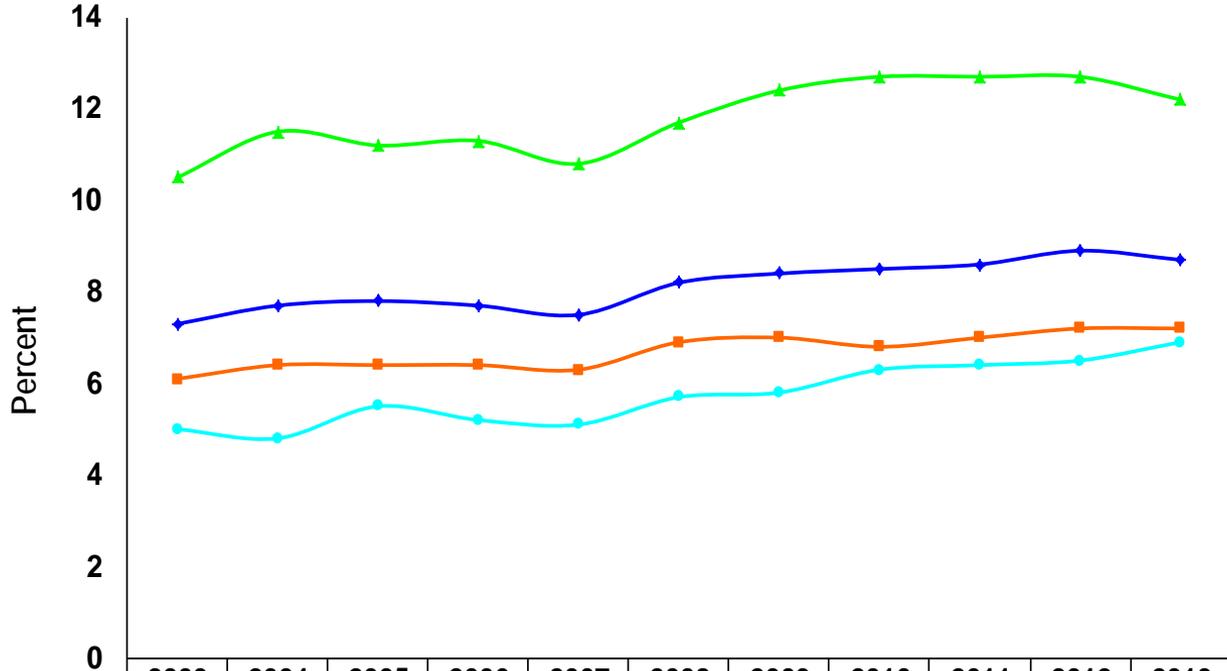


- Increase first trimester entry into the WIC program from 38.0% to 43.0%.
- Increase ideal prenatal weight gain from 31.3% to 33.5% among Michigan WIC mothers.
- Reduce the percent of low birth weight infants born to women enrolled in Michigan WIC from 8.7% to 8.0%.
- Increase breastfeeding initiation rate from 63.1% to 65.0% and the six-month duration rate from 17.7% to 20.5%.
- Decrease the prevalence of early childhood obesity, in children 2 to 5 years of age, from 14.1% to 13.5%.
- Decrease the prevalence of low hemoglobin level from 17.5% to 15.0% among children less than five years of age.

The projections are based on the 2002-2012 trend data from Michigan PNSS and PedNSS. 2012 PNSS & 2013 PedNSS data is used as the baseline for a five-year-plan from Jan. 2014 to Dec. 2018.

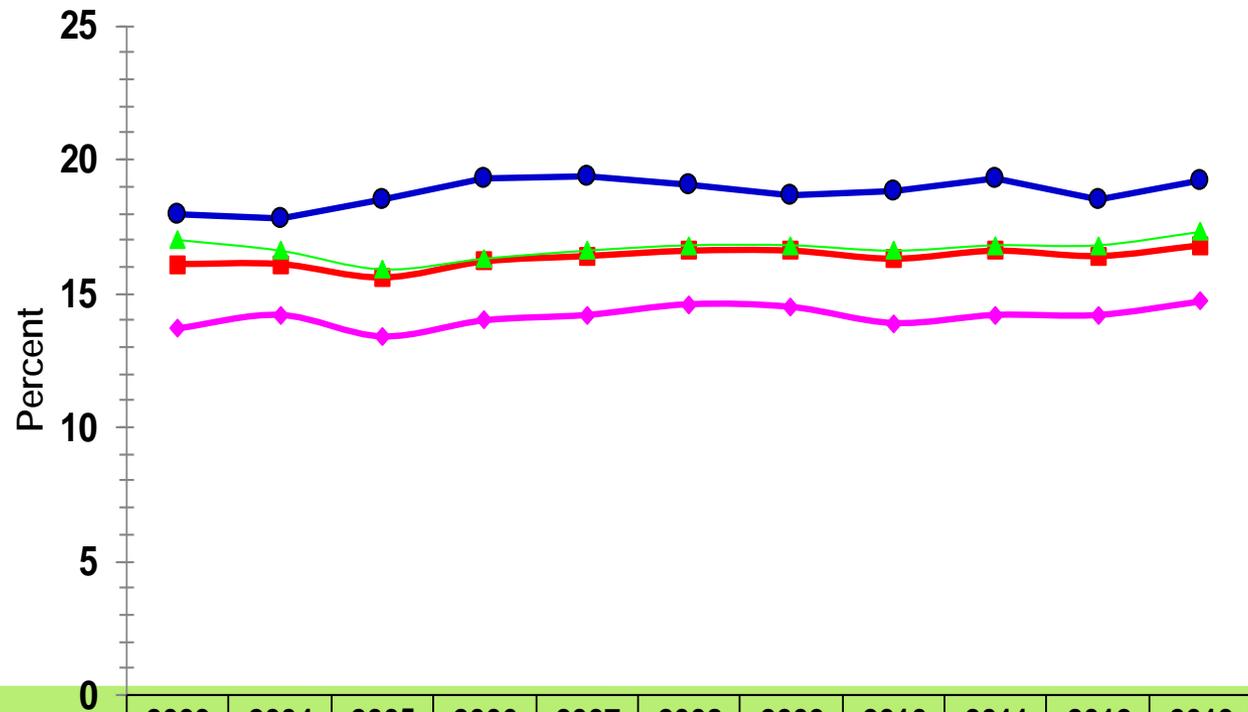


# Low Birth Weight By Race & Ethnicity



	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Total	7.3	7.7	7.8	7.7	7.5	8.2	8.4	8.5	8.6	8.9	8.7
White	6.1	6.4	6.4	6.4	6.3	6.9	7	6.8	7	7.2	7.2
Black	10.5	11.5	11.2	11.3	10.8	11.7	12.4	12.7	12.7	12.7	12.2
Hispanic	5	4.8	5.5	5.2	5.1	5.7	5.8	6.3	6.4	6.5	6.9

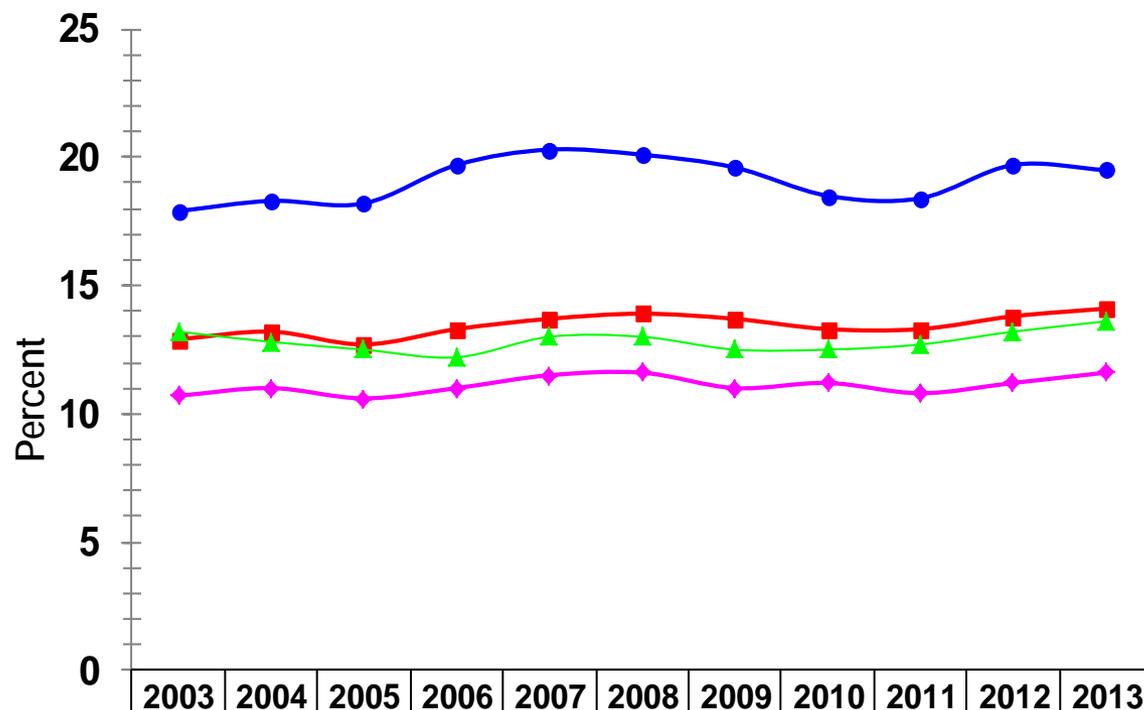
# Trends in Overweight (85<sup>th</sup>–<95<sup>th</sup>) by Race/Ethnicity among Michigan WIC Children Two to Five Years Old



	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
■ Total	16.1	16.1	15.6	16.2	16.4	16.6	16.6	16.3	16.6	16.4	16.8
▲ White	17	16.6	15.9	16.3	16.6	16.8	16.8	16.6	16.8	16.8	17.3
◆ Black	13.7	14.2	13.4	14	14.2	14.6	14.5	13.9	14.2	14.2	14.7
● Hispanic	18	17.8	18.5	19.3	19.4	19.1	18.7	18.8	19.3	18.5	19.2

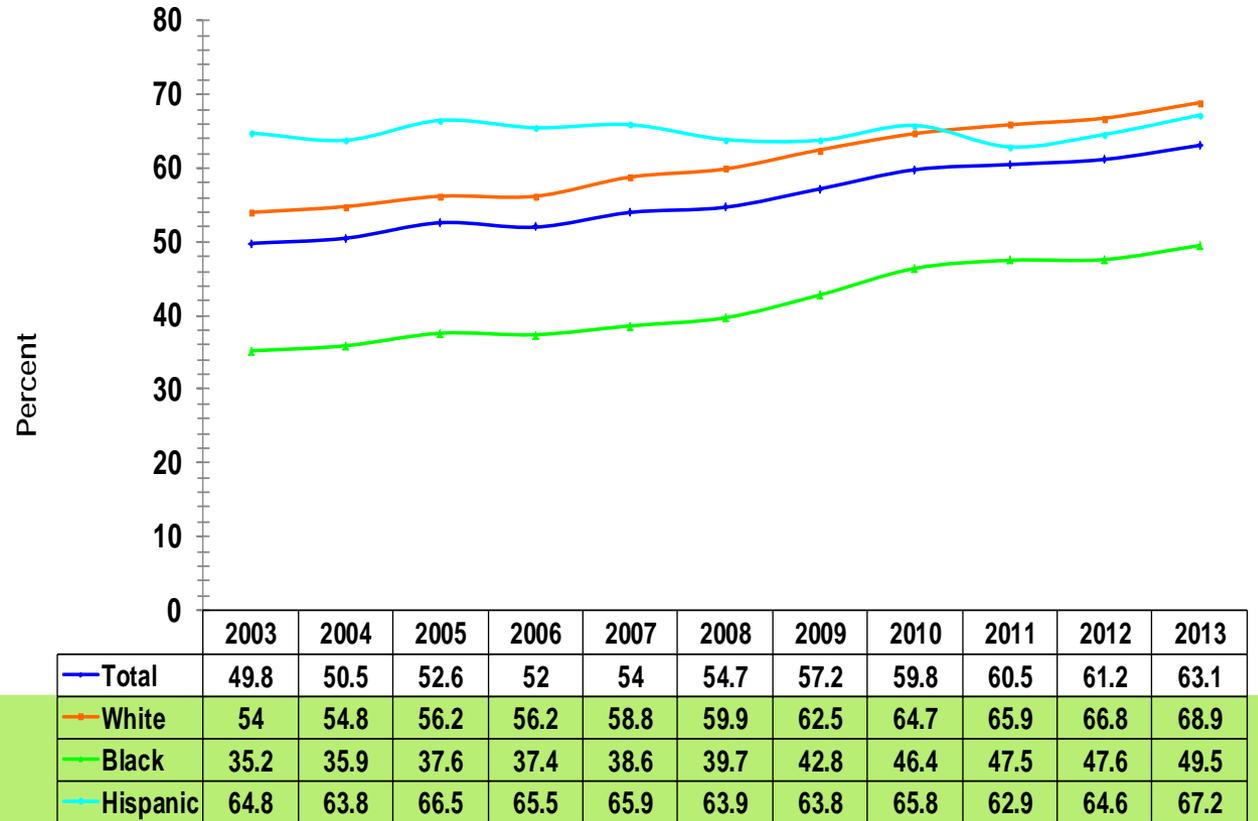


## Trends In Obesity ( $\geq 95^{\text{th}}$ ) By Race/Ethnicity Among Michigan WIC Children Two To Five Years

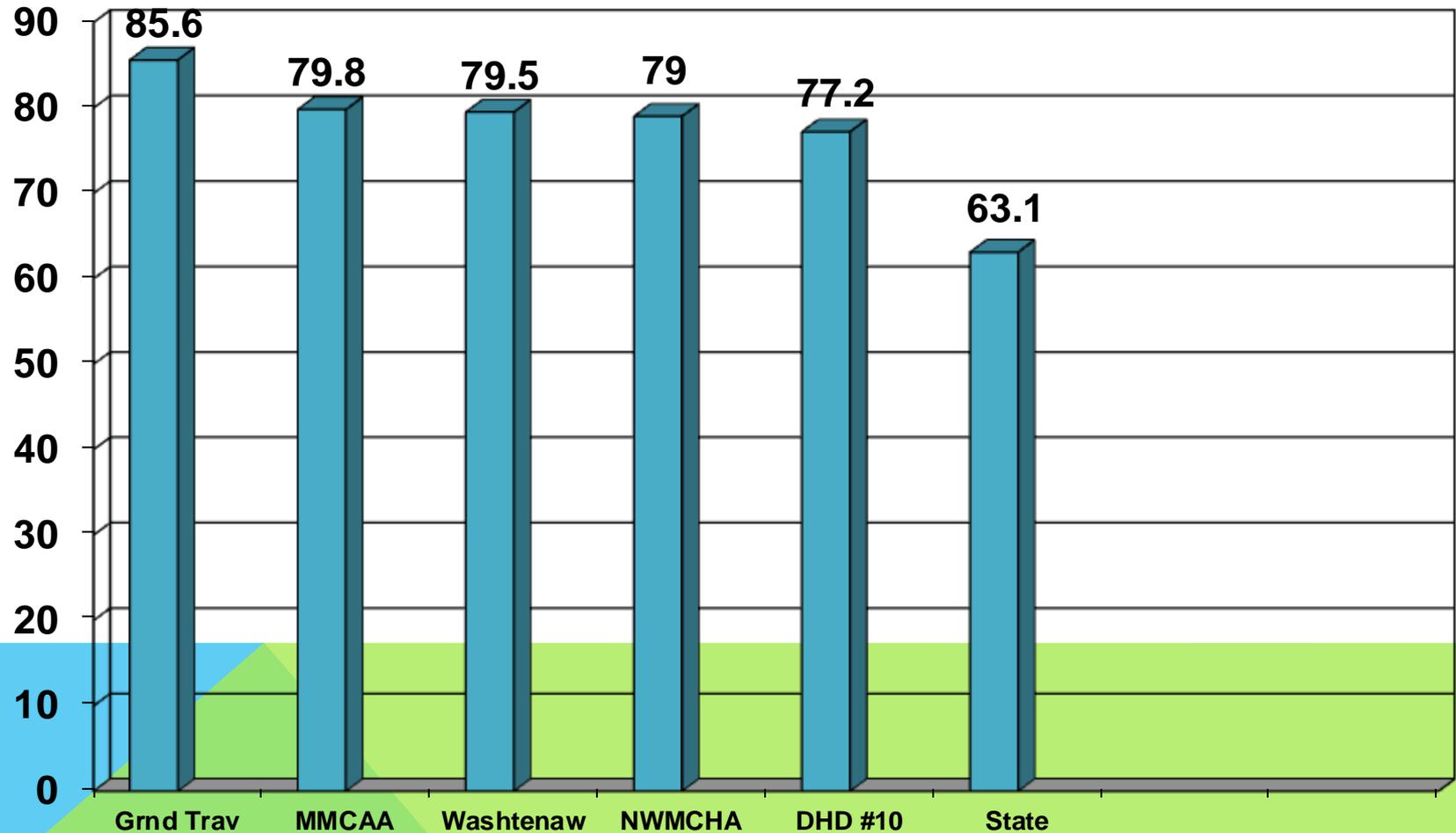


	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
—■— Total	12.9	13.2	12.7	13.3	13.7	13.9	13.7	13.3	13.3	13.8	14.1
—▲— White	13.2	12.8	12.5	12.2	13	13	12.5	12.5	12.7	13.2	13.6
—◆— Black	10.7	11	10.6	11	11.5	11.6	11	11.2	10.8	11.2	11.6
—●— Hispanic	17.9	18.3	18.2	19.7	20.3	20.1	19.6	18.5	18.4	19.7	19.5

# Breastfeeding Initiation Trends By Race/Ethnicity



# Breastfeeding Initiation by LA



# 1. MI - WIC & EBT

2. PROGRAM  
MANAGEMENT

3. VENDOR  
MANAGEMENT

4. CLIENT  
REDEMPTION  
PATTERNS

5. PROGRAM  
INTEGRITY

## Data Mining

- Michigan data includes nearly all aspects of the WIC program.
  - The data collection process begins on-site at one of over 200 WIC clinics, and continues as clients redeem their benefits at any of nearly 2,000 WIC authorized vendors statewide.
- In Feb. 2014, Michigan had 282,252 active WIC Clients.

What can we do with all of that data?



1. MI-WIC & EBT

## 2. PROGRAM MANAGEMENT

3. VENDOR  
MANAGEMENT

4. CLIENT  
REDEMPTION  
PATTERNS

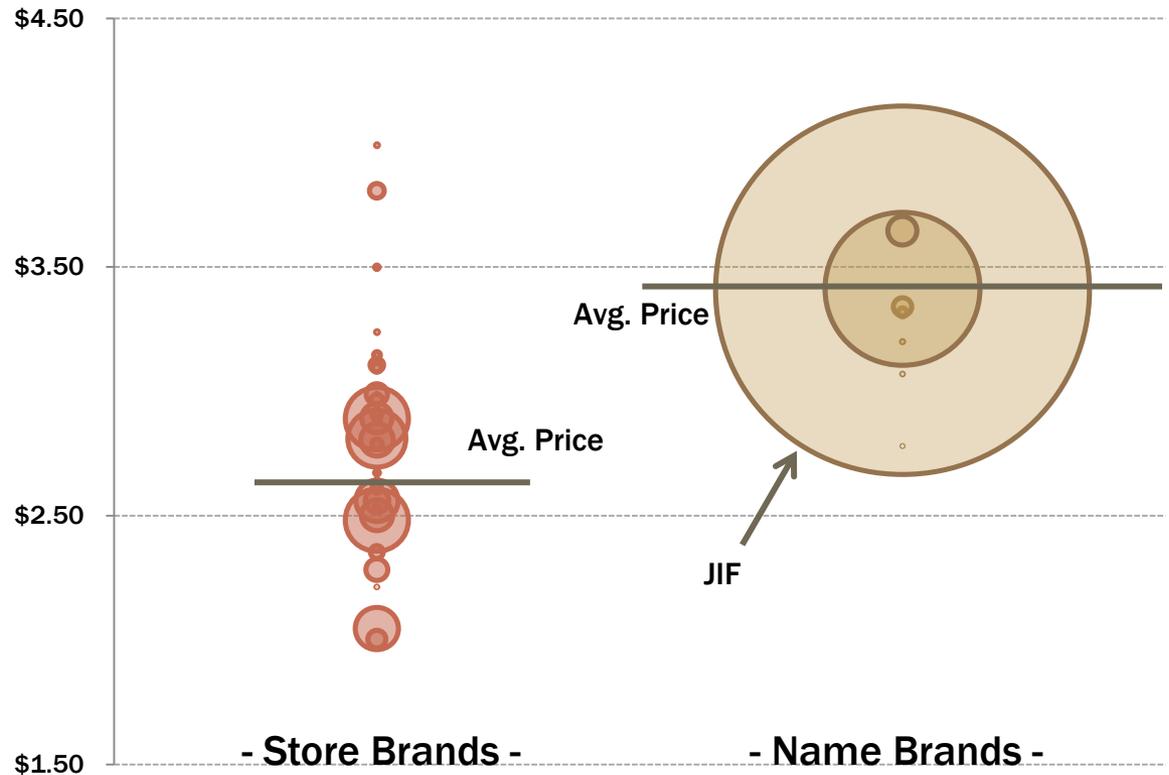
5. PROGRAM  
INTEGRITY

# Informed Program Management

- Balancing client food preferences with food availability in stores, manufacturer changes, and USDA regulations.
- Evaluate the effectiveness of Nutrition Education
  - Increasing clients stage of change
  - Evaluating effect of Nutrition Education on actual transactions
- Understand trends among clients and vendors.

# Authorized Peanut Butter Brands

**Peanut Butter Prices & Volume**  
2010 Q4 through 2012



Successful transition with total PB rate of 95,072 jars in July 2013 to 101,399 jars in Jan. 2014.

1. MI-WIC & EBT

**2. Program Management**

3. Vendor Management

4. Client Redemption Patterns

5. Program Integrity

# Measuring The Efficacy Of Nutrition Education

1. MI-WIC & EBT

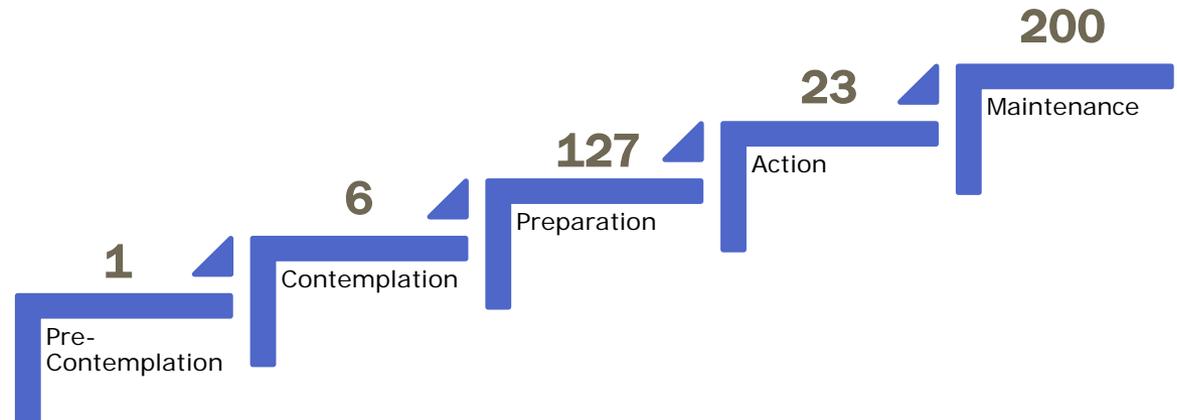
## 2. Program Management

3. Vendor Management

4. Client Redemption Patterns

5. Program Integrity

### Clients Stage of Change Before Whole Grain Nutrition Ed



Stages of change for clients who took WICHealth.org  
Whole Grains Nutrition Education from 9/2012 - 2/2013

1. MI-WIC & EBT

## 2. PROGRAM MANAGEMENT

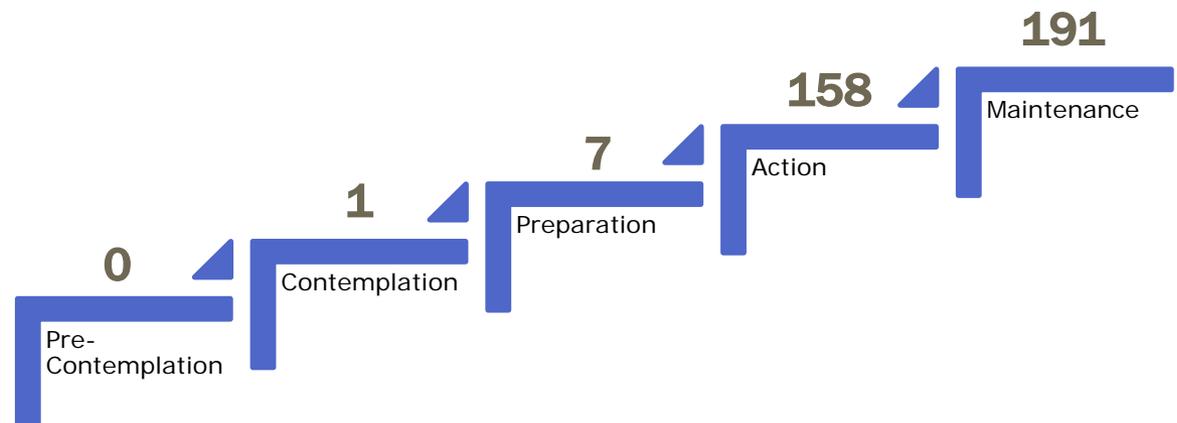
3. VENDOR MANAGEMENT

4. CLIENT REDEMPTION PATTERNS

5. PROGRAM INTEGRITY

# Measuring the Efficacy of Nutrition Education

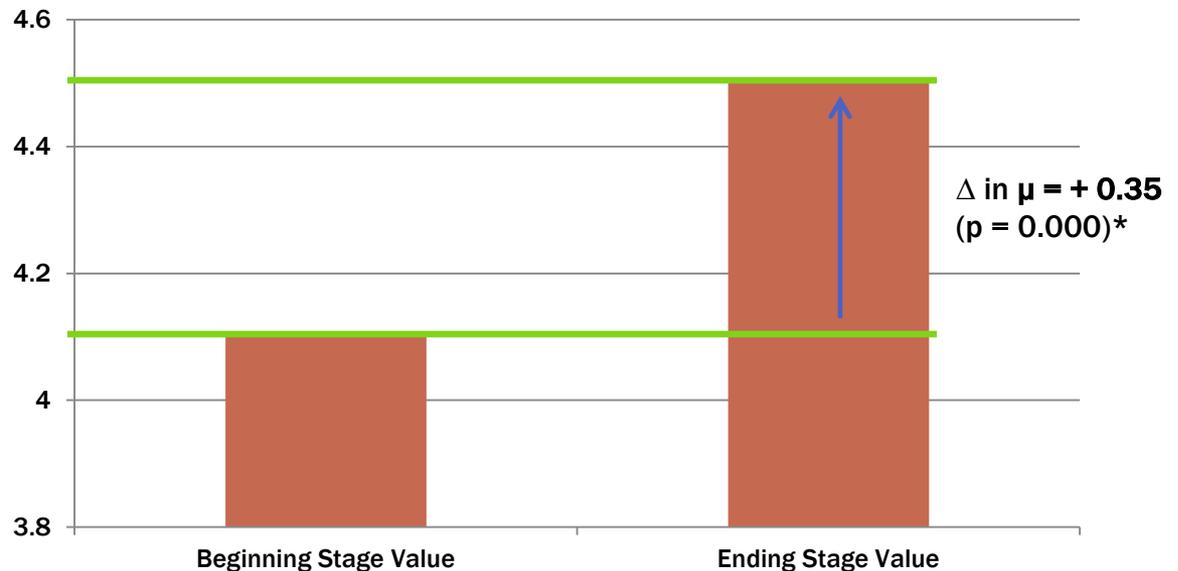
After Whole Grain Nutrition Ed



Stages of change for clients who took WICHealth.org Whole Grains Nutrition Education from 9/2012 - 2/2013

# Measuring the Efficacy of Nutrition Education

Impact of Whole Grain Nutrition Ed On Progression of Individuals Throughout the Stages of Change



\* denotes significant difference

1. MI-WIC & EBT

2. PROGRAM  
MANAGEMENT

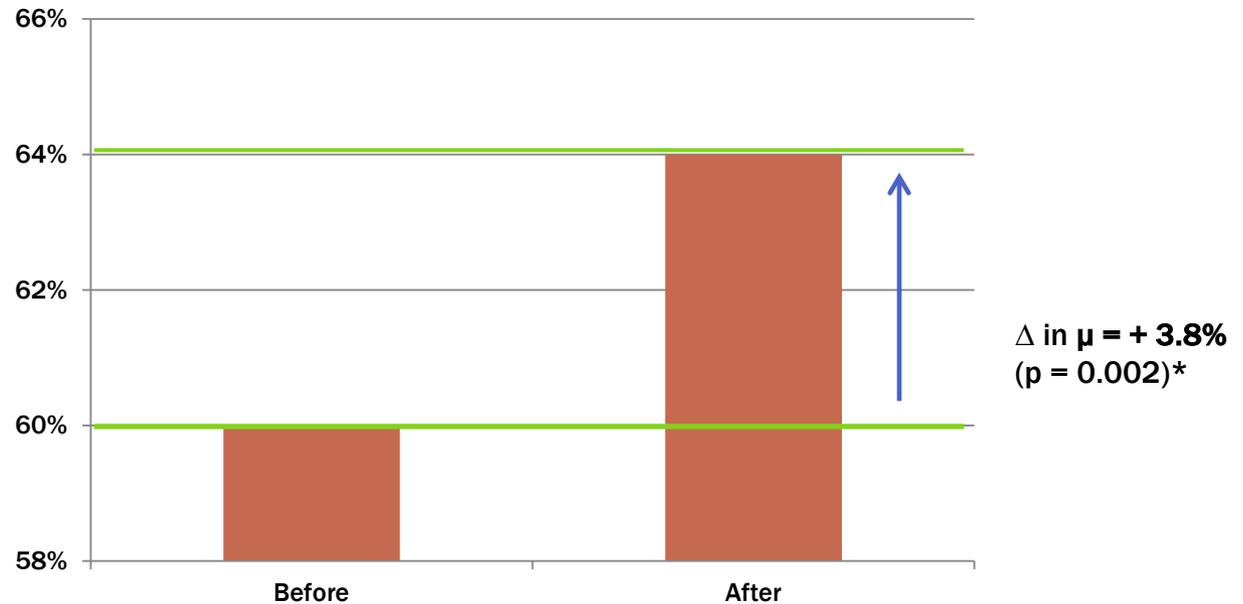
3. VENDOR  
MANAGEMENT

4. CLIENT  
REDEMPTION  
PATTERNS

5. PROGRAM  
INTEGRITY

# Efficacy of Nutrition Education

## Impact of Whole Grain Nutrition Ed. On Cereals Redemptions Whole Grain Cereals as a Share of Total Cereals Redeemed



Note: 6 months of redemptions before and after NE training

1. MI-WIC & EBT

2. PROGRAM  
MANAGEMENT

3. VENDOR  
MANAGEMENT

4. CLIENT  
REDEMPTION  
PATTERNS

5. PROGRAM  
INTEGRITY

1. MI-WIC & EBT

2. PROGRAM  
MANAGEMENT

### 3. VENDOR MANAGEMENT

4. CLIENT  
REDEMPTION  
PATTERNS

5. PROGRAM  
INTEGRITY

# Vendor Management

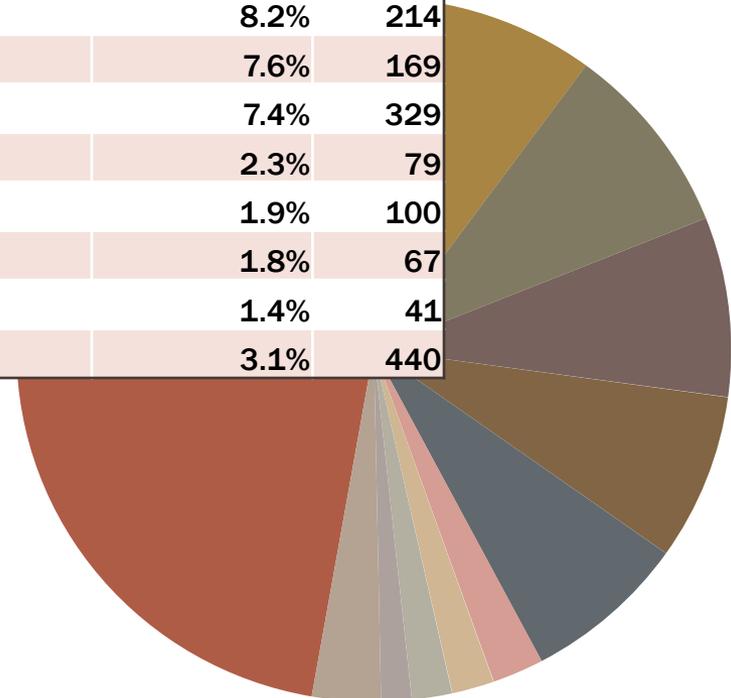
- Reviewing redemptions by vendor to assess client shopping preferences.
- Identify the type of foods vendors sold based on the type of store (Rural / Urban, Mom and Pop Grocery / Full Line)



# Redemptions by Vendor Peer Group

Quarterly \$ Volume of Sales by Vendor Peer Group

Vendor Peer Group	% of \$ Redeemed	# of Stores
Major Chain (incl. Meijer, Kroger, Wal-Mart)	47.1%	320
Detroit - 3 or more registers	10.2%	100
Chain - 8 to 59 outlets	8.8%	129
Metro & Urban South - 3 or more registers	8.2%	214
Detroit - 1 or 2 registers	7.6%	169
Urban North & South - 1 or 2 registers	7.4%	329
Metro - 1 or 2 registers	2.3%	79
Chain - 2 to 7 outlets	1.9%	100
Rural South - 3 or more	1.8%	67
Rural North - 3 or more	1.4%	41
Everything Else	3.1%	440



1. MI-WIC & EBT

2. Program Management

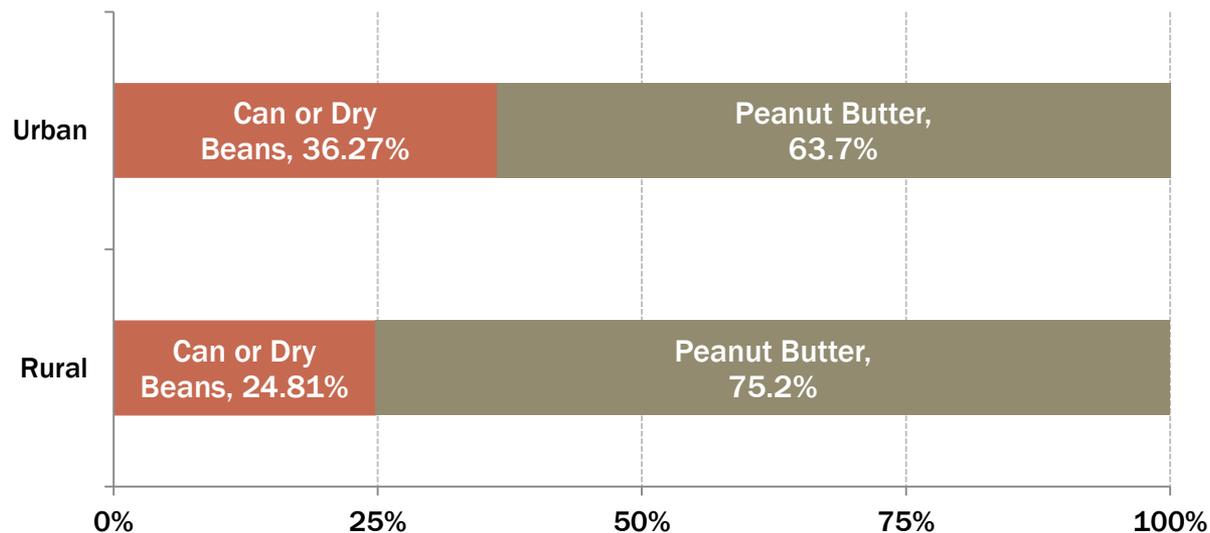
**3. Vendor Management**

4. Client Redemption Patterns

5. Program Integrity

# Impact of Inventory Variations

## Legumes



1. MI-WIC & EBT

2. Program Management

**3. Vendor Management**

4. Client Redemption Patterns

5. Program Integrity

1. MI-WIC & EBT

2. PROGRAM  
MANAGEMENT

3. VENDOR  
MANAGEMENT

## 4. CLIENT REDEMPTION PATTERNS

5. PROGRAM  
INTEGRITY

# Client Redemption Patterns

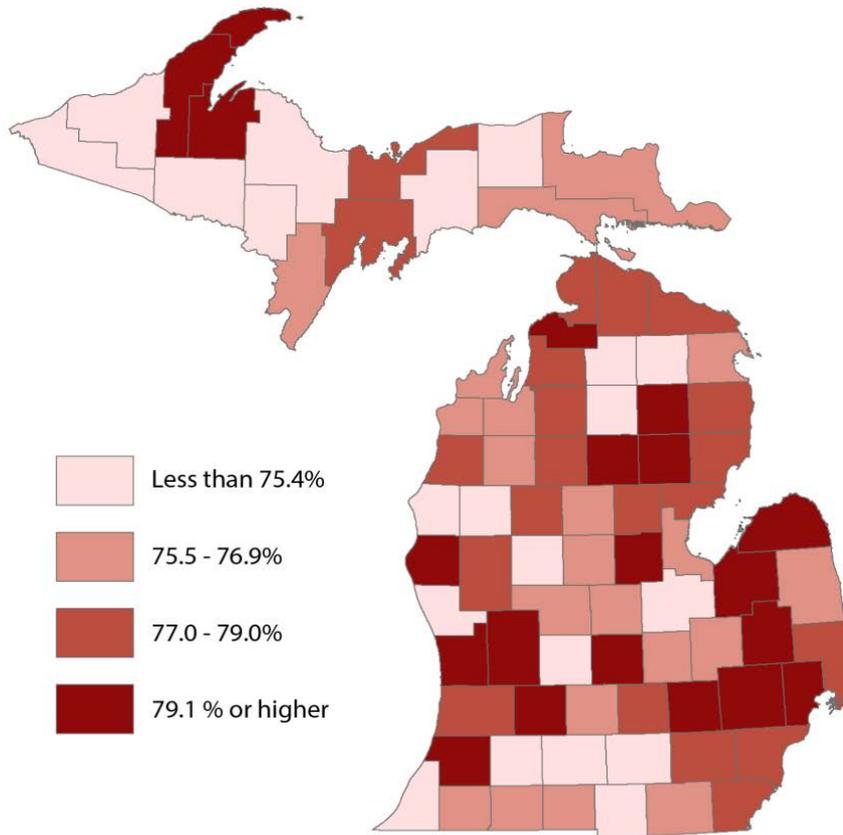
- Having the ability to look at client redemption patterns allows us to better understand our client preferences and needs.
- Areas of interest include:
  - Geographic variations in redemptions
  - Client obstacles
  - Popularity of specific product types



# Geographic Redemption Patterns

## Fresh Fruits & Vegetable Redemptions

1<sup>st</sup> Half of 2013, by County



1. MI-WIC & EBT

2. PROGRAM  
MANAGEMENT

3. VENDOR  
MANAGEMENT

**4. CLIENT  
REDEMPTION  
PATTERNS**

5. PROGRAM  
INTEGRITY

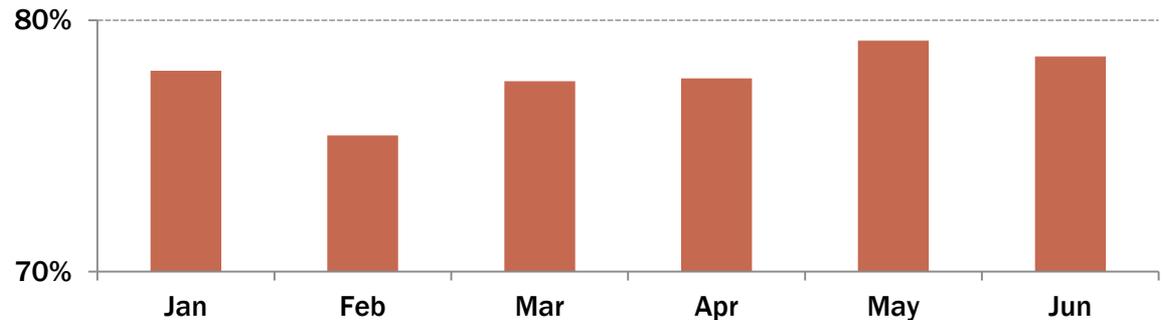
# Geographic Redemption Patterns

## Top 10 / Bottom 10 Counties

<b>Top 10</b>	Houghton	83.6%
	Ottawa	82.0%
	Huron	81.7%
	Macomb	81.6%
	Lapeer	81.3%
	Charlevoix	80.7%
	Kent	80.6%
	Baraga	80.3%
	Keweenaw	80.2%
	Van Buren	80.2%

<b>Bottom 10</b>	Montmorency	73.9%
	Calhoun	73.4%
	Schoolcraft	73.0%
	Berrien	72.9%
	Iron	72.7%
	Muskegon	72.7%
	Crawford	72.4%
	Mecosta	71.2%
	Gogebic	70.6%
	Ontonagon	69.2%

## Monthly Fresh Fruits & Vegetable Redemptions, 2013



1. MI-WIC & EBT

2. Program Management

3. Vendor Management

**4. Client Redemption Patterns**

5. Program Integrity

# Driving Distances for Clients

## Sample Client's Travel Patterns

Jan 01, 2013 - Sep 05, 2013

Family Details				Vendor Details			Distance to Vendor	Trips	Total Miles Traveled to Vendor
ID	Address	City	Zip	Address	City	Zip			
				1045 W BROAD ST	CHESANING	48616	15.8	32	506
				115 E BELLE AVE	CHARLES	48655	21.6	9	194
				12025 S MERRILL RD	BRANT	48614	7.1	13	92
				128 S STERLING	ASHLEY	48806	4.9	23	113
				1315 E MAIN STREET	OWOSSO	48867	28.4	51	1,448
1003580	Address_	Ashley	48806	1341 N M-52	Owosso	48867	28	1	28
1003580	Address_	Ashley	48806	1621 E M-21	OWOSSO	48867	28.8	1	29
1003580	Address_	Ashley	48806	2591 E M21	CORUNNA	48817	29.1	14	407
1003580	Address_	Ashley	48806	501 S MAIN ST	OVID	48866	15.3	12	184
<b>Total</b>								<b>156</b>	<b>3,001</b>

1. MI-WIC & EBT

2. Program Management

3. Vendor Management

**4. Client Redemption Patterns**

5. Program Integrity

# Driving Distances for Clients

## Routes to Client's Nearby Stores

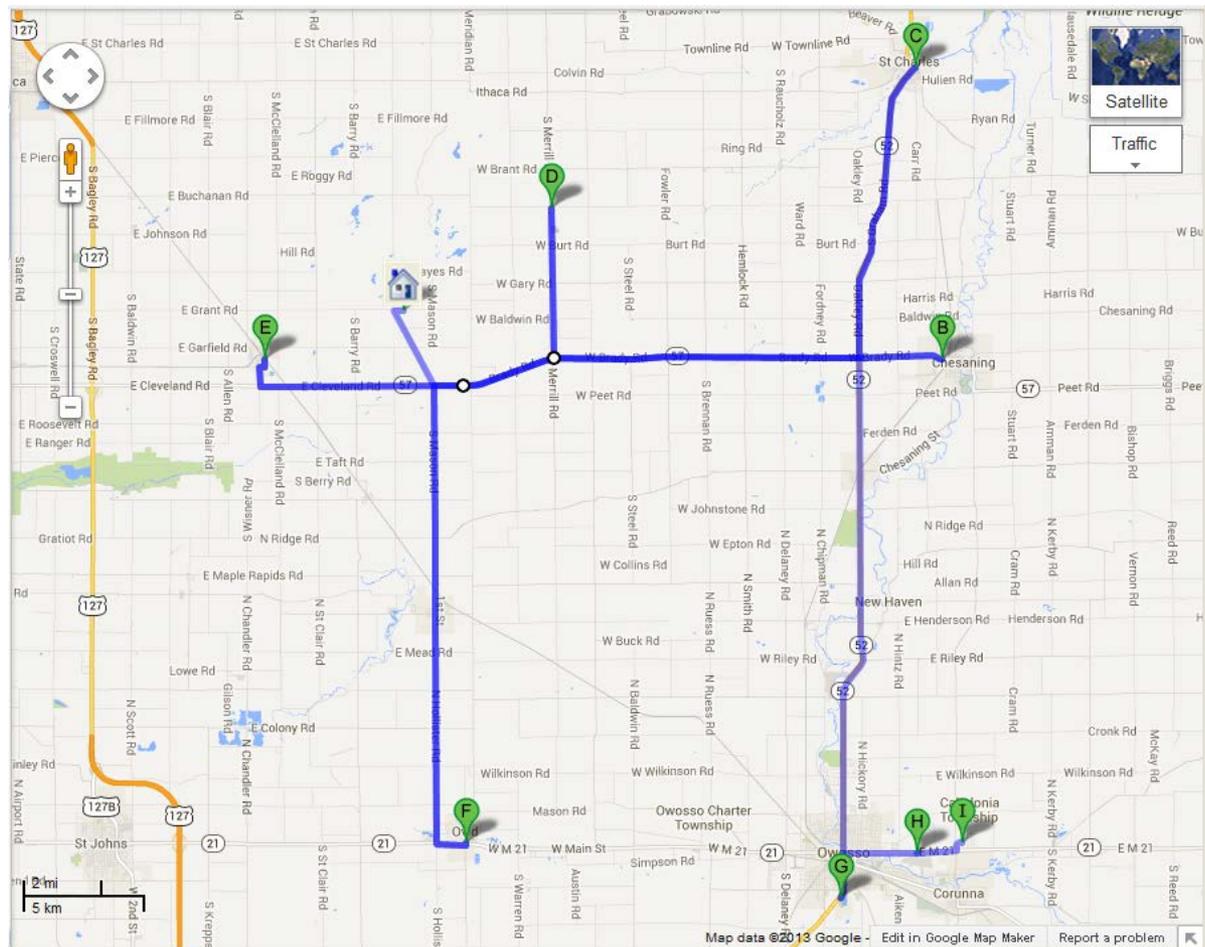
1. MI - WIC & EBT

2. PROGRAM  
MANAGEMENT

3. VENDOR  
MANAGEMENT

4. CLIENT  
REDEMPTION  
PATTERNS

5. PROGRAM  
INTEGRITY



1. MI-WIC & EBT

2. PROGRAM  
MANAGEMENT

3. VENDOR  
MANAGEMENT

## 4. CLIENT REDEMPTION PATTERNS

5. PROGRAM  
INTEGRITY



# Client Preferences

## Infant Fruits & Vegetables by UPC First Half of 2013

	UPC	Product	# Sold
Top 5	001500000435 4	Gerber Bananas Infant Fruit	460,118
	001500000431 6	Gerber Applesauce Infant Fruit	372,352
	001500000418 7	Gerber Sweet Potatoes Infant Vegetables	328,247
	001500000434 7	Gerber Pears Infant Fruit	304,624
	001500000427 9	Gerber Apple Strawberry Banana Infant Fruit Combo	272,218
Botto m 5	001300000016 1	Natures Goodness Mixed Vegetables	3
	001300000052 9	Natures Goodness Carrots Infant Vegetables	2
	001300000050 5	Natures Goodness Pears Infant Fruit	1
	001300000057 4	Natures Goodness Squash Infant Vegetables	1
	001300000053 6	Natures Goodness Sweet Potatoes Infant Vegetables	1
<b>Total</b>			<b>1,737,559</b>

1. MI-WIC & EBT

2. PROGRAM  
MANAGEMENT

3. VENDOR  
MANAGEMENT

4. CLIENT  
REDEMPTION  
PATTERNS

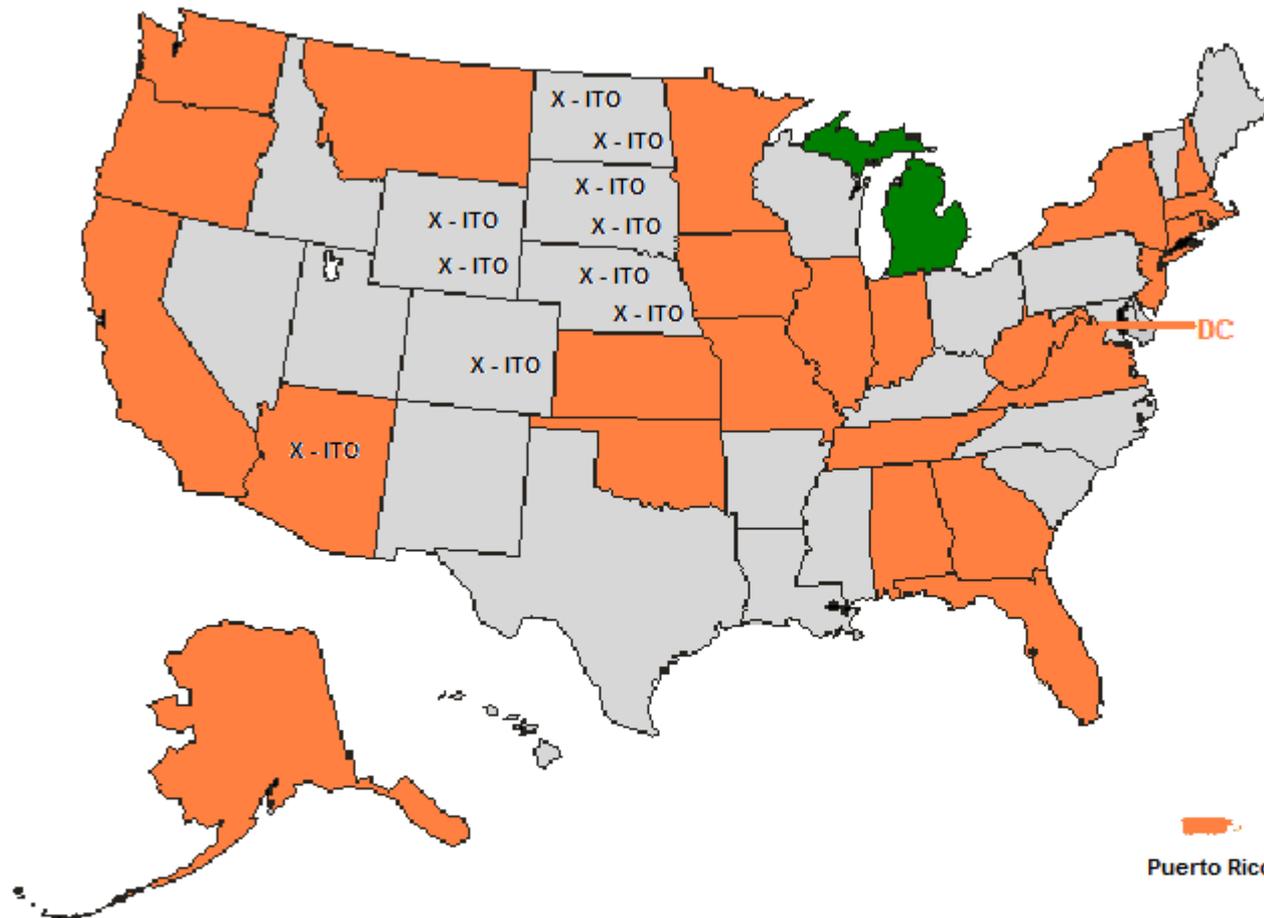
5. PROGRAM  
INTEGRITY

# Program Integrity

- Identify abnormal issuance activity, which may point to potential fraud at the clinic level.
- Inventory audit for vendors based on abnormal redemptions that may indicate possible fraud.
- Unusual activity at the client level.



# EBT-MIS Showcase Visitors



ITO = Indian Tribe Organization (WIC)

List of Visitors
Alabama
Alaska
Arizona
California
Connecticut
Florida
Georgia
Illinois
Indiana
Iowa
Kansas
Massachusetts
Minnesota
Missouri
Montana
New Hampshire
New Jersey
New York
Oklahoma
Oregon
Rhode Island
Tennessee
Virginia
Washington DC
Washington State
West Virginia
Indian Tribe Organizations
Puerto Rico
USDA Caribbean Region
USDA MARO
USDA MWRO
USDA NERO
USDA SERO

# An Average Day in the Michigan WIC Program



**54%**

Of babies born in Michigan enroll in WIC.

WIC families purchase over

**\$514,211**

in healthy foods.

**90.5%**

Of WIC families live below 150% of poverty.

**38%**

Of pregnant mothers enroll in WIC during their first trimester.

**11,556**

Clients are served.

WIC Families redeem

**76%**

of their fresh fruits and vegetables benefits.

**54.9%**

Of WIC mothers are overweight or obese pre-conception.

**16.8%** of children are overweight and **14.1%** are obese.

**8.9%**

Of infants are born at a low birth weight.

**61.2%** Of infants are breastfed.

*Celebrating 40 Years of Excellence.....*

*WIC MAKES A DIFFERENCE*



*You Are WIC*

