

**Estimates for Selected Risk Factors and Health Indicators
by Michigan Economic Development Collaborative Region**

State of Michigan

**Michigan Behavioral Risk Factor Surveillance System
(Michigan BRFSS)**

2013-2015

Lifecourse Epidemiology and Genomics Division
Bureau of Epidemiology and Population Health
Michigan Department of Health and Human Services

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Introduction

The Michigan Behavioral Risk Factor Survey (MiBRFS) is an annual, statewide telephone survey of Michigan adults aged 18 years and older that is conducted through a collaborative effort among the Population Health Surveillance Branch (PHSB) of the Centers for Disease Control and Prevention (CDC), the Michigan State University Institute for Public Policy and Social Research (IPPSR), and the Michigan Department of Health and Human Services. Michigan BRFSS data contribute to the national [Behavioral Risk Factor Surveillance System](#) that is managed by the PHSB at the CDC.

For this report, data from the 2013-2015 Michigan BRFSS were combined. The total sample sizes by year were: 8,935 in 2015, 8,466 in 2014, and 12,759 in 2013. Not all questions were included annually in the survey. The table subtitles indicate which years were used for that particular analysis.

For the 2013 through 2015 Michigan Behavioral Risk Factor Surveys, the sample of land line telephone numbers that were utilized for data collection was selected using a list-assisted, random-digit-dialed methodology with a disproportionate stratification based on phone bank density, and whether or not the phone numbers were directory listed. The sample of cell phone numbers used within each survey year was randomly selected from dedicated cellular telephone banks sorted on the basis of area code and exchange within the State of Michigan.

Iterative proportional fitting or raking was the weighting methodology used to make the 2013-2015 Michigan BRFSS data representative of the current Michigan adult population. Estimates based on this methodology were weighted to adjust for the probabilities of selection and a raking adjustment factor that adjusted for the distribution of Michigan adults by telephone source (land line vs. cell phone), detailed race/ethnicity, education level, marital status, age by gender, gender by race/ethnicity, age by race/ethnicity, and renter/owner status. No additional weighting factors were computed at the regional level, thus the weights used might not always provide accurate regional estimates, particularly when regional demographic distributions vary greatly from that of the state.

In 2016, Michigan BRFSS data from 2013-2015 were analyzed by Michigan Economic Development Collaborative (MEDC) region. A map identifying each of Michigan's ten economic development collaborative regions is included on the following page. Population-based prevalence estimates and asymmetric confidence intervals were calculated for indicators of health status, health risk behaviors, clinical preventive practices, and chronic conditions among the adult population in Michigan. All analyses were performed in SAS-Callable SUDAAN®, a statistical computing that is designed for complex sample surveys.

In an effort to provide the most reliable information possible, prevalence estimates are suppressed if they are based on a denominator of less than 50 respondents or have a relative standard error of greater than 30%.

Due to the BRFSS methodology changes that took place in 2011, the estimates provided within the following tables should not be compared to Michigan BRFSS estimates from years prior to 2011.

If you have any questions regarding any of the estimates within the following tables, please contact Chris Fussman at FussmanC@michigan.gov.



Table 1: Health Status by MEDC Region Michigan BRFSS, 2013-2015 Combined		
	General Health, Fair or Poor^a	
	%	95% Confidence Interval
Michigan Total	17.4	(16.8-18.0)
MEDC Region		
Upper Peninsula	17.3	(14.8-20.2)
Northwest	14.4	(12.1-17.0)
Northeast	24.2	(20.7-28.1)
West Central	15.3	(14.0-16.8)
Bay	17.1	(15.1-19.4)
Southwest	19.4	(17.4-21.5)
Central	14.1	(12.1-16.5)
East Central	17.4	(15.4-19.5)
South Central	15.2	(13.5-17.1)
Southeast	18.8	(17.8-19.8)

^a Among all adults, the proportion who reported that their health, in general, was either fair or poor. (N = 30,119)

**Table 2: Health Status on at Least 14 Days in the Past Month by MEDC Region
Michigan BRFSS, 2013-2015 Combined**

	Poor Physical Health ^a		Poor Mental Health ^b		Activity Limitation ^c	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Michigan Total	12.8	(12.3-13.3)	12.2	(11.7-12.8)	8.8	(8.4-9.3)
MEDC Region						
Upper Peninsula	13.6	(11.2-16.3)	11.8	(9.4-14.7)	8.0	(6.4-10.0)
Northwest	10.5	(8.6-12.8)	11.1	(8.9-13.8)	7.3	(5.7-9.3)
Northeast	16.2	(13.4-19.4)	11.8	(9.4-14.7)	9.8	(7.7-12.4)
West Central	12.0	(10.9-13.2)	11.9	(10.6-13.3)	8.4	(7.3-9.6)
Bay	14.0	(12.0-16.2)	11.2	(9.3-13.3)	9.1	(7.5-11.0)
Southwest	13.6	(12.0-15.5)	12.8	(11.0-14.8)	10.2	(8.7-11.9)
Central	11.1	(9.3-13.1)	11.9	(9.8-14.5)	7.3	(5.7-9.3)
East Central	14.2	(12.4-16.2)	12.8	(11.0-14.8)	10.8	(9.1-12.6)
South Central	12.9	(11.3-14.7)	12.7	(11.0-14.7)	8.4	(7.1-10.0)
Southeast	12.7	(11.9-13.6)	12.6	(11.8-13.6)	9.0	(8.3-9.7)

^a Among all adults, the proportion who reported 14 or more days of poor physical health, which includes physical illness and injury, during the past 30 days. (N = 29,730)

^b Among all adults, the proportion who reported 14 or more days of poor mental health, which includes stress, depression, and problems with emotions, during the past 30 days. (N = 29,771)

^c Among all adults, the proportion who reported 14 or more days in the past 30 days in which either poor physical health or poor mental health kept respondents from doing their usual activities, such as self-care, work, and recreation. (N = 29,905)

Table 3: Mean Number of Days of Poor Physical Health, Poor Mental Health, and Activity Limitations by MEDC Region
Michigan BRFSS, 2013-2015 Combined

	Poor Physical Health ^a		Poor Mental Health ^b		Activity Limitation ^c	
	Mean # of days	95% Confidence Interval	Mean # of days	95% Confidence Interval	Mean # of days	95% Confidence Interval
Michigan Total	4.1	(4.0-4.2)	3.9	(3.8-4.1)	2.7	(2.6-2.8)
MEDC Region						
Upper Peninsula	4.3	(3.7-5.0)	3.6	(3.0-4.1)	2.6	(2.2-3.1)
Northwest	3.6	(3.1-4.2)	3.5	(2.9-4.0)	2.3	(1.9-2.7)
Northeast	5.3	(4.5-6.1)	3.6	(3.0-4.3)	3.2	(2.6-3.8)
West Central	3.8	(3.5-4.1)	3.8	(3.5-4.1)	2.5	(2.2-2.8)
Bay	4.4	(3.8-5.0)	3.6	(3.1-4.1)	2.8	(2.4-3.3)
Southwest	4.4	(4.0-4.9)	4.1	(3.6-4.5)	3.1	(2.7-3.5)
Central	3.5	(3.1-4.0)	3.9	(3.3-4.4)	2.4	(2.0-2.8)
East Central	4.6	(4.1-5.1)	4.0	(3.5-4.5)	3.3	(2.8-3.8)
South Central	3.9	(3.5-4.4)	4.2	(3.7-4.6)	2.5	(2.1-2.8)
Southeast	4.1	(3.9-4.3)	4.1	(3.9-4.3)	2.7	(2.5-2.9)

^a Among all adults, the mean number of days during the past 30 days in which physical health, including illness and injury, was not good. (N = 29,730)

^b Among all adults, the mean number of days during the past 30 days in which mental health, including stress, depression, and problems with emotions, was not good. (N = 29,771)

^c Among all adults, the mean number of days during the past 30 days in which poor physical health or poor mental health kept respondent from doing their usual activities, such as self-care, work, and recreation. (N = 29,905)

Table 4: Disability by MEDC Region
Michigan BRFSS, 2013-2015 Combined

	Total Disability ^a		Any Activity Limitation ^b		Used Special Equipment ^c	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Michigan Total	25.2	(24.5-25.8)	22.7	(22.1-23.3)	9.8	(9.4-10.3)
MEDC Region						
Upper Peninsula	27.0	(23.9-30.2)	24.8	(21.8-28.0)	8.7	(7.0-10.7)
Northwest	23.0	(20.2-26.0)	21.7	(18.9-24.7)	7.0	(5.6-8.7)
Northeast	32.8	(29.0-36.8)	29.6	(26.0-33.6)	13.1	(10.7-15.9)
West Central	24.1	(22.6-25.7)	21.7	(20.3-23.3)	8.8	(7.9-9.8)
Bay	26.7	(24.3-29.3)	24.4	(22.1-27.0)	9.3	(7.8-11.0)
Southwest	25.2	(23.1-27.4)	23.1	(21.1-25.2)	10.1	(8.8-11.6)
Central	21.5	(19.0-24.2)	20.6	(18.1-23.3)	8.5	(6.9-10.4)
East Central	26.9	(24.6-29.3)	23.7	(21.5-26.1)	12.3	(10.7-14.1)
South Central	24.3	(22.3-26.4)	21.8	(19.9-23.9)	7.9	(6.8-9.2)
Southeast	25.7	(24.6-26.8)	23.0	(21.9-24.0)	10.9	(10.1-11.7)

^a Among all adults, the proportion who reported being limited in any activities because of physical, mental, or emotional problems, or reported that they required use of special equipment (such as a cane, a wheelchair, a special bed, or a special telephone) due to a health problem. (N = 29,567)

^b Among all adults, the proportion who reported being limited in any activities because of physical, mental, or emotional problems. (N = 29,581)

^c Among all adults, the proportion who reported that they required use of special equipment (such as a can, a wheelchair, a special bed, or a special telephone) due to a health problem. (N = 29,648)

Table 5: Weight Status by MEDC Region
Michigan BRFSS, 2013-2015 Combined

	Obese ^a		Overweight ^b		Healthy Weight ^c		Underweight ^d	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Michigan Total	31.1	(30.4-31.8)	34.9	(34.2-35.6)	32.4	(31.6-33.1)	1.6	(1.4-1.8)
MEDC Region								
Upper Peninsula	31.2	(27.8-34.8)	33.3	(30.0-36.7)	33.9	(30.3-37.6)	1.7	(1.0-2.8)
Northwest	29.3	(26.1-32.7)	36.8	(33.3-40.5)	33.3	(29.7-37.0)	-- ^e	-- ^e
Northeast	35.1	(31.1-39.2)	37.8	(33.5-42.2)	26.1	(22.4-30.1)	-- ^e	-- ^e
West Central	30.6	(28.9-32.4)	35.7	(33.9-37.6)	32.0	(30.2-33.9)	1.6	(1.2-2.2)
Bay	35.2	(32.5-38.0)	35.5	(32.8-38.3)	27.5	(25.0-30.2)	1.7	(1.0-3.1)
Southwest	33.2	(30.8-35.8)	32.5	(30.1-35.1)	32.4	(29.9-35.0)	1.8	(1.1-3.0)
Central	31.2	(28.2-34.4)	31.4	(28.4-34.5)	35.7	(32.4-39.1)	1.7	(1.0-3.0)
East Central	32.3	(29.8-35.0)	36.3	(33.6-39.1)	30.0	(27.4-32.6)	1.4	(0.9-2.1)
South Central	29.9	(27.7-32.2)	36.3	(34.0-38.8)	32.4	(30.1-34.8)	1.4	(0.9-2.1)
Southeast	30.7	(29.4-31.9)	34.8	(33.6-36.1)	32.9	(31.7-34.2)	1.6	(1.3-2.0)

Note: BMI, body mass index, is defined as weight (in kilograms) divided by height (in meters) squared [weight in kg/(height in meters)²]. Weight and height were self-reported. Pregnant women were excluded. (N = 28,530)

^a Among all adults, the proportion of respondents whose BMI was greater than or equal to 30.0.

^b Among all adults, the proportion of respondents whose BMI was greater than or equal to 25.0, but less than 30.0.

^c Among all adults, the proportion of respondents whose BMI was greater than or equal to 18.5, but less than 25.0.

^d Among all adults, the proportion of respondents whose BMI was less than 18.5.

^e Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Table 6: Health Care Coverage Among Adults 18-64 Years Old by MEDC Region Michigan BRFSS, 2013-2015 Combined		
	No Health Care Coverage^a (Among 18 - 64 year olds)	
	%	95% Confidence Interval
Michigan Total	14.0	(13.4-14.7)
MEDC Region		
Upper Peninsula	14.4	(11.5-17.8)
Northwest	17.0	(13.9-20.6)
Northeast	18.7	(14.7-23.4)
West Central	14.7	(13.0-16.6)
Bay	15.3	(12.8-18.1)
Southwest	12.7	(10.6-15.0)
Central	11.3	(9.0-14.1)
East Central	13.2	(11.0-15.8)
South Central	10.6	(8.8-12.8)
Southeast	14.6	(13.5-15.9)
^a Among adults aged 18-64 years, the proportion who reported having no health care coverage, including health insurance, prepaid plans such as HMOs, or government plans, such as Medicare or Indian Health Services. (N = 19,823)		

Table 7: Health Care Access by MEDC Region Michigan BRFSS, 2013-2015 Combined				
	No Personal Health Care Provider^a		No Health Care Access During Past 12 Months Due to Cost^b	
	%	95% Confidence Interval	%	95% Confidence Interval
Michigan Total	15.9	(15.4-16.6)	14.2	(13.7-14.8)
MEDC Region				
Upper Peninsula	13.0	(10.8-15.6)	10.6	(8.6-13.0)
Northwest	15.1	(12.3-18.4)	13.1	(10.8-15.7)
Northeast	16.7	(13.6-20.3)	16.0	(13.0-19.5)
West Central	13.4	(11.9-14.9)	15.2	(13.8-16.8)
Bay	16.7	(14.6-19.1)	13.3	(11.4-15.4)
Southwest	19.8	(17.6-22.2)	14.8	(13.0-16.9)
Central	16.7	(14.2-19.6)	12.3	(10.2-14.8)
East Central	15.8	(13.6-18.2)	15.2	(13.2-17.5)
South Central	14.8	(13.0-16.9)	12.5	(10.7-14.5)
Southeast	15.4	(14.4-16.4)	14.7	(13.8-15.8)

^a Among all adults, the proportion who reported that they did not have anyone that they thought of as their personal doctor or health care provider. (N = 30,020)

^b Among all adults, the proportion who reported that in the past 12 months, they could not see a doctor when they needed to due to the cost. (N = 30,099)

Table 8: No Leisure Time Physical Activity by MEDC Region Michigan BRFSS, 2013-2015 Combined		
	No Leisure Time Physical Activity^a	
	%	95% Confidence Interval
Michigan Total	25.1	(24.5-25.8)
MEDC Region		
Upper Peninsula	23.4	(20.3-26.9)
Northwest	22.3	(19.4-25.6)
Northeast	24.3	(20.9-28.0)
West Central	23.4	(21.9-25.1)
Bay	26.9	(24.4-29.5)
Southwest	28.7	(26.2-31.3)
Central	23.9	(21.2-26.9)
East Central	28.2	(25.7-30.8)
South Central	23.5	(21.4-25.7)
Southeast	25.6	(24.4-26.8)

^a Among all adults, the proportion who reported not participating in any leisure time physical activities or exercises such as running, calisthenics, golf, gardening, or walking during the past month. (N = 29,060)

**Table 9: Aerobic Physical Activity and Muscle Strengthening by MEDC Region
Michigan BRFSS, 2013 and 2015 Combined**

	Adequate Aerobic Physical Activity (≥ 150 minutes / week) ^a		Adequate Muscle Strengthening (≥ 2 days / week) ^b	
	%	95% Confidence Interval	%	95% Confidence Interval
Michigan Total	52.6	(51.6-53.5)	29.0	(28.2-29.9)
MEDC Region				
Upper Peninsula	57.5	(53.2-61.7)	28.8	(25.1-32.8)
Northwest	59.0	(54.9-62.9)	30.5	(26.8-34.4)
Northeast	53.4	(48.3-58.5)	27.3	(22.9-32.2)
West Central	52.6	(50.3-54.9)	27.5	(25.6-29.6)
Bay	52.4	(49.0-55.8)	27.4	(24.4-30.5)
Southwest	48.5	(45.3-51.7)	27.0	(24.4-29.9)
Central	53.1	(49.1-57.0)	31.2	(27.7-34.9)
East Central	52.6	(49.1-56.0)	25.4	(22.5-28.4)
South Central	54.0	(51.1-56.9)	30.1	(27.5-32.9)
Southeast	51.9	(50.3-53.6)	29.9	(28.3-31.4)

^a Among all adults, the proportion who reported that they do either moderate physical activities for at least 150 minutes per week, vigorous physical activities for at least 75 minutes per week, or an equivalent combination of moderate and vigorous physical activities. (N = 19,944)

^b Among all adults, the proportion who reported that they do muscle strengthening activities on two or more days per week. (N = 20,343)

Table 10: Adequate Physical Activity by MEDC Region Michigan BRFSS, 2013 and 2015 Combined		
	Adequate Physical Activity^a	
	%	95% Confidence Interval
Michigan Total	19.5	(18.8-20.3)
MEDC Region		
Upper Peninsula	21.7	(18.2-25.6)
Northwest	21.7	(18.4-25.5)
Northeast	18.4	(14.7-22.7)
West Central	18.8	(17.1-20.7)
Bay	18.3	(15.8-21.0)
Southwest	17.2	(15.0-19.6)
Central	20.2	(17.3-23.5)
East Central	16.9	(14.5-19.6)
South Central	20.7	(18.6-23.1)
Southeast	20.0	(18.7-21.4)
^a Among all adults, the proportion who reported that they do either moderate physical activities for at least 150 minutes per week, vigorous physical activities for at least 75 minutes per week, or an equivalent combination of moderate and vigorous physical activities and also participate in muscle strengthening activities on two or more days per week. (N = 19,769)		

Table 11: Fruit and Vegetable Consumption by MEDC Region
Michigan BRFSS, 2013 and 2015 Combined

	Fruits (< 1 time / day) ^a		Vegetables (< 1 time / day) ^b		Fruits and Vegetables (≥ 5 times / day) ^c	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Michigan Total	38.7	(37.8-39.6)	24.7	(23.9-25.6)	14.9	(14.2-15.5)
MEDC Region						
Upper Peninsula	12.0	(10.0-14.5)	36.2	(32.0-40.7)	23.1	(19.5-27.1)
Northwest	15.3	(12.6-18.4)	32.5	(28.9-36.4)	16.8	(13.7-20.4)
Northeast	13.2	(10.4-16.7)	38.4	(33.4-43.6)	21.4	(17.3-26.2)
West Central	12.9	(11.6-14.3)	41.1	(38.9-43.3)	26.2	(24.2-28.4)
Bay	12.1	(10.2-14.3)	40.3	(37.0-43.7)	31.4	(28.2-34.9)
Southwest	14.5	(12.5-16.7)	40.8	(37.7-44.0)	25.0	(22.2-28.1)
Central	15.2	(12.7-18.1)	38.0	(34.2-41.9)	24.3	(21.0-28.0)
East Central	13.1	(11.0-15.5)	41.2	(37.9-44.6)	27.2	(24.2-30.4)
South Central	13.4	(11.8-15.2)	41.3	(38.5-44.2)	22.4	(20.0-25.0)
Southeast	17.3	(16.1-18.5)	36.9	(35.3-38.5)	23.9	(22.5-25.3)

^a Among all adults, the proportion whose total reported consumption of fruits (including juice) was less than one time per day (N = 20,297)

^b Among all adults, the proportion whose total reported consumption of vegetables was less than one time per day. (N = 20,024)

^c Among all adults, the proportion whose total reported consumption of fruits (including juice) and vegetables was five or more times per day. (N = 20,702)

**Table 12: Cigarette Smoking by MEDC Region
Michigan BRFSS, 2013-2015 Combined**

	Current Smoking ^a		Former Smoking ^b		Never Smoked	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Michigan Total	21.1	(20.4-21.8)	26.7	(26.0-27.3)	52.2	(51.5-53.0)
MEDC Region						
Upper Peninsula	20.4	(17.6-23.5)	30.9	(27.7-34.2)	48.8	(45.1-52.5)
Northwest	19.4	(16.5-22.6)	30.7	(27.6-34.0)	49.9	(46.3-53.6)
Northeast	24.7	(21.1-28.7)	33.2	(29.2-37.4)	42.1	(37.8-46.4)
West Central	19.3	(17.7-21.0)	25.7	(24.2-27.3)	55.0	(53.1-56.8)
Bay	23.2	(20.7-25.9)	26.8	(24.5-29.2)	50.0	(47.2-52.8)
Southwest	20.4	(18.2-22.7)	27.4	(25.2-29.8)	52.2	(49.5-54.8)
Central	18.2	(15.7-21.0)	25.3	(22.7-28.2)	56.5	(53.2-59.8)
East Central	24.2	(21.7-26.9)	26.9	(24.6-29.3)	48.9	(46.1-51.7)
South Central	18.6	(16.6-20.8)	27.5	(25.5-29.6)	53.9	(51.5-56.4)
Southeast	22.2	(21.0-23.4)	26.4	(25.3-27.5)	51.5	(50.1-52.8)

^a Among all adults, the proportion who reported that they had ever smoked at least 100 cigarettes (5 packs) in their life and that they smoke cigarettes now, either every day or on some days. (N = 29,402)

^b Among all adults, the proportion who reported that they had ever smoked at least 100 cigarettes (5 packs) in their life, but they do not smoke cigarettes now. (N = 29,402)

Table 13: Current Smokers Who Attempted to Quit by MEDC Region Michigan BRFSS, 2013-2015 Combined		
	Tried to Quit Smoking One Day or Longer in Past Year^a	
	%	95% Confidence Interval
Michigan Total	62.3	(60.5-64.0)
MEDC Region		
Upper Peninsula	55.1	(46.9-63.1)
Northwest	53.7	(44.6-62.6)
Northeast	58.6	(49.7-66.9)
West Central	61.0	(56.3-65.6)
Bay	60.7	(54.0-67.0)
Southwest	59.5	(53.2-65.6)
Central	59.4	(51.3-67.1)
East Central	63.4	(57.2-69.1)
South Central	59.0	(52.4-65.3)
Southeast	65.7	(62.7-68.7)

^a Among current smokers, the proportion who reported that during the past 12 months, they had tried to quit smoking for one day or longer. (N = 4,895)

Table 14: Current Hookah Use by MEDC Region Michigan BRFSS, 2013-2015 Combined		
	Current Hookah Use^a	
	%	95% Confidence Interval
Michigan Total	4.1	(3.7-4.6)
MEDC Region		
Upper Peninsula	-- ^b	-- ^b
Northwest	3.7	(2.2-6.1)
Northeast	-- ^b	-- ^b
West Central	3.5	(2.6-4.7)
Bay	3.6	(2.3-5.7)
Southwest	3.5	(2.3-5.2)
Central	4.2	(2.6-6.8)
East Central	3.4	(2.2-5.3)
South Central	3.4	(2.4-4.9)
Southeast	5.0	(4.2-5.9)
^a Among all adults, the proportion who reported smoking tobacco using a hookah, narghile, or water pipe on one or more days during the previous thirty day. (N = 18,427) ^b Suppressed due to a denominator < 50 and/or a relative standard error > 30%.		

Table 15: Alcohol Consumption by MEDC Region
Michigan BRFSS, 2013-2015 Combined

	Any Alcohol in Past Month ^a		Heavy Drinking ^b		Binge Drinking ^c	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Michigan Total	56.8	(56.1-57.6)	6.5	(6.2-6.9)	18.8	(18.2-19.4)
MEDC Region						
Upper Peninsula	53.8	(50.1-57.5)	7.5	(5.9-9.5)	19.5	(16.8-22.5)
Northwest	58.0	(54.3-61.6)	9.6	(7.5-12.1)	17.4	(14.7-20.5)
Northeast	56.5	(52.2-60.7)	7.8	(5.7-10.6)	22.2	(18.7-26.2)
West Central	56.7	(54.8-58.5)	6.5	(5.6-7.5)	18.4	(16.9-19.9)
Bay	51.8	(48.9-54.6)	7.1	(5.8-8.8)	19.0	(16.6-21.6)
Southwest	51.6	(48.9-54.3)	7.6	(6.3-9.2)	17.3	(15.3-19.5)
Central	60.3	(56.9-63.5)	6.9	(5.3-8.9)	21.8	(19.1-24.9)
East Central	51.9	(49.1-54.7)	4.8	(3.6-6.3)	15.8	(13.7-18.1)
South Central	61.6	(59.2-64.0)	6.6	(5.5-8.0)	20.3	(18.3-22.5)
Southeast	58.0	(56.7-59.3)	6.1	(5.5-6.8)	18.4	(17.4-19.5)

^a Among all adults, the proportion who reported consuming at least one drink of any alcoholic beverage in the previous month. (N = 29,287)

^b Among all adults, the proportion who reported consuming an average of more than two alcoholic drinks per day for men or more than one per day for women in the previous month. (N = 29,024)

^c Among all adults, the proportion who reported consuming five or more drinks per occasion (for men) or 4 or more drinks per occasion (for women) at least once in the previous month. (N = 29,071)

Table 16: Mean Number of Binge Drinking Occasions during the Past Month among Binge Drinkers by MEDC Region Michigan BRFSS, 2013-2015 Combined		
	Number of Binge Drinking Occasions^a	
	Mean	95% Confidence Interval
Michigan Total	4.6	(4.3-4.8)
MEDC Region		
Upper Peninsula	4.6	(3.6-5.6)
Northwest	4.1	(2.8-5.3)
Northeast	6.2	(4.5-7.9)
West Central	4.4	(3.9-5.0)
Bay	4.5	(3.7-5.3)
Southwest	4.5	(3.7-5.3)
Central	4.6	(3.7-5.5)
East Central	3.6	(3.0-4.2)
South Central	5.4	(3.9-6.9)
Southeast	4.5	(4.0-4.9)
^a Among adults who binge drank in the past month, the mean number of times during which five or more alcoholic beverages (for men) or four or more (for women) were consumed during the past month. (N = 4,427)		

Table 17: Seatbelt Use by MEDC Region Michigan BRFSS, 2013-2015 Combined		
	Always Uses a Seatbelt^a	
	%	95% Confidence Interval
Michigan Total	89.2	(88.6-89.7)
MEDC Region		
Upper Peninsula	86.4	(83.8-88.7)
Northwest	90.0	(87.3-92.3)
Northeast	88.2	(84.5-91.1)
West Central	88.5	(87.1-89.7)
Bay	87.7	(85.4-89.7)
Southwest	89.3	(87.4-90.8)
Central	89.7	(87.2-91.8)
East Central	89.5	(87.5-91.3)
South Central	89.1	(87.2-90.7)
Southeast	90.0	(89.1-90.9)

^a Among all adults, the proportion who reported always using a seatbelt when driving or riding in a car. (N = 28,622)

Table 18: Hypertension Awareness and Medication Use by MEDC Region Michigan BRFSS, 2013 and 2015 Combined				
	Ever Told HBP^a		Taking BP Medication^b	
	%	95% Confidence Interval	%	95% Confidence Interval
Michigan Total	33.9	(33.1-34.7)	76.9	(75.6-78.2)
MEDC Region				
Upper Peninsula	33.7	(30.3-37.3)	82.6	(78.1-86.3)
Northwest	34.1	(30.5-37.8)	75.5	(69.7-80.6)
Northeast	43.7	(38.9-48.5)	82.8	(77.3-87.3)
West Central	31.8	(30.0-33.7)	76.6	(73.4-79.5)
Bay	35.4	(32.4-38.6)	76.0	(70.5-80.7)
Southwest	32.5	(29.9-35.2)	80.1	(76.0-83.6)
Central	31.1	(27.9-34.6)	72.9	(66.2-78.7)
East Central	36.1	(33.1-39.1)	73.2	(68.3-77.7)
South Central	31.6	(29.1-34.1)	75.6	(70.9-79.8)
Southeast	35.6	(34.2-37.1)	78.2	(75.9-80.3)

^a Among all adults, the proportion who reported that they were ever told by a doctor that they had high blood pressure (HBP). Women who had HBP only during pregnancy and adults who were borderline hypertensive were considered to not have been diagnosed. (N = 21,635)

^b Among adults who were ever told that they had HBP, the proportion that reported they were currently taking blood pressure (BP) medicines for their HBP. (N = 8,791)

Table 19: Cholesterol Screening and Awareness by MEDC Region
Michigan BRFSS, 2013 and 2015 Combined

	Cholesterol Ever Checked ^a		Checked Within Past Five Years ^b		Ever Told High Cholesterol ^c	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Michigan Total	83.3	(82.5-84.0)	79.3	(78.4-80.1)	39.4	(38.5-40.3)
MEDC Region						
Upper Peninsula	82.8	(78.6-86.3)	79.0	(74.8-82.6)	39.3	(35.4-43.4)
Northwest	84.7	(81.0-87.7)	81.2	(77.5-84.5)	42.9	(38.8-47.1)
Northeast	84.0	(79.4-87.8)	79.9	(74.9-84.1)	48.5	(43.3-53.7)
West Central	82.4	(80.3-84.4)	78.6	(76.4-80.6)	38.5	(36.3-40.6)
Bay	83.0	(79.9-85.6)	79.2	(76.0-82.1)	42.1	(38.7-45.5)
Southwest	79.1	(76.0-81.8)	74.3	(71.1-77.2)	39.3	(36.2-42.4)
Central	80.7	(77.0-83.9)	77.1	(73.3-80.6)	40.1	(36.2-44.1)
East Central	86.8	(84.3-88.9)	81.8	(78.9-84.3)	39.5	(36.2-42.9)
South Central	83.3	(80.8-85.6)	77.9	(75.2-80.5)	39.0	(36.2-41.9)
Southeast	85.1	(83.8-86.4)	81.6	(80.1-83.0)	39.0	(37.5-40.6)

^a Among all adults, the proportion who reported ever having had their blood cholesterol checked. (N = 21,255)

^b Among all adults, the proportion who reported that they have had their blood cholesterol checked within the past five years. (N = 21,006)

^c Among adults who ever had their blood cholesterol checked, the proportion who reported that a doctor, nurse, or other health professional had told them that their cholesterol was high. (N = 18,808)

Table 20: No Routine Checkup in Past Year by MEDC Region Michigan BRFSS, 2013-2015 Combined		
	Had No Routine Checkup in Past Year^a	
	%	95% Confidence Interval
Michigan Total	28.8	(28.1-29.5)
MEDC Region		
Upper Peninsula	27.3	(24.2-30.6)
Northwest	30.8	(27.3-34.5)
Northeast	27.6	(24.0-31.6)
West Central	30.0	(28.2-31.9)
Bay	29.4	(26.8-32.1)
Southwest	31.9	(29.4-34.5)
Central	28.0	(25.1-31.1)
East Central	29.5	(27.0-32.1)
South Central	29.0	(26.8-31.3)
Southeast	27.0	(25.8-28.2)

^a Among all adults, the proportion who reported that they did not have a routine checkup in the past year. (N = 29,816)

**Table 21: Colorectal Cancer Screening (Blood Stool Test) Among Adults Aged 50 Years and Older by MEDC Region
 Michigan BRFSS, 2013-2015 Combined**

	Ever Had Blood Stool Test ^a		Had Blood Stool Test in Past Two Years ^b	
	%	95% Confidence Interval	%	95% Confidence Interval
Michigan Total	35.9	(35.1-36.8)	14.0	(13.4-14.7)
MEDC Region				
Upper Peninsula	39.4	(35.5-43.5)	12.0	(9.4-15.2)
Northwest	38.2	(34.2-42.3)	14.4	(11.6-17.7)
Northeast	35.0	(30.6-39.7)	11.6	(9.1-14.7)
West Central	37.2	(35.2-39.3)	11.0	(9.7-12.3)
Bay	40.8	(37.7-44.0)	18.3	(15.9-20.9)
Southwest	38.2	(35.3-41.2)	15.3	(13.2-17.7)
Central	48.1	(44.1-52.2)	17.3	(14.5-20.6)
East Central	36.0	(32.9-39.2)	18.9	(16.4-21.6)
South Central	34.0	(31.4-36.7)	12.6	(10.9-14.6)
Southeast	32.7	(31.3-34.2)	13.4	(12.4-14.6)

^a Among adults aged 50 years and older, the proportion who reported ever having a blood stool test using a home kit. (N = 18,469)

^b Among adults aged 50 years and older, the proportion whose reported having a blood stool test within the past two years using a home kit. (N = 18,206)

**Table 22: Colorectal Cancer Screening (Sigmoidoscopy/Colonoscopy) Among Adults Aged 50 Years and Older by MEDC Region
Michigan BRFSS, 2013-2015 Combined**

	Ever Had a Sigmoidoscopy or Colonoscopy ^a		Had a Sigmoidoscopy or Colonoscopy in Past 5 Years ^b		Had a Sigmoidoscopy in Past 5 Years or Colonoscopy in Past 10 Years ^c	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Michigan Total	74.4	(73.6-75.3)	56.8	(55.9-57.7)	69.2	(68.3-70.1)
MEDC Region						
Upper Peninsula	76.2	(72.5-79.6)	54.6	(50.4-58.8)	70.3	(66.2-74.0)
Northwest	76.4	(72.5-79.9)	58.5	(54.3-62.6)	71.9	(67.9-75.6)
Northeast	69.6	(64.6-74.2)	50.4	(45.4-55.5)	66.2	(61.1-70.9)
West Central	77.2	(75.2-79.1)	56.9	(54.8-59.1)	71.5	(69.4-73.5)
Bay	74.1	(70.9-77.1)	57.0	(53.7-60.3)	68.9	(65.6-72.0)
Southwest	71.3	(68.2-74.2)	53.4	(50.3-56.6)	65.8	(62.7-68.9)
Central	77.7	(73.8-81.2)	58.6	(54.5-62.6)	73.0	(68.9-76.7)
East Central	76.1	(73.0-78.9)	60.3	(56.9-63.5)	71.0	(67.8-74.0)
South Central	75.1	(72.3-77.6)	56.4	(53.5-59.3)	70.1	(67.3-72.8)
Southeast	73.3	(71.7-74.8)	57.2	(55.6-58.8)	68.0	(66.4-69.6)

^a Among adults aged 50 years and older, the proportion who reported ever having a sigmoidoscopy or colonoscopy. (N = 18,514)

^b Among adults aged 50 years and older, the proportion who reported having a sigmoidoscopy or colonoscopy in the past five years. (N = 18,321)

^c Among adults aged 50 years and older, the proportion who reported having a sigmoidoscopy in the past five years or a colonoscopy in the past ten years. (N = 18,074)

Table 23: Appropriate Colorectal Cancer Screening Among Adults Aged 50 Years and Older by MEDC Region Michigan BRFSS, 2013-2015 Combined		
	Appropriate Colorectal Cancer Screening^a	
	%	95% Confidence Interval
Michigan Total	71.5	(70.6-72.4)
MEDC Region		
Upper Peninsula	72.3	(68.3-76.0)
Northwest	73.6	(69.6-77.2)
Northeast	67.5	(62.5-72.2)
West Central	73.4	(71.3-75.4)
Bay	71.0	(67.7-74.0)
Southwest	67.9	(64.7-70.9)
Central	75.7	(71.7-79.3)
East Central	74.0	(70.9-77.0)
South Central	72.7	(70.0-75.3)
Southeast	70.5	(68.9-72.0)
^a Among adults aged 50 years and older, the proportion who reported having either a fecal occult blood test within the past year, a sigmoidoscopy within the past five years, or a colonoscopy within the past ten years. (N = 18,108)		

**Table 24: Immunizations among Adults Aged 65 Years and Older by MEDC Region
Michigan BRFSS, 2013-2015 Combined**

	Had Flu Vaccine in Past Year ^a		Ever Had Pneumonia Vaccine ^b	
	%	95% Confidence Interval	%	95% Confidence Interval
Michigan Total	57.4	(56.1-58.6)	70.2	(69.0-71.4)
MEDC Region				
Upper Peninsula	62.7	(57.2-67.8)	71.1	(65.7-76.0)
Northwest	62.4	(56.2-68.2)	70.9	(64.5-76.6)
Northeast	53.2	(46.2-60.1)	75.5	(69.0-81.0)
West Central	59.8	(56.7-62.8)	75.1	(72.2-77.7)
Bay	55.2	(50.6-59.6)	68.6	(64.2-72.7)
Southwest	57.5	(53.1-61.8)	71.7	(67.3-75.7)
Central	65.7	(60.4-70.7)	70.8	(65.3-75.7)
East Central	53.4	(48.8-58.0)	69.9	(65.4-74.0)
South Central	60.3	(56.1-64.3)	73.8	(70.0-77.3)
Southeast	55.7	(53.5-57.9)	67.5	(65.2-69.7)

^a Among adults aged 65 years and older, the proportion who reported that they had a flu vaccine, either by an injection in the arm or sprayed in the nose during the past 12 months. (N = 9,502)

^b Among adults aged 65 years and older, the proportion who reported that they ever had a pneumococcal vaccine. (N = 9,180)

Table 25: HIV Testing among Adults Aged 18 - 64 Years by MEDC Region Michigan BRFSS, 2013-2015 Combined		
	Ever Had an HIV Test^a	
	%	95% Confidence Interval
Michigan Total	40.9	(40.0-41.9)
MEDC Region		
Upper Peninsula	32.0	(28.0-36.3)
Northwest	34.4	(30.1-39.0)
Northeast	31.6	(26.6-37.0)
West Central	37.5	(35.3-39.7)
Bay	34.1	(30.8-37.7)
Southwest	39.4	(36.2-42.6)
Central	39.1	(35.2-43.1)
East Central	41.9	(38.5-45.4)
South Central	37.0	(34.2-39.9)
Southeast	46.7	(45.1-48.3)

^a Among adults aged 18 - 64 years, the proportion who reported that they ever had been tested for HIV, apart from tests that were part of a blood donation. Don't know was considered a valid response to this question. (N = 18,252)

Table 26: Asthma among Adults by MEDC Region Michigan BRFSS, 2013-2015 Combined				
	Lifetime Asthma Prevalence^a		Current Asthma Prevalence^b	
	%	95% Confidence Interval	%	95% Confidence Interval
Michigan Total	15.9	(15.3-16.5)	10.9	(10.4-11.3)
MEDC Region				
Upper Peninsula	17.6	(14.8-20.8)	11.7	(9.5-14.2)
Northwest	11.6	(9.5-14.1)	8.0	(6.2-10.3)
Northeast	15.0	(11.8-18.8)	10.2	(7.6-13.5)
West Central	15.2	(13.9-16.6)	10.4	(9.3-11.7)
Bay	13.6	(11.8-15.6)	8.1	(6.8-9.6)
Southwest	15.6	(13.8-17.6)	11.0	(9.5-12.7)
Central	16.5	(14.2-19.1)	11.1	(9.2-13.4)
East Central	15.9	(14.0-18.0)	12.6	(10.9-14.5)
South Central	16.8	(15.0-18.8)	10.1	(8.7-11.7)
Southeast	16.7	(15.7-17.7)	11.8	(10.9-12.7)

^a Among all adults, the proportion who reported that they were ever told by a doctor, nurse, or other health care professional that they had asthma. (N = 30,029)
^b Among all adults, the proportion who reported that they still had asthma. (N = 29,876)

Table 27: Asthma among Children by MEDC Region Michigan BRFSS, 2013-2015 Combined				
	Lifetime Asthma Prevalence^a		Current Asthma Prevalence^b	
	%	95% Confidence Interval	%	95% Confidence Interval
Michigan Total	13.7	(12.7-14.7)	9.7	(8.8-10.6)
MEDC Region				
Upper Peninsula	10.8	(6.6-17.0)	8.4	(4.6-14.9)
Northwest	7.3	(4.5-11.8)	-- ^c	-- ^c
Northeast	12.1	(7.0-20.2)	-- ^c	-- ^c
West Central	15.3	(12.9-18.0)	11.2	(9.1-13.8)
Bay	15.0	(11.3-19.7)	9.2	(6.3-13.2)
Southwest	11.8	(8.7-15.8)	8.1	(5.5-11.9)
Central	14.1	(10.1-19.2)	10.8	(7.3-15.6)
East Central	13.4	(9.9-17.9)	10.6	(7.4-15.0)
South Central	15.6	(12.5-19.4)	10.8	(8.1-14.2)
Southeast	13.5	(11.9-15.2)	9.6	(8.2-11.2)
^a Estimated proportion of Michigan children aged 0-17 years who were ever told by a doctor, nurse or other health professional that they had asthma, using proxy information from the adult respondent. (N = 6,570). ^b Estimated proportion of Michigan children aged 0-17 years who still have asthma, using proxy information from the adult respondent. (N = 6,548) ^c Suppressed due to a denominator < 50 and/or a relative standard error > 30%.				

Table 28: Chronic Obstructive Pulmonary Disease (COPD) by MEDC Region Michigan BRFSS, 2013-2015 Combined		
	Ever Told COPD, Emphysema or Chronic Bronchitis^a	
	%	95% Confidence Interval
Michigan Total	8.4	(8.0-8.8)
MEDC Region		
Upper Peninsula	6.9	(5.4-8.8)
Northwest	7.7	(6.0-9.8)
Northeast	12.8	(10.0-16.3)
West Central	7.1	(6.2-8.0)
Bay	9.3	(7.8-10.9)
Southwest	8.1	(6.9-9.5)
Central	6.5	(5.1-8.2)
East Central	10.5	(9.0-12.3)
South Central	8.1	(6.9-9.4)
Southeast	9.0	(8.3-9.7)

^a Among all adults, the proportion who reported ever being told by a doctor that they had chronic obstructive pulmonary disease (COPD), emphysema or chronic bronchitis. (N = 29,994)

Table 29: Arthritis by MEDC Region Michigan BRFSS, 2013-2015 Combined		
	Ever Told Arthritis^a	
	%	95% Confidence Interval
Michigan Total	31.1	(30.4-31.7)
MEDC Region		
Upper Peninsula	37.0	(33.7-40.5)
Northwest	34.7	(31.4-38.1)
Northeast	39.7	(35.7-43.9)
West Central	30.1	(28.5-31.7)
Bay	34.5	(32.0-37.1)
Southwest	31.7	(29.5-34.0)
Central	27.9	(25.3-30.7)
East Central	36.0	(33.5-38.6)
South Central	30.6	(28.6-32.8)
Southeast	30.1	(29.0-31.2)

^a Among all adults, the proportion who reported ever being told by a doctor that they had some form of arthritis, rheumatoid arthritis, gout, lupus, or fibromyalgia. (N = 29,972)

Table 30: Cardiovascular Disease by MEDC Region
Michigan BRFSS, 2013-2015 Combined

	Ever Told Heart Attack ^a		Had Told Angina or Coronary Heart Disease ^b		Ever Told Stroke ^c		Ever Told Any Cardiovascular Disease ^d	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Michigan Total	5.0	(4.7-5.3)	5.1	(4.8-5.4)	3.4	(3.2-3.7)	9.7	(9.4-10.1)
MEDC Region								
Upper Peninsula	6.5	(5.1-8.3)	6.4	(5.1-8.0)	3.7	(2.6-5.2)	11.4	(9.6-13.6)
Northwest	5.7	(4.2-7.6)	5.3	(3.9-7.1)	3.5	(2.4-5.1)	10.8	(8.8-13.2)
Northeast	8.7	(6.8-11.2)	7.3	(5.6-9.4)	3.8	(2.6-5.5)	13.5	(11.0-16.3)
West Central	4.4	(3.8-5.1)	4.7	(4.1-5.4)	2.6	(2.1-3.2)	8.4	(7.6-9.4)
Bay	6.4	(5.2-7.9)	6.7	(5.5-8.2)	3.4	(2.6-4.5)	11.8	(10.1-13.6)
Southwest	5.4	(4.4-6.5)	5.5	(4.5-6.6)	3.8	(3.0-4.8)	10.5	(9.2-12.1)
Central	2.9	(2.1-3.9)	3.8	(2.8-5.0)	2.7	(1.9-3.9)	6.8	(5.5-8.3)
East Central	5.8	(4.8-7.1)	5.0	(4.1-6.2)	4.0	(3.1-5.1)	10.7	(9.2-12.4)
South Central	5.0	(4.2-6.0)	4.9	(4.1-5.9)	2.7	(2.1-3.5)	9.3	(8.1-10.6)
Southeast	4.8	(4.3-5.3)	4.9	(4.5-5.5)	3.8	(3.4-4.3)	9.9	(9.2-10.6)

Among all adults, the proportion who had ever been told by a doctor that...

^a they had a heart attack or myocardial infarction (N = 29,982);

^b they had angina or coronary heart disease (N = 29,928);

^c they had a stroke. (N = 30,071)

^d they had a heart attack, coronary heart disease or a stroke. (N = 29,872)

Table 31: Cancer by MEDC Region
Michigan BRFSS, 2013-2015 Combined

	Ever Told Skin Cancer ^a		Ever Told Any Other Types of Cancer ^b		Ever Told Cancer ^c	
	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Michigan Total	5.8	(5.5-6.0)	7.5	(7.2-7.8)	12.0	(11.6-12.4)
MEDC Region						
Upper Peninsula	5.0	(3.9-6.4)	8.2	(6.8-9.9)	12.1	(10.4-14.2)
Northwest	6.7	(5.4-8.2)	8.3	(6.6-10.3)	13.6	(11.5-15.9)
Northeast	8.0	(6.3-10.1)	7.5	(5.9-9.6)	13.7	(11.5-16.3)
West Central	5.9	(5.3-6.6)	7.5	(6.6-8.5)	12.5	(11.4-13.6)
Bay	6.5	(5.5-7.7)	7.3	(6.2-8.7)	12.5	(11.0-14.1)
Southwest	6.9	(5.9-8.0)	8.7	(7.4-10.1)	14.2	(12.6-15.9)
Central	6.2	(5.0-7.6)	6.1	(4.9-7.5)	10.8	(9.2-12.6)
East Central	5.7	(4.7-6.8)	7.7	(6.5-9.0)	11.8	(10.4-13.4)
South Central	6.6	(5.7-7.6)	7.8	(6.8-9.1)	12.9	(11.6-14.3)
Southeast	5.1	(4.7-5.6)	7.5	(6.9-8.1)	11.5	(10.8-12.2)

^a Among all adults, the proportion who reported ever being told by a doctor that they had skin cancer. (N = 30,081)

^b Among all adults, the proportion who reported ever being told by a doctor that they had a form of cancer other than skin cancer. (N = 30,100)

^c Among all adults, the proportion who reported ever being told by a doctor that they had skin cancer or any other type of cancer. (N = 30,048)

Table 32: Diabetes by MEDC Region Michigan BRFSS, 2013-2015 Combined		
	Ever Told Diabetes^a	
	%	95% Confidence Interval
Michigan Total	10.5	(10.1-10.9)
MEDC Region		
Upper Peninsula	11.7	(9.7-14.0)
Northwest	10.0	(8.1-12.2)
Northeast	14.9	(12.0-18.2)
West Central	9.5	(8.5-10.5)
Bay	11.5	(10.0-13.2)
Southwest	9.5	(8.3-10.9)
Central	9.8	(8.3-11.6)
East Central	12.9	(11.3-14.8)
South Central	10.6	(9.3-12.1)
Southeast	10.5	(9.8-11.2)

^a Among all adults, the proportion who reported that they were ever told by a doctor that they had diabetes. Adults told they have prediabetes and women who had diabetes only during pregnancy were classified as not having been diagnosed. (N = 30,104)

Table 33: Kidney Disease by MEDC Region Michigan BRFSS, 2013-2015 Combined		
	Ever Told Kidney Disease^a	
	%	95% Confidence Interval
Michigan Total	3.2	(3.0-3.5)
MEDC Region		
Upper Peninsula	3.7	(2.6-5.2)
Northwest	3.3	(2.2-5.1)
Northeast	5.3	(3.7-7.5)
West Central	3.4	(2.7-4.1)
Bay	2.4	(1.8-3.1)
Southwest	4.0	(3.1-5.0)
Central	2.7	(1.8-3.9)
East Central	3.6	(2.8-4.6)
South Central	3.0	(2.4-3.8)
Southeast	3.3	(2.9-3.7)

^a Among all adults, the proportion who reported ever being told by a doctor that they had kidney disease. (N = 30,026)
^b Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Table 34: Depression by MEDC Region Michigan BRFSS, 2013-2015 Combined		
	Ever Told Depression^a	
	%	95% Confidence Interval
Michigan Total	20.5	(19.9-21.1)
MEDC Region		
Upper Peninsula	23.0	(19.9-26.3)
Northwest	18.7	(16.1-21.7)
Northeast	20.8	(17.7-24.2)
West Central	22.6	(21.0-24.2)
Bay	22.1	(19.8-24.7)
Southwest	21.9	(19.8-24.1)
Central	21.3	(18.6-24.3)
East Central	19.5	(17.4-21.8)
South Central	22.6	(20.5-24.8)
Southeast	19.2	(18.2-20.2)
^a Among all adults, the proportion who reported ever being told by a doctor that they had a depressive disorder including depression, major depression, dysthymia, or minor depression. (N = 30,034)		