Health Indicators and Risk Estimates by Community Health Assessment Regions & Local Health Departments

State of Michigan

Selected Tables

Michigan Behavioral Risk Factor Surveillance System (Michigan BRFSS)

2020-2022

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

> Prepared by: Yan Tian December 2023

This report has been modified from the original format to present data specific to the Branch Hillsdale St. Joseph Community Health Agency. The complete report is located at <u>2020-2022 Michigan BRFS Regional and Local Health</u> Department Estimates.

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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 ICF Macro Inc., and the Michigan Department of Health and Human Services. Michigan BRFS data contribute to the national Behavioral Risk Factor Surveillance System that is managed by the PHSB at the CDC.

State-specific, population-based prevalence estimates (and asymmetric 95% confidence intervals) of health risk behaviors, preventive health practices, and chronic conditions are calculated using annual data sets (see Annual Tables at the MiBRFSS website [http://www.michigan.gov/brfs]). However, region-specific and local health department-specific prevalence rates are usually computed using BRFS data combined across years.

For this report, data from the 2020-2022 Michigan BRFS were combined. The total sample sizes by year were: 7,269 in 2020, 9,425 in 2021, and 10,058 in 2022. Not all questions were included annually in the survey. The table subtitles indicate which years were used for that particular analysis.

For the 2020 through 2022 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.

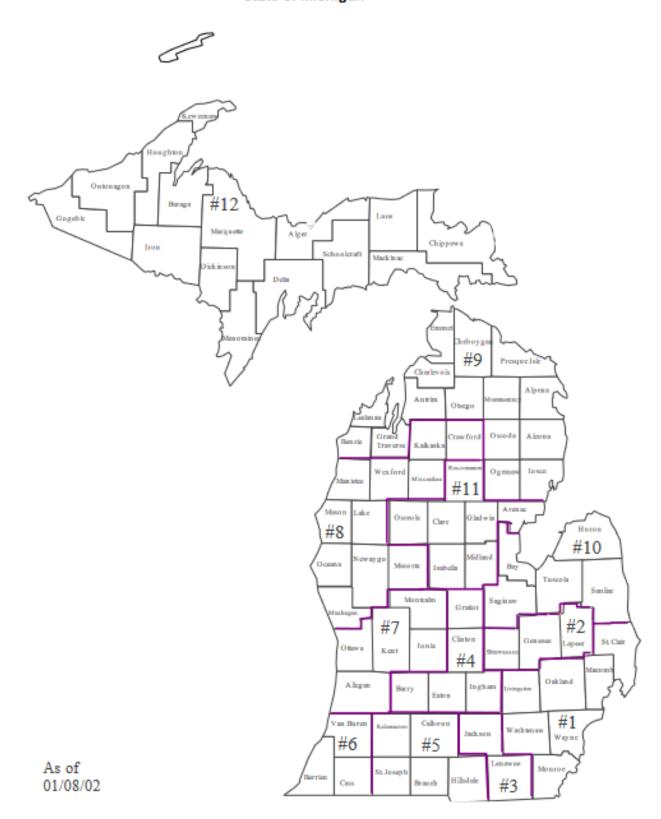
Iterative proportional fitting or raking was the weighting methodology used to make the 2020-2022 Michigan BRFS data representative of the current Michigan adult population. Estimates based on this methodology were weighted to adjust for the probabilities of selection and a raking adjustment factor that 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 or local health department (LHD) level, thus the weights used might not always provide accurate regional and/or LHD estimates, particularly when regional and/or LHD demographic distributions vary greatly from that of the state.

Population-based prevalence estimates and asymmetric 95% confidence intervals were calculated for indicators of health status, health risk behaviors, clinical preventive practices, and chronic conditions among the overall adult population in Michigan, as well as at the regional and local health department level. All analyses were performed in SAS-Callable SUDAAN®, a statistical computing program that was 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%. Comparisons between estimates with non-overlapping 95% confidence intervals should be considered significantly different.

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 Yan Tian at TianY@michigan.gov.

Community Health Assessment and Improvement Regions State of Michigan



Local Health Departments State of Michigan



Table 1: Health Status				
Michigan BRFSS, 2020-2022 Combined				
Geographical Area General Health, Fair or Poor: The proportion of adults who reported that their health, in general, was either fair or poor.				
	N % 95% Confidence Interval			
Michigan Total	26,685	16.3	(15.7-16.9)	
Region 5	1,505	19.5	(16.9-22.4)	
Branch Hillsdale St. Joseph	413	22.6	(17.9-28.1)	

Table 2: Poor Physical Health on at Least 14 Days in the Past Month Michigan BRFSS, 2020-2022 Combined				
Poor Physical Health: The proportion of adults who reported 14 or more days, out of the previous 30, on which their physical health was not good, which includes physical illness and injury.				
	N % 95% Confidence Interval			
Michigan Total	26,216	11.9	(11.4-12.5)	
Region 5	1,476	13.5	(11.4-16.0)	
Branch Hillsdale St. Joseph	405	18.9	(14.4-24.3)	

Table 3: Poor Mental Health on at Least 14 Days in the Past Month				
Michigan BRFSS, 2020-2022 Combined				
Geographical Area Poor Mental Health: The proportion of adults who				
	reported 14 or more days, out of the previous 30, on which			
	their mental health was not good, which includes stress,			
	depression, and problems with emotions.			
	N % 95% Confidence Interval			
Michigan Total	26,335	16.0	(15.4-16.6)	
Region 5	1,484	18.6	(15.7-21.8)	
Branch Hillsdale St. Joseph	408	15.4	(11.3-20.7)	

Table 4: Activity Limitation on at Least 14 Days in the Past Month				
Michigan BRFSS, 2020-2022 Combined				
Geographical Area Activity Limitation: The proportion of adults who reported				
	14 or more days, out of the previous 30, on which either poor physical health or poor mental health kept them from doing their usual activities, such as self-care, work, and recreation.			
	N % 95% Confidence Interval			
Michigan Total	26,455	9.7	(9.2-10.2)	
Region 5	1,492	10.9	(8.8-13.5)	
Branch Hillsdale St. Joseph	410	11.5	(8.2-16.1)	

Table 5: Disability					
Michigan BRFSS, 2019 and 202	Michigan BRFSS, 2019 and 2020 Combined				
Geographical Area Disability: Among all adults, the proportion who reported having serious difficulty hearing, visual impairment, difficulty concentrating, remembering, or making decisions, difficulty walking or climbing stairs, difficulty dressing or bathing, or difficulty doing errands alone.					
	N % 95% Confidence Interval				
Michigan Total	25,216	28.8	(28.8-29.5)		
Region 5	1,435	34.6	(31.3-38.0)		
Branch Hillsdale St. Joseph	398	35.0	(29.1-41.4)		

Table 6: Weight Status

Michigan BRFSS, 2020-2022 Combined

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

in kg/(height in meters) ₂]. Weight and height were self-reported. Pregnant women were excluded.					
Geographical Area	Sample Size	Healthy Weight: The proportion of adults whose BMI was greater than or equal to 18.5, b less than 25.0.			
	N	%	95% Confidence Interval		
Michigan Total	23,827	29.3	(28.6-30.1)		
Region 5	1,360	29	(25.6-32.5)		
Branch Hillsdale St. Joseph	382	26.0	(19.9-33.3)		
Geographical Area	Sample	Overweight: The proportion of adults whose			
	Size	BMI was greater than or equal to 25.0, but less than 30.0.			
	N	%	95% Confidence Interval		
Michigan Total	23,827	33.9	(33.1-34.7)		
Region 5	1,360	34.2	(31.1-37.5)		
Branch Hillsdale St. Joseph	382	37.1	(31.1-43.4)		
Geographical Area	Sample	Obese:	The proportion of adults whose BMI was		
	Size	greater than or equal to 30.0.			
	N	%	95% Confidence Interval		
Michigan Total	23,827	34.7	(33.9-35.5)		
Region 5	1,360	35.9	(32.7-39.3)		
Branch Hillsdale St. Joseph	382	35.7	(27.3-36.2)		

Table 7: No Health Care Coverage Among Those Aged 18-64 Years				
Michigan BRFSS, 2020-2022 Combined				
Geographical Area	Geographical Area No Health Care Coverage: 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.			
	N % 95% Confidence Interval			
Michigan Total	15,629	6.8	(6.2-7.3)	
Region 5	887	6.9	(5.1-9.3)	
Branch Hillsdale St. Joseph	S	S	Suppressed due to a denominator <50 and/or a relative standard error >30%	

Table 8: Health Care Access				
Michigan BRFSS, 2020-2022 Combined				
Geographical Area	No Personal Health Care Provider: The proportion of			
	adults who reported that they did not have anyone that they thought of as their personal doctor or health care provider.			
	N	%	95% Confidence Interval	
Michigan Total	26,505	12.4	(11.8-13.0)	
Region 5	1,499	13.5	(11.2-16.1)	
Branch Hillsdale St. Joseph	411	8.7	(5.6-13.1)	
Geographical Area	No Health Care Access During Past 12 Months			
	Due to Cost: The proportion of adults who reported that in			
			ere was a time when they needed to see	
	t	ı	due to the cost.	
	N	%	95% Confidence Interval	
Michigan Total	26,683	7.9	(7.5-8.4)	
Region 5	1,509	8.2	(6.4-10.4)	
Branch Hillsdale St. Joseph	415	9.2	(5.8-14.1)	

Table 9: No Leisure Time Physical Activity				
Michigan BRFSS, 2020-2022 Combined				
Geographical Area No Leisure Time Physical Activity: The proportion of				
	adults 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 % 95% Confidence Interval			
Michigan Total	26,686	22.6	(22.0-23.2)	
Region 5	1,504	23.8	(21.2-26.7)	
Branch Hillsdale St. Joseph	413	26.9	(22.0-32.4)	

Table 10: Cigarette Smoking				
Michigan BRFSS, 2020-2022 Combined				
Geographical Area	Sample	Never Smoked		
	Size			
	N	%	95% Confidence Interval	
Michigan Total	24,994	56.6	(55.7-57.4)	
Region 5	1,430	52.8	(49.4-56.2)	
Branch Hillsdale St. Joseph	397	52.5	(46.0-58.9)	
Geographical Area	Sample	Former	Smoking: The proportion of adults	
	Size		ted that they had ever smoked at least	
		100 cigarettes (five packs) in their life, but they do		
		not smoke cigarettes now.		
	N	%	95% Confidence Interval	
Michigan Total	24,994	26.5	(25.8-27.3)	
Region 5	1,430	28.0	(25.2-31.0)	
Branch Hillsdale St. Joseph	397	29.3	(24.0-35.2)	
Geographical Area	Sample	Current	Smoking: The proportion of adults	
	Size	who repor	ted that they had ever smoked at least	
	0	100 cigare	ettes (five packs) in their life and that	
		they smok	ce cigarettes now, either	
		every day or on some days.		
	N	%	95% Confidence Interval	
Michigan Total	24,994	16.9	(16.3-17.6)	
Region 5	1,430	19.2	(16.4-22.3)	
Branch Hillsdale St. Joseph	397	18.2	(13.6-23.9)	

Table 11: Alcohol Consumption Michigan BRFSS, 2020-2022 Combined					
Geographical Area	Sample Size	Any Alcohol in the Past Month: Among all adults, the proportion who reported consuming at least one drink of any alcoholic beverage in the previous month.			
	N	%	95% Confidence Interval		
Michigan Total	24,524	54.8	(54.0-55.6)		
Region 5	1,411	52.9	(49.5-56.3)		
Branch Hillsdale St. Joseph	386	48.0	(41.5-54.6)		
Geographical Area	Sample Size	Heavy Drinking: 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	%	95% Confidence Interval		
Michigan Total	24,524	6.8	(6.4-7.2)		
Region 5	1,411	7.4	(5.7-9.5)		
Branch Hillsdale St. Joseph	386	5.4	(3.1-9.3)		

Geographical Area	Sample Size	Binge Drinking: 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	%	95% Confidence Interval	
Michigan Total	24,524	16.9	(16.2-17.5)	
Region 5	1,411	15.4	(13.0-18.2)	
Branch Hillsdale St. Joseph	394	11.1	(7.5-16.0)	

Table 12: No Routine Checkup in Past Year				
Michigan BRFSS, 2020-2022 Combined				
Geographical Area Had No Routine Checkup in Past Year: The				
	proportion of adults who reported that they did not have a			
	routine checkup in the past year.			
	N % 95% Confidence Interval			
Michigan Total	26,457	22.3	(21.6-23.0)	
Region 5	1,482	23.4	(20.6-26.4)	
Branch Hillsdale St. Joseph	405	19.0	(14.6-24.4)	

Table 13: Breast Cancer Screening Among Women 40 Years and					
Older Michigan BRFSS, 2020 and 2022 Combined					
Geographical Area Had Mammogram in Past Two Years: Among					
	women aged 40 years and older, the proportion who reported				
	having a m	having a mammogram in the past two years.			
	N % 95% Confidence Interval				
Michigan Total	7,015	72.7	(71.3-74.1)		
Region 5	408	69.8	(63.9-75.1)		
Branch Hillsdale St. Joseph	123	70.1	(59.4-79.0)		

Table 14: Cervical Cancer Screening Among Women 18 Years and				
Older Michigan BRFSS, 2022				
Geographical Area Had Appropriately Timed Pap Test: Among women				
	aged 18 years and older, the proportion who reported having a			
	Pap test within the previous three years.			
	N	%	95% Confidence Interval	
Michigan Total	2,044	54.6	(51.9-57.4)	
Region 5	109	47.1	(36.1-58.4)	
Branch Hillsdale St. Joseph	23	37.4	(19.4-59.7)	

Table 15: Colorectal Cancer Screening Among Adults 50 Years and				
Older Michigan BRFSS, 2020-2022 Combined				
Geographical Area	Appropriate Colorectal Cancer Screening: Among adults aged 50 years and older, the proportion who had 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 % 95% Confidence Interval			
Michigan Total	10,328	75.4	(74.3-76.5)	
Region 5	581	76.6	(72.1-80.6)	
Branch Hillsdale St. Joseph	189	75.0	(66.5-81.9)	

Table 16: Oral Health				
Michigan BRFSS, 2020 and 2022 Combined				
Geographical Area	No Dental Visit in Past Year: The proportion of adults			
			had not visited a dentist or dental clinic	
	for any rea	son in the p	ast year	
	N	%	95% Confidence Interval	
Michigan Total	17,165	30.7	(29.8-31.7)	
Region 5	946	32.7	(28.9-36.8)	
Branch Hillsdale St. Joseph	261	34.4	(27.1-42.4)	
Geographical Area	6+ Teeth Missing: The proportion of adult s who reported			
	that they were missing 6+ teeth due to tooth decay or gum			
			s teeth lost for other reasons, such as	
	injury or or	thodontics.		
	N	%	95% Confidence Interval	
Michigan Total	16,969	14.2	(13.5-14.9)	
Region 5	943	17.7	(14.7-21.2)	
Branch Hillsdale St. Joseph	258	26.6	(20.0-34.3)	

Table 17: Immunizations Among Adults Aged 65 Years and Older Michigan BRFSS, 2020-2022 Combined					
Geographical Area	Had Flu Vaccine in Past Year: 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 % 95% Confidence Interval				
Michigan Total	9,191	72.0	(70.8-73.2)		
Region 5	539	76.6	(71.9-80.6)		
Branch Hillsdale St. Joseph	180 74.1 (66.2-80.8)				
Geographical Area	Ever Had Pneumonia Vaccine: Among adults aged 65 years and older, the proportion who reported that they ever had a pneumococcal vaccine.				
	N % 95% Confidence Interval				
Michigan Total	8,885	72.8	(71.5-74.0)		

Region 5	512	73.5	(68.5-78.0)
Branch Hillsdale St. Joseph	175	75.8	(67.9-82.2)

Table 18: HIV Testing Among Adults Aged 18-64 Years				
Michigan BRFSS, 2020-2022 Combined				
Geographical Area	Ever Had an HIV Test: 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. Note: "Don't know" was considered a valid response.			
	N % 95% Confidence Interval			
Michigan Total	13,785	43.5	(42.5-44.6)	
Region 5	793	47.5	(43.1-51.9)	
Branch Hillsdale St. Joseph	181	32.9	(25.2-61.6)	

Table 19: Asthma					
Michigan BRFSS, 2020-2022 Combined					
Geographical Area	Ever Tole	Ever Told Have Asthma: The proportion of adults who			
			e ever told by a doctor, nurse, or other		
	health care	profession	al that they had asthma.		
	N	%	95% Confidence Interval		
Michigan Total	26,656	16.2	(15.6-16.8)		
Region 5	1,508	16.6	(14.3-19.1)		
Branch Hillsdale St. Joseph	414	18.8	(14.3-24.1)		
Geographical Area	Still Have Asthma: Among all adults, the proportion who				
	reported th	at they still	had asthma.		
	N	%	95% Confidence Interval		
Michigan Total	26,533	11.5	(11.0-12.0)		
Region 5	1,506	12.5	(10.4-14.8)		
Branch Hillsdale St. Joseph	414	14.2	(10.3-19.1)		

Table 20: Chronic Obstructive Pulmonary Disease (COPD)				
Michigan BRFSS, 2020-2022 Combined				
Geographical Area	Ever Told COPD, Emphysema or Chronic			
	Bronchitis: 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 % 95% Confidence Interval			
Michigan Total	26,623	8.3	(7.9-8.8)	
Region 5	1,502	8.9	(7.3-11.0)	
Branch Hillsdale St. Joseph	414	11.0	(7.7-15.5)	

Table 21: Arthritis					
Michigan BRFSS, 2020-2022 Combined					
Geographical Area	Geographical Area Ever Told Arthritis: Among all adults, the proportion who				
			ld by a health care professional that		
	they had some form of arthritis, rheumatoid arthritis, gout,				
	lupus, or fibromyalgia.				
	N % 95% Confidence Interval				
Michigan Total	26,593	30.0	(29.3-30.7)		
Region 5	1,501	33.4	(30.4-36.4)		
Branch Hillsdale St. Joseph	414	40.9	(35.0-47.0)		

Table 22: Heart Attack Michigan BRFSS, 2020-2022 Combined					
Geographical Area Ever Told Heart Attack: Among all adults, the proportion					
	who had ever been told by a doctor that they had a heart attack or myocardial infarction.				
	N % 95% Confidence Interval				
Michigan Total	26,567	4.8	(4.5-5.2)		
Region 5	1,499	5.4	(4.2-7.1)		
Branch Hillsdale St. Joseph	414	7.6	(5.2-11.1)		

Table 23: Angina or Coronary Heart Disease Michigan BRFSS, 2020-2022 Combined					
Geographical Area Ever Told Angina or Coronary Heart Disease:					
	Among all adults, the proportion who had ever been told by a				
	doctor that they had angina or coronary heart disease.				
	N % 95% Confidence Interval				
Michigan Total	26,519	4.6	(4.3-4.9)		
Region 5	1,495 5.0 (3.9-6.4)				
Branch Hillsdale St. Joseph	408 6.2 (4.1-9.4)				

Table 24: Stroke				
Michigan BRFSS, 2020-2022 Combined				
Geographical Area Ever Told Stroke: Among all adults, the proportion who				
	had ever been told by a doctor that they had a stroke.			
	N	%	95% Confidence Interval	
Michigan Total	26,671	3.6	(3.3-3.8)	
Region 5	1,505	3.9	(2.9-5.3)	
Branch Hillsdale St. Joseph	S	S	Suppressed due to a denominator <50 and/or a relative standard error >30%	

Table 25: Cardiovascular Disease					
Michigan BRFSS, 2020-2022 Combined					
Geographical Area Ever Told Any Cardiovascular Disease: Among all					
	adults, the proportion who had ever been told by a doctor that				
	they had a heart attack, coronary heart disease or a stroke.				
	N % 95% Confidence Interval				
Michigan Total	26,459	9.8	(9.4-10.3)		
Region 5	1,494	10.8	(9.0-12.9)		
Branch Hillsdale St. Joseph	410	11.7	(8.6-15.7)		

Table 26: Cancer					
Michigan BRFSS, 2020-2022 Combined					
Geographical Area Ever Told Cancer: 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 % 95% Confidence Interval				
Michigan Total	26,609	12.4	(12.0-12.9)		
Region 5	1,499 13.8 (11.8-16.0)				
Branch Hillsdale St. Joseph	410	15.5	(12.0-19.7)		

Table 27: Diabetes					
Michigan BRFSS, 2020-2022 C	ombined				
Geographical Area	Ever Told Diabetes: The proportion of adults who				
	reported that they were ever told by a doctor that they have diabetes. Women who had diabetes only during pregnancy and adults who were diagnosed with pre-diabetes were considered to not have been diagnosed with diabetes.				
	N % 95% Confidence Interval				
Michigan Total	26,694	11.6	(11.1-12.1)		
Region 5	1,508 10.2 (8.6-12.1)				
Branch Hillsdale St. Joseph	415 11.4 (8.6-15.1)				

Table 28: Kidney Disease					
Michigan BRFSS, 2020-2022 Combined					
Geographical Area	Ever Told Kidney Disease: Among all adults, the proportion who reported ever being told by a doctor that they had kidney disease.				
	N % 95% Confidence Interval				
Michigan Total	26,661 3.6 (3.3-3.9)				
Region 5	1,504 4.5 (3.4-6.0)				
Branch Hillsdale St. Joseph	414	5.2	(2.9-9.1)		

Table 29: Depression						
Michigan BRFSS, 2020-2022 Combined						
Geographical Area	Ever Told Depression: Among all adults, the proportion who reported ever being told by a doctor that they had kidney disease.					
	N % 95% Confidence Interval					
Michigan Total	26,620 21.7 (21.2-22.4)					
Region 5	1,503 25.4 (22.6-28.5)					
Branch Hillsdale St. Joseph	413	18.4	(14.0-23.9)			