

**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

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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 BRFSS 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 \[http://www.michigan.gov/brfs\]](http://www.michigan.gov/brfs)). However, region-specific and local health department-specific prevalence rates are usually computed using BRFSS data combined across years.

For this report, data from the 2020-2022 Michigan BRFSS 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.

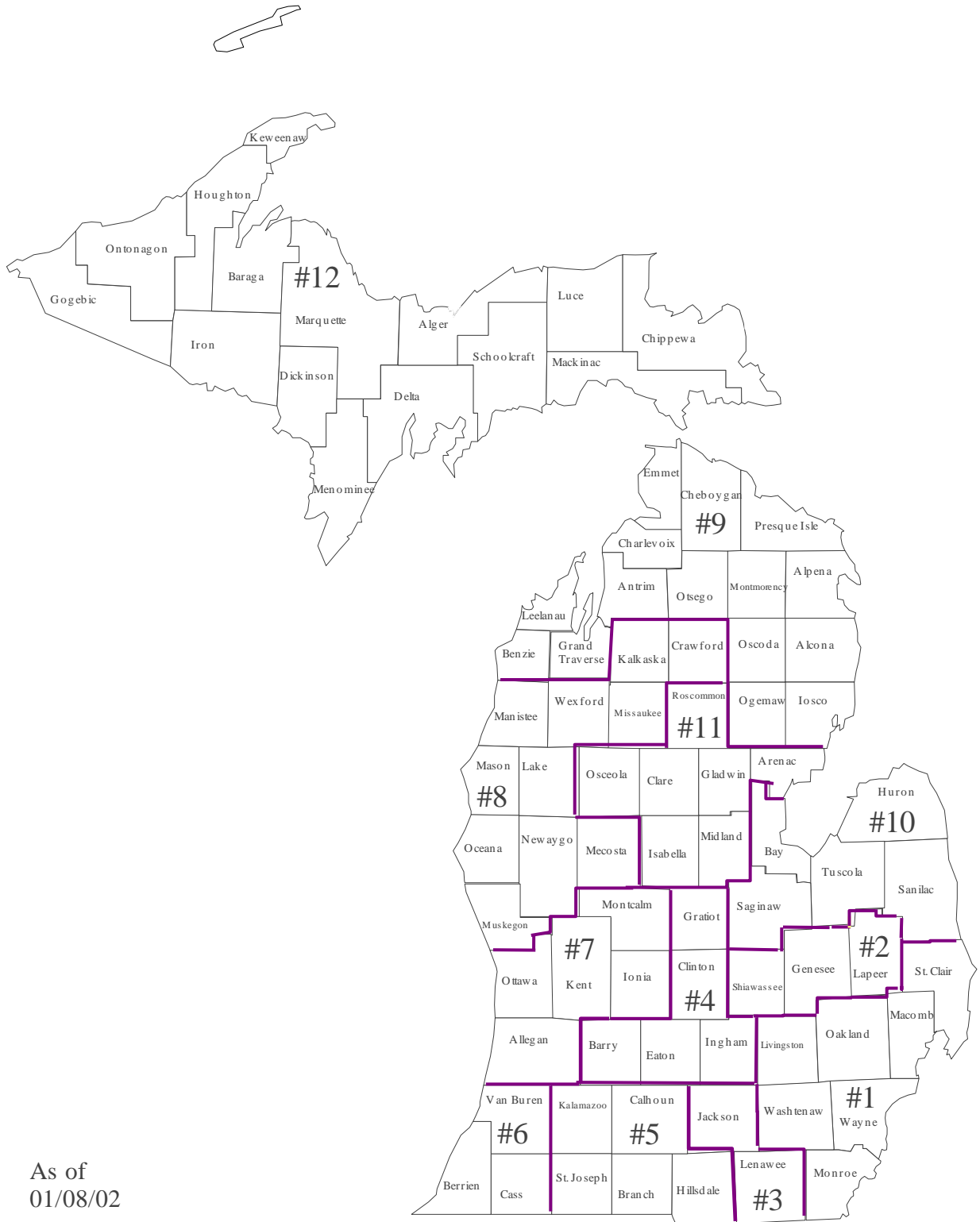
Iterative proportional fitting or raking was the weighting methodology used to make the 2020-2022 Michigan BRFSS data representative of the current Michigan adult population. Estimates based on this methodology were weighted to adjust for the probabilities of selection and a raking adjustment factor 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 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



As of
01/08/02

Local Health Departments State of Michigan



2020-2022 Michigan BRFSS Regional & Local Health Department Estimates
December 2023

Table 1: Health Status Michigan BRFSS, 2020-2022 Combined			
Geographic Area	General Health, Fair or Poor^a		
	N	%	95% Confidence Interval
Michigan Total	26,685	16.3	(15.7-16.9)
Region 1	11,819	15.5	(14.6-16.3)
Livingston	783	9.3	(7.1-12.2)
Macomb	1,572	15.8	(13.7-18.1)
Monroe	520	21.5	(16.5-27.7)
Oakland	2,840	11.5	(10.1-13.0)
St. Clair	315	13.2	(9.6-18.0)
Washtenaw	2,031	10.8	(9.0-12.9)
City of Detroit	1,150	24.6	(21.8-27.7)
Wayne exc. Detroit	2,482	16.7	(14.8-18.7)
Region 2	1,302	21.3	(18.7-24.1)
Genesee	894	22.9	(19.7-26.4)
Lapeer	186	20.6	(14.8-28.0)
Shiawassee	173	16.7	(11.7-23.3)
Region 3	1,115	18.5	(15.7-21.6)
Jackson	625	17.8	(14.4-21.8)
Lenawee	387	20.0	(15.3-25.8)
Region 4	1,671	13.7	(11.7-15.9)
Barry-Eaton	464	11.4	(8.4-15.2)
Mid-Michigan ^b	537	15.9	(12.1-20.7)
Ingham	747	15.5	(12.3-19.4)
Region 5	1,505	19.5	(16.9-22.4)
Branch-Hillsdale-St. Joseph	413	22.6	(17.9-28.1)
Calhoun	361	26.9	(20.9-34.0)
Kalamazoo	636	13.5	(10.4-17.2)
Region 6	766	20.4	(16.8-24.6)
Van Buren-Cass	294	24.6	(18.0-32.6)
Berrien	395	18.5	(14.4-23.4)
Region 7	2,688	13.8	(12.2-15.6)
Allegan	292	16.2	(11.6-22.2)
Ionia	144	15.7	(10.2-23.4)
Kent	1,343	14.1	(11.9-16.6)
Mid-Michigan ^b	537	15.9	(12.1-20.7)
Ottawa	602	9.8	(7.2-13.2)

2020-2022 Michigan BRFS Regional & Local Health Department Estimates
November 2023

Table 1 Cont'd			
Geographic Area	General Health, Fair or Poor^a		
	N	%	95% Confidence Interval
Michigan Total	26,685	16.3	(15.7-16.9)
Region 8	1,334	17.3	(14.5-20.5)
District #10	661	15.6	(12.2-19.7)
Muskegon	331	23.2	(15.6-33.1)
Region 9	1,023	14.9	(12.4-17.8)
District #2	170	20.5	(14.2-28.7)
District #4	210	14.7	(9.7-21.5)
Northwest Michigan	286	11.2	(7.5-16.3)
Benzie-Leelanau	117	18.2	(10.4-30.0)
Grand Traverse	240	13.8	(9.2-20.1)
Region 10	1,007	17.3	(14.3-20.7)
Bay	274	15.6	(11.0-21.6)
Huron	77	15.9	(8.8-27.1)
Saginaw	430	19.9	(14.9-26.1)
Sanilac	101	15.5	(8.8-25.6)
Tuscola	125	14.4	(8.6-23.0)
Region 11	677	16.0	(12.7-19.9)
Central Michigan	436	18.4	(14.1-23.6)
Midland	241	10.9	(6.9-16.7)
Region 12	944	18.1	(15.1-21.5)
Luce-Mackinac-Alger-Schoolcraft	136	20.9	(13.6-30.6)
Western Upper Peninsula	213	20.6	(14.2-28.8)
Delta-Menominee	186	14.8	(9.1-23.3)
Chippewa	104	15.9	(9.1-26.1)
Dickinson-Iron	112	20.7	(12.9-31.4)
Marquette	193	15.3	(10.0-22.6)

^a The proportion of adults who reported that their health, in general, was either fair or poor.

^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the regional estimates.

Table 2: Poor Physical Health on at Least 14 Days in the Past Month Michigan BRFSS, 2020-2022 Combined			
Geographic Area	Poor Physical Health^a		
	N	%	95% Confidence Interval
Michigan Total	26,216	11.9	(11.4-12.5)
Region 1	11,625	11.4	(10.6-12.1)
Livingston	774	8.9	(6.3-12.2)
Macomb	1,537	10.2	(8.6-12.1)
Monroe	505	15.6	(11.2-21.3)
Oakland	2,795	9.2	(7.9-10.6)
St. Clair	315	13.3	(9.6-18.2)
Washtenaw	1,996	8.4	(6.9-10.2)
City of Detroit	1,121	16.0	(13.5-18.9)
Wayne exc. Detroit	2,456	12.6	(11.0-14.5)
Region 2	1,286	17.1	(14.7-19.7)
Genesee	877	17.1	(14.3-20.4)
Lapeer	187	17.1	(11.5-24.7)
Shiawassee	173	18.2	(12.3-26.1)
Region 3	1,100	12.4	(10.2-15.0)
Jackson	617	12.0	(9.2-15.5)
Lenawee	380	15.3	(11.1-20.6)
Region 4	1,639	9.7	(8.1-11.6)
Barry-Eaton	451	11.6	(8.3-16.1)
Mid-Michigan ^b	524	10.2	(7.3-14.1)
Ingham	737	9.1	(6.9-11.9)
Region 5	1,476	13.5	(11.4-16.0)
Branch-Hillsdale-St. Joseph	405	18.9	(14.4-24.3)
Calhoun	353	15.1	(10.7-20.7)
Kalamazoo	626	9.8	(7.1-13.3)
Region 6	748	13.6	(10.8-17.1)
Van Buren-Cass	288	14.1	(9.5-20.3)
Berrien	383	14.4	(10.6-19.4)
Region 7	2,651	10.1	(8.7-11.7)
Allegan	288	16.2	(10.6-24.0)
Ionia	143	7.3	(4.0-12.7)
Kent	1,329	9.5	(7.8-11.5)
Mid-Michigan ^b	524	10.2	(7.3-14.1)
Ottawa	595	9.3	(6.7-12.9)

2020-2022 Michigan BRFSS Regional & Local Health Department Estimates
November 2023

Table 2 Cont'd			
Geographic Area	Poor Physical Health^a		
	N	%	95% Confidence Interval
Michigan Total	26,216	11.9	(11.4-12.5)
Region 8	1,310	13.5	(10.8-16.8)
District #10	650	12.9	(9.5-17.3)
Muskegon	324	18.8	(11.4-29.5)
Region 9	1,004	11.2	(9.0-13.8)
District #2	164	15.4	(10.0-22.9)
District #4	208	11.7	(7.4-18.2)
Northwest Michigan	280	7.4	(4.5-11.9)
Benzie-Leelanau	115	20.1	(11.7-32.5)
Grand Traverse	237	8.2	(5.1-13.0)
Region 10	993	12.6	(10.1-15.6)
Bay	272	13.4	(8.7-19.9)
Huron	-- ^c	-- ^c	-- ^c
Saginaw	427	11.8	(8.2-16.8)
Sanilac	98	15.6	(8.4-27.1)
Tuscola	122	12.7	(6.9-22.1)
Region 11	658	11.0	(8.6-14.0)
Central Michigan	422	12.9	(9.7-16.9)
Midland	236	7.1	(4.4-11.5)
Region 12	920	14.2	(11.4-17.4)
Luce-Mackinac-Alger-Schoolcraft	131	14.5	(8.8-23.1)
Western Upper Peninsula	209	12.7	(7.7-20.2)
Delta-Menominee	182	14.7	(8.8-23.6)
Chippewa	102	10.2	(5.6-18.1)
Dickinson-Iron	110	20.6	(11.9-33.3)
Marquette	186	13.6	(8.7-20.8)

^a 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.

^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the regional estimates.

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

Table 3: Poor Mental Health on at Least 14 Days in the Past Month Michigan BRFSS, 2020-2022 Combined			
Geographic Area	Poor Mental Health^a		
	N	%	95% Confidence Interval
Michigan Total	26,335	16.0	(15.4-16.6)
Region 1	11,671	15.6	(14.7-16.6)
Livingston	774	14.4	(11.1-18.4)
Macomb	1,543	16.3	(14.0-18.9)
Monroe	512	17.1	(12.9-22.2)
Oakland	2,814	12.1	(10.6-13.7)
St. Clair	310	15.5	(11.1-21.2)
Washtenaw	2,016	15.5	(13.0-18.3)
City of Detroit	1,122	19.5	(16.8-22.5)
Wayne exc. Detroit	2,456	16.9	(15.0-19.0)
Region 2	1,285	20.2	(17.5-23.2)
Genesee	879	20.3	(17.1-24.0)
Lapeer	185	21.0	(14.5-29.5)
Shiawassee	173	21.2	(14.5-29.9)
Region 3	1,098	16.8	(14.0-19.9)
Jackson	613	16.9	(13.3-21.3)
Lenawee	383	14.7	(10.5-20.1)
Region 4	1,645	16.2	(13.9-18.7)
Barry-Eaton	455	18.2	(13.9-23.5)
Mid-Michigan ^b	529	11.9	(8.8-15.8)
Ingham	735	16.8	(13.5-20.6)
Region 5	1,484	18.6	(15.7-21.8)
Branch-Hillsdale-St. Joseph	408	15.4	(11.3-20.7)
Calhoun	352	20.6	(14.9-27.8)
Kalamazoo	632	20.3	(15.7-25.7)
Region 6	753	14.8	(11.8-18.5)
Van Buren-Cass	287	10.7	(7.1-15.7)
Berrien	389	15.9	(11.4-21.6)
Region 7	2,659	15.5	(13.6-17.5)
Allegan	290	18.5	(12.2-27.1)
Ionia	141	11.1	(6.5-18.3)
Kent	1,330	16.3	(13.7-19.2)
Mid-Michigan ^b	529	11.9	(8.8-15.8)
Ottawa	594	13.8	(10.3-18.2)

2020-2022 Michigan BRFSS Regional & Local Health Department Estimates
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Table 3 Cont'd			
Geographic Area	Poor Mental Health^a		
	N	%	95% Confidence Interval
Michigan Total	26,335	16.0	(15.4-16.6)
Region 8	1,325	15.0	(12.6-17.9)
District #10	658	12.9	(9.6-17.0)
Muskegon	329	14.6	(10.4-20.0)
Region 9	1,009	16.6	(13.6-20.2)
District #2	168	22.2	(14.8-32.0)
District #4	206	13.1	(8.5-19.7)
Northwest Michigan	281	13.2	(7.9-21.1)
Benzie-Leelanau	-- ^c	-- ^c	-- ^c
Grand Traverse	238	20.2	(14.2-27.8)
Region 10	993	16.6	(13.4-20.4)
Bay	271	20.0	(13.0-29.5)
Huron	75	14.8	(8.0-25.6)
Saginaw	428	18.2	(13.5-24.1)
Sanilac	-- ^c	-- ^c	-- ^c
Tuscola	-- ^c	-- ^c	-- ^c
Region 11	670	14.4	(11.2-18.3)
Central Michigan	431	14.7	(10.8-19.7)
Midland	239	13.8	(9.0-20.7)
Region 12	936	13.1	(10.6-16.2)
Luce-Mackinac-Alger-Schoolcraft	-- ^c	-- ^c	-- ^c
Western Upper Peninsula	212	13.1	(8.5-19.5)
Delta-Menominee	185	14.7	(9.0-23.2)
Chippewa	-- ^c	-- ^c	-- ^c
Dickinson-Iron	111	16.7	(9.1-28.6)
Marquette	191	13.9	(8.7-21.3)

^a 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.

^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the regional estimates.

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

2020-2022 Michigan BRFSS Regional & Local Health Department Estimates
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Table 4: Activity Limitation on at Least 14 Days in the Past Month Michigan BRFSS, 2020-2022 Combined			
Geographic Area	Activity Limitation^a		
	N	%	95% Confidence Interval
Michigan Total	26,455	9.7	(9.2-10.2)
Region 1	11,724	9.6	(8.9-10.3)
Livingston	773	8.6	(6.2-11.8)
Macomb	1,558	8.8	(7.3-10.7)
Monroe	515	14.0	(9.7-19.7)
Oakland	2,825	7.5	(6.4-8.8)
St. Clair	313	11.9	(8.1-17.3)
Washtenaw	2,014	7.9	(6.3-9.9)
City of Detroit	1,138	13.2	(11.0-15.8)
Wayne exc. Detroit	2,463	10.1	(8.7-11.8)
Region 2	1,292	13.0	(10.8-15.4)
Genesee	889	12.9	(10.3-16.0)
Lapeer	184	15.0	(9.9-21.9)
Shiawassee	172	13.8	(8.7-21.2)
Region 3	1,110	9.5	(7.6-11.9)
Jackson	623	8.4	(6.2-11.3)
Lenawee	384	10.4	(7.1-15.1)
Region 4	1,642	7.1	(5.7-8.9)
Barry-Eaton	453	8.7	(5.9-12.6)
Mid-Michigan ^b	530	7.7	(5.3-11.0)
Ingham	735	6.8	(4.8-9.7)
Region 5	1,492	10.9	(8.8-13.5)
Branch-Hillsdale-St. Joseph	410	11.5	(8.2-16.1)
Calhoun	358	15.2	(10.1-22.2)
Kalamazoo	631	8.3	(5.7-12.1)
Region 6	760	11.4	(8.7-14.7)
Van Buren-Cass	290	8.4	(4.8-14.4)
Berrien	393	12.8	(9.2-17.5)
Region 7	2,670	8.8	(7.5-10.3)
Allegan	290	14.6	(9.3-22.1)
Ionia	-- ^c	-- ^c	-- ^c
Kent	1,334	8.7	(7.0-10.9)
Mid-Michigan ^b	530	7.7	(5.3-11.0)
Ottawa	598	6.5	(4.4-9.5)

2020-2022 Michigan BRFS Regional & Local Health Department Estimates
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Table 4 Cont'd			
Geographic Area	Activity Limitation^a		
	N	%	95% Confidence Interval
Michigan Total	26,455	9.7	(9.2-10.2)
Region 8	1,328	10.2	(8.2-12.7)
District #10	658	10.3	(7.4-14.3)
Muskegon	328	10.0	(6.5-15.1)
Region 9	1,010	9.0	(6.9-11.6)
District #2	166	14.2	(8.3-23.2)
District #4	-- ^c	-- ^c	-- ^c
Northwest Michigan	282	3.8	(2.2-6.5)
Benzie-Leelanau	116	21.0	(12.1-34.0)
Grand Traverse	238	7.9	(4.8-12.7)
Region 10	1,004	10.2	(7.9-13.0)
Bay	273	15.7	(10.2-23.5)
Huron	-- ^c	-- ^c	-- ^c
Saginaw	430	9.0	(6.3-12.7)
Sanilac	-- ^c	-- ^c	-- ^c
Tuscola	-- ^c	-- ^c	-- ^c
Region 11	672	8.7	(6.5-11.6)
Central Michigan	433	9.2	(6.4-12.9)
Midland	239	7.7	(4.7-12.5)
Region 12	931	9.4	(7.2-12.2)
Luce-Mackinac-Alger-Schoolcraft	-- ^c	-- ^c	-- ^c
Western Upper Peninsula	209	10.7	(6.2-17.9)
Delta-Menominee	-- ^c	-- ^c	-- ^c
Chippewa	-- ^c	-- ^c	-- ^c
Dickinson-Iron	109	10.0	(4.5-20.6)
Marquette	189	9.5	(5.3-16.3)

^a 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.

^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the regional estimates.

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

2020-2022 Michigan BRFS Regional & Local Health Department Estimates
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Table 5: Disability Michigan BRFS, 2020-2022 Combined			
Geographic Area	Disability^a		
	N	%	95% Confidence Interval
Michigan Total	25,216	28.8	(28.0-29.5)
Region 1	11,183	27.4	(26.3-28.5)
Livingston	747	26.4	(22.4-30.8)
Macomb	1,503	27.8	(25.1-30.7)
Monroe	491	35.6	(30.2-41.4)
Oakland	2,663	20.8	(19.0-22.7)
St. Clair	297	32.1	(26.2-38.6)
Washtenaw	1,951	20.9	(18.5-23.5)
City of Detroit	1,066	38.9	(35.3-42.7)
Wayne exc. Detroit	2,348	28.8	(26.4-31.2)
Region 2	1,233	33.6	(30.4-36.8)
Genesee	845	34.1	(30.3-38.1)
Lapeer	179	29.9	(22.8-38.1)
Shiawassee	169	34.0	(26.2-42.7)
Region 3	1,050	30.9	(27.4-34.6)
Jackson	592	28.6	(24.5-33.2)
Lenawee	370	35.3	(28.9-42.4)
Region 4	1,595	24.4	(21.9-27.1)
Barry-Eaton	439	26.7	(21.9-32.2)
Mid-Michigan ^b	513	25.3	(20.9-30.2)
Ingham	712	24.3	(20.6-28.5)
Region 5	1,435	34.6	(31.3-38.0)
Branch-Hillsdale-St. Joseph	398	35.0	(29.1-41.4)
Calhoun	341	40.5	(33.8-47.5)
Kalamazoo	605	32.4	(27.4-38.0)
Region 6	720	29.8	(25.5-34.4)
Van Buren-Cass	284	34.0	(26.8-42.0)
Berrien	372	29.3	(23.7-35.5)
Region 7	2,527	25.8	(23.6-28.0)
Allegan	277	30.0	(22.9-38.1)
Ionia	134	30.8	(22.2-41.0)
Kent	1,259	26.6	(23.6-29.9)
Mid-Michigan ^b	513	25.3	(20.9-30.2)
Ottawa	569	20.1	(16.5-24.3)

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Table 5 Cont'd			
Geographic Area	Disability^a		
	N	%	95% Confidence Interval
Michigan Total	25,216	28.8	(28.0-29.5)
Region 8	1,254	30.2	(26.6-34.0)
District #10	635	31.0	(26.0-36.5)
Muskegon	314	33.9	(25.5-43.4)
Region 9	981	33.8	(29.9-37.9)
District #2	162	46.1	(36.6-55.9)
District #4	201	35.6	(27.5-44.5)
Northwest Michigan	274	23.3	(16.8-31.3)
Benzie-Leelanau	113	40.4	(29.4-52.5)
Grand Traverse	231	32.3	(24.9-40.5)
Region 10	958	33.3	(29.4-37.5)
Bay	260	42.0	(33.6-50.9)
Huron	73	37.2	(25.8-50.2)
Saginaw	410	30.1	(24.5-36.3)
Sanilac	95	31.7	(21.5-44.0)
Tuscola	120	27.2	(18.5-38.0)
Region 11	648	29.8	(25.3-34.6)
Central Michigan	418	33.6	(27.7-40.0)
Midland	230	21.7	(16.1-28.7)
Region 12	915	28.2	(24.4-32.2)
Luce-Mackinac-Alger-Schoolcraft	133	25.3	(17.6-35.1)
Western Upper Peninsula	204	27.6	(20.4-36.3)
Delta-Menominee	177	22.0	(15.5-30.3)
Chippewa	102	41.8	(27.1-58.0)
Dickinson-Iron	110	31.2	(21.6-42.7)
Marquette	189	27.5	(20.2-36.3)
<p>^a 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.</p> <p>^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the regional estimates.</p>			

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Table 6: Weight Status Michigan BRFSS, 2020-2022 Combined							
Geographic Area	Sample Size	Obese^a		Overweight^b		Healthy Weight^c	
	N	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Michigan Total	23,827	34.7	(33.9-35.5)	33.9	(33.1-34.7)	29.3	(28.6-30.1)
Region 1	10,630	33.6	(32.4-34.8)	34.3	(33.1-35.5)	30.0	(28.8-31.1)
Livingston	703	30.2	(26.0-34.8)	35.8	(31.4-40.5)	32.9	(28.5-37.6)
Macomb	1,419	35.4	(32.4-38.6)	34.6	(31.6-37.8)	27.3	(24.4-30.3)
Monroe	456	42.4	(36.3-48.8)	31.3	(25.8-37.4)	22.6	(17.9-28.1)
Oakland	2,542	29.2	(27.1-31.4)	36.5	(34.2-38.9)	32.0	(29.8-34.2)
St. Clair	281	38.4	(31.8-45.4)	31.3	(25.1-38.3)	29.9	(23.5-37.1)
Washtenaw	1,864	27.3	(24.6-30.2)	30.1	(27.2-33.2)	41.3	(38.0-44.7)
City of Detroit	1,009	35.7	(32.1-39.4)	35.2	(31.5-39.1)	26.7	(23.5-30.2)
Wayne exc. Detroit	2,248	36.9	(34.3-39.5)	33.0	(30.6-35.5)	28.0	(25.7-30.4)
Region 2	1,171	40.4	(37.0-43.9)	33.9	(30.6-37.3)	22.8	(19.9-25.9)
Genesee	803	40.4	(36.3-44.6)	32.2	(28.3-36.4)	23.5	(20.0-27.4)
Lapeer	170	40.0	(31.5-49.2)	43.0	(34.4-52.0)	16.8	(11.3-24.1)
Shiawassee	160	40.8	(31.8-50.4)	32.1	(24.3-41.1)	25.7	(18.3-34.8)
Region 3	999	37.6	(33.8-41.5)	31.8	(28.2-35.6)	28.2	(24.7-31.9)
Jackson	558	36.7	(31.9-41.8)	32.2	(27.5-37.3)	28.4	(23.8-33.5)
Lenawee	354	43.8	(37.0-50.9)	31.8	(26.0-38.3)	21.3	(16.3-27.2)
Region 4	1,508	32.8	(29.9-35.9)	32.8	(29.9-35.9)	32.3	(29.3-35.5)
Barry-Eaton	408	31.7	(26.6-37.2)	38.5	(32.7-44.7)	28.1	(22.8-34.2)
Mid-Michigan ^d	495	38.3	(32.9-44.0)	33.4	(28.1-39.0)	26.2	(21.6-31.4)
Ingham	678	31.6	(27.3-36.2)	29.7	(25.6-34.3)	36.8	(32.2-41.8)
Region 5	1,360	35.9	(32.7-39.3)	34.2	(31.1-37.5)	29.0	(25.6-32.5)
Branch-Hillsdale-St. Joseph	382	35.7	(29.7-42.1)	37.1	(31.1-43.4)	26.0	(19.9-33.3)
Calhoun	325	38.6	(32.0-45.7)	32.4	(26.3-39.2)	28.1	(21.9-35.3)
Kalamazoo	564	33.6	(28.8-38.8)	32.9	(28.1-38.0)	32.7	(27.5-38.4)
Region 6	685	38.2	(33.7-43.0)	33.3	(29.1-37.8)	27.0	(23.1-31.4)
Van Buren-Cass	269	39.1	(31.9-46.7)	34.6	(27.8-42.0)	25.1	(19.2-32.0)
Berrien	353	39.5	(33.2-46.2)	31.6	(26.1-37.8)	27.3	(21.7-33.6)
Region 7	2,412	34.0	(31.6-36.5)	34.5	(32.1-37.0)	30.0	(27.7-32.4)
Allegan	255	33.6	(26.7-41.2)	35.1	(27.5-43.5)	30.4	(23.5-38.2)
Ionia	128	38.1	(28.3-49.1)	34.3	(24.4-45.7)	26.8	(17.0-39.5)
Kent	1,212	32.7	(29.5-36.1)	33.3	(30.1-36.7)	32.2	(29.0-35.6)
Mid-Michigan ^d	495	38.3	(32.9-44.0)	33.4	(28.1-39.0)	26.2	(21.6-31.4)
Ottawa	533	34.8	(29.8-40.2)	37.3	(32.2-42.7)	26.3	(22.0-31.1)

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Table 6 Cont'd

Geographic Area	Sample Size	Obese ^a		Overweight ^b		Healthy Weight ^c	
		N	%	95% Confidence Interval	%	95% Confidence Interval	%
Michigan Total	23,827	34.7	(33.9-35.5)	33.9	(33.1-34.7)	29.3	(28.6-30.1)
Region 8	1,173	34.3	(30.9-37.9)	34.4	(30.8-38.1)	29.0	(25.4-32.8)
District #10	596	35.2	(30.3-40.5)	36.6	(31.4-42.1)	27.3	(22.6-32.5)
Muskegon	289	40.9	(33.0-49.3)	30.9	(24.1-38.7)	26.2	(17.5-37.1)
Region 9	935	33.0	(29.3-36.9)	35.8	(31.9-39.8)	28.9	(25.4-32.8)
District #2	158	46.4	(36.8-56.2)	29.7	(22.4-38.2)	21.8	(14.7-31.1)
District #4	191	39.2	(31.3-47.8)	34.7	(26.8-43.6)	22.1	(15.9-29.9)
Northwest Michigan	261	26.1	(20.2-33.1)	43.5	(35.4-51.9)	30.2	(23.5-37.9)
Benzie-Leelanau	108	31.8	(21.7-44.0)	29.8	(20.5-41.2)	35.0	(24.6-47.1)
Grand Traverse	217	24.4	(17.8-32.5)	34.7	(27.4-42.7)	37.8	(30.0-46.2)
Region 10	897	42.7	(38.6-47.0)	32.3	(28.6-36.3)	22.7	(19.3-26.6)
Bay	239	38.0	(30.0-46.8)	31.9	(24.6-40.2)	23.3	(17.1-30.9)
Huron	72	40.9	(28.7-54.3)	38.1	(26.0-51.8)	21.0	(12.9-32.4)
Saginaw	379	49.2	(42.6-55.8)	30.3	(24.7-36.6)	19.3	(14.7-25.0)
Sanilac	94	41.2	(29.6-53.9)	34.5	(24.6-46.0)	24.3	(14.7-37.4)
Tuscola	113	34.0	(24.1-45.5)	34.4	(24.8-45.5)	31.5	(20.7-44.7)
Region 11	618	36.8	(31.3-42.6)	34.9	(29.9-40.2)	26.2	(21.9-31.1)
Central Michigan	400	40.4	(33.4-47.7)	30.6	(25.1-36.7)	27.6	(22.1-34.0)
Midland	218	29.1	(22.0-37.5)	43.9	(34.7-53.7)	23.2	(17.2-30.5)
Region 12	857	34.2	(30.0-38.7)	33.6	(29.6-37.9)	30.9	(26.9-35.1)
Luce-Mackinac-Alger-Schoolcraft	125	45.7	(34.3-57.7)	20.7	(14.3-29.2)	29.8	(21.0-40.4)
Western Upper Peninsula	194	34.0	(25.5-43.6)	30.1	(22.9-38.4)	35.9	(27.2-45.7)
Delta-Menominee	164	46.0	(36.9-55.3)	38.7	(30.2-47.9)	15.1	(10.4-21.3)
Chippewa	96	32.0	(21.0-45.5)	43.9	(28.9-60.2)	24.0	(14.6-37.0)
Dickinson-Iron	103	26.4	(16.8-38.9)	42.8	(31.6-54.8)	30.8	(20.6-43.3)
Marquette	175	20.8	(14.8-28.4)	33.2	(24.8-42.9)	42.5	(33.1-52.4)

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.

^a The proportion of adults whose BMI was greater than or equal to 30.0.

^b The proportion of adults whose BMI was greater than or equal to 25.0, but less than 30.0.

^c The proportion of adults whose BMI was greater than or equal to 18.5, but less than 25.0.

^d The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the regional estimates.

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Table 7: No Health Care Coverage Among Those Aged 18-64 Years Michigan BRFS, 2020-2022 Combined			
Geographic Area	No Health Care Coverage^a		
	N	%	95% Confidence Interval
Michigan Total	15,629	6.8	(6.2-7.3)
Region 1	7,049	5.5	(4.9-6.3)
Livingston			
Macomb	933	4.9	(3.4-7.2)
Monroe			
Oakland	1,654	3.7	(2.9-4.9)
St. Clair			
Washtenaw	1,158	4.7	(3.1-7.0)
City of Detroit	785	8.7	(6.4-11.8)
Wayne exc. Detroit	1,523	6.9	(5.4-8.7)
Region 2	803	6.6	(4.9-8.7)
Genesee	563	5.7	(3.9-8.4)
Lapeer	-- ^c	-- ^c	-- ^c
Shiawassee	-- ^c	-- ^c	-- ^c
Region 3	629	7.2	(5.1-10.1)
Jackson	354	6.8	(4.2-10.9)
Lenawee	-- ^c	-- ^c	-- ^c
Region 4	988	5.4	(3.8-7.5)
Barry-Eaton	-- ^c	-- ^c	-- ^c
Mid-Michigan ^b	309	6.8	(3.7-12.0)
Ingham	450	5.0	(2.9-8.5)
Region 5	887	6.9	(5.1-9.3)
Branch-Hillsdale-St. Joseph	-- ^c	-- ^c	-- ^c
Calhoun	218	10.0	(5.9-16.5)
Kalamazoo	392	5.5	(3.3-9.0)
Region 6	423	6.7	(4.4-10.1)
Van Buren-Cass	-- ^c	-- ^c	-- ^c
Berrien	210	7.6	(4.4-12.9)
Region 7	1,655	7.5	(5.9-9.4)
Allegan	-- ^c	-- ^c	-- ^c
Ionia	-- ^c	-- ^c	-- ^c
Kent	833	8.9	(6.7-11.8)
Mid-Michigan ^b	309	6.8	(3.7-12.0)
Ottawa	-- ^c	-- ^c	-- ^c

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Table 7 Cont'd			
Geographic Area	No Health Care Coverage^a		
	N	%	95% Confidence Interval
Michigan Total	15,629	6.8	(6.2-7.3)
Region 8	796	10.4	(7.3-14.5)
District #10	357	11.2	(6.3-19.2)
Muskegon	-- ^c	-- ^c	-- ^c
Region 9	527	9.2	(5.9-14.1)
District #2	-- ^c	-- ^c	-- ^c
District #4	-- ^c	-- ^c	-- ^c
Northwest Michigan	-- ^c	-- ^c	-- ^c
Benzie-Leelanau	-- ^c	-- ^c	-- ^c
Grand Traverse	-- ^c	-- ^c	-- ^c
Region 10	561	10.1	(7.2-14.0)
Bay	-- ^c	-- ^c	-- ^c
Huron	-- ^c	-- ^c	-- ^c
Saginaw	244	6.8	(3.8-11.7)
Sanilac	-- ^c	-- ^c	-- ^c
Tuscola	-- ^c	-- ^c	-- ^c
Region 11	371	7.2	(4.5-11.4)
Central Michigan	228	10.5	(6.4-16.8)
Midland	-- ^c	-- ^c	-- ^c
Region 12	529	6.0	(3.9-9.1)
Luce-Mackinac-Alger-Schoolcraft	-- ^c	-- ^c	-- ^c
Western Upper Peninsula	-- ^c	-- ^c	-- ^c
Delta-Menominee	-- ^c	-- ^c	-- ^c
Chippewa	-- ^c	-- ^c	-- ^c
Dickinson-Iron	-- ^c	-- ^c	-- ^c
Marquette	-- ^c	-- ^c	-- ^c

^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.
^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the regional estimates.
^c Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

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Table 8: Health Care Access Michigan BRFSS, 2020-2022 Combined						
Geographic Area	No Personal Health Care Provider^a			No Health Care Access During Past 12 Months Due to Cost^b		
	N	%	95% Confidence Interval	N	%	95% Confidence Interval
Michigan Total	26,505	12.4	(11.8-13.0)	26,683	7.9	(7.5-8.4)
Region 1	11,761	11.1	(10.3-12.0)	11,812	7.0	(6.4-7.7)
Livingston	777	8.8	(6.4-11.9)	782	4.8	(3.3-7.0)
Macomb	1,565	9.3	(7.5-11.5)	1,567	6.2	(4.8-8.0)
Monroe	517	12.8	(8.9-18.1)	519	9.5	(5.8-15.2)
Oakland	2,832	9.5	(8.1-11.2)	2,844	6.2	(5.1-7.5)
St. Clair	316	9.3	(5.7-14.8)	315	5.6	(3.2-9.8)
Washtenaw	2,019	11.3	(9.2-13.7)	2,028	5.9	(4.3-8.1)
City of Detroit	1,149	16.8	(14.0-19.9)	1,154	10.2	(8.3-12.5)
Wayne exc. Detroit	2,462	11.1	(9.4-13.0)	2,480	7.4	(6.2-8.8)
Region 2	1,297	13.2	(10.8-15.9)	1,301	10.7	(8.8-13.1)
Genesee	889	13.9	(11.0-17.3)	893	10.8	(8.5-13.7)
Lapeer	186	8.3	(4.7-14.3)	188	10.3	(6.1-16.9)
Shiawassee	-- ^d	-- ^d	-- ^d	172	9.2	(5.2-15.8)
Region 3	1,116	13.5	(11.1-16.5)	1,120	8.4	(6.4-10.8)
Jackson	625	12.0	(8.9-16.0)	627	8.0	(5.4-11.7)
Lenawee	389	12.9	(9.1-17.8)	389	9.6	(6.2-14.5)
Region 4	1,655	14.0	(11.8-16.5)	1,667	8.4	(6.8-10.3)
Barry-Eaton	459	13.0	(9.0-18.4)	463	6.1	(4.0-9.4)
Mid-Michigan ^c	532	8.0	(5.3-12.0)	535	7.4	(4.8-11.1)
Ingham	737	16.8	(13.4-21.0)	747	9.8	(7.2-13.1)
Region 5	1,499	13.5	(11.2-16.1)	1,509	8.2	(6.4-10.4)
Branch-Hillsdale-St. Joseph	411	8.7	(5.6-13.1)	415	9.2	(5.8-14.1)
Calhoun	358	12.6	(8.5-18.4)	362	10.6	(6.3-17.1)
Kalamazoo	635	15.3	(11.8-19.7)	637	6.2	(4.3-9.0)
Region 6	753	14.4	(11.3-18.2)	766	8.6	(6.0-12.2)
Van Buren-Cass	291	14.7	(9.7-21.6)	-- ^d	-- ^d	-- ^d
Berrien	388	13.0	(9.2-18.1)	395	6.4	(4.0-10.1)

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Table 8 Cont'd						
Geographic Area	No Personal Health Care Provider^a			No Health Care Access During Past 12 Months Due to Cost^b		
	N	%	95% Confidence Interval	N	%	95% Confidence Interval
Michigan Total	26,505	12.4	(11.8-13.0)	26,683	7.9	(7.5-8.4)
Region 7	2,667	10.8	(9.2-12.7)	2,688	7.6	(6.3-9.0)
Allegan	289	12.2	(7.6-18.9)	290	6.0	(3.5-10.1)
Ionia	-- ^d	-- ^d	-- ^d	-- ^d	-- ^d	-- ^d
Kent	1,333	11.3	(9.2-13.9)	1,346	9.1	(7.3-11.4)
Mid-Michigan ^c	532	8.0	(5.3-12.0)	535	7.4	(4.8-11.1)
Ottawa	599	7.9	(5.1-12.0)	602	4.8	(3.2-7.3)
Region 8	1,321	17.3	(14.3-20.7)	1,337	11.4	(9.0-14.3)
District #10	654	16.3	(11.6-22.4)	662	10.4	(6.9-15.4)
Muskegon	329	8.5	(4.8-14.5)	333	11.0	(6.7-17.7)
Region 9	1,018	10.3	(8.1-13.1)	1,023	6.9	(5.0-9.5)
District #2	169	13.9	(8.3-22.4)	170	14.0	(7.6-24.3)
District #4	209	9.9	(6.1-15.6)	-- ^d	-- ^d	-- ^d
Northwest Michigan	285	8.1	(4.9-13.1)	-- ^d	-- ^d	-- ^d
Benzie-Leelanau	-- ^d	-- ^d	-- ^d	-- ^d	-- ^d	-- ^d
Grand Traverse	240	12.3	(7.3-20.2)	240	9.7	(5.7-15.8)
Region 10	996	12.7	(9.9-16.2)	1,007	9.4	(7.0-12.4)
Bay	270	14.9	(9.5-22.7)	274	12.1	(7.3-19.3)
Huron	-- ^d	-- ^d	-- ^d	-- ^d	-- ^d	-- ^d
Saginaw	426	11.2	(7.2-17.0)	432	10.2	(6.5-15.5)
Sanilac	-- ^d	-- ^d	-- ^d	-- ^d	-- ^d	-- ^d
Tuscola	-- ^d	-- ^d	-- ^d	-- ^d	-- ^d	-- ^d
Region 11	678	14.3	(10.6-19.2)	678	7.6	(5.2-10.8)
Central Michigan	438	15.1	(10.8-20.6)	438	7.5	(4.8-11.6)
Midland	-- ^d	-- ^d	-- ^d	-- ^d	-- ^d	-- ^d
Region 12	936	12.3	(9.6-15.6)	941	6.1	(4.4-8.3)
Luce-Mackinac-Alger-Schoolcraft	136	19.3	(10.8-32.2)	-- ^d	-- ^d	-- ^d
Western Upper Peninsula	213	14.4	(9.4-21.5)	-- ^d	-- ^d	-- ^d
Delta-Menominee	183	10.7	(6.4-17.4)	-- ^d	-- ^d	-- ^d
Chippewa	-- ^d	-- ^d	-- ^d	-- ^d	-- ^d	-- ^d
Dickinson-Iron	-- ^d	-- ^d	-- ^d	-- ^d	-- ^d	-- ^d
Marquette	-- ^d	-- ^d	-- ^d	-- ^d	-- ^d	-- ^d

^a The proportion of adults who reported that they did not have anyone that they thought of as their personal doctor or health care provider.
^b The proportion of adults who reported that in the past 12 months there was a time when they needed to see a doctor but could not due to the cost.
^c The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the regional estimates.
^d Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Table 9: No Leisure Time Physical Activity Michigan BRFSS, 2020-2022 Combined			
Geographic Area	No Leisure Time Physical Activity^a		
	N	%	95% Confidence Interval
Michigan Total	26,686	22.6	(22.0-23.3)
Region 1	11,823	21.8	(20.8-22.9)
Livingston	780	16.4	(13.2-20.3)
Macomb	1,572	22.5	(20.0-25.1)
Monroe	520	28.5	(23.3-34.3)
Oakland	2,845	18.1	(16.4-19.9)
St. Clair	316	24.0	(18.9-30.1)
Washtenaw	2,028	14.7	(12.6-17.1)
City of Detroit	1,150	32.3	(29.0-35.9)
Wayne exc. Detroit	2,486	21.9	(19.9-24.1)
Region 2	1,302	30.5	(27.5-33.6)
Genesee	893	29.3	(25.8-33.2)
Lapeer	187	34.9	(27.0-43.6)
Shiawassee	173	35.1	(26.9-44.2)
Region 3	1,118	24.4	(21.3-27.8)
Jackson	626	23.0	(19.1-27.5)
Lenawee	388	28.7	(23.1-35.0)
Region 4	1,668	20.8	(18.5-23.4)
Barry-Eaton	462	27.6	(22.6-33.3)
Mid-Michigan ^b	536	20.9	(16.8-25.6)
Ingham	745	18.5	(15.2-22.3)
Region 5	1,504	23.8	(21.2-26.7)
Branch-Hillsdale-St. Joseph	413	26.9	(22.0-32.4)
Calhoun	361	28.0	(22.3-34.4)
Kalamazoo	637	18.3	(14.9-22.4)
Region 6	763	23.5	(19.9-27.4)
Van Buren-Cass	292	25.0	(19.1-32.0)
Berrien	394	22.3	(17.7-27.7)
Region 7	2,686	19.3	(17.5-21.3)
Allegan	292	20.6	(15.8-26.4)
Ionia	143	34.9	(25.8-45.2)
Kent	1,341	18.4	(15.8-21.2)
Mid-Michigan ^b	536	20.9	(16.8-25.6)
Ottawa	604	16.1	(12.8-20.0)

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Table 9 Cont'd			
Geographic Area	No Leisure Time Physical Activity^a		
	N	%	95% Confidence Interval
Michigan Total	26,686	22.6	(22.0-23.3)
Region 8	1,335	23.4	(20.4-26.8)
District #10	661	22.7	(18.1-28.2)
Muskegon	331	22.2	(16.8-28.7)
Region 9	1,020	21.3	(18.3-24.6)
District #2	169	30.3	(22.1-39.9)
District #4	210	25.8	(19.2-33.8)
Northwest Michigan	285	16.8	(12.3-22.5)
Benzie-Leelanau	117	29.8	(20.5-41.1)
Grand Traverse	239	11.3	(7.2-17.3)
Region 10	1,010	24.0	(20.7-27.5)
Bay	275	19.4	(14.0-26.4)
Huron	77	20.1	(12.2-31.3)
Saginaw	433	25.3	(20.4-31.0)
Sanilac	101	33.2	(22.8-45.5)
Tuscola	124	22.7	(14.6-33.6)
Region 11	679	25.7	(21.6-30.3)
Central Michigan	438	29.0	(23.6-35.1)
Midland	241	18.9	(13.6-25.5)
Region 12	945	23.0	(19.9-26.6)
Luce-Mackinac-Alger-Schoolcraft	136	25.7	(17.4-36.3)
Western Upper Peninsula	214	22.0	(16.0-29.5)
Delta-Menominee	186	21.7	(15.5-29.5)
Chippewa	104	25.4	(16.2-37.6)
Dickinson-Iron	112	26.8	(18.2-37.7)
Marquette	193	20.1	(13.5-28.9)

^a 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.

^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the regional estimates.

**Table 10: Cigarette Smoking
Michigan BRFSS, 2020-2022 Combined**

Geographic Area	Sample Size	Current Smoking ^a		Former Smoking ^b		Never Smoked	
		N	%	95% Confidence Interval	%	95% Confidence Interval	%
Michigan Total	24,994	16.9	(16.3-17.6)	26.5	(25.8-27.3)	56.6	(55.7-57.4)
Region 1	11,093	15.4	(14.5-16.4)	25.6	(24.5-26.6)	59.0	(57.8-60.2)
Livingston	748	12.2	(9.1-16.0)	30.9	(26.9-35.1)	57.0	(52.3-61.5)
Macomb	1,473	17.8	(15.3-20.4)	27.6	(24.9-30.5)	54.7	(51.4-57.8)
Monroe	479	14.0	(10.4-18.7)	32.3	(27.0-38.0)	53.7	(47.7-59.6)
Oakland	2,642	11.4	(9.9-13.1)	25.0	(23.1-27.1)	63.5	(61.2-65.8)
St. Clair	297	17.3	(12.4-23.7)	33.5	(27.3-40.4)	49.1	(42.3-56.0)
Washtenaw	1,943	9.2	(7.5-11.4)	20.1	(17.7-22.7)	70.7	(67.7-73.5)
City of Detroit	1,067	22.8	(19.8-26.2)	19.1	(16.3-22.2)	58.1	(54.3-61.8)
Wayne exc. Detroit	2,329	16.2	(14.3-18.2)	27.1	(24.9-29.5)	56.7	(54.1-59.2)
Region 2	1,210	19.8	(17.2-22.7)	30.1	(27.1-33.4)	50.0	(46.6-53.5)
Genesee	829	19.8	(16.7-23.4)	28.4	(24.9-32.3)	51.7	(47.5-55.9)
Lapeer	177	17.1	(11.5-24.6)	37.0	(28.9-45.9)	45.9	(37.3-54.7)
Shiawassee	166	17.4	(11.4-25.8)	35.1	(27.0-44.2)	47.5	(38.6-56.5)
Region 3	1,051	18.7	(15.7-22.1)	30.8	(27.3-34.4)	50.5	(46.6-54.5)
Jackson	589	21.8	(17.7-26.6)	30.5	(26.1-35.3)	47.7	(42.6-52.8)
Lenawee	373	17.7	(12.7-24.2)	34.7	(28.5-41.5)	47.6	(40.9-54.3)
Region 4	1,582	15.7	(13.5-18.2)	23.9	(21.4-26.6)	60.4	(57.3-63.4)
Barry-Eaton	441	16.1	(11.9-21.4)	25.3	(20.7-30.6)	58.6	(52.7-64.3)
Mid-Michigan ^c	510	21.5	(16.8-27.0)	21.9	(17.8-26.7)	56.6	(50.9-62.2)
Ingham	702	13.5	(10.5-17.2)	25.8	(21.9-30.1)	60.7	(55.9-65.3)
Region 5	1,430	19.2	(16.4-22.3)	28.0	(25.2-31.0)	52.8	(49.4-56.2)
Branch-Hillsdale-St. Joseph	397	18.2	(13.6-23.9)	29.3	(24.0-35.2)	52.5	(46.0-58.9)
Calhoun	344	25.8	(19.5-33.3)	32.2	(26.4-38.6)	42.1	(35.6-48.8)
Kalamazoo	598	15.9	(12.2-20.5)	24.4	(20.4-29.0)	59.6	(54.3-64.7)
Region 6	714	17.8	(14.2-21.9)	28.8	(25.0-33.0)	53.4	(48.8-58.0)
Van Buren-Cass	281	21.3	(15.5-28.4)	32.4	(26.1-39.4)	46.3	(39.1-53.8)
Berrien	370	14.5	(10.1-20.2)	26.2	(21.3-31.9)	59.3	(52.9-65.4)
Region 7	2,518	15.3	(13.4-17.4)	24.2	(22.2-26.3)	60.5	(58.0-62.9)
Allegan	272	22.9	(16.2-31.3)	25.5	(19.5-32.5)	51.7	(43.8-59.5)
Ionia	132	21.6	(13.4-32.8)	20.8	(14.0-29.8)	57.6	(46.5-68.0)
Kent	1,260	13.5	(11.1-16.3)	24.5	(21.8-27.4)	62.0	(58.6-65.3)
Mid-Michigan ^c	510	21.5	(16.8-27.0)	21.9	(17.8-26.7)	56.6	(50.9-62.2)
Ottawa	564	12.3	(9.1-16.5)	25.3	(21.2-29.9)	62.3	(57.2-67.2)

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Table 10 Cont'd							
Geographic Area	Sample Size	Current Smoking ^a		Former Smoking ^b		Never Smoked	
		N	%	95% Confidence Interval	%	95% Confidence Interval	%
Michigan Total	24,994	16.9	(16.3-17.6)	26.5	(25.8-27.3)	56.6	(55.7-57.4)
Region 8	1,239	22.1	(18.7-26.0)	26.7	(23.5-30.1)	51.2	(47.3-55.1)
District #10	625	24.1	(19.2-29.7)	27.3	(22.7-32.5)	48.6	(42.9-54.4)
Muskegon	311	23.2	(15.0-34.0)	29.2	(22.7-36.7)	47.6	(39.4-56.1)
Region 9	970	19.0	(15.8-22.6)	30.2	(26.7-34.0)	50.8	(46.8-54.8)
District #2	160	29.8	(21.5-39.8)	35.9	(26.9-46.0)	34.3	(26.2-43.4)
District #4	197	21.7	(14.7-30.9)	27.7	(21.1-35.4)	50.6	(42.0-59.2)
Northwest Michigan	269	9.9	(6.3-15.2)	29.9	(22.8-38.1)	60.2	(52.0-67.8)
Benzie-Leelanau	113	23.0	(13.7-35.9)	34.6	(24.7-46.0)	42.4	(31.7-53.8)
Grand Traverse	231	17.0	(11.6-24.2)	26.8	(20.8-33.7)	56.2	(48.3-63.9)
Region 10	942	20.6	(17.3-24.4)	29.4	(25.9-33.2)	50.0	(45.8-54.2)
Bay	253	22.6	(15.5-31.7)	29.8	(23.2-37.3)	47.6	(39.2-56.3)
Huron	72	28.6	(17.3-43.4)	24.1	(15.0-36.4)	47.3	(34.7-60.3)
Saginaw	402	16.2	(12.1-21.3)	32.0	(26.2-38.5)	51.8	(45.3-58.2)
Sanilac	95	13.3	(7.5-22.6)	24.5	(16.3-35.0)	62.2	(50.6-72.6)
Tuscola	120	32.0	(21.7-44.5)	27.3	(19.0-37.5)	40.7	(30.2-52.1)
Region 11	642	19.4	(15.5-24.0)	31.6	(26.4-37.2)	49.0	(43.5-54.5)
Central Michigan	414	22.3	(17.1-28.4)	34.9	(28.3-42.1)	42.9	(36.5-49.5)
Midland	228	13.5	(9.0-19.8)	24.7	(18.2-32.6)	61.8	(53.2-69.8)
Region 12	910	18.5	(15.4-22.0)	30.4	(26.8-34.3)	51.1	(46.9-55.3)
Luce-Mackinac-Alger-Schoolcraft	133	22.1	(14.4-32.3)	23.3	(15.8-32.9)	54.6	(43.5-65.3)
Western Upper Peninsula	202	16.3	(11.0-23.4)	30.6	(22.9-39.6)	53.1	(43.9-62.1)
Delta-Menominee	176	16.1	(10.5-23.8)	35.8	(27.6-45.0)	48.1	(39.4-56.9)
Chippewa	-- ^d	-- ^d	-- ^d	33.5	(23.2-45.5)	47.1	(35.0-59.5)
Dickinson-Iron	111	24.4	(15.0-37.0)	31.3	(21.8-42.7)	44.3	(33.4-55.8)
Marquette	188	16.5	(10.5-25.0)	29.0	(21.7-37.7)	54.5	(45.1-63.5)

^a The proportion of adults who reported that they had ever smoked at least 100 cigarettes (five packs) in their life and that they smoke cigarettes now, either every day or on some days.

^b The proportion of adults who reported that they had ever smoked at least 100 cigarettes (five packs) in their life, but they do not smoke cigarettes now.

^c The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the regional estimates.

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

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Table 11: Alcohol Consumption
Michigan BRFSS, 2020-2022 Combined

Geographic Area	Sample Size	Any Alcohol in Past Month ^a		Heavy Drinking ^b		Binge Drinking ^c	
		N	%	95% Confidence Interval	%	95% Confidence Interval	%
Michigan Total	24,524	54.8	(54.0-55.6)	6.8	(6.4-7.2)	16.9	(16.2-17.5)
Region 1	10,887	56.4	(55.1-57.6)	6.3	(5.7-6.9)	16.4	(15.4-17.4)
Livingston	736	62.2	(57.6-66.7)	7.0	(4.7-10.3)	18.6	(14.9-22.9)
Macomb	1,452	58.5	(55.2-61.7)	5.2	(3.9-7.0)	17.0	(14.5-19.7)
Monroe	473	53.7	(47.6-59.7)	9.8	(6.5-14.4)	16.8	(12.4-22.3)
Oakland	2,607	61.2	(58.8-63.5)	7.1	(5.9-8.4)	15.6	(13.8-17.5)
St. Clair	291	57.2	(50.2-63.9)	8.5	(5.6-12.6)	20.4	(15.0-27.1)
Washtenaw	1,909	63.4	(60.1-66.5)	7.1	(5.4-9.3)	17.4	(14.9-20.3)
City of Detroit	1,029	49.5	(45.7-53.3)	5.6	(4.1-7.6)	17.1	(14.3-20.3)
Wayne exc. Detroit	2,277	49.9	(47.3-52.5)	5.5	(4.4-6.9)	14.9	(13.1-16.9)
Region 2	1,191	51.2	(47.7-54.7)	6.3	(4.8-8.3)	18.1	(15.4-21.3)
Genesee	816	51.1	(46.9-55.3)	5.1	(3.6-7.4)	17.2	(14.0-21.0)
Lapeer	174	51.0	(42.2-59.7)	10.5	(5.7-18.5)	20.3	(13.3-29.7)
Shiawassee	164	49.0	(39.9-58.2)	-- ^e	-- ^e	19.7	(13.0-28.7)
Region 3	1,029	51.2	(47.3-55.2)	5.7	(4.0-8.1)	15.3	(12.5-18.7)
Jackson	574	50.2	(45.1-55.3)	6.5	(4.2-9.8)	16.2	(12.5-20.7)
Lenawee	367	48.9	(42.1-55.8)	3.1	(1.7-5.6)	9.3	(6.3-13.7)
Region 4	1,560	53.8	(50.6-56.9)	6.0	(4.8-7.6)	17.8	(15.3-20.6)
Barry-Eaton	431	50.5	(44.6-56.4)	5.2	(3.1-8.7)	12.2	(8.5-17.0)
Mid-Michigan ^d	498	49.0	(43.3-54.7)	7.4	(4.7-11.4)	14.1	(10.7-18.4)
Ingham	698	58.2	(53.3-62.9)	6.1	(4.3-8.6)	21.5	(17.6-25.8)
Region 5	1,411	52.9	(49.5-56.3)	7.4	(5.7-9.5)	15.4	(13.0-18.2)
Branch-Hillsdale-St. Joseph	386	48.0	(41.5-54.6)	5.4	(3.1-9.3)	11.1	(7.5-16.0)
Calhoun	341	54.7	(47.9-61.3)	7.9	(4.5-13.6)	17.7	(12.4-24.6)
Kalamazoo	593	55.4	(50.0-60.8)	8.0	(5.7-11.2)	16.3	(12.9-20.4)
Region 6	699	52.3	(47.7-56.9)	8.0	(5.8-10.9)	17.7	(14.2-21.8)
Van Buren-Cass	274	50.7	(43.3-58.1)	8.2	(5.0-13.1)	16.6	(11.8-22.9)
Berrien	363	52.8	(46.4-59.1)	7.4	(4.6-11.6)	17.2	(12.3-23.5)
Region 7	2,458	57.8	(55.3-60.3)	7.2	(5.8-8.7)	17.9	(16.0-19.9)
Allegan	262	53.3	(45.1-61.3)	-- ^e	-- ^e	11.1	(7.3-16.4)
Ionia	128	46.7	(35.7-58.0)	-- ^e	-- ^e	-- ^e	-- ^e
Kent	1,240	60.5	(57.0-63.9)	8.1	(6.2-10.5)	20.4	(17.6-23.4)
Mid-Michigan ^d	498	49.0	(43.3-54.7)	7.4	(4.7-11.4)	14.1	(10.7-18.4)
Ottawa	547	58.8	(53.3-64.0)	6.2	(4.2-9.1)	16.9	(13.3-21.4)

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Table 11 Cont'd							
Geographic Area	Sample Size	Any Alcohol in Past Month ^a		Heavy Drinking ^b		Binge Drinking ^c	
		N	%	95% Confidence Interval	%	95% Confidence Interval	%
Michigan Total	24,524	54.8	(54.0-55.6)	6.8	(6.4-7.2)	16.9	(16.2-17.5)
Region 8	1,213	53.3	(49.4-57.3)	9.0	(6.8-12.0)	17.2	(14.2-20.6)
District #10	611	51.0	(45.1-56.8)	10.6	(7.0-15.9)	16.2	(11.9-21.7)
Muskegon	305	50.9	(42.3-59.5)	5.6	(3.1-9.6)	14.9	(10.3-21.2)
Region 9	952	56.1	(52.0-60.0)	7.8	(6.0-10.1)	15.8	(13.1-19.0)
District #2	155	42.5	(33.5-52.1)	9.3	(5.0-16.5)	15.5	(9.5-24.3)
District #4	195	52.0	(43.4-60.5)	9.2	(5.5-15.1)	15.0	(10.0-21.9)
Northwest Michigan	266	59.8	(51.9-67.3)	6.8	(4.0-11.3)	16.0	(11.1-22.6)
Benzie-Leelanau	111	69.8	(58.3-79.3)	-- ^e	-- ^e	14.9	(8.0-26.1)
Grand Traverse	225	60.4	(52.2-68.1)	6.3	(3.5-11.0)	17.1	(11.6-24.4)
Region 10	933	54.3	(50.1-58.5)	6.5	(4.7-8.8)	17.9	(14.8-21.6)
Bay	251	61.9	(53.5-69.7)	-- ^e	-- ^e	21.3	(14.8-29.7)
Huron	71	58.8	(45.5-70.9)	-- ^e	-- ^e	25.2	(14.5-40.0)
Saginaw	398	54.4	(47.9-60.8)	6.4	(4.0-10.2)	18.4	(13.9-23.9)
Sanilac	94	36.8	(26.2-48.9)	-- ^e	-- ^e	-- ^e	-- ^e
Tuscola	119	52.0	(40.7-63.1)	-- ^e	-- ^e	-- ^e	-- ^e
Region 11	639	47.7	(42.2-53.2)	7.8	(5.5-10.8)	15.3	(11.1-20.9)
Central Michigan	412	46.1	(39.3-53.0)	6.9	(4.5-10.6)	14.8	(9.4-22.5)
Midland	227	51.0	(41.9-60.0)	9.5	(5.5-15.8)	16.5	(11.0-24.0)
Region 12	891	55.2	(50.9-59.4)	8.8	(6.6-11.6)	22.3	(18.7-26.2)
Luce-Mackinac-Alger-Schoolcraft	131	55.7	(44.7-66.2)	-- ^e	-- ^e	21.6	(13.2-33.4)
Western Upper Peninsula	199	52.3	(43.3-61.2)	5.9	(3.4-9.9)	23.3	(16.5-32.0)
Delta-Menominee	173	57.0	(47.9-65.6)	10.5	(6.2-17.0)	20.4	(13.7-29.2)
Chippewa	99	63.1	(51.4-73.5)	-- ^e	-- ^e	31.4	(19.2-46.9)
Dickinson-Iron	106	64.2	(52.7-74.3)	-- ^e	-- ^e	25.4	(16.1-37.7)
Marquette	183	47.6	(38.3-57.0)	8.5	(4.7-14.9)	16.7	(11.0-24.7)

^a Among all adults, the proportion who reported consuming at least one drink of any alcoholic beverage in the previous month.

^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.

^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.

^d The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the regional estimates.

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

Table 12: No Routine Checkup in Past Year Michigan BRFSS, 2020-2022 Combined			
Geographic Area	Had No Routine Checkup in Past Year^a		
	N	%	95% Confidence Interval
Michigan Total	26,457	22.3	(21.6-23.0)
Region 1	11,739	21.7	(20.7-22.8)
Livingston	778	22.0	(18.4-26.1)
Macomb	1,557	20.3	(17.8-23.1)
Monroe	514	23.9	(18.7-29.9)
Oakland	2,830	22.1	(20.1-24.1)
St. Clair	314	22.6	(17.2-29.1)
Washtenaw	2,013	30.2	(27.2-33.3)
City of Detroit	1,145	19.3	(16.5-22.5)
Wayne exc. Detroit	2,465	20.4	(18.4-22.6)
Region 2	1,294	22.9	(20.1-26.0)
Genesee	889	23.8	(20.4-27.6)
Lapeer	187	17.5	(12.0-24.9)
Shiawassee	169	22.0	(14.8-31.4)
Region 3	1,111	25.1	(21.8-28.6)
Jackson	621	25.9	(21.5-30.8)
Lenawee	388	24.8	(19.3-31.3)
Region 4	1,659	22.5	(19.9-25.3)
Barry-Eaton	462	22.7	(18.0-28.2)
Mid-Michigan ^b	533	18.8	(14.6-24.0)
Ingham	739	25.1	(21.0-29.7)
Region 5	1,482	23.4	(20.6-26.4)
Branch-Hillsdale-St. Joseph	405	19.0	(14.6-24.4)
Calhoun	354	24.5	(18.4-31.8)
Kalamazoo	629	24.5	(20.4-29.1)
Region 6	759	25.3	(21.4-29.6)
Van Buren-Cass	291	25.6	(19.3-33.2)
Berrien	392	23.9	(18.9-29.7)
Region 7	2,674	22.4	(20.4-24.6)
Allegan	288	19.2	(14.0-25.8)
Ionia	144	25.5	(15.8-38.6)
Kent	1,340	24.1	(21.3-27.2)
Mid-Michigan ^b	533	18.8	(14.6-24.0)
Ottawa	596	18.8	(14.9-23.3)

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Table 12 Cont'd			
Geographic Area	Had No Routine Checkup in Past Year^a		
	N	%	95% Confidence Interval
Michigan Total	26,457	22.3	(21.6-23.0)
Region 8	1,315	26.5	(23.0-30.3)
District #10	652	28.1	(22.7-34.2)
Muskegon	328	19.1	(13.6-26.2)
Region 9	1,015	16.6	(13.7-20.0)
District #2	167	19.3	(12.2-29.1)
District #4	210	16.0	(11.0-22.7)
Northwest Michigan	285	16.5	(10.7-24.6)
Benzie-Leelanau	116	14.4	(8.3-24.1)
Grand Traverse	237	16.0	(10.9-22.8)
Region 10	999	20.1	(16.8-23.9)
Bay	272	19.6	(13.8-27.1)
Huron	-- ^c	-- ^c	-- ^c
Saginaw	429	20.2	(15.1-26.5)
Sanilac	99	20.7	(12.5-32.3)
Tuscola	122	22.0	(13.3-34.0)
Region 11	669	22.5	(18.5-27.1)
Central Michigan	431	22.3	(17.3-28.3)
Midland	238	22.8	(16.7-30.4)
Region 12	936	21.4	(18.0-25.2)
Luce-Mackinac-Alger-Schoolcraft	134	23.9	(15.0-35.8)
Western Upper Peninsula	212	23.1	(16.2-31.9)
Delta-Menominee	184	20.4	(14.3-28.2)
Chippewa	103	29.5	(17.8-44.7)
Dickinson-Iron	112	14.4	(8.2-24.1)
Marquette	191	17.6	(11.1-26.9)

^a The proportion of adults who reported that they did not have a routine checkup in the past year.
^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the regional estimates.
^c Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Table 13: Breast Cancer Screening Among Women 40 Years and Older Michigan BRFS, 2018 and 2020 Combined			
Geographic Area	Had Mammogram in Past Two Years^a		
	N	%	95% Confidence Interval
Michigan Total	7,015	72.7	(71.3-74.1)
Region 1	3,142	71.9	(69.6-74.0)
Livingston	225	72.3	(63.9-79.4)
Macomb	402	74.2	(68.4-79.3)
Monroe	136	72.2	(61.7-80.7)
Oakland	763	73.9	(69.8-77.7)
St. Clair	82	74.2	(61.2-83.9)
Washtenaw	537	68.6	(63.0-73.7)
City of Detroit	280	64.7	(57.2-71.5)
Wayne exc. Detroit	691	71.5	(66.6-76.0)
Region 2	365	75.8	(69.9-80.9)
Genesee	248	78.6	(71.6-84.3)
Lapeer	62	67.9	(51.5-80.8)
Shiawassee	49	69.5	(51.9-82.8)
Region 3	309	75.4	(68.4-81.3)
Jackson	172	72.8	(63.0-80.8)
Lenawee	116	83.5	(71.4-91.1)
Region 4	449	75.1	(70.0-79.7)
Barry-Eaton	128	68.1	(57.4-77.1)
Mid-Michigan ^b	157	77.8	(69.3-84.5)
Ingham	190	78.0	(70.2-84.2)
Region 5	408	69.8	(63.9-75.1)
Branch-Hillsdale-St. Joseph	123	70.1	(59.4-79.0)
Calhoun	99	73.0	(60.6-82.6)
Kalamazoo	159	67.1	(57.6-75.4)
Region 6	225	71.4	(63.7-78.0)
Van Buren-Cass	79	68.3	(54.2-79.7)
Berrien	135	72.6	(63.0-80.5)
Region 7	652	74.7	(70.3-78.7)
Allegan	83	80.0	(69.0-87.8)
Ionia	42	67.6	(49.3-81.8)
Kent	331	73.9	(67.4-79.6)
Mid-Michigan ^b	157	77.8	(69.3-84.5)
Ottawa	133	79.1	(68.0-87.1)

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Table 13 Cont'd			
Geographic Area	Mammogram in the Past Two Years^a		
	N	%	95% Confidence Interval
Michigan Total	7,015	72.7	(71.3-74.1)
Region 8	337	71.5	(64.8-77.4)
District #10	195	80.0	(72.1-86.0)
Muskegon	104	61.1	(48.2-72.6)
Region 9	290	73.7	(66.3-79.9)
District #2	-- ^c	-- ^c	-- ^c
District #4	42	68.5	(48.4-83.5)
Northwest Michigan	84	78.2	(63.4-88.1)
Benzie-Leelanau	-- ^c	-- ^c	-- ^c
Grand Traverse	69	64.0	(48.0-77.4)
Region 10	275	72.7	(64.5-79.6)
Bay	69	74.6	(59.0-85.8)
Huron	-- ^c	-- ^c	-- ^c
Saginaw	120	70.6	(55.8-82.0)
Sanilac	-- ^c	-- ^c	-- ^c
Tuscola	-- ^c	-- ^c	-- ^c
Region 11	182	70.7	(61.7-78.3)
Central Michigan	123	68.6	(57.4-78.0)
Midland	59	76.4	(61.4-86.8)
Region 12	272	74.5	(67.7-80.2)
Luce-Mackinac-Alger-Schoolcraft	51	75.3	(58.2-86.9)
Western Upper Peninsula	51	50.2	(33.9-66.4)
Delta-Menominee	-- ^c	-- ^c	-- ^c
Chippewa	-- ^c	-- ^c	-- ^c
Dickinson-Iron	-- ^c	-- ^c	-- ^c
Marquette	-- ^c	-- ^c	-- ^c

^a Among women aged 40 years and older, the proportion who reported having a mammogram in the past two years.

^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the regional estimates.

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

Table 14: Cervical Cancer Screening Among Women 21-65 Years Old Michigan BRFSS, 2022			
Geographic Area	Had Appropriately Timed Cervical Cancer Screening Test^a		
	N	%	95% Confidence Interval
Michigan Total	2,044	54.6	(51.9-57.4)
Region 1	971	56.1	(52.0-60.0)
Livingston	60	65.1	(48.3-78.8)
Macomb	116	57.6	(46.4-68.1)
Monroe	35	63.7	(42.8-80.5)
Oakland	225	59.7	(52.2-66.9)
St. Clair	-- ^c	-- ^c	-- ^c
Washtenaw	195	50.6	(41.6-59.5)
City of Detroit	103	42.3	(31.3-54.1)
Wayne exc. Detroit	206	57.2	(48.8-65.3)
Region 2	102	43.5	(31.9-55.7)
Genesee	81	43.5	(30.5-57.5)
Lapeer	-- ^c	-- ^c	-- ^c
Shiawassee	-- ^c	-- ^c	-- ^c
Region 3	66	55.0	(40.9-68.3)
Jackson	39	54.7	(37.0-71.3)
Lenawee	-- ^c	-- ^c	-- ^c
Region 4	106	59.9	(48.2-70.6)
Barry-Eaton	-- ^c	-- ^c	-- ^c
Mid-Michigan ^b	35	61.5	(40.4-79.0)
Ingham	44	49.6	(32.5-66.8)
Region 5	109	47.1	(36.1-58.4)
Branch-Hillsdale-St. Joseph	23	37.4	(19.4-59.7)
Calhoun	21	45.7	(24.5-68.6)
Kalamazoo	59	48.6	(33.4-64.0)
Region 6	59	49.1	(32.4-66.1)
Van Buren-Cass	-- ^c	-- ^c	-- ^c
Berrien	32	42.6	(24.1-63.5)
Region 7	201	58.0	(49.3-66.2)
Allegan	-- ^c	-- ^c	-- ^c
Ionia	-- ^c	-- ^c	-- ^c
Kent	104	55.0	(43.2-66.4)
Mid-Michigan ^b	35	61.5	(40.4-79.0)
Ottawa	41	57.4	(38.5-74.3)

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Table 14 Cont'd			
Geographic Area	Had Appropriately Timed Cervical Cancer Screening Test^a		
	N	%	95% Confidence Interval
Michigan Total	2,044	54.6	(51.9-57.4)
Region 8	104	51.6	(40.3-62.9)
District #10	51	76.6	(61.1-87.2)
Muskegon	-- ^c	-- ^c	-- ^c
Region 9	67	71.2	(56.8-82.2)
District #2	-- ^c	-- ^c	-- ^c
District #4	-- ^c	-- ^c	-- ^c
Northwest Michigan	-- ^c	-- ^c	-- ^c
Benzie-Leelanau	-- ^c	-- ^c	-- ^c
Grand Traverse	-- ^c	-- ^c	-- ^c
Region 10	76	62.0	(47.9-74.4)
Bay	-- ^c	-- ^c	-- ^c
Huron	-- ^c	-- ^c	-- ^c
Saginaw	38	49.2	(31.0-67.5)
Sanilac	-- ^c	-- ^c	-- ^c
Tuscola	-- ^c	-- ^c	-- ^c
Region 11	47	38.3	(24.3-54.7)
Central Michigan	-- ^c	-- ^c	-- ^c
Midland	21	45.4	(23.9-68.7)
Region 12	70	58.4	(42.0-73.1)
Luce-Mackinac-Alger-Schoolcraft	-- ^c	-- ^c	-- ^c
Western Upper Peninsula	-- ^c	-- ^c	-- ^c
Delta-Menominee	-- ^c	-- ^c	-- ^c
Chippewa	-- ^c	-- ^c	-- ^c
Dickinson-Iron	-- ^c	-- ^c	-- ^c
Marquette	-- ^c	-- ^c	-- ^c

^a Among women aged 21-65 years old, the proportion who reported having a cervical cancer screening test within the previous three years.
^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the regional estimates.
^c Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Table 15: Colorectal Cancer Screening Among Adults 50 Years and Older Michigan BRFSS, 2020 & 2022 Combined			
Geographic Area	Appropriate Colorectal Cancer Screening^a		
	N	%	95% Confidence Interval
Michigan Total	10,328	75.4	(74.3-76.5)
Region 1	4,618	75.0	(73.3-76.7)
Livingston	353	73.9	(67.5-79.5)
Macomb	592	72.7	(67.7-77.1)
Monroe	207	79.5	(72.3-85.2)
Oakland	1,131	77.9	(74.7-80.8)
St. Clair	136	77.8	(68.2-85.2)
Washtenaw	846	75.1	(71.0-78.7)
City of Detroit	346	70.5	(64.1-76.2)
Wayne exc. Detroit	963	75.3	(71.7-78.5)
Region 2	508	78.1	(73.2-82.3)
Genesee	330	75.8	(69.4-81.3)
Lapeer	91	80.6	(70.4-87.9)
Shiawassee	-- ^c	-- ^c	-- ^c
Region 3	479	76.2	(70.9-80.8)
Jackson	269	82.8	(75.8-88.1)
Lenawee	180	72.2	(63.1-79.8)
Region 4	637	78.9	(74.7-82.6)
Barry-Eaton	196	81.6	(74.4-87.2)
Mid-Michigan ^b	229	78.8	(71.7-84.5)
Ingham	250	78.0	(71.0-83.7)
Region 5	581	76.6	(72.1-80.6)
Branch-Hillsdale-St. Joseph	189	75.0	(66.5-81.9)
Calhoun	136	77.1	(67.4-84.5)
Kalamazoo	216	77.9	(70.4-83.9)
Region 6	298	72.1	(65.6-77.7)
Van Buren-Cass	115	76.2	(66.5-83.8)
Berrien	166	71.9	(63.2-79.3)
Region 7	959	76.4	(72.9-79.6)
Allegan	119	80.2	(71.5-86.7)
Ionia	60	68.6	(53.5-80.6)
Kent	480	77.4	(72.2-81.8)
Mid-Michigan ^b	229	78.8	(71.7-84.5)
Ottawa	204	75.5	(66.9-82.4)

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Table 15 Cont'd			
Geographic Area	Appropriate Colorectal Cancer Screening^a		
	N	%	95% Confidence Interval
Michigan Total	10,328	75.4	(74.3-76.5)
Region 8	508	70.0	(63.8-75.6)
District #10	282	70.3	(61.7-77.7)
Muskegon	157	74.6	(62.9-83.5)
Region 9	478	74.8	(68.8-80.0)
District #2	92	73.9	(60.3-84.0)
District #4	81	73.6	(61.0-83.2)
Northwest Michigan	133	67.5	(53.5-78.9)
Benzie-Leelanau	-- ^c	-- ^c	-- ^c
Grand Traverse	107	83.0	(73.3-89.7)
Region 10	414	76.2	(70.1-81.3)
Bay	111	74.1	(63.7-82.4)
Huron	37	72.1	(54.3-84.8)
Saginaw	171	82.8	(70.9-90.4)
Sanilac	40	68.9	(50.3-83.0)
Tuscola	55	67.9	(50.8-81.2)
Region 11	275	78.0	(71.7-83.2)
Central Michigan	182	75.5	(67.4-82.1)
Midland	93	84.0	(73.8-90.7)
Region 12	416	78.4	(73.2-82.8)
Luce-Mackinac-Alger-Schoolcraft	70	80.7	(68.2-89.1)
Western Upper Peninsula	82	75.0	(62.0-84.7)
Delta-Menominee	85	77.8	(63.7-87.5)
Chippewa	45	66.5	(49.4-80.2)
Dickinson-Iron	51	74.6	(58.6-86.0)
Marquette	-- ^c	-- ^c	-- ^c

^a 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.
^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the regional estimates.
^c Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

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Table 16: Oral Health Michigan BRFSS, 2020 and 2022 Combined						
Geographic Area	No Dental Visit in Past Year^a			6+ Teeth Missing^b		
	N	%	95% Confidence Interval	N	%	95% Confidence Interval
Michigan Total	17,165	30.7	(29.8-31.7)	16,969	14.2	(13.5-14.9)
Region 1	7,613	28.8	(27.4-30.2)	7,494	12.3	(11.4-13.3)
Livingston	506	20.7	(16.6-25.4)	505	9.8	(7.2-13.2)
Macomb	974	28.5	(25.0-32.3)	956	12.7	(10.4-15.4)
Monroe	326	23.2	(17.5-29.9)	320	15.5	(11.2-21.1)
Oakland	1,849	24.4	(21.9-27.0)	1,818	8.5	(7.1-10.0)
St. Clair	195	23.4	(16.8-31.5)	190	16.5	(11.6-23.0)
Washtenaw	1,337	26.7	(22.9-30.8)	1,318	8.0	(6.2-10.4)
City of Detroit	705	43.1	(38.6-47.8)	699	22.0	(18.6-25.8)
Wayne exc. Detroit	1,634	29.1	(26.3-32.0)	1,604	11.8	(10.0-13.9)
Region 2	843	33.7	(29.8-37.8)	836	16.8	(14.1-20.0)
Genesee	564	35.0	(30.2-40.2)	562	16.1	(12.9-19.9)
Lapeer	131	24.6	(16.8-34.5)	128	16.7	(10.5-25.6)
Shiawassee	116	34.3	(24.9-45.1)	115	19.9	(12.6-29.8)
Region 3	747	35.0	(30.8-39.5)	739	18.1	(15.0-21.8)
Jackson	421	32.8	(27.4-38.7)	414	18.5	(14.5-23.4)
Lenawee	256	35.9	(28.7-43.7)	255	21.5	(15.4-29.2)
Region 4	1,106	27.9	(24.6-31.4)	1,107	12.8	(10.5-15.6)
Barry-Eaton	303	24.5	(19.1-31.0)	304	15.1	(10.5-21.2)
Mid-Michigan ^c	356	27.5	(21.9-33.8)	352	15.3	(11.3-20.5)
Ingham	490	29.6	(24.5-35.3)	490	9.1	(6.4-12.8)
Region 5	946	32.7	(28.9-36.8)	943	17.7	(14.7-21.2)
Branch-Hillsdale-St. Joseph	261	34.4	(27.1-42.4)	258	26.6	(20.0-34.3)
Calhoun	214	39.6	(31.1-48.7)	214	21.6	(15.1-30.0)
Kalamazoo	399	26.5	(21.4-32.3)	400	10.7	(7.3-15.3)
Region 6	480	35.1	(29.7-40.9)	473	15.5	(12.3-19.4)
Van Buren-Cass	177	34.7	(25.5-45.3)	176	19.6	(14.0-26.8)
Berrien	246	34.5	(27.5-42.3)	241	12.5	(8.7-17.7)

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Table 16 Cont'd						
Geographic Area	No Dental Visit in Past Year^a			6+ Teeth Missing^b		
	N	%	95% Confidence Interval	N	%	95% Confidence Interval
Michigan Total	17,165	30.7	(29.8-31.7)	16,969	14.2	(13.5-14.9)
Region 7	1,717	28.1	(25.3-31.1)	1,697	10.5	(8.8-12.4)
Allegan	194	27.2	(18.9-37.5)	191	17.2	(10.4-27.1)
Ionia	93	23.3	(15.0-34.4)	90	14.5	(8.6-23.4)
Kent	864	30.3	(26.4-34.6)	862	9.0	(7.0-11.5)
Mid-Michigan ^c	356	27.5	(21.9-33.8)	352	15.3	(11.3-20.5)
Ottawa	372	22.5	(17.1-28.9)	365	7.5	(4.9-11.3)
Region 8	885	36.0	(31.5-40.7)	873	18.5	(14.4-23.5)
District #10	422	34.9	(27.9-42.7)	414	22.6	(16.1-30.8)
Muskegon	225	32.8	(24.9-41.7)	221	27.5	(17.8-39.9)
Region 9	681	29.7	(25.3-34.5)	673	18.4	(14.9-22.5)
District #2	125	42.5	(31.8-53.8)	126	38.7	(28.3-50.2)
District #4	128	34.8	(25.7-45.3)	125	19.6	(12.8-28.8)
Northwest Michigan	174	26.1	(17.0-37.8)	173	11.5	(6.8-18.9)
Benzie-Leelanau	81	23.0	(13.7-36.1)	-- ^d	-- ^d	-- ^d
Grand Traverse	173	21.0	(14.5-29.5)	170	8.2	(4.8-13.5)
Region 10	639	33.9	(29.0-39.3)	636	16.5	(13.3-20.3)
Bay	171	26.9	(18.7-37.0)	171	11.6	(6.8-19.1)
Huron	52	28.5	(15.5-46.3)	50	25.1	(14.2-40.5)
Saginaw	269	36.3	(28.4-45.0)	268	14.7	(10.3-20.5)
Sanilac	64	29.0	(17.1-44.5)	63	21.8	(12.0-36.2)
Tuscola	83	45.6	(32.0-60.0)	84	22.4	(13.0-35.9)
Region 11	427	39.1	(32.3-46.4)	421	18.0	(13.8-23.1)
Central Michigan	273	44.5	(36.0-53.4)	268	21.7	(15.9-28.9)
Midland	154	28.5	(20.0-39.0)	153	10.7	(6.5-17.1)
Region 12	615	33.4	(28.3-39.0)	610	24.1	(19.5-29.4)
Luce-Mackinac-Alger-Schoolcraft	95	25.8	(15.2-40.4)	94	16.6	(9.6-27.3)
Western Upper Peninsula	132	31.6	(21.9-43.2)	130	24.2	(16.3-34.4)
Delta-Menominee	121	37.5	(27.4-48.7)	117	28.4	(18.9-40.4)
Chippewa	67	49.4	(31.2-67.8)	-- ^d	-- ^d	-- ^d
Dickinson-Iron	75	35.8	(23.5-50.3)	77	36.9	(24.4-51.4)
Marquette	125	27.7	(19.0-38.6)	-- ^d	-- ^d	-- ^d

^a The proportion of adults who reported that they had not visited a dentist or dental clinic for any reason in the past year
^b The proportion of adult s who reported that they were missing 6+ teeth due to tooth decay or gum disease. This excludes teeth lost for other reasons, such as injury or orthodontics.
^c The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the regional estimates.
^d Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

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Table 17: Immunizations Among Adults Aged 65 Years and Older Michigan BRFSS, 2020-2022 Combined						
Geographic Area	Had Flu Vaccine in Past Year ^a			Ever Had Pneumonia Vaccine ^b		
	N	%	95% Confidence Interval	N	%	95% Confidence Interval
Michigan Total	9,191	72.0	(70.8-73.2)	8,885	72.8	(71.5-74.0)
Region 1	4,044	73.2	(71.3-75.1)	3,898	72.1	(70.1-74.0)
Livingston	309	73.3	(66.7-79.0)	295	72.1	(65.6-77.8)
Macomb	547	72.9	(67.9-77.3)	534	74.3	(69.5-78.6)
Monroe	187	64.9	(55.6-73.3)	183	62.7	(53.2-71.4)
Oakland	1,016	76.2	(72.7-79.4)	982	73.7	(70.0-77.1)
St. Clair	120	71.6	(61.1-80.2)	118	76.3	(65.8-84.3)
Washtenaw	748	80.3	(76.3-83.8)	718	75.6	(70.9-79.7)
City of Detroit	281	63.6	(56.0-70.6)	274	60.6	(52.8-67.8)
Wayne exc. Detroit	806	73.9	(69.7-77.8)	765	73.1	(68.7-77.1)
Region 2	422	65.5	(59.8-70.8)	410	67.9	(62.1-73.2)
Genesee	274	69.2	(62.2-75.4)	265	68.8	(61.5-75.2)
Lapeer	72	52.1	(38.7-65.3)	71	56.2	(42.3-69.1)
Shiawassee	63	66.3	(50.4-79.2)	61	79.8	(66.0-88.9)
Region 3	418	67.7	(62.0-72.9)	404	76.0	(70.5-80.7)
Jackson	229	65.9	(57.7-73.3)	222	73.2	(65.1-80.0)
Lenawee	167	69.5	(60.9-76.9)	162	79.2	(71.5-85.2)
Region 4	586	73.0	(68.3-77.2)	579	75.7	(71.2-79.7)
Barry-Eaton	191	72.2	(63.9-79.2)	189	77.8	(70.1-83.9)
Mid-Michigan ^c	191	68.8	(60.3-76.2)	187	67.5	(58.8-75.1)
Ingham	247	76.6	(69.3-82.6)	244	77.5	(70.0-83.6)
Region 5	539	76.6	(71.9-80.6)	512	73.5	(68.5-78.0)
Branch-Hillsdale-St. Joseph	180	74.1	(66.2-80.8)	175	75.8	(67.9-82.2)
Calhoun	121	75.1	(64.7-83.3)	116	67.2	(55.6-77.0)
Kalamazoo	212	81.6	(73.8-87.5)	197	77.1	(68.6-83.9)
Region 6	294	74.2	(67.8-79.6)	283	74.8	(68.3-80.4)
Van Buren-Cass	126	76.6	(67.3-83.9)	122	71.5	(61.1-80.1)
Berrien	159	73.4	(64.2-80.9)	153	77.4	(68.6-84.3)

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Table 17 Cont'd						
Geographic Area	Had Flu Vaccine in Past Year ^a			Ever Had Pneumonia Vaccine ^b		
	N	%	95% Confidence Interval	N	%	95% Confidence Interval
Michigan Total	9,191	72.0	(70.8-73.2)	8,885	72.8	(71.5-74.0)
Region 7	857	75.9	(72.2-79.2)	834	75.8	(72.0-79.2)
Allegan	101	76.9	(66.6-84.7)	94	80.7	(69.8-88.3)
Ionia	53	78.1	(64.9-87.4)	52	68.4	(53.4-80.4)
Kent	434	76.3	(70.9-81.0)	427	76.6	(71.1-81.3)
Mid-Michigan ^c	191	68.8	(60.3-76.2)	187	67.5	(58.8-75.1)
Ottawa	189	78.4	(70.6-84.6)	183	80.6	(72.8-86.6)
Region 8	440	69.2	(62.9-74.9)	430	71.9	(65.4-77.5)
District #10	263	68.4	(60.3-75.5)	256	68.7	(59.5-76.6)
Muskegon	131	77.6	(68.3-84.8)	128	76.9	(67.5-84.2)
Region 9	430	74.7	(69.3-79.5)	415	74.6	(68.7-79.7)
District #2	83	64.3	(50.8-75.8)	82	78.2	(65.6-87.1)
District #4	78	73.6	(61.5-82.9)	75	72.8	(60.8-82.2)
Northwest Michigan	123	81.0	(72.7-87.3)	119	68.5	(55.5-79.1)
Benzie-Leelanau	-- ^d	-- ^d	-- ^d	-- ^d	-- ^d	-- ^d
Grand Traverse	89	78.1	(66.5-86.5)	87	75.5	(61.6-85.5)
Region 10	386	63.6	(56.5-70.1)	369	68.1	(60.9-74.6)
Bay	102	75.5	(64.2-84.2)	101	83.2	(73.7-89.7)
Huron	-- ^d	-- ^d	-- ^d	28	55.6	(35.4-74.1)
Saginaw	164	62.6	(50.4-73.4)	154	64.9	(51.9-76.0)
Sanilac	39	35.7	(21.5-53.1)	37	53.5	(35.2-70.8)
Tuscola	50	62.8	(44.2-78.3)	49	72.8	(56.3-84.7)
Region 11	256	68.1	(59.0-75.9)	248	74.2	(66.3-80.8)
Central Michigan	175	68.3	(56.9-77.9)	170	74.7	(65.0-82.4)
Midland	81	67.3	(53.7-78.5)	78	72.7	(58.8-83.3)
Region 12	349	72.3	(65.8-78.1)	342	76.9	(70.3-82.5)
Luce-Mackinac-Alger-Schoolcraft	57	68.9	(53.2-81.2)	54	77.0	(60.8-87.8)
Western Upper Peninsula	77	72.4	(56.7-84.1)	76	75.7	(59.8-86.7)
Delta-Menominee	74	77.8	(65.2-86.7)	73	79.9	(67.9-88.2)
Chippewa	-- ^d	-- ^d	-- ^d	-- ^d	-- ^d	-- ^d
Dickinson-Iron	-- ^d	-- ^d	-- ^d	-- ^d	-- ^d	-- ^d
Marquette	68	69.3	(53.2-81.8)	65	68.1	(48.7-82.8)

^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.

^b Among adults aged 65 years and older, the proportion who reported that they ever had a pneumococcal vaccine.

^c The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the regional estimates.

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

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Table 18: HIV Testing Among Adults Aged 18-64 Years Michigan BRFSS, 2020-2022 Combined			
Geographic Area	Ever Had an HIV Test^a		
	N	%	95% Confidence Interval
Michigan Total	13,785	43.5	(42.5-44.6)
Region 1	6,192	46.8	(45.2-48.4)
Livingston	386	39.7	(33.8-45.9)
Macomb	813	43.1	(39.1-47.2)
Monroe	256	43.6	(36.3-51.1)
Oakland	1,438	43.7	(40.7-46.8)
St. Clair	158	39.6	(31.1-48.8)
Washtenaw	1,058	42.2	(38.3-46.2)
City of Detroit	687	67.2	(62.7-71.4)
Wayne exc. Detroit	1,321	44.7	(41.5-48.1)
Region 2	706	39.8	(35.7-44.0)
Genesee	498	41.7	(36.7-46.9)
Lapeer	92	34.0	(24.1-45.5)
Shiawassee	92	35.9	(25.6-47.6)
Region 3	541	44.4	(39.4-49.5)
Jackson	307	47.2	(40.7-53.8)
Lenawee	170	40.5	(31.5-50.1)
Region 4	893	43.2	(39.3-47.2)
Barry-Eaton	219	42.3	(34.5-50.4)
Mid-Michigan ^b	276	45.7	(38.4-53.2)
Ingham	415	43.8	(38.1-49.7)
Region 5	793	47.5	(43.1-51.9)
Branch-Hillsdale-St. Joseph	181	32.9	(25.2-41.6)
Calhoun	201	52.6	(43.9-61.1)
Kalamazoo	352	51.6	(45.0-58.2)
Region 6	366	43.5	(37.5-49.8)
Van Buren-Cass	129	49.8	(39.5-60.2)
Berrien	184	41.6	(33.4-50.4)
Region 7	1,452	40.2	(37.2-43.4)
Allegan	146	50.3	(40.1-60.5)
Ionia	68	41.9	(28.5-56.7)
Kent	736	40.5	(36.4-44.7)
Mid-Michigan ^b	276	45.7	(38.4-53.2)
Ottawa	319	33.4	(27.4-40.1)

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Table 18 Cont'd			
Geographic Area	Ever Had an HIV Test^a		
	N	%	95% Confidence Interval
Michigan Total	13,785	43.5	(42.5-44.6)
Region 8	684	43.0	(38.1-48.1)
District #10	307	38.9	(31.6-46.6)
Muskegon	153	49.6	(37.8-61.4)
Region 9	471	41.0	(35.6-46.6)
District #2	66	36.8	(24.0-51.8)
District #4	104	49.0	(37.8-60.4)
Northwest Michigan	131	37.1	(27.1-48.4)
Benzie-Leelanau	49	42.2	(27.4-58.5)
Grand Traverse	121	39.7	(29.8-50.5)
Region 10	504	39.9	(34.7-45.4)
Bay	129	43.6	(32.9-55.0)
Huron	-- ^c	-- ^c	-- ^c
Saginaw	218	42.0	(33.9-50.4)
Sanilac	53	24.9	(14.7-39.0)
Tuscola	65	47.7	(33.5-62.3)
Region 11	341	32.9	(26.1-40.5)
Central Michigan	208	34.6	(25.6-44.9)
Midland	133	29.8	(20.4-41.2)
Region 12	483	34.9	(29.9-40.3)
Luce-Mackinac-Alger-Schoolcraft	66	33.6	(21.7-48.1)
Western Upper Peninsula	105	23.0	(15.4-32.7)
Delta-Menominee	84	49.5	(37.5-61.6)
Chippewa	61	35.5	(21.1-53.2)
Dickinson-Iron	59	42.8	(29.1-57.8)
Marquette	108	33.9	(23.6-46.0)

Note: "Don't know" was considered a valid response.

^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.

^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the regional estimates.

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

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Table 19: Asthma						
Michigan BRFSS, 2020-2022 Combined						
Geographic Area	Ever Told Have Asthma^a			Still Have Asthma^b		
	N	%	95% Confidence Interval	N	%	95% Confidence Interval
Michigan Total	26,656	16.2	(15.6-16.8)	26,533	11.5	(11.0-12.0)
Region 1	11,809	17.1	(16.2-18.1)	11,750	11.9	(11.1-12.7)
Livingston	783	13.4	(10.4-17.2)	780	8.8	(6.3-12.1)
Macomb	1,567	16.9	(14.7-19.5)	1,558	11.4	(9.6-13.5)
Monroe	519	19.8	(14.9-25.7)	517	13.0	(9.5-17.7)
Oakland	2,844	15.5	(13.9-17.3)	2,828	10.1	(8.8-11.7)
St. Clair	314	19.5	(14.4-25.8)	307	13.2	(9.1-18.7)
Washtenaw	2,023	16.6	(14.3-19.2)	2,016	12.8	(10.7-15.2)
City of Detroit	1,155	20.0	(17.3-22.9)	1,153	14.7	(12.4-17.3)
Wayne exc. Detroit	2,479	17.2	(15.3-19.3)	2,466	12.2	(10.6-14.1)
Region 2	1,300	17.2	(14.9-19.8)	1,295	12.4	(10.4-14.7)
Genesee	892	17.7	(14.8-20.9)	889	12.9	(10.5-15.8)
Lapeer	187	14.0	(9.4-20.5)	187	8.3	(5.3-12.7)
Shiawassee	172	14.8	(9.8-21.8)	170	12.9	(8.2-19.7)
Region 3	1,116	17.5	(14.7-20.8)	1,112	14.0	(11.4-17.0)
Jackson	626	16.2	(12.9-20.2)	623	12.7	(9.7-16.4)
Lenawee	387	20.6	(15.2-27.3)	386	16.9	(11.8-23.6)
Region 4	1,663	18.0	(15.8-20.5)	1,653	13.1	(11.1-15.3)
Barry-Eaton	463	16.7	(12.8-21.4)	462	12.9	(9.5-17.2)
Mid-Michigan ^c	536	17.9	(13.9-22.7)	532	14.4	(10.6-19.1)
Ingham	742	19.0	(15.6-23.0)	735	13.2	(10.3-16.7)
Region 5	1,508	16.6	(14.3-19.1)	1,506	12.5	(10.4-14.8)
Branch-Hillsdale-St. Joseph	414	18.8	(14.3-24.1)	414	14.2	(10.3-19.1)
Calhoun	362	19.5	(14.5-25.8)	361	13.8	(9.3-19.8)
Kalamazoo	637	14.2	(11.2-17.9)	636	11.2	(8.6-14.5)
Region 6	765	13.4	(10.4-17.3)	761	10.4	(7.6-14.1)
Van Buren-Cass	294	16.6	(10.8-24.6)	292	15.1	(9.5-23.3)
Berrien	394	11.1	(8.1-15.0)	392	7.6	(5.2-10.9)
Region 7	2,687	15.4	(13.6-17.4)	2,672	10.1	(8.7-11.8)
Allegan	292	21.6	(15.1-29.8)	290	14.5	(9.2-22.3)
Ionia	144	15.5	(9.1-25.2)	143	9.8	(5.5-17.0)
Kent	1,342	14.4	(12.0-17.1)	1,339	9.9	(8.0-12.2)
Mid-Michigan ^c	536	17.9	(13.9-22.7)	532	14.4	(10.6-19.1)
Ottawa	603	14.1	(10.6-18.5)	596	6.9	(4.9-9.5)

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Table 19 Cont'd						
Geographic Area	Ever Told Have Asthma^a			Still Have Asthma^b		
	N	%	95% Confidence Interval	N	%	95% Confidence Interval
Michigan Total	26,656	16.2	(15.6-16.8)	26,533	11.5	(11.0-12.0)
Region 8	1,334	13.7	(11.0-16.9)	1,331	9.4	(7.1-12.3)
District #10	661	13.6	(9.4-19.3)	661	10.8	(6.9-16.5)
Muskegon	331	14.3	(9.9-20.2)	328	9.8	(6.6-14.3)
Region 9	1,020	15.1	(12.5-18.2)	1,015	10.8	(8.6-13.5)
District #2	170	16.3	(10.4-24.5)	168	12.5	(7.5-20.3)
District #4	210	14.0	(9.2-20.8)	210	9.3	(5.5-15.1)
Northwest Michigan	283	15.8	(10.9-22.4)	283	11.1	(7.1-16.9)
Benzie-Leelanau	117	20.7	(12.2-32.8)	115	16.3	(8.9-28.0)
Grand Traverse	240	12.3	(8.1-18.2)	239	8.2	(4.9-13.5)
Region 10	1,004	13.1	(10.2-16.6)	999	9.5	(7.0-12.8)
Bay	272	16.5	(9.9-26.2)	271	12.8	(6.9-22.5)
Huron	77	25.8	(15.9-38.8)	76	16.5	(9.2-28.0)
Saginaw	429	10.0	(6.6-14.9)	427	7.8	(4.7-12.8)
Sanilac	-- ^d	-- ^d	-- ^d	-- ^d	-- ^d	-- ^d
Tuscola	-- ^d	-- ^d	-- ^d	-- ^d	-- ^d	-- ^d
Region 11	676	14.2	(11.3-17.6)	675	11.8	(9.2-14.9)
Central Michigan	437	13.9	(10.5-18.2)	436	12.0	(8.9-16.1)
Midland	239	14.7	(10.0-20.9)	239	11.2	(7.3-16.8)
Region 12	942	16.6	(13.8-19.9)	935	11.6	(9.4-14.4)
Luce-Mackinac-Alger-Schoolcraft	135	11.2	(6.5-18.8)	-- ^d	-- ^d	-- ^d
Western Upper Peninsula	213	13.9	(8.5-21.9)	212	9.7	(5.5-16.8)
Delta-Menominee	185	21.1	(14.7-29.4)	183	15.3	(9.9-22.8)
Chippewa	-- ^d	-- ^d	-- ^d	-- ^d	-- ^d	-- ^d
Dickinson-Iron	112	19.9	(11.7-31.8)	110	13.2	(7.1-23.1)
Marquette	193	21.2	(14.5-29.9)	192	13.7	(8.2-21.9)

^a The proportion of adults who reported that they were ever told by a doctor, nurse, or other health care professional that they had asthma.
^b Among all adults, the proportion who reported that they still had asthma.
^c The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the regional estimates.
^d Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Table 20: Chronic Obstructive Pulmonary Disease (COPD) Michigan BRFSS, 2020-2022 Combined			
Geographic Area	Ever Told COPD, Emphysema or Chronic Bronchitis^a		
	N	%	95% Confidence Interval
Michigan Total	26,623	8.3	(7.9-8.8)
Region 1	11,798	8.0	(7.4-8.6)
Livingston	778	5.6	(4.1-7.7)
Macomb	1,566	9.2	(7.6-11.1)
Monroe	519	9.1	(6.6-12.3)
Oakland	2,840	5.7	(4.8-6.7)
St. Clair	315	10.9	(7.5-15.6)
Washtenaw	2,025	4.8	(3.6-6.4)
City of Detroit	1,152	11.9	(9.9-14.3)
Wayne exc. Detroit	2,478	8.3	(7.1-9.7)
Region 2	1,299	10.5	(8.8-12.6)
Genesee	890	10.4	(8.3-12.9)
Lapeer	187	12.0	(7.4-18.7)
Shiawassee	173	10.1	(6.5-15.5)
Region 3	1,113	10.6	(8.6-12.9)
Jackson	625	10.8	(8.3-14.1)
Lenawee	386	12.7	(9.1-17.6)
Region 4	1,667	8.2	(6.7-9.9)
Barry-Eaton	464	8.6	(5.8-12.4)
Mid-Michigan ^b	533	11.4	(8.4-15.3)
Ingham	745	7.3	(5.3-10.0)
Region 5	1,502	8.9	(7.3-11.0)
Branch-Hillsdale-St. Joseph	414	11.0	(7.7-15.5)
Calhoun	360	12.1	(8.2-17.4)
Kalamazoo	634	5.6	(3.9-8.0)
Region 6	763	8.1	(6.1-10.7)
Van Buren-Cass	293	10.7	(6.9-16.2)
Berrien	393	7.6	(5.4-10.7)
Region 7	2,685	6.4	(5.3-7.7)
Allegan	-- ^c	-- ^c	-- ^c
Ionia	144	6.0	(3.4-10.4)
Kent	1,341	5.4	(4.2-6.9)
Mid-Michigan ^b	533	11.4	(8.4-15.3)
Ottawa	602	5.7	(3.9-8.2)

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Table 20 Cont'd			
Geographic Area	Ever Told COPD, Emphysema or Chronic Bronchitis^a		
	N	%	95% Confidence Interval
Michigan Total	26,623	8.3	(7.9-8.8)
Region 8	1,332	8.4	(6.8-10.4)
District #10	658	9.3	(6.9-12.5)
Muskegon	332	7.3	(4.6-11.3)
Region 9	1,015	9.0	(6.9-11.6)
District #2	168	22.9	(15.1-33.2)
District #4	209	6.4	(3.7-10.6)
Northwest Michigan	284	6.0	(3.6-9.8)
Benzie-Leelanau	-- ^c	-- ^c	-- ^c
Grand Traverse	239	5.2	(3.0-8.9)
Region 10	1,004	10.2	(7.9-13.0)
Bay	273	10.3	(6.0-17.3)
Huron	76	14.1	(7.6-24.6)
Saginaw	431	10.0	(6.5-15.1)
Sanilac	101	10.6	(5.9-18.2)
Tuscola	123	8.0	(4.5-13.9)
Region 11	678	11.7	(9.0-15.1)
Central Michigan	437	12.8	(9.3-17.4)
Midland	241	9.3	(6.2-13.9)
Region 12	940	9.4	(7.2-12.2)
Luce-Mackinac-Alger-Schoolcraft	-- ^c	-- ^c	-- ^c
Western Upper Peninsula	-- ^c	-- ^c	-- ^c
Delta-Menominee	185	16.9	(10.7-25.5)
Chippewa	-- ^c	-- ^c	-- ^c
Dickinson-Iron	-- ^c	-- ^c	-- ^c
Marquette	-- ^c	-- ^c	-- ^c

^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.

^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the regional estimates.

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

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Table 21: Arthritis Michigan BRFSS, 2020-2022 Combined			
Geographic Area	Ever Told Arthritis^a		
	N	%	95% Confidence Interval
Michigan Total	26,593	30.0	(29.3-30.7)
Region 1	11,779	28.9	(27.9-29.9)
Livingston	782	29.8	(25.9-33.9)
Macomb	1,563	29.6	(27.0-32.3)
Monroe	520	31.8	(26.6-37.4)
Oakland	2,836	26.6	(24.7-28.5)
St. Clair	314	34.3	(28.6-40.6)
Washtenaw	2,016	23.2	(21.0-25.6)
City of Detroit	1,152	30.5	(27.5-33.7)
Wayne exc. Detroit	2,473	31.0	(28.8-33.3)
Region 2	1,298	35.3	(32.4-38.3)
Genesee	890	36.4	(32.8-40.1)
Lapeer	188	35.0	(27.6-43.2)
Shiawassee	171	31.1	(24.0-39.2)
Region 3	1,116	32.2	(29.0-35.6)
Jackson	624	33.3	(29.0-37.9)
Lenawee	389	35.4	(29.6-41.7)
Region 4	1,668	29.6	(27.1-32.3)
Barry-Eaton	463	33.0	(28.1-38.4)
Mid-Michigan ^b	536	32.4	(27.9-37.4)
Ingham	745	26.2	(22.7-30.1)
Region 5	1,501	33.4	(30.4-36.4)
Branch-Hillsdale-St. Joseph	414	40.9	(35.0-47.0)
Calhoun	357	33.2	(27.3-39.7)
Kalamazoo	636	30.0	(25.8-34.4)
Region 6	758	32.6	(28.5-37.0)
Van Buren-Cass	291	34.3	(27.2-42.1)
Berrien	392	33.2	(27.9-38.9)
Region 7	2,681	26.2	(24.3-28.2)
Allegan	291	31.2	(25.0-38.1)
Ionia	144	40.4	(31.0-50.6)
Kent	1,339	24.9	(22.4-27.7)
Mid-Michigan ^b	536	32.4	(27.9-37.4)
Ottawa	600	24.1	(20.3-28.2)

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Table 21 Cont'd			
Geographic Area	Ever Told Arthritis^a		
	N	%	95% Confidence Interval
Michigan Total	26,593	30.0	(29.3-30.7)
Region 8	1,329	27.4	(24.5-30.5)
District #10	657	30.5	(25.9-35.5)
Muskegon	330	38.8	(32.5-45.6)
Region 9	1,019	36.3	(32.8-39.9)
District #2	170	47.2	(38.2-56.4)
District #4	209	40.1	(32.4-48.4)
Northwest Michigan	284	31.5	(25.4-38.5)
Benzie-Leelanau	117	39.5	(28.9-51.3)
Grand Traverse	239	27.9	(21.7-35.1)
Region 10	1,001	36.6	(32.9-40.5)
Bay	269	34.2	(27.3-41.8)
Huron	76	48.0	(35.5-60.8)
Saginaw	430	38.6	(32.6-45.0)
Sanilac	101	21.5	(14.7-30.5)
Tuscola	125	40.7	(30.6-51.7)
Region 11	677	33.1	(28.6-37.9)
Central Michigan	436	35.1	(29.4-41.2)
Midland	241	28.9	(22.3-36.4)
Region 12	940	35.7	(32.0-39.7)
Luce-Mackinac-Alger-Schoolcraft	134	30.9	(22.4-40.9)
Western Upper Peninsula	212	35.8	(28.4-43.9)
Delta-Menominee	186	39.5	(31.4-48.3)
Chippewa	104	38.0	(24.5-53.8)
Dickinson-Iron	111	37.8	(27.5-49.3)
Marquette	193	33.5	(26.2-41.8)

^a Among all adults, the proportion who reported ever being told by a health care professional that they had some form of arthritis, rheumatoid arthritis, gout, lupus, or fibromyalgia.

^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the regional estimates

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Table 22: Heart Attack Michigan BRFS, 2020-2022 Combined			
Geographic Area	Ever Told Heart Attack^a		
	N	%	95% Confidence Interval
Michigan Total	26,567	4.8	(4.5-5.2)
Region 1	11,770	4.5	(4.1-5.0)
Livingston	779	5.0	(3.5-7.3)
Macomb	1,562	4.5	(3.3-6.0)
Monroe	518	4.1	(2.7-6.1)
Oakland	2,828	3.5	(2.8-4.3)
St. Clair	314	5.4	(3.3-8.7)
Washtenaw	2,021	3.0	(2.3-4.0)
City of Detroit	1,149	5.9	(4.5-7.9)
Wayne exc. Detroit	2,474	5.5	(4.5-6.6)
Region 2	1,298	4.8	(3.7-6.2)
Genesee	892	5.1	(3.8-6.9)
Lapeer	-- ^c	-- ^c	-- ^c
Shiawassee	-- ^c	-- ^c	-- ^c
Region 3	1,109	5.8	(4.4-7.7)
Jackson	624	7.1	(5.0-9.8)
Lenawee	382	4.8	(2.7-8.5)
Region 4	1,666	4.7	(3.6-6.2)
Barry-Eaton	464	3.6	(2.2-5.8)
Mid-Michigan ^b	534	3.2	(2.0-5.1)
Ingham	743	6.2	(4.2-9.2)
Region 5	1,499	5.4	(4.2-7.1)
Branch-Hillsdale-St. Joseph	414	7.6	(5.2-11.1)
Calhoun	359	7.9	(4.7-12.8)
Kalamazoo	631	2.7	(1.6-4.5)
Region 6	765	5.3	(3.8-7.4)
Van Buren-Cass	294	6.6	(4.0-10.6)
Berrien	395	3.8	(2.3-6.2)
Region 7	2,677	4.1	(3.2-5.2)
Allegan	289	11.0	(6.1-18.9)
Ionia	-- ^c	-- ^c	-- ^c
Kent	1,338	3.2	(2.4-4.4)
Mid-Michigan ^b	534	3.2	(2.0-5.1)
Ottawa	600	3.1	(1.9-4.8)

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Table 22 Cont'd			
Geographic Area	Ever Told Heart Attack^a		
	N	%	95% Confidence Interval
Michigan Total	26,567	4.8	(4.5-5.2)
Region 8	1,330	3.7	(2.6-5.2)
District #10	658	3.7	(2.4-5.6)
Muskegon	-- ^c	-- ^c	-- ^c
Region 9	1,020	6.5	(4.8-8.7)
District #2	-- ^c	-- ^c	-- ^c
District #4	210	7.8	(4.4-13.3)
Northwest Michigan	-- ^c	-- ^c	-- ^c
Benzie-Leelanau	-- ^c	-- ^c	-- ^c
Grand Traverse	-- ^c	-- ^c	-- ^c
Region 10	1,000	6.8	(4.9-9.3)
Bay	269	8.2	(4.7-14.1)
Huron	-- ^c	-- ^c	-- ^c
Saginaw	430	7.8	(4.6-12.9)
Sanilac	-- ^c	-- ^c	-- ^c
Tuscola	-- ^c	-- ^c	-- ^c
Region 11	677	6.5	(4.5-9.4)
Central Michigan	438	7.5	(4.8-11.5)
Midland	-- ^c	-- ^c	-- ^c
Region 12	932	6.1	(4.6-8.1)
Luce-Mackinac-Alger-Schoolcraft	-- ^c	-- ^c	-- ^c
Western Upper Peninsula	-- ^c	-- ^c	-- ^c
Delta-Menominee	-- ^c	-- ^c	-- ^c
Chippewa	-- ^c	-- ^c	-- ^c
Dickinson-Iron	-- ^c	-- ^c	-- ^c
Marquette	-- ^c	-- ^c	-- ^c

^a Among all adults, the proportion who had ever been told by a doctor that they had a heart attack or myocardial infarction.
^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the regional estimates.
^c Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Table 23: Angina or Coronary Heart Disease Michigan BRFS, 2020-2022 Combined			
Geographic Area	Ever Told Angina or Coronary Heart Disease^a		
	N	%	95% Confidence Interval
Michigan Total	26,519	4.6	(4.3-4.9)
Region 1	11,756	4.7	(4.3-5.2)
Livingston	779	5.3	(3.7-7.5)
Macomb	1,557	5.1	(4.0-6.5)
Monroe	515	3.8	(2.5-5.7)
Oakland	2,834	4.6	(3.8-5.5)
St. Clair	312	6.7	(4.3-10.4)
Washtenaw	2,019	3.7	(2.8-4.8)
City of Detroit	1,144	4.2	(3.1-5.7)
Wayne exc. Detroit	2,472	5.2	(4.1-6.5)
Region 2	1,292	4.8	(3.7-6.1)
Genesee	884	4.4	(3.2-6.1)
Lapeer	187	7.1	(4.1-11.9)
Shiawassee	-- ^c	-- ^c	-- ^c
Region 3	1,109	6.3	(4.8-8.1)
Jackson	619	6.1	(4.2-8.7)
Lenawee	386	8.5	(5.5-12.9)
Region 4	1,660	4.1	(3.2-5.3)
Barry-Eaton	461	4.3	(2.8-6.5)
Mid-Michigan ^b	533	3.9	(2.5-5.8)
Ingham	742	3.8	(2.5-5.6)
Region 5	1,495	5.0	(3.9-6.4)
Branch-Hillsdale-St. Joseph	408	6.2	(4.1-9.4)
Calhoun	359	4.4	(2.6-7.4)
Kalamazoo	633	4.6	(3.0-7.0)
Region 6	762	4.2	(2.9-5.9)
Van Buren-Cass	293	4.9	(2.8-8.5)
Berrien	392	3.8	(2.4-6.1)
Region 7	2,667	3.9	(3.1-4.9)
Allegan	-- ^c	-- ^c	-- ^c
Ionia	-- ^c	-- ^c	-- ^c
Kent	1,334	3.6	(2.7-4.7)
Mid-Michigan ^b	533	3.9	(2.5-5.8)
Ottawa	597	3.6	(2.4-5.2)

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Table 23 Cont'd			
Geographic Area	Ever Told Angina or Coronary Heart Disease^a		
	N	%	95% Confidence Interval
Michigan Total	26,519	4.6	(4.3-4.9)
Region 8	1,329	3.4	(2.5-4.7)
District #10	656	3.4	(2.2-5.2)
Muskegon	-- ^c	-- ^c	-- ^c
Region 9	1,014	5.4	(4.0-7.3)
District #2	-- ^c	-- ^c	-- ^c
District #4	209	7.7	(4.3-13.4)
Northwest Michigan	-- ^c	-- ^c	-- ^c
Benzie-Leelanau	-- ^c	-- ^c	-- ^c
Grand Traverse	-- ^c	-- ^c	-- ^c
Region 10	1,001	4.6	(3.5-6.0)
Bay	272	5.5	(3.3-8.9)
Huron	-- ^c	-- ^c	-- ^c
Saginaw	431	3.7	(2.3-6.0)
Sanilac	-- ^c	-- ^c	-- ^c
Tuscola	-- ^c	-- ^c	-- ^c
Region 11	676	6.0	(4.0-8.9)
Central Michigan	436	7.5	(4.7-11.7)
Midland	-- ^c	-- ^c	-- ^c
Region 12	932	6.6	(4.6-9.6)
Luce-Mackinac-Alger-Schoolcraft	-- ^c	-- ^c	-- ^c
Western Upper Peninsula	212	5.9	(3.5-9.7)
Delta-Menominee	-- ^c	-- ^c	-- ^c
Chippewa	-- ^c	-- ^c	-- ^c
Dickinson-Iron	-- ^c	-- ^c	-- ^c
Marquette	-- ^c	-- ^c	-- ^c

^a Among all adults, the proportion who had ever been told by a doctor that they had angina or coronary heart disease.
^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the regional estimates.
^c Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

Table 24: Stroke Michigan BRFSS, 2020-2022 Combined			
Geographic Area	Ever Told Stroke^a		
	N	%	95% Confidence Interval
Michigan Total	26,671	3.6	(3.3-3.8)
Region 1	11,814	3.5	(3.2-4.0)
Livingston	781	2.9	(1.8-4.6)
Macomb	1,570	2.5	(1.8-3.5)
Monroe	518	4.2	(2.4-7.3)
Oakland	2,844	2.9	(2.3-3.6)
St. Clair	315	5.5	(3.3-8.9)
Washtenaw	2,024	2.2	(1.5-3.0)
City of Detroit	1,153	5.6	(4.2-7.3)
Wayne exc. Detroit	2,484	4.3	(3.4-5.4)
Region 2	1,302	4.6	(3.5-6.1)
Genesee	893	4.7	(3.4-6.6)
Lapeer	-- ^c	-- ^c	-- ^c
Shiawassee	-- ^c	-- ^c	-- ^c
Region 3	1,118	4.1	(2.9-5.7)
Jackson	625	3.6	(2.2-5.7)
Lenawee	-- ^c	-- ^c	-- ^c
Region 4	1,668	2.8	(2.1-3.7)
Barry-Eaton	463	4.4	(2.9-6.8)
Mid-Michigan ^b	534	3.0	(1.8-4.8)
Ingham	746	2.2	(1.3-3.6)
Region 5	1,505	3.9	(2.9-5.3)
Branch-Hillsdale-St. Joseph	-- ^c	-- ^c	-- ^c
Calhoun	362	5.4	(3.1-9.2)
Kalamazoo	636	3.7	(2.3-5.9)
Region 6	763	3.0	(2.0-4.5)
Van Buren-Cass	292	4.0	(2.3-6.9)
Berrien	394	2.6	(1.4-4.5)
Region 7	2,689	3.2	(2.6-4.1)
Allegan	-- ^c	-- ^c	-- ^c
Ionia	-- ^c	-- ^c	-- ^c
Kent	1,346	3.3	(2.3-4.5)
Mid-Michigan ^b	534	3.0	(1.8-4.8)
Ottawa	603	2.5	(1.6-3.9)

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Table 24 Cont'd			
Geographic Area	Ever Told Stroke^a		
	N	%	95% Confidence Interval
Michigan Total	26,671	3.6	(3.3-3.8)
Region 8	1,335	2.3	(1.6-3.2)
District #10	661	2.1	(1.2-3.4)
Muskegon	332	4.3	(2.5-7.3)
Region 9	1,021	4.7	(3.3-6.5)
District #2	-- ^c	-- ^c	-- ^c
District #4	-- ^c	-- ^c	-- ^c
Northwest Michigan	-- ^c	-- ^c	-- ^c
Benzie-Leelanau	-- ^c	-- ^c	-- ^c
Grand Traverse	-- ^c	-- ^c	-- ^c
Region 10	1,004	3.8	(2.6-5.5)
Bay	-- ^c	-- ^c	-- ^c
Huron	-- ^c	-- ^c	-- ^c
Saginaw	432	4.1	(2.4-7.0)
Sanilac	-- ^c	-- ^c	-- ^c
Tuscola	-- ^c	-- ^c	-- ^c
Region 11	679	3.4	(2.2-5.3)
Central Michigan	438	3.0	(1.7-5.2)
Midland	-- ^c	-- ^c	-- ^c
Region 12	943	3.2	(2.2-4.7)
Luce-Mackinac-Alger-Schoolcraft	-- ^c	-- ^c	-- ^c
Western Upper Peninsula	-- ^c	-- ^c	-- ^c
Delta-Menominee	-- ^c	-- ^c	-- ^c
Chippewa	-- ^c	-- ^c	-- ^c
Dickinson-Iron	-- ^c	-- ^c	-- ^c
Marquette	-- ^c	-- ^c	-- ^c

^a Among all adults, the proportion who had ever been told by a doctor that they had a stroke.
^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the regional estimates.
^c Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

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Table 25: Cardiovascular Disease Michigan BRFS, 2020-2022 Combined			
Geographic Area	Ever Told Any Cardiovascular Disease^a		
	N	%	95% Confidence Interval
Michigan Total	26,459	9.8	(9.4-10.3)
Region 1	11,727	9.7	(9.0-10.4)
Livingston	777	10.4	(8.1-13.3)
Macomb	1,555	9.2	(7.6-11.1)
Monroe	515	9.3	(6.7-12.8)
Oakland	2,826	8.6	(7.4-9.8)
St. Clair	312	13.1	(9.5-17.8)
Washtenaw	2,014	6.5	(5.4-7.9)
City of Detroit	1,138	12.2	(10.1-14.6)
Wayne exc. Detroit	2,466	10.6	(9.1-12.2)
Region 2	1,289	10.6	(8.9-12.6)
Genesee	885	10.7	(8.7-13.1)
Lapeer	184	13.9	(9.3-20.1)
Shiawassee	172	6.9	(3.8-12.0)
Region 3	1,104	12.2	(10.1-14.7)
Jackson	619	12.9	(10.1-16.4)
Lenawee	382	13.9	(9.9-19.0)
Region 4	1,660	9.2	(7.7-11.0)
Barry-Eaton	462	9.6	(7.1-12.8)
Mid-Michigan ^b	530	7.8	(5.8-10.4)
Ingham	742	9.7	(7.2-12.9)
Region 5	1,494	10.8	(9.0-12.9)
Branch-Hillsdale-St. Joseph	410	11.7	(8.6-15.7)
Calhoun	359	13.7	(9.6-19.1)
Kalamazoo	631	9.1	(6.7-12.1)
Region 6	761	9.3	(7.3-11.8)
Van Buren-Cass	293	11.2	(7.8-15.8)
Berrien	392	7.8	(5.5-10.9)
Region 7	2,663	8.2	(7.0-9.5)
Allegan	288	15.3	(9.8-23.0)
Ionia	141	9.7	(5.5-16.7)
Kent	1,333	7.5	(6.1-9.2)
Mid-Michigan ^b	530	7.8	(5.8-10.4)
Ottawa	597	6.5	(4.8-8.7)

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Table 25 Cont'd			
Geographic Area	Ever Told Any Cardiovascular Disease^a		
	N	%	95% Confidence Interval
Michigan Total	26,459	9.8	(9.4-10.3)
Region 8	1,326	7.4	(5.9-9.2)
District #10	655	7.1	(5.3-9.5)
Muskegon	331	9.9	(6.6-14.5)
Region 9	1,016	13.4	(11.0-16.1)
District #2	170	17.5	(11.3-26.3)
District #4	210	16.4	(11.4-23.0)
Northwest Michigan	282	8.2	(5.3-12.7)
Benzie-Leelanau	115	18.6	(10.6-30.4)
Grand Traverse	239	11.1	(7.2-16.8)
Region 10	994	11.2	(8.9-14.0)
Bay	269	11.4	(7.3-17.2)
Huron	75	13.3	(7.2-23.3)
Saginaw	428	11.8	(8.1-17.1)
Sanilac	99	11.8	(7.1-19.0)
Tuscola	-- ^c	-- ^c	-- ^c
Region 11	678	11.7	(9.0-15.1)
Central Michigan	437	12.6	(9.1-17.1)
Midland	241	9.9	(6.4-15.0)
Region 12	929	12.3	(9.7-15.5)
Luce-Mackinac-Alger-Schoolcraft	132	10.4	(6.2-16.8)
Western Upper Peninsula	211	13.1	(8.8-19.1)
Delta-Menominee	182	10.5	(6.1-17.4)
Chippewa	-- ^c	-- ^c	-- ^c
Dickinson-Iron	110	19.1	(11.7-29.6)
Marquette	192	7.7	(4.7-12.4)

^a 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.

^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the regional estimates.

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

Table 26: Cancer Michigan BRFSS, 2020-2022 Combined			
Geographic Area	Ever Told Cancer^a		
	N	%	95% Confidence Interval
Michigan Total	26,609	12.4	(12.0-12.9)
Region 1	11,785	11.7	(11.1-12.4)
Livingston	782	14.7	(12.1-17.7)
Macomb	1,568	11.7	(10.0-13.5)
Monroe	518	15.3	(11.6-19.8)
Oakland	2,832	13.0	(11.7-14.4)
St. Clair	315	15.2	(11.4-20.0)
Washtenaw	2,021	11.3	(9.8-13.0)
City of Detroit	1,148	6.4	(5.1-8.1)
Wayne exc. Detroit	2,479	12.1	(10.7-13.6)
Region 2	1,299	13.6	(11.7-15.8)
Genesee	893	11.8	(9.7-14.2)
Lapeer	187	19.7	(14.2-26.6)
Shiawassee	170	20.8	(14.3-29.2)
Region 3	1,116	14.9	(12.7-17.5)
Jackson	625	15.2	(12.3-18.6)
Lenawee	387	18.2	(13.7-23.7)
Region 4	1,663	12.7	(11.1-14.5)
Barry-Eaton	462	15.7	(12.4-19.6)
Mid-Michigan ^b	529	12.8	(9.9-16.4)
Ingham	746	10.7	(8.6-13.2)
Region 5	1,499	13.8	(11.8-16.0)
Branch-Hillsdale-St. Joseph	410	15.5	(12.0-19.7)
Calhoun	361	15.8	(11.3-21.7)
Kalamazoo	634	11.1	(8.8-14.0)
Region 6	764	14.9	(12.3-17.9)
Van Buren-Cass	294	15.5	(11.4-20.6)
Berrien	394	16.3	(12.6-20.8)
Region 7	2,684	12.2	(10.9-13.7)
Allegan	291	15.7	(10.5-22.9)
Ionia	143	12.9	(8.2-19.9)
Kent	1,342	12.1	(10.5-14.0)
Mid-Michigan ^b	529	12.8	(9.9-16.4)
Ottawa	603	12.0	(9.6-14.8)

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Table 26 Cont'd			
Geographic Area	Ever Told Cancer^a		
	N	%	95% Confidence Interval
Michigan Total	26,609	12.4	(12.0-12.9)
Region 8	1,333	9.4	(8.1-11.0)
District #10	660	11.8	(9.6-14.5)
Muskegon	331	12.0	(8.9-15.9)
Region 9	1,013	16.8	(14.2-19.8)
District #2	167	21.1	(14.0-30.6)
District #4	209	13.7	(9.2-19.9)
Northwest Michigan	282	17.3	(12.8-23.0)
Benzie-Leelanau	116	20.7	(12.7-31.9)
Grand Traverse	239	14.2	(10.1-19.4)
Region 10	1,007	13.1	(11.0-15.5)
Bay	274	14.3	(10.1-19.9)
Huron	76	18.4	(10.6-29.8)
Saginaw	432	14.3	(11.0-18.3)
Sanilac	-- ^c	-- ^c	-- ^c
Tuscola	124	11.9	(7.1-19.0)
Region 11	679	13.9	(11.3-17.0)
Central Michigan	438	16.3	(12.8-20.6)
Midland	241	8.9	(6.0-13.0)
Region 12	940	14.7	(12.1-17.7)
Luce-Mackinac-Alger-Schoolcraft	136	18.8	(12.3-27.6)
Western Upper Peninsula	212	10.3	(6.8-15.4)
Delta-Menominee	185	18.5	(12.8-26.1)
Chippewa	-- ^c	-- ^c	-- ^c
Dickinson-Iron	112	11.5	(7.1-18.1)
Marquette	193	13.4	(8.9-19.9)

^a Among all adults, the proportion who reported ever being told by a doctor that they had skin cancer or any other type of cancer.

^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the regional estimates.

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

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Table 27: Diabetes Michigan BRFSS, 2020-2022 Combined			
Geographic Area	Ever Told Diabetes^a		
	N	%	95% Confidence Interval
Michigan Total	26,694	11.6	(11.1-12.1)
Region 1	11,825	11.7	(11.0-12.5)
Livingston	782	8.1	(6.2-10.6)
Macomb	1,570	11.4	(9.7-13.4)
Monroe	519	14.6	(11.2-18.9)
Oakland	2,848	9.3	(8.1-10.7)
St. Clair	315	13.6	(10.0-18.3)
Washtenaw	2,027	9.3	(7.6-11.3)
City of Detroit	1,151	16.3	(13.9-19.0)
Wayne exc. Detroit	2,488	12.9	(11.3-14.7)
Region 2	1,302	13.3	(11.4-15.5)
Genesee	894	14.4	(12.0-17.2)
Lapeer	187	12.1	(8.0-17.9)
Shiawassee	172	10.2	(6.3-16.0)
Region 3	1,117	13.2	(10.9-15.8)
Jackson	625	14.6	(11.5-18.4)
Lenawee	388	13.3	(9.9-17.6)
Region 4	1,668	10.3	(8.7-12.1)
Barry-Eaton	463	12.8	(9.6-16.7)
Mid-Michigan ^b	536	10.3	(7.7-13.7)
Ingham	745	8.9	(6.9-11.5)
Region 5	1,508	10.2	(8.6-12.1)
Branch-Hillsdale-St. Joseph	415	11.4	(8.6-15.1)
Calhoun	362	11.9	(8.4-16.5)
Kalamazoo	636	8.1	(5.9-11.0)
Region 6	762	13.7	(11.1-16.8)
Van Buren-Cass	291	14.0	(9.7-19.8)
Berrien	394	14.6	(11.1-19.0)
Region 7	2,687	10.3	(9.0-11.8)
Allegan	291	10.4	(7.1-15.0)
Ionia	143	14.0	(8.5-22.1)
Kent	1,344	10.1	(8.3-12.3)
Mid-Michigan ^b	536	10.3	(7.7-13.7)
Ottawa	602	10.3	(7.6-13.8)

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Table 27 Cont'd			
Geographic Area	Ever Told Diabetes^a		
	N	%	95% Confidence Interval
Michigan Total	26,694	11.6	(11.1-12.1)
Region 8	1,338	10.1	(8.3-12.1)
District #10	662	9.8	(7.5-12.8)
Muskegon	332	16.3	(12.2-21.4)
Region 9	1,022	12.9	(10.6-15.8)
District #2	170	25.1	(17.4-34.7)
District #4	210	14.0	(9.4-20.2)
Northwest Michigan	285	8.1	(5.4-12.2)
Benzie-Leelanau	117	16.8	(9.1-28.8)
Grand Traverse	240	6.3	(3.9-10.0)
Region 10	1,010	14.6	(12.1-17.6)
Bay	274	13.4	(9.7-18.3)
Huron	-- ^c	-- ^c	-- ^c
Saginaw	433	15.7	(11.5-21.0)
Sanilac	101	10.1	(5.6-17.3)
Tuscola	125	17.6	(10.4-28.2)
Region 11	680	12.9	(10.0-16.3)
Central Michigan	439	13.4	(9.9-18.0)
Midland	241	11.6	(7.7-17.1)
Region 12	941	11.8	(9.3-14.9)
Luce-Mackinac-Alger-Schoolcraft	136	11.7	(6.7-19.6)
Western Upper Peninsula	212	12.6	(8.2-18.9)
Delta-Menominee	184	11.1	(7.2-16.7)
Chippewa	-- ^c	-- ^c	-- ^c
Dickinson-Iron	-- ^c	-- ^c	-- ^c
Marquette	193	8.7	(5.2-14.1)

^a 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.

^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the regional estimates.

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

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Table 28: Kidney Disease Michigan BRFSS, 2020-2022 Combined			
Geographic Area	Ever Told Kidney Disease ^a		
	N	%	95% Confidence Interval
Michigan Total	26,661	3.6	(3.3-3.9)
Region 1	11,809	3.3	(3.0-3.8)
Livingston	782	2.9	(2.0-4.2)
Macomb	1,565	3.2	(2.3-4.3)
Monroe	520	3.8	(2.1-6.6)
Oakland	2,847	2.7	(2.1-3.5)
St. Clair	312	4.6	(2.5-8.2)
Washtenaw	2,024	3.6	(2.5-5.2)
City of Detroit	1,152	4.1	(3.0-5.5)
Wayne exc. Detroit	2,482	3.5	(2.7-4.5)
Region 2	1,302	4.9	(3.7-6.4)
Genesee	893	4.6	(3.3-6.5)
Lapeer	187	8.2	(4.5-14.4)
Shiawassee	-- ^c	-- ^c	-- ^c
Region 3	1,120	3.6	(2.6-5.0)
Jackson	627	2.8	(2.4-4.9)
Lenawee	389	5.1	(3.2-9.4)
Region 4	1,669	2.9	(2.2-3.9)
Barry-Eaton	-- ^c	-- ^c	-- ^c
Mid-Michigan ^b	536	3.6	(1.1-3.7)
Ingham	744	2.5	(1.8-4.2)
Region 5	1,504	4.5	(3.4-6.0)
Branch-Hillsdale-St. Joseph	414	5.2	(2.9-9.1)
Calhoun	360	5.0	(2.7-8.9)
Kalamazoo	635	4.3	(3.0-6.1)
Region 6	765	4.1	(2.8-5.9)
Van Buren-Cass	294	3.4	(1.9-6.2)
Berrien	394	4.9	(2.9-8.4)
Region 7	2,686	3.7	(2.9-4.8)
Allegan	-- ^c	-- ^c	-- ^c
Ionia	-- ^c	-- ^c	-- ^c
Kent	1,343	3.8	(2.7-5.2)
Mid-Michigan ^b	536	3.6	(1.1-3.7)
Ottawa	-- ^c	-- ^c	-- ^c

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Table 28 Cont'd			
Geographic Area	Ever Told Kidney Disease^a		
	N	%	95% Confidence Interval
Michigan Total	26,661	3.6	(3.3-3.9)
Region 8	1,332	3.5	(2.5-4.9)
District #10	660	3.0	(1.9-4.6)
Muskegon	329	6.5	(3.8-10.8)
Region 9	1,020	4.1	(2.8-5.9)
District #2	-- ^c	-- ^c	-- ^c
District #4	-- ^c	-- ^c	-- ^c
Northwest Michigan	-- ^c	-- ^c	-- ^c
Benzie-Leelanau	-- ^c	-- ^c	-- ^c
Grand Traverse	-- ^c	-- ^c	-- ^c
Region 10	1,005	3.6	(2.6-5.0)
Bay	272	4.6	(2.6-8.2)
Huron	-- ^c	-- ^c	-- ^c
Saginaw	430	4.3	(2.6-7.0)
Sanilac	-- ^c	-- ^c	-- ^c
Tuscola	-- ^c	-- ^c	-- ^c
Region 11	679	1.7	(1.0-2.8)
Central Michigan	438	1.7	(0.9-3.2)
Midland	-- ^c	-- ^c	-- ^c
Region 12	941	3.6	(2.3-5.7)
Luce-Mackinac-Alger-Schoolcraft	-- ^c	-- ^c	-- ^c
Western Upper Peninsula	-- ^c	-- ^c	-- ^c
Delta-Menominee	-- ^c	-- ^c	-- ^c
Chippewa	-- ^c	-- ^c	-- ^c
Dickinson-Iron	-- ^c	-- ^c	-- ^c
Marquette	-- ^c	-- ^c	-- ^c

^a Among all adults, the proportion who reported ever being told by a doctor that they had kidney disease.
^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the regional estimates.
^c Suppressed due to a denominator < 50 and/or a relative standard error > 30%.

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Table 29: Depression Michigan BRFSS, 2020-2022 Combined			
Geographic Area	Ever Told Depression^a		
	N	%	95% Confidence Interval
Michigan Total	26,620	21.7	(21.1-22.4)
Region 1	11,787	19.8	(18.9-20.8)
Livingston	778	22.9	(19.1-27.2)
Macomb	1,565	20.0	(17.6-22.7)
Monroe	517	22.4	(18.0-27.7)
Oakland	2,834	16.4	(14.8-18.3)
St. Clair	314	20.3	(15.5-26.2)
Washtenaw	2,025	23.4	(20.8-26.1)
City of Detroit	1,151	19.5	(16.9-22.4)
Wayne exc. Detroit	2,478	21.3	(19.3-23.5)
Region 2	1,300	27.1	(24.1-30.3)
Genesee	891	28.7	(25.0-32.6)
Lapeer	188	21.9	(15.4-30.2)
Shiawassee	172	22.0	(14.6-31.8)
Region 3	1,117	24.4	(21.1-28.0)
Jackson	625	22.5	(18.4-27.3)
Lenawee	388	25.1	(19.5-31.7)
Region 4	1,670	22.7	(20.3-25.4)
Barry-Eaton	464	21.0	(16.6-26.1)
Mid-Michigan ^b	534	22.3	(18.2-27.0)
Ingham	747	22.8	(19.3-26.8)
Region 5	1,503	25.4	(22.6-28.5)
Branch-Hillsdale-St. Joseph	413	18.4	(14.0-23.9)
Calhoun	361	28.9	(22.8-36.0)
Kalamazoo	634	28.2	(23.8-33.1)
Region 6	765	24.3	(20.4-28.7)
Van Buren-Cass	294	23.2	(16.9-31.1)
Berrien	394	24.5	(19.3-30.5)
Region 7	2,684	22.2	(20.2-24.4)
Allegan	291	20.1	(14.0-27.9)
Ionia	144	22.6	(15.2-32.2)
Kent	1,342	23.4	(20.6-26.6)
Mid-Michigan ^b	534	22.3	(18.2-27.0)
Ottawa	601	20.5	(15.2-24.0)

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Table 29 Cont'd			
Geographic Area	Ever Told Depression^a		
	N	%	95% Confidence Interval
Michigan Total	26,620	21.7	(21.1-22.4)
Region 8	1,331	23.0	(19.9-26.5)
District #10	660	21.5	(17.3-26.3)
Muskegon	331	27.6	(19.7-37.2)
Region 9	1,014	22.6	(19.4-26.1)
District #2	169	31.7	(23.2-41.6)
District #4	208	19.3	(14.0-26.1)
Northwest Michigan	284	16.2	(11.5-22.4)
Benzie-Leelanau	115	28.1	(18.5-40.2)
Grand Traverse	238	24.1	(17.9-31.7)
Region 10	1,003	22.5	(19.3-26.1)
Bay	272	27.6	(20.8-35.6)
Huron	77	20.9	(12.7-32.5)
Saginaw	431	22.5	(17.9-27.9)
Sanilac	100	17.6	(9.9-29.4)
Tuscola	123	17.9	(10.5-28.8)
Region 11	678	21.1	(16.6-26.4)
Central Michigan	438	21.2	(15.5-28.4)
Midland	240	20.8	(14.9-28.3)
Region 12	940	22.0	(18.7-25.5)
Luce-Mackinac-Alger-Schoolcraft	136	15.2	(9.6-23.3)
Western Upper Peninsula	212	20.3	(14.3-27.8)
Delta-Menominee	185	18.7	(12.3-27.4)
Chippewa	103	26.0	(16.3-38.8)
Dickinson-Iron	112	26.5	(17.2-38.5)
Marquette	192	27.9	(20.4-36.9)

^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.

^b The Mid-Michigan District Health Department consists of Clinton, Gratiot, and Montcalm. Clinton and Gratiot are Region 4 counties, while Montcalm is a Region 7 county. All three counties were included in the Mid-Michigan estimate, but only the respective counties were included in the regional estimates.