

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

**Michigan Behavioral Risk Factor Survey
2007 - 2009 Combined**

Selected Tables

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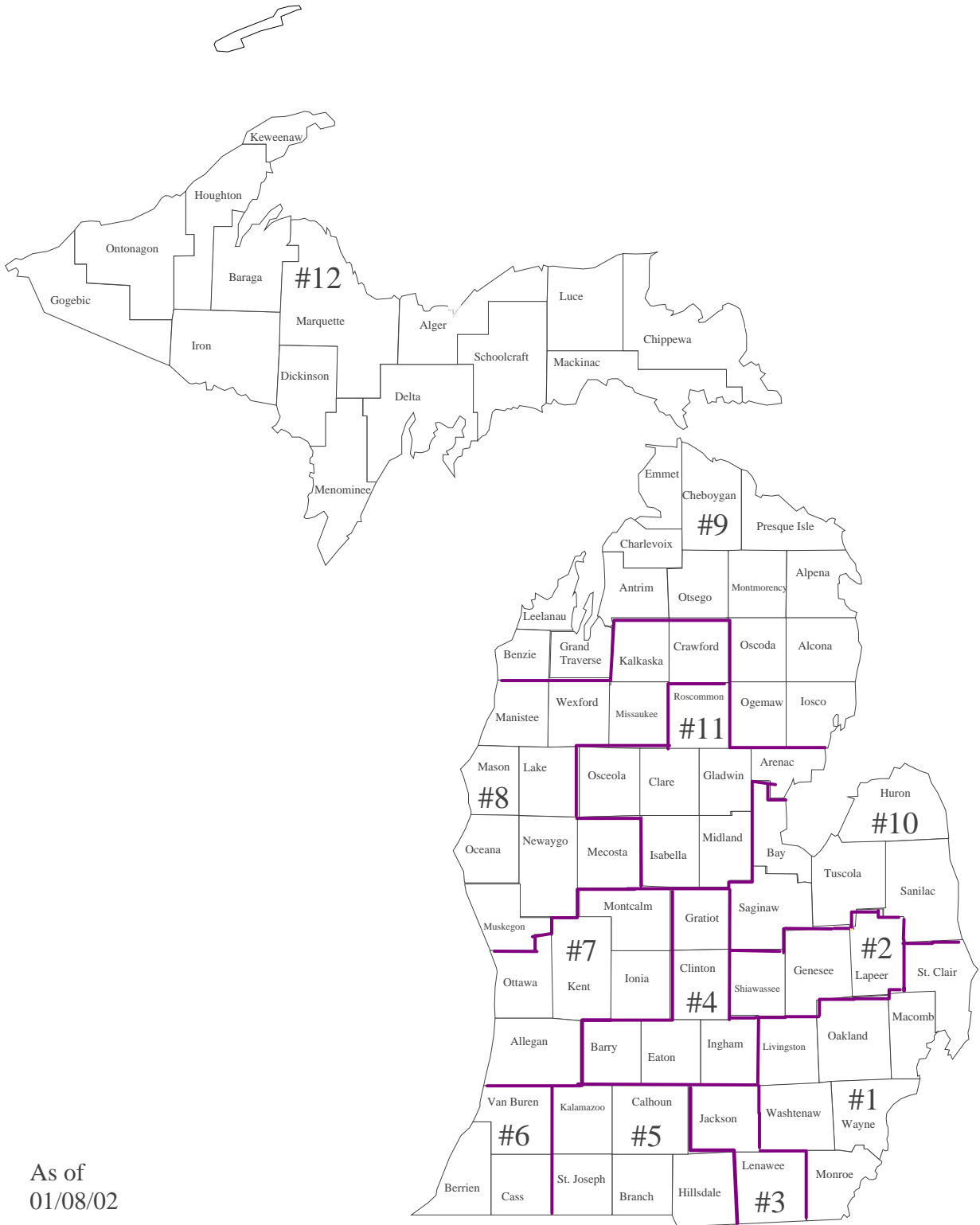
Introduction

The Michigan Behavioral Risk Factor Survey (BRFS) is a statewide, random-digit dialed telephone survey of adult residents aged 18 years and older. State-specific, population-based prevalence estimates (and 95% confidence intervals) of health risk behaviors, preventive health practices, and chronic conditions are calculated using annual data sets (see Annual Tables at <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 2007-2009 Michigan BRFSS were combined. The total sample sizes by year were: 9,259 in 2009, 9,447 in 2008, and 7,505 in 2007. Not all questions were included annually in the survey. The table subtitles indicate which years were used for that particular analysis.

Estimates have been weighted to adjust for the probabilities of selection and the distribution of Michigan adults by age, sex, and race-ethnicity at the state level. Final annual analysis weights were used; no additional weighting factors have been computed for the regional or local health department level. These analyses were performed in SUDAAN, a statistical computing program that was designed for complex sample surveys. Estimates are reported for geographic subgroups with a sample size of at least 50 respondents.

Community Health Assessment and Improvement Regions State of Michigan



As of
01/08/02

Local Health Departments State of Michigan

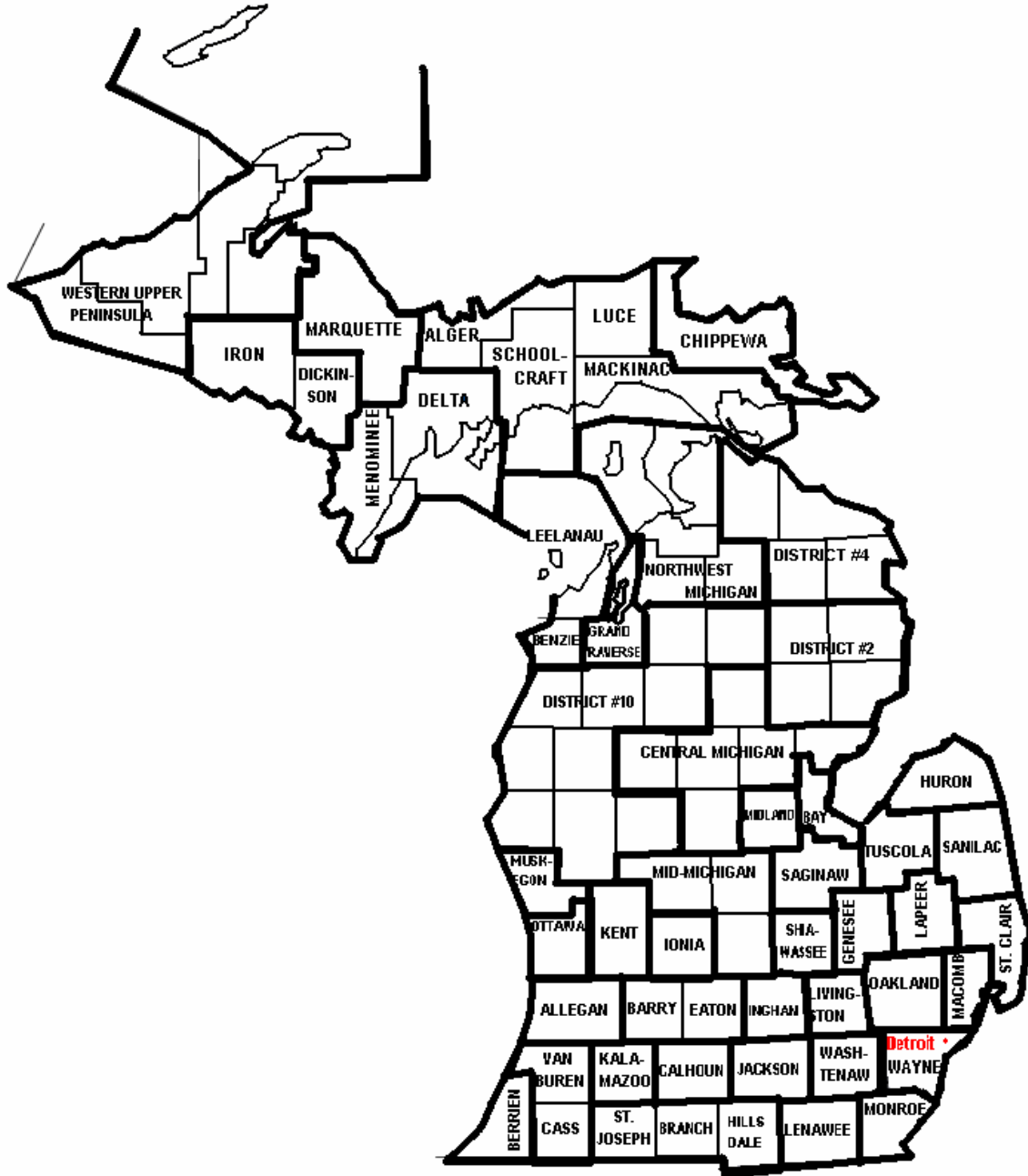


Table 1: Health Status Michigan BRFSS, 2007-2009 Combined			
Geographic Area	General Health, Fair or Poor^a		
	N	%	95% Confidence Interval
Michigan Total	26,134	14.8	(14.2-15.3)
Region 1	11,747	15.0	(14.2-15.8)
Livingston	392	7.4	(5.3-10.3)
Macomb	1,473	14.9	(12.8-17.3)
Monroe	321	13.7	(10.1-18.3)
Oakland	2,688	12.1	(10.7-13.8)
St. Clair	385	18.0	(13.9-23.0)
Washtenaw	744	10.7	(8.2-13.8)
City of Detroit	3,175	24.3	(22.2-26.5)
Wayne exc. Detroit	2,509	13.7	(12.1-15.5)
Region 2	1,652	17.4	(15.2-19.9)
Genesee	1,254	18.8	(16.0-22.0)
Lapeer	203	15.7	(11.0-22.0)
Shiawassee	195	12.1	(8.4-17.2)
Region 3	693	13.0	(10.0-16.8)
Jackson	444	15.1	(11.0-20.4)
Lenawee	249	9.4	(6.1-14.0)
Region 4	1,446	12.8	(10.7-15.4)
Barry-Eaton	459	12.7	(9.6-16.6)
Mid-Michigan ^b	596	14.0	(11.1-17.5)
Ingham	653	13.1	(9.6-17.7)
Region 5	1,289	16.4	(13.9-19.3)
Branch-Hillsdale-St. Joseph	354	15.8	(11.7-21.0)
Calhoun	313	16.2	(11.5-22.4)
Kalamazoo	622	16.9	(13.3-21.3)
Region 6	931	17.3	(14.4-20.6)
Van Buren-Cass	327	17.3	(12.9-22.7)
Berrien	604	17.3	(13.8-21.5)
Region 7	2,589	11.5	(10.0-13.2)
Allegan	241	13.3	(6.8-24.5)
Ionia	146	11.5	(7.1-18.2)
Kent	1,315	11.9	(9.9-14.2)
Mid-Michigan ^b	596	14.0	(11.1-17.5)
Ottawa	625	8.3	(6.1-11.2)

Table 1 Con'd			
Geographic Area	General Health, Fair or Poor^a		
	N	%	95% Confidence Interval
Michigan Total	26,134	14.8	(14.2-15.3)
Region 8	1,341	16.2	(14.1-18.6)
District #10	811	15.6	(13.1-18.5)
Muskegon	530	17.4	(13.7-21.8)
Region 9	1,239	12.7	(10.8-15.0)
District #2	241	14.6	(10.3-20.2)
District #4	276	15.9	(11.6-21.4)
Northwest Michigan	371	13.2	(9.7-17.6)
Benzie-Leelanau	119	5.7	(2.6-11.9)
Grand Traverse	232	10.2	(6.4-15.8)
Region 10	1,406	15.8	(13.6-18.2)
Bay	297	16.3	(11.8-22.2)
Huron	98	20.5	(12.7-31.4)
Saginaw	740	14.4	(11.6-17.7)
Sanilac	130	17.5	(11.1-26.5)
Tuscola	141	15.5	(10.4-22.6)
Region 11	752	18.0	(15.0-21.5)
Central Michigan	519	19.4	(15.6-23.7)
Midland	233	15.2	(10.6-21.2)
Region 12	1,029	15.0	(12.7-17.8)
Luce-Mackinac-Alger-Schoolcraft	141	11.3	(6.8-18.3)
Western Upper Peninsula	221	14.6	(10.4-20.3)
Delta-Menominee	213	14.6	(10.4-20.2)
Chippewa	124	15.3	(9.0-24.9)
Dickinson-Iron	140	19.9	(13.1-29.1)
Marquette	190	15.2	(9.7-23.0)

^a The proportion 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, 2007-2009 Combined			
Geographic Area	Poor Physical Health^a		
	N	%	95% Confidence Interval
Michigan Total	25,593	10.9	(10.4-11.4)
Region 1	11,496	10.4	(9.7-11.1)
Livingston	388	6.3	(4.4-9.0)
Macomb	1,441	10.1	(8.2-12.3)
Monroe	314	8.8	(5.8-13.0)
Oakland	2,635	10.0	(8.6-11.7)
St. Clair	376	13.3	(9.8-17.9)
Washtenaw	737	6.4	(4.7-8.7)
City of Detroit	3,079	14.3	(12.8-16.1)
Wayne exc. Detroit	2,470	10.1	(8.7-11.6)
Region 2	1,614	12.2	(10.3-14.3)
Genesee	1,225	13.0	(10.7-15.8)
Lapeer	198	10.1	(6.4-15.4)
Shiawassee	191	10.0	(6.7-14.8)
Region 3	681	11.8	(8.7-15.7)
Jackson	438	15.1	(10.7-20.8)
Lenawee	243	5.8	(3.5-9.3)
Region 4	1,415	9.6	(7.9-11.7)
Barry-Eaton	445	9.5	(6.6-13.5)
Mid-Michigan ^b	586	8.1	(5.8-11.0)
Ingham	642	10.0	(7.5-13.1)
Region 5	1,258	11.9	(9.8-14.3)
Branch-Hillsdale-St. Joseph	346	10.3	(6.9-16.1)
Calhoun	302	12.5	(8.6-17.6)
Kalamazoo	610	12.3	(9.5-15.8)
Region 6	905	11.6	(9.4-14.2)
Van Buren-Cass	318	12.5	(9.1-17.0)
Berrien	587	10.9	(8.3-14.2)
Region 7	2,55	9.1	(7.8-10.5)
Allegan	236	9.0	(5.8-13.8)
Ionia	144	8.8	(4.6-16.2)
Kent	1,296	10.2	(8.2-12.5)
Mid-Michigan ^b	586	8.1	(5.8-11.0)
Ottawa	620	7.8	(5.6-10.8)

Table 2 Cont'd			
Geographic Area	Poor Physical Health^a		
	N	%	95% Confidence Interval
Michigan Total	25,593	10.9	(10.4-11.4)
Region 8	1,312	13.8	(11.7-16.2)
District #10	792	13.9	(11.2-17.1)
Muskegon	520	13.8	(10.6-17.7)
Region 9	1,220	11.8	(9.9-14.1)
District #2	238	11.3	(7.4-16.9)
District #4	271	18.1	(13.1-24.5)
Northwest Michigan	366	10.3	(7.3-14.3)
Benzie-Leelanau	117	11.7	(6.0-14.3)
Grand Traverse	228	8.3	(5.3-12.7)
Region 10	1,372	11.4	(9.7-13.4)
Bay	293	9.6	(6.4-14.0)
Huron	93	12.0	(6.0-22.5)
Saginaw	723	11.7	(9.4-14.5)
Sanilac	125	12.3	(7.1-20.4)
Tuscola	138	13.6	(8.8-20.4)
Region 11	737	12.6	(10.1-15.8)
Central Michigan	507	14.6	(11.3-18.7)
Midland	230	8.5	(5.1-13.9)
Region 12	1,010	11.3	(9.1-14.0)
Luce-Mackinac-Alger-Schoolcraft	139	13.0	(6.2-25.5)
Western Upper Peninsula	214	9.6	(6.2-14.5)
Delta-Menominee	209	10.7	(7.1-15.8)
Chippewa	122	11.3	(5.7-21.0)
Dickinson-Iron	137	16.6	(9.9-26.5)
Marquette	189	9.2	(5.6-14.7)

^a The proportion 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.

Table 3: Poor Mental Health on at Least 14 Days in the Past Month Michigan BRFSS, 2007-2009 Combined			
Geographic Area	Poor Mental Health^a		
	N	%	95% Confidence Interval
Michigan Total	25,796	10.9	(10.4-11.5)
Region 1	11,584	11.4	(10.5-12.2)
Livingston	390	10.1	(6.6-15.3)
Macomb	1,455	10.9	(8.9-13.3)
Monroe	313	11.6	(7.8-16.9)
Oakland	2,657	10.7	(9.0-12.6)
St. Clair	379	10.5	(7.4-14.6)
Washtenaw	738	8.6	(6.1-12.1)
City of Detroit	3,128	13.8	(12.2-15.7)
Wayne exc. Detroit	2,467	11.9	(10.2-13.9)
Region 2	1,631	11.4	(9.6-13.5)
Genesee	1,237	12.7	(10.5-15.3)
Lapeer	200	4.3	(2.3-8.0)
Shiawassee	194	11.6	(6.8-19.1)
Region 3	680	8.7	(5.9-12.5)
Jackson	436	11.4	(7.4-17.1)
Lenawee	244	3.8	(2.1-6.7)
Region 4	1,424	11.4	(9.5-13.7)
Barry-Eaton	451	12.1	(8.6-16.8)
Mid-Michigan ^b	591	10.6	(7.8-14.1)
Ingham	642	10.8	(8.3-13.9)
Region 5	1,279	13.1	(10.8-15.9)
Branch-Hillsdale-St. Joseph	351	12.1	(8.2-17.6)
Calhoun	310	16.0	(11.4-22.0)
Kalamazoo	618	12.3	(9.0-16.6)
Region 6	921	10.8	(8.5-13.5)
Van Buren-Cass	323	10.3	(7.2-14.6)
Berrien	598	11.1	(8.2-14.8)
Region 7	2,564	8.7	(7.4-10.2)
Allegan	237	10.4	(6.4-16.5)
Ionia	146	10.7	(4.7-22.5)
Kent	1,301	9.3	(7.4-11.6)
Mid-Michigan ^b	591	10.6	(7.8-14.1)
Ottawa	620	6.3	(4.4-9.0)

Table 3 Cont'd			
Geographic Area	Poor Mental Health^a		
	N	%	95% Confidence Interval
Michigan Total	25,796	10.9	(10.4-11.5)
Region 8	1,328	11.9	(9.7-14.5)
District #10	800	10.2	(7.9-13.1)
Muskegon	528	14.7	(10.7-19.9)
Region 9	1,217	10.0	(8.1-12.3)
District #2	236	13.0	(8.4-19.5)
District #4	274	10.1	(6.8-14.9)
Northwest Michigan	366	11.3	(7.9-15.9)
Benzie-Leelanau	116	5.2	(2.1-12.2)
Grand Traverse	225	7.1	(3.9-12.7)
Region 10	1,392	10.0	(8.2-12.2)
Bay	292	9.7	(6.1-15.2)
Huron	94	10.7	(5.4-20.2)
Saginaw	736	10.1	(7.6-13.3)
Sanilac	130	11.9	(6.7-20.4)
Tuscola	140	8.4	(4.3-15.7)
Region 11	742	13.7	(10.7-17.3)
Central Michigan	515	13.0	(9.7-17.1)
Midland	227	15.1	(9.5-23.3)
Region 12	1,014	9.2	(7.0-11.9)
Luce-Mackinac-Alger-Schoolcraft	139	10.7	(5.8-19.2)
Western Upper Peninsula	214	4.2	(2.3-7.5)
Delta-Menominee	211	11.8	(7.3-18.4)
Chippewa	122	14.0	(6.6-27.3)
Dickinson-Iron	140	8.3	(4.3-15.4)
Marquette	188	7.8	(3.7-15.9)

^a The proportion 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.

Table 4: Activity Limitation on at Least 14 Days in the Past Month Michigan BRFSS, 2007-2009 Combined			
Geographic Area	Activity Limitation^a		
	N	%	95% Confidence Interval
Michigan Total	25,756	7.0	(6.6-7.4)
Region 1	11,580	6.5	(6.0-7.2)
Livingston	388	3.0	(1.7-5.4)
Macomb	1,449	6.3	(4.7-8.3)
Monroe	318	5.2	(3.3-8.3)
Oakland	2,650	5.6	(4.5-6.9)
St. Clair	383	8.2	(5.5-12.0)
Washtenaw	739	4.1	(2.8-6.1)
City of Detroit	3,121	9.9	(8.5-11.6)
Wayne exc. Detroit	2,475	6.7	(5.6-8.0)
Region 2	1,625	8.2	(6.8-9.9)
Genesee	1,232	9.2	(7.4-11.2)
Lapeer	200	3.2	(1.7-6.0)
Shiawassee	193	8.3	(4.8-14.0)
Region 3	683	7.9	(5.3-11.5)
Jackson	438	10.1	(6.4-15.5)
Lenawee	245	3.8	(2.1-6.7)
Region 4	1,428	6.2	(4.8-7.9)
Barry-Eaton	454	6.2	(3.9-9.8)
Mid-Michigan ^b	589	5.3	(3.5-7.8)
Ingham	644	6.4	(4.6-8.9)
Region 5	1,268	8.5	(6.7-10.7)
Branch-Hillsdale-St. Joseph	347	9.7	(6.0-15.3)
Calhoun	308	8.2	(5.0-13.1)
Kalamazoo	613	7.9	(5.6-10.9)
Region 6	910	6.8	(5.2-8.7)
Van Buren-Cass	319	6.8	(4.5-10.0)
Berrien	591	6.8	(4.9-9.3)
Region 7	2,568	5.3	(4.3-6.4)
Allegan	240	6.1	(3.2-11.5)
Ionia	146	1.8	(0.7-4.6)
Kent	1,301	5.6	(4.2-7.5)
Mid-Michigan ^b	589	5.3	(3.5-7.8)
Ottawa	622	5.1	(3.4-7.5)

Table 4 Cont'd			
Geographic Area	Activity Limitation^a		
	N	%	95% Confidence Interval
Michigan Total	25,756	7.0	(6.6-7.4)
Region 8	1,313	9.2	(7.5-11.2)
District #10	794	8.7	(6.7-11.4)
Muskegon	519	10.0	(7.4-13.5)
Region 9	1,225	7.6	(6.0-9.6)
District #2	237	10.6	(6.6-16.6)
District #4	274	9.5	(5.7-15.3)
Northwest Michigan	366	7.9	(5.3-11.5)
Benzie-Leelanau	119	3.7	(1.5-8.5)
Grand Traverse	229	4.3	(2.1-8.5)
Region 10	1,378	7.8	(6.3-9.6)
Bay	292	5.8	(3.4-9.8)
Huron	94	7.1	(3.0-16.1)
Saginaw	726	9.0	(6.8-11.9)
Sanilac	127	9.5	(5.1-17.1)
Tuscola	139	6.8	(3.7-12.3)
Region 11	743	9.7	(7.3-12.8)
Central Michigan	511	10.0	(7.4-13.5)
Midland	232	9.0	(4.7-16.5)
Region 12	1,017	6.0	(4.7-7.7)
Luce-Mackinac-Alger-Schoolcraft	139	5.9	(2.9-11.7)
Western Upper Peninsula	216	5.2	(2.9-8.9)
Delta-Menominee	210	8.1	(4.9-13.0)
Chippewa	123	4.3	(2.0-9.1)
Dickinson-Iron	139	6.6	(3.1-13.5)
Marquette	190	5.5	(3.1-9.6)

^a The proportion 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.

Table 5: Life Satisfaction Michigan BRFSS, 2007-2009 Combined			
Geographic Area	Dissatisfied or Very Dissatisfied^a		
	N	%	95% Confidence Interval
Michigan Total	25,198	6.5	(6.1-6.9)
Region 1	11,267	6.8	(6.2-7.5)
Livingston	377	3.3	(1.5-6.8)
Macomb	1,422	6.6	(5.1-8.5)
Monroe	303	4.8	(2.8-8.1)
Oakland	2,590	5.3	(4.2-6.6)
St. Clair	377	7.3	(4.5-11.6)
Washtenaw	729	4.9	(3.3-7.3)
City of Detroit	3,010	12.1	(10.4-14.1)
Wayne exc. Detroit	2,429	6.6	(5.3-8.2)
Region 2	1,589	6.0	(4.7-7.6)
Genesee	1,199	6.8	(5.2-8.9)
Lapeer	197	2.9	(1.4-5.7)
Shiawassee	193	5.0	(2.5-9.7)
Region 3	671	6.7	(4.2-10.7)
Jackson	430	8.4	(4.7-14.5)
Lenawee	241	3.8	(2.0-7.2)
Region 4	1,403	5.9	(4.4-7.8)
Barry-Eaton	442	5.9	(3.5-9.8)
Mid-Michigan ^b	579	4.4	(2.9-6.6)
Ingham	635	7.1	(4.9-10.4)
Region 5	1,244	8.3	(6.4-10.8)
Branch-Hillsdale-St. Joseph	347	9.5	(5.8-15.0)
Calhoun	300	9.7	(6.1-15.0)
Kalamazoo	597	7.0	(4.5-10.6)
Region 6	897	5.9	(4.2-8.3)
Van Buren-Cass	316	5.5	(2.8-10.5)
Berrien	581	6.3	(4.3-9.0)
Region 7	2,514	4.9	(3.8-6.2)
Allegan	236	7.1	(3.6-13.5)
Ionia	143	2.0	(0.6-6.1)
Kent	1,280	5.0	(3.5-7.0)
Mid-Michigan ^b	579	4.4	(2.9-6.6)
Ottawa	602	4.2	(2.5-7.0)

Table 5 Cont'd			
Geographic Area	Dissatisfied or Very Dissatisfied^a		
	N	%	95% Confidence Interval
Michigan Total	25,198	6.5	(6.1-6.9)
Region 8	1,298	7.2	(5.4-9.6)
District #10	787	6.1	(4.3-8.5)
Muskegon	511	9.1	(5.5-14.6)
Region 9	1,211	6.2	(4.7-8.2)
District #2	233	7.0	(4.2-11.5)
District #4	269	6.0	(3.4-10.3)
Northwest Michigan	386	8.5	(5.2-13.5)
Benzie-Leelanau	117	5.2	(2.1-12.4)
Grand Traverse	226	2.4	(1.1-4.8)
Region 10	1,367	5.8	(4.5-7.6)
Bay	290	5.8	(3.2-10.2)
Huron	95	6.4	(2.2-16.9)
Saginaw	714	6.1	(4.2-8.8)
Sanilac	127	7.7	(3.9-14.7)
Tuscola	141	3.1	(1.4-7.1)
Region 11	727	7.0	(5.0-9.6)
Central Michigan	502	7.6	(5.3-10.9)
Midland	225	5.6	(2.8-11.0)
Region 12	990	6.5	(4.7-9.1)
Luce-Mackinac-Alger-Schoolcraft	135	5.5	(2.1-13.4)
Western Upper Peninsula	211	4.8	(2.7-8.5)
Delta-Menominee	203	9.9	(5.3-17.9)
Chippewa	120	6.0	(1.8-17.7)
Dickinson-Iron	135	7.3	(3.1-16.0)
Marquette	186	5.2	(2.0-13.1)

^a The proportion who reported either "Dissatisfied" or "Very Dissatisfied" to the following question: "In general, how satisfied are you with your life?"

^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 6: Social and Emotional Support Michigan BRFSS, 2007-2009 Combined			
Geographic Area	Rarely or Never Receive Needed Social and Emotional Support^a		
	N	%	95% Confidence Interval
Michigan Total	24,948	7.1	(6.7-7.5)
Region 1	11,154	7.4	(6.7-8.1)
Livingston	376	6.3	(4.1-9.6)
Macomb	1,403	5.8	(4.4-7.5)
Monroe	299	8.1	(5.3-12.3)
Oakland	2,586	5.7	(4.8-6.9)
St. Clair	372	9.9	(7.0-13.9)
Washtenaw	722	4.4	(3.0-6.3)
City of Detroit	2,971	13.9	(11.5-16.7)
Wayne exc. Detroit	2,396	6.5	(5.2-8.1)
Region 2	1,570	6.9	(5.5-8.5)
Genesee	1,184	7.7	(6.0-9.7)
Lapeer	193	5.1	(3.0-8.5)
Shiawassee	193	4.7	(2.1-10.0)
Region 3	668	7.3	(5.2-10.1)
Jackson	428	8.0	(5.2-12.2)
Lenawee	240	5.9	(3.5-9.8)
Region 4	1,390	6.6	(5.1-8.5)
Barry-Eaton	440	9.1	(6.0-13.7)
Mid-Michigan ^b	572	5.1	(3.5-7.5)
Ingham	629	5.8	(4.0-8.4)
Region 5	1,235	8.1	(6.2-10.4)
Branch-Hillsdale-St. Joseph	343	8.3	(5.0-13.5)
Calhoun	298	7.8	(4.7-12.8)
Kalamazoo	594	8.0	(5.5-11.6)
Region 6	884	6.7	(4.7-9.3)
Van Buren-Cass	314	5.5	(2.6-11.3)
Berrien	570	7.6	(5.5-10.5)
Region 7	2,505	4.7	(3.7-5.9)
Allegan	236	5.7	(2.9-10.9)
Ionia	140	7.6	(2.6-20.2)
Kent	1,279	4.3	(3.1-6.0)
Mid-Michigan ^b	572	5.1	(3.5-7.5)
Ottawa	599	4.0	(2.3-6.9)

Table 6 Cont'd			
Geographic Area	Rarely or Never Receive the Social and Emotional Support that is Needed^a		
	N	%	95% Confidence Interval
Michigan Total	24,948	7.1	(6.7-7.5)
Region 8	1,280	6.8	(5.3-8.6)
District #10	778	6.4	(4.8-8.4)
Muskegon	502	7.4	(4.7-11.6)
Region 9	1,194	7.3	(5.8-9.2)
District #2	229	6.8	(4.2-10.6)
District #4	260	7.8	(5.0-12.1)
Northwest Michigan	361	9.0	(5.9-13.4)
Benzie-Leelanau	118	5.6	(2.5-12.1)
Grand Traverse	226	5.5	(2.8-10.7)
Region 10	1,343	9.2	(6.9-12.2)
Bay	289	11.4	(5.6-21.8)
Huron	91	3.9	(1.0-13.2)
Saginaw	699	8.2	(5.8-11.5)
Sanilac	124	15.6	(9.7-24.1)
Tuscola	140	6.3	(3.3-11.7)
Region 11	724	9.8	(7.3-13.1)
Central Michigan	500	10.6	(7.7-14.4)
Midland	224	8.2	(4.1-15.8)
Region 12	981	6.2	(4.7-8.1)
Luce-Mackinac-Alger-Schoolcraft	137	6.2	(2.6-13.8)
Western Upper Peninsula	209	10.7	(6.9-16.2)
Delta-Menominee	202	6.7	(3.6-12.3)
Chippewa	119	5.6	(2.8-10.9)
Dickinson-Iron	129	2.0	(0.9-4.6)
Marquette	185	4.4	(2.1-9.2)

^a The proportion who reported either "Rarely" or "Never" to the following question: "How often do you get the social and emotional support you need?"

^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 7: Disability Michigan BRFSS, 2007-2009 Combined			
Geographic Area	Disability^a		
	N	%	95% Confidence Interval
Michigan Total	25,870	23.2	(22.5-23.8)
Region 1	11,609	22.4	(21.4-23.3)
Livingston	388	21.1	(16.7-26.5)
Macomb	1,454	20.5	(18.1-23.2)
Monroe	316	25.4	(20.3-31.3)
Oakland	2,666	22.0	(20.1-24.1)
St. Clair	385	26.0	(21.1-31.6)
Washtenaw	738	20.8	(17.6-24.4)
City of Detroit	3,134	27.2	(25.0-29.4)
Wayne exc. Detroit	2,475	20.3	(18.4-22.3)
Region 2	1,636	27.9	(25.1-31.0)
Genesee	1,241	28.6	(25.3-32.1)
Lapeer	200	23.4	(17.6-30.4)
Shiawassee	195	28.9	(20.8-38.6)
Region 3	685	25.6	(21.7-30.0)
Jackson	438	23.8	(19.1-29.4)
Lenawee	247	28.8	(22.3-36.4)
Region 4	1,429	21.4	(19.0-24.0)
Barry-Eaton	454	17.9	(14.3-22.1)
Mid-Michigan ^b	587	24.6	(20.6-2.2)
Ingham	647	23.3	(19.6-27.5)
Region 5	1,282	26.0	(23.2-29.1)
Branch-Hillsdale-St. Joseph	355	25.7	(20.6-31.5)
Calhoun	310	25.9	(20.1-32.6)
Kalamazoo	617	26.3	(22.3-30.8)
Region 6	922	20.7	(17.9-23.9)
Van Buren-Cass	327	21.3	(16.7-26.6)
Berrien	595	20.3	(16.9-24.2)
Region 7	2,570	20.1	(18.2-22.1)
Allegan	241	15.0	(10.4-21.0)
Ionia	145	21.8	(15.4-29.9)
Kent	1,305	20.3	(17.6-23.3)
Mid-Michigan ^b	587	24.6	(20.6-2.2)
Ottawa	620	18.4	(15.1-22.3)

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Table 7 Cont'd			
Geographic Area	Disability^a		
	N	%	95% Confidence Interval
Michigan Total	25,870	23.2	(22.5-23.8)
Region 8	1,324	27.8	(24.8-31.0)
District #10	804	27.0	(23.2-31.1)
Muskegon	520	29.3	(24.5-34.6)
Region 9	1,235	24.4	(21.7-27.3)
District #2	241	31.9	(25.1-39.5)
District #4	275	27.3	(21.9-33.5)
Northwest Michigan	371	22.5	(18.0-27.7)
Benzie-Leelanau	118	20.5	(13.7-29.4)
Grand Traverse	230	18.7	(13.6-25.2)
Region 10	1,394	21.8	(19.3-24.5)
Bay	296	17.6	(13.1-23.1)
Huron	98	24.5	(16.1-35.4)
Saginaw	730	24.7	(20.9-28.8)
Sanilac	129	22.1	(15.2-31.0)
Tuscola	141	18.4	(12.7-26.0)
Region 11	741	26.4	(22.7-30.4)
Central Michigan	512	29.0	(24.4-34.1)
Midland	229	20.6	(15.3-27.1)
Region 12	1,023	24.2	(21.0-27.6)
Luce-Mackinac-Alger-Schoolcraft	140	34.1	(24.0-45.8)
Western Upper Peninsula	221	24.0	(17.4-32.1)
Delta-Menominee	209	21.7	(16.4-28.2)
Chippewa	125	22.7	(15.2-32.6)
Dickinson-Iron	141	23.9	(16.7-33.1)
Marquette	187	21.3	(14.8-29.6)

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

^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 8: Weight Status Michigan BRFSS, 2007-2009 Combined							
Geographic Area	Sample Size	Obese^a		Overweight^b		Not Overweight or Obese^c	
	N	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Michigan Total	24,863	29.9	(29.2-30.7)	35.6	(34.8-36.5)	34.4	(33.6-35.3)
Region 1	11,170	28.6	(27.5-29.8)	35.7	(34.5-37.0)	35.7	(34.4-37.0)
Livingston	382	22.2	(17.5-27.6)	39.2	(33.2-45.6)	38.7	(32.4-45.3)
Macomb	1,401	29.1	(26.2-32.3)	36.8	(33.5-40.1)	34.1	(30.7-37.6)
Monroe	302	34.3	(28.0-41.1)	33.2	(27.0-40.0)	32.6	(26.3-39.6)
Oakland	2,581	24.1	(21.9-26.5)	37.1	(34.5-39.7)	38.8	(36.2-41.6)
St. Clair	356	30.3	(24.7-36.6)	35.9	(30.1-42.1)	33.8	(27.8-40.4)
Washtenaw	712	23.1	(19.2-27.5)	34.2	(29.8-39.0)	42.7	(38.0-47.5)
City of Detroit	3,014	38.4	(35.8-41.2)	32.8	(30.3-35.5)	28.7	(25.9-31.8)
Wayne exc. Detroit	2,383	28.5	(26.1-31.0)	35.8	(33.1-38.5)	35.8	(33.0-38.6)
Region 2	1,575	35.5	(32.2-39.0)	35.0	(31.8-38.4)	29.5	(26.3-32.8)
Genesee	1,194	36.4	(32.4-40.5)	33.0	(29.3-37.0)	30.6	(26.9-34.6)
Lapeer	194	41.1	(32.7-50.1)	32.1	(24.9-40.3)	26.7	(19.8-35.0)
Shiawassee	187	26.1	(19.0-34.7)	47.4	(37.7-57.2)	26.5	(18.2-37.0)
Region 3	665	35.2	(30.7-40.0)	41.0	(36.2-45.9)	23.8	(20.1-28.0)
Jackson	427	34.6	(29.0-40.6)	39.8	(33.9-46.0)	25.6	(20.7-31.1)
Lenawee	238	36.3	(28.9-44.5)	43.1	(35.1-51.4)	20.6	(15.5-27.0)
Region 4	1,372	30.8	(27.5-34.2)	37.8	(34.5-41.2)	31.5	(28.3-34.8)
Barry-Eaton	445	31.8	(26.6-37.6)	38.0	(32.4-43.8)	30.2	(25.0-35.9)
Mid-Michigan ^d	559	31.6	(26.9-36.6)	34.4	(29.5-39.6)	34.1	(29.0-39.5)
Ingham	616	28.5	(23.3-34.3)	39.1	(33.9-44.6)	32.4	(27.5-37.6)
Region 5	1,225	30.4	(27.1-33.8)	32.1	(29.0-35.5)	37.5	(34.0-41.2)
Branch-Hillsdale-St. Joseph	336	28.5	(23.0-34.7)	36.4	(30.3-43.1)	35.1	(28.9-41.8)
Calhoun	296	36.1	(29.1-43.8)	29.6	(23.7-36.3)	34.2	(27.4-41.9)
Kalamazoo	593	28.7	(24.2-33.6)	30.8	(26.4-35.5)	40.6	(35.4-46.0)
Region 6	886	28.6	(24.8-32.7)	37.6	(33.2-42.1)	33.8	(29.7-38.2)
Van Buren-Cass	314	28.0	(22.0-34.9)	33.6	(26.9-41.1)	38.3	(31.4-45.8)
Berrien	572	29.1	(24.5-34.1)	40.7	(35.3-46.3)	30.3	(25.5-35.5)
Region 7	2,456	27.2	(24.9-29.7)	34.5	(32.1-37.0)	38.3	(35.7-40.9)
Allegan	231	28.9	(20.6-38.8)	38.1	(30.3-46.6)	33.0	(25.6-41.4)
Ionia	138	34.5	(25.5-44.8)	31.7	(23.2-41.6)	33.8	(24.1-45.0)
Kent	1,242	27.4	(24.4-30.8)	34.7	(31.4-38.2)	37.8	(34.2-41.6)
Mid-Michigan ^d	559	31.6	(26.9-36.6)	34.4	(29.5-39.6)	34.1	(29.0-39.5)
Ottawa	597	24.0	(19.4-29.3)	33.4	(28.7-38.5)	42.6	(37.3-48.1)

Table 8 Cont'd

Geographic Area	Sample Size	Obese ^a		Overweight ^b		Not Overweight or Obese ^c	
		N	%	95% Confidence Interval	%	95% Confidence Interval	%
Michigan Total	24,863	29.9	(29.2-30.7)	35.6	(34.8-36.5)	34.4	(33.6-35.3)
Region 8	1,266	31.3	(28.2-34.7)	37.3	(33.8-41.0)	31.4	(28.0-34.9)
District #10	776	30.9	(27.0-35.1)	38.3	(34.0-42.9)	30.8	(26.7-35.2)
Muskegon	490	32.1	(26.9-37.9)	35.5	(29.7-41.7)	32.4	(26.8-38.5)
Region 9	1,193	30.2	(27.1-33.4)	35.4	(32.1-38.8)	34.4	(31.0-38.0)
District #2	233	35.7	(28.5-43.6)	34.9	(28.0-42.4)	29.4	(22.2-37.8)
District #4	269	32.0	(25.9-38.7)	39.6	(33.1-46.6)	28.4	(22.2-35.6)
Northwest Michigan	354	27.9	(22.8-33.7)	33.4	(27.5-39.9)	38.7	(32.6-45.1)
Benzie-Leelanau	116	32.0	(22.7-43.0)	35.0	(24.5-47.2)	33.0	(23.0-44.9)
Grand Traverse	221	25.1	(18.7-32.8)	34.7	(27.5-42.7)	40.2	(32.0-49.0)
Region 10	1,341	35.0	(31.4-38.9)	33.0	(29.7-36.4)	32.0	(28.5-35.7)
Bay	284	36.4	(27.7-46.1)	31.4	(24.7-38.8)	32.3	(24.8-40.7)
Huron	90	25.2	(16.0-37.4)	37.9	(26.3-51.0)	36.9	(24.8-50.9)
Saginaw	703	37.5	(32.6-42.5)	32.2	(27.6-37.3)	30.3	(25.5-35.6)
Sanilac	126	40.4	(30.3-51.3)	24.9	(17.6-34.0)	34.7	(24.7-46.3)
Tuscola	138	24.7	(16.9-34.6)	42.8	(32.9-53.4)	32.4	(23.0-43.6)
Region 11	710	29.9	(25.9-34.2)	33.8	(29.4-38.5)	36.3	(31.5-41.4)
Central Michigan	494	30.5	(25.6-35.8)	35.2	(30.0-40.9)	34.3	(28.4-40.6)
Midland	216	28.5	(21.9-36.1)	30.6	(23.0-39.5)	40.9	(32.7-49.7)
Region 12	986	30.1	(26.5-33.9)	37.9	(34.2-41.8)	32.0	(28.2-36.0)
Luce-Mackinac-Alger-Schoolcraft	134	25.6	(17.8-35.3)	36.8	(27.1-47.7)	37.6	(26.6-50.1)
Western Upper Peninsula	213	25.6	(19.4-33.0)	38.4	(30.9-46.6)	36.0	(28.0-44.7)
Delta-Menominee	204	30.1	(22.8-38.7)	40.0	(31.6-49.0)	29.9	(22.7-38.3)
Chippewa	120	37.1	(26.1-49.6)	25.8	(17.8-35.7)	37.1	(26.0-49.8)
Dickinson-Iron	135	32.3	(22.9-43.5)	36.3	(27.1-46.7)	31.3	(23.1-40.9)
Marquette	180	31.3	(23.3-40.6)	45.4	(36.4-54.8)	23.2	(16.3-32.0)

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

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

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

^c The proportion of respondents whose BMI was 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.

Table 9: No Health Care Coverage Among Those Aged 18-64 Years Michigan BRFSS, 2007-2009 Combined			
Geographic Area	No Health Care Coverage^a		
	N	%	95% Confidence Interval
Michigan Total	17,187	14.8	(14.0-15.6)
Region 1	8,028	14.1	(13.0-15.3)
Livingston	279	14.6	(9.4-22.1)
Macomb	996	14.0	(11.3-17.3)
Monroe	222	12.1	(8.2-17.7)
Oakland	1,803	9.3	(7.4-11.5)
St. Clair	276	15.7	(11.1-21.7)
Washtenaw	558	7.7	(4.8-12.0)
City of Detroit	2,149	25.5	(22.6-28.6)
Wayne exc. Detroit	1,720	13.6	(11.3-16.3)
Region 2	1,151	15.0	(12.0-18.5)
Genesee	879	12.6	(9.6-16.4)
Lapeer	144	19.7	(12.0-30.5)
Shiawassee	128	22.3	(13.1-35.1)
Region 3	462	16.1	(11.7-21.6)
Jackson	288	19.3	(13.4-27.1)
Lenawee	174	10.5	(5.8-18.0)
Region 4	1,036	11.2	(8.8-14.2)
Barry-Eaton	337	13.0	(8.9-18.6)
Mid-Michigan ^b	418	10.7	(7.4-15.1)
Ingham	455	11.0	(7.4-16.0)
Region 5	871	15.7	(12.7-19.2)
Branch-Hillsdale-St. Joseph	239	15.4	(10.6-21.8)
Calhoun	211	18.4	(12.4-26.5)
Kalamazoo	421	14.5	(10.4-20.0)
Region 6	631	12.9	(9.6-17.2)
Van Buren-Cass	229	13.1	(7.7-21.3)
Berrien	402	12.8	(9.2-17.4)
Region 7	1,842	13.3	(11.2-15.8)
Allegan	176	18.0	(11.7-26.5)
Ionia	108	17.3	(9.8-28.6)
Kent	929	11.9	(9.2-15.3)
Mid-Michigan ^b	418	10.7	(7.4-15.1)
Ottawa	455	13.8	(9.2-20.2)

Table 9 Cont'd			
Geographic Area	No Health Care Coverage^a		
	N	%	95% Confidence Interval
Michigan Total	17,187	14.8	(14.0-15.6)
Region 8	893	19.7	(16.1-23.7)
District #10	544	22.3	(17.9-27.5)
Muskegon	349	15.1	(10.0-22.2)
Region 9	817	17.3	(14.1-21.0)
District #2	154	21.0	(13.8-30.7)
District #4	172	17.8	(11.9-25.7)
Northwest Michigan	260	18.6	(13.4-25.2)
Benzie-Leelanau	73	15.1	(6.4-31.5)
Grand Traverse	158	12.1	(6.3-21.9)
Region 10	906	12.9	(10.3-16.1)
Bay	195	13.0	(8.2-20.1)
Huron	50	10.1	(3.6-25.6)
Saginaw	489	13.5	(9.7-18.6)
Sanilac	82	12.7	(7.0-21.8)
Tuscola	90	11.9	(5.7-23.4)
Region 11	508	21.2	(16.7-26.5)
Central Michigan	347	23.4	(17.9-29.9)
Midland	161	16.4	(9.5-27.0)
Region 12	664	19.1	(15.4-23.5)
Luce-Mackinac-Alger-Schoolcraft	94	29.1	(18.3-42.9)
Western Upper Peninsula	137	15.8	(9.6-25.0)
Delta-Menominee	131	25.9	(16.9-37.6)
Chippewa	81	21.0	(10.7-37.2)
Dickinson-Iron	89	11.2	(5.1-22.8)
Marquette	132	12.1	(7.4-19.0)

^a Among those 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.

Table 10: Health Care Access Michigan BRFSS, 2007-2009 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	26,113	13.2	(12.6-13.9)	26,159	12.7	(12.1-13.3)
Region 1	11,737	13.7	(12.7-14.8)	11,754	12.6	(11.8-13.5)
Livingston	392	11.2	(7.4-16.5)	393	7.4	(4.5-11.9)
Macomb	1,472	11.1	(9.0-13.8)	1,477	12.7	(10.5-15.3)
Monroe	319	7.7	(4.6-12.7)	320	7.6	(4.9-11.6)
Oakland	2,688	10.6	(8.8-12.6)	2,688	10.0	(8.5-11.7)
St. Clair	385	15.5	(11.0-21.3)	385	14.6	(10.4-20.2)
Washtenaw	744	12.8	(9.3-17.4)	743	9.3	(6.6-13.1)
City of Detroit	3,169	23.3	(20.4-26.4)	3,178	20.5	(18.3-22.9)
Wayne exc. Detroit	2,509	13.3	(11.2-15.8)	2,508	12.2	(10.4-14.2)
Region 2	1,659	11.5	(9.2-14.3)	1,658	15.0	(12.8-17.6)
Genesee	1,259	11.6	(8.9-15.0)	1,258	13.9	(11.5-16.9)
Lapeer	203	9.3	(5.2-16.1)	204	14.2	(9.2-21.3)
Shiawassee	197	12.9	(7.3-21.7)	196	21.0	(14.0-30.2)
Region 3	690	8.4	(6.0-11.6)	692	9.5	(6.7-13.4)
Jackson	442	8.8	(6.0-12.5)	443	10.4	(6.6-16.0)
Lenawee	248	7.8	(4.0-14.6)	249	7.9	(4.6-13.0)
Region 4	1,442	14.4	(11.6-17.7)	1,446	10.3	(8.4-12.6)
Barry-Eaton	456	15.0	(10.9-20.3)	458	10.9	(7.8-15.0)
Mid-Michigan ^c	594	9.1	(6.3-12.8)	596	9.7	(7.0-13.3)
Ingham	653	17.0	(12.3-23.1)	653	10.4	(7.6-14.1)
Region 5	1,287	14.9	(12.2-18.0)	1,289	11.4	(9.2-14.1)
Branch-Hillsdale-St. Joseph	355	17.3	(12.6-23.4)	356	10.9	(7.4-15.8)
Calhoun	313	11.3	(7.3-17.2)	313	11.6	(7.5-17.7)
Kalamazoo	619	15.2	(11.3-20.1)	620	11.6	(8.5-15.8)
Region 6	926	19.3	(15.8-23.4)	931	12.5	(9.8-15.8)
Van Buren-Cass	325	20.0	(14.3-27.2)	327	15.6	(10.8-21.9)
Berrien	601	18.8	(14.7-23.6)	604	10.1	(7.5-13.5)

Table 10 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	26,113	13.2	(12.6-13.9)	26,159	12.7	(12.1-13.3)
Region 7	2,587	9.0	(7.4-10.8)	2,591	12.2	(10.5-14.3)
Allegan	241	8.7	(4.8-15.3)	242	12.9	(8.2-19.7)
Ionia	146	14.7	(7.7-26.2)	146	16.7	(10.4-25.8)
Kent	1,313	9.0	(6.9-11.7)	1,315	13.6	(10.9-16.9)
Mid-Michigan ^c	594	9.1	(6.3-12.8)	596	9.7	(7.0-13.3)
Ottawa	626	7.1	(4.5-11.0)	627	8.8	(6.0-12.7)
Region 8	1,342	9.9	(7.8-12.6)	1,344	12.7	(10.4-15.5)
District #10	810	10.4	(7.9-13.5)	813	13.5	(10.7-16.9)
Muskegon	532	9.2	(5.7-14.6)	531	11.4	(7.7-16.6)
Region 9	1,237	14.2	(11.6-17.2)	1,242	15.3	(12.8-18.2)
District #2	243	16.8	(10.9-25.0)	243	17.0	(11.8-23.8)
District #4	274	14.8	(10.3-20.8)	276	15.0	(10.7-20.7)
Northwest Michigan	369	15.1	(10.8-20.8)	371	16.9	(12.2-23.0)
Benzie-Leelanau	119	16.5	(8.7-29.2)	120	13.6	(6.9-25.0)
Grand Traverse	232	8.0	(4.0-15.6)	232	12.3	(7.6-19.2)
Region 10	1,406	12.0	(9.6-14.8)	1,408	11.4	(9.4-13.9)
Bay	297	17.0	(11.4-24.4)	297	14.6	(10.0-21.0)
Huron	98	15.5	(8.0-27.8)	98	6.2	(2.5-14.4)
Saginaw	740	10.0	(7.1-14.0)	742	11.7	(8.8-15.3)
Sanilac	130	9.8	(4.7-19.2)	130	10.8	(5.6-19.9)
Tuscola	141	7.7	(3.6-15.9)	141	6.9	(3.6-12.6)
Region 11	750	19.9	(15.7-24.8)	753	17.4	(13.9-21.6)
Central Michigan	519	20.7	(15.8-26.7)	520	19.8	(15.5-25.1)
Midland	231	18.1	(11.4-27.6)	233	12.3	(7.2-20.1)
Region 12	1,030	17.5	(14.2-21.3)	1,031	13.5	(10.5-17.3)
Luce-Mackinac-Alger-Schoolcraft	141	20.0	(12.2-31.0)	140	18.5	(10.5-30.6)
Western Upper Peninsula	222	17.1	(10.8-25.9)	222	17.0	(9.2-29.3)
Delta-Menominee	212	18.8	(12.1-27.9)	214	12.8	(7.1-21.9)
Chippewa	125	25.2	(14.5-40.0)	125	16.0	(9.0-26.8)
Dickinson-Iron	139	9.7	(4.3-20.4)	141	11.6	(6.1-21.1)
Marquette	191	14.6	(9.2-22.5)	189	6.9	(3.8-12.2)

^a The proportion who reported that they did not have anyone that they thought of as their personal doctor or health care provider.

^b The proportion 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.

Table 11: No Leisure-Time Physical Activity Michigan BRFSS, 2007-2009 Combined			
Geographic Area	No Leisure-Time Physical Activity^a		
	N	%	95% Confidence Interval
Michigan Total	26,185	23.5	(22.8-24.2)
Region 1	11,766	22.9	(21.9-24.0)
Livingston	392	17.0	(13.1-21.8)
Macomb	1,477	22.0	(19.6-24.7)
Monroe	319	30.0	(24.1-36.6)
Oakland	2,692	19.1	(17.2-21.2)
St. Clair	386	21.2	(16.9-26.3)
Washtenaw	744	17.1	(13.8-20.8)
City of Detroit	3,183	32.3	(29.6-35.1)
Wayne exc. Detroit	2,511	23.3	(21.1-25.5)
Region 2	1,660	28.2	(25.1-31.4)
Genesee	1,260	29.9	(26.3-33.8)
Lapeer	204	19.4	(14.2-25.9)
Shiawassee	196	27.7	(19.6-37.5)
Region 3	693	24.1	(20.3-28.4)
Jackson	444	25.2	(20.3-30.9)
Lenawee	249	22.1	(16.7-28.7)
Region 4	1,449	22.1	(19.5-24.9)
Barry-Eaton	459	24.7	(20.0-30.0)
Mid-Michigan ^b	595	21.1	(17.5-25.2)
Ingham	655	20.0	(16.4-24.1)
Region 5	1,291	24.0	(21.1-27.1)
Branch-Hillsdale-St. Joseph	355	27.2	(21.7-33.6)
Calhoun	314	26.8	(21.0-33.5)
Kalamazoo	622	20.7	(16.9-25.2)
Region 6	932	24.9	(21.6-28.5)
Van Buren-Cass	327	26.2	(20.9-32.4)
Berrien	605	23.8	(19.8-28.2)
Region 7	2,594	20.0	(18.0-22.2)
Allegan	242	24.4	(16.6-34.5)
Ionia	146	25.7	(17.0-36.9)
Kent	1,318	19.1	(16.5-22.1)
Mid-Michigan ^b	595	21.1	(17.5-25.2)
Ottawa	628	19.3	(15.7-23.5)

Table 11 Cont'd			
Geographic Area	No Leisure-Time Physical Activity^a		
	N	%	95% Confidence Interval
Michigan Total	26,185	23.5	(22.8-24.2)
Region 8	1,347	27.1	(24.1-30.3)
District #10	813	26.5	(22.9-30.6)
Muskegon	534	28.1	(23.2-33.6)
Region 9	1,243	26.0	(23.0-29.2)
District #2	243	33.4	(26.3-41.3)
District #4	277	26.1	(20.6-32.5)
Northwest Michigan	371	23.6	(18.3-29.8)
Benzie-Leelanau	120	33.8	(23.7-45.5)
Grand Traverse	232	18.0	(12.8-24.6)
Region 10	1,404	27.0	(24.0-30.1)
Bay	296	21.5	(16.1-28.1)
Huron	98	25.5	(16.0-38.1)
Saginaw	740	29.8	(25.5-34.4)
Sanilac	129	30.3	(21.6-40.7)
Tuscola	141	26.8	(19.0-36.4)
Region 11	752	23.6	(20.1-27.5)
Central Michigan	519	27.5	(23.0-32.6)
Midland	233	15.0	(10.3-21.3)
Region 12	1,034	21.5	(18.5-24.8)
Luce-Mackinac-Alger-Schoolcraft	141	20.1	(13.5-28.9)
Western Upper Peninsula	222	20.8	(14.5-28.8)
Delta-Menominee	214	24.3	(18.1-31.7)
Chippewa	125	24.0	(15.0-36.1)
Dickinson-Iron	141	18.2	(12.2-26.4)
Marquette	191	20.7	(14.5-28.6)

^a The proportion who reported not participating in any leisure-time physical activities or exercises such as running, calisthenics, golf, gardening, or walking during the past month.

^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 12: Inadequate Physical Activity Michigan BRFSS, 2007-2009 Combined			
Geographic Area	Inadequate Physical Activity^a		
	N	%	95% Confidence Interval
Michigan Total	20,974	49.1	(48.2-50.1)
Region 1	9,426	50.2	(48.7-51.6)
Livingston	328	48.9	(42.0-55.9)
Macomb	1,179	48.8	(45.0-52.6)
Monroe	242	48.1	(40.7-55.6)
Oakland	2,199	49.8	(46.9-52.8)
St. Clair	305	48.6	(41.7-55.6)
Washtenaw	615	43.6	(38.4-48.9)
City of Detroit	2,519	57.0	(53.9-60.1)
Wayne exc. Detroit	2,019	49.8	(46.7-52.9)
Region 2	1,314	47.8	(44.0-51.5)
Genesee	985	47.9	(43.5-52.4)
Lapeer	168	49.9	(40.6-59.1)
Shiawassee	161	45.3	(35.7-55.3)
Region 3	562	51.4	(46.0-56.7)
Jackson	355	52.3	(45.6-59.0)
Lenawee	207	49.7	(41.0-58.5)
Region 4	1,156	47.5	(43.7-51.3)
Barry-Eaton	364	46.5	(40.1-53.0)
Mid-Michigan ^b	464	47.1	(41.3-53.0)
Ingham	529	49.5	(43.6-55.5)
Region 5	1,041	49.1	(45.4-52.9)
Branch-Hillsdale-St. Joseph	289	47.5	(40.5-54.5)
Calhoun	247	51.3	(43.5-59.0)
Kalamazoo	505	49.2	(43.7-54.6)
Region 6	733	48.2	(43.3-53.1)
Van Buren-Cass	254	44.8	(36.9-52.9)
Berrien	479	50.7	(44.7-56.7)
Region 7	2,086	48.3	(45.5-51.1)
Allegan	194	42.7	(34.5-51.3)
Ionia	114	46.8	(36.3-57.6)
Kent	1,068	49.6	(45.6-53.6)
Mid-Michigan ^b	464	47.1	(41.3-53.0)
Ottawa	509	47.3	(41.6-53.0)

Table 12 Cont'd			
Geographic Area	Inadequate Physical Activity^a		
	N	%	95% Confidence Interval
Michigan Total	20,974	49.1	(48.2-50.1)
Region 8	1,068	48.4	(44.4-52.3)
District #10	639	47.8	(42.9-52.8)
Muskegon	429	49.3	(42.8-55.9)
Region 9	1,014	45.9	(42.1-49.8)
District #2	196	52.9	(44.2-61.5)
District #4	225	47.3	(39.9-54.9)
Northwest Michigan	307	43.6	(36.5-51.0)
Benzie-Leelanau	92	41.4	(29.5-54.3)
Grand Traverse	194	43.6	(34.9-52.7)
Region 10	1,132	54.0	(49.8-58.1)
Bay	242	56.7	(46.8-66.1)
Huron	73	55.6	(40.9-69.4)
Saginaw	594	55.5	(49.8-61.0)
Sanilac	105	42.0	(31.2-53.6)
Tuscola	118	50.7	(39.7-61.6)
Region 11	617	45.8	(40.7-51.0)
Central Michigan	417	47.4	(41.1-53.9)
Midland	200	42.5	(34.0-51.5)
Region 12	816	46.0	(41.6-50.4)
Luce-Mackinac-Alger-Schoolcraft	113	34.8	(25.1-26.1)
Western Upper Peninsula	178	42.4	(33.5-51.8)
Delta-Menominee	160	55.2	(45.3-64.7)
Chippewa	101	46.8	(33.9-60.1)
Dickinson-Iron	108	50.6	(39.2-61.9)
Marquette	156	44.6	(34.9-54.6)

^a The proportion who reported that they do not usually do moderate physical activities for a total of at least 30 minutes on five or more days per week or vigorous physical activities for a total of at least 20 minutes on three or more days per week while not at work.

^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 13: Inadequate Fruit and Vegetable Consumption Michigan BRFSS, 2007-2009 Combined			
Geographic Area	Inadequate Fruit and Vegetable Consumption^a		
	N	%	95% Confidence Interval
Michigan Total	22,360	78.2	(77.5-78.9)
Region 1	10,030	76.2	(75.0-77.3)
Livingston	346	78.2	(72.4-83.0)
Macomb	1,251	78.0	(75.0-80.7)
Monroe	261	78.0	(71.4-83.4)
Oakland	2,329	74.7	(72.3-77.1)
St. Clair	329	80.2	(74.6-84.8)
Washtenaw	646	73.4	(69.1-77.3)
City of Detroit	2,702	76.4	(73.8-78.7)
Wayne exc. Detroit	2,140	76.0	(73.5-78.4)
Region 2	1,394	82.0	(79.1-84.6)
Genesee	1,044	82.0	(78.4-85.0)
Lapeer	178	84.0	(75.6-89.9)
Shiawassee	172	80.6	(72.2-86.9)
Region 3	592	80.2	(75.9-84.0)
Jackson	374	81.4	(76.3-85.6)
Lenawee	218	78.2	(69.6-84.9)
Region 4	1,225	79.6	(76.4-82.6)
Barry-Eaton	388	81.7	(76.5-86.0)
Mid-Michigan ^b	505	83.0	(78.7-86.6)
Ingham	552	76.1	(70.5-80.9)
Region 5	1,108	80.9	(78.1-83.5)
Branch-Hillsdale-St. Joseph	313	82.8	(77.3-87.1)
Calhoun	259	81.4	(75.5-86.1)
Kalamazoo	536	79.6	(75.3-83.4)
Region 6	794	79.9	(75.9-83.3)
Van Buren-Cass	274	81.6	(74.4-87.2)
Berrien	520	78.5	(73.7-82.6)

Table 13 Cont'd			
Geographic Area	Inadequate Fruit and Vegetable Consumption^a		
	N	%	95% Confidence Interval
Michigan Total	22,360	78.2	(77.5-78.9)
Region 7	2,217	79.6	(77.3-81.8)
Allegan	211	80.6	(73.5-86.1)
Ionia	121	77.5	(67.4-85.1)
Kent	1,130	77.2	(73.6-80.5)
Mid-Michigan ^b	505	83.0	(78.7-86.6)
Ottawa	535	83.8	(79.7-87.3)
Region 8	1,147	79.7	(76.6-82.4)
District #10	691	77.7	(73.8-81.3)
Muskegon	456	83.0	(76.2-86.9)
Region 9	1,079	75.9	(72.6-78.9)
District #2	204	80.2	(72.5-86.2)
District #4	242	76.6	(69.2-82.7)
Northwest Michigan	324	76.4	(70.2-81.7)
Benzie-Leelanau	99	73.4	(61.2-82.8)
Grand Traverse	210	71.5	(63.7-78.1)
Region 10	1,211	79.2	(75.4-82.5)
Bay	256	77.7	(67.2-85.5)
Huron	79	78.3	(65.7-87.2)
Saginaw	636	80.6	(75.6-84.7)
Sanilac	114	77.3	(65.9-85.8)
Tuscola	126	79.4	(69.0-87.0)
Region 11	661	79.7	(75.2-83.6)
Central Michigan	454	82.3	(77.2-86.5)
Midland	207	74.2	(65.2-81.5)
Region 12	891	79.0	(75.5-82.1)
Luce-Mackinac-Alger-Schoolcraft	121	69.0	(56.5-79.3)
Western Upper Peninsula	196	75.9	(68.2-82.2)
Delta-Menominee	175	83.8	(76.5-89.2)
Chippewa	112	83.2	(72.7-90.2)
Dickinson-Iron	123	79.7	(71.1-86.2)
Marquette	164	80.8	(72.4-87.1)

^a The proportion whose total reported consumption of fruits (including juice) and vegetables was less than five times per day.

^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 14: Cigarette Smoking
 Michigan BRFSS, 2007-2009 Combined**

Geographic Area	Sample Size	Current Smoking ^a		Former Smoking ^b		Never Smoked	
		N	%	95% Confidence Interval	%	95% Confidence Interval	%
Michigan Total	26,086	20.3	(19.6-21.0)	25.4	(24.8-26.1)	54.2	(53.4-55.1)
Region 1	11,711	19.2	(18.2-20.3)	25.4	(24.4-26.5)	55.4	(54.1-56.6)
Livingston	393	17.7	(13.1-23.6)	31.1	(25.9-36.8)	51.2	(44.8-57.5)
Macomb	1,470	19.7	(17.2-22.5)	27.6	(24.9-30.4)	52.7	(49.3-56.1)
Monroe	320	17.1	(12.6-22.9)	32.6	(26.8-38.9)	50.3	(43.5-57.1)
Oakland	2,679	15.7	(13.8-17.9)	26.1	(24.1-28.3)	58.1	(55.5-60.7)
St. Clair	384	24.7	(19.6-30.5)	27.6	(22.7-33.1)	47.8	(41.6-54.0)
Washtenaw	740	13.5	(10.4-17.3)	20.1	(17.1-23.5)	66.4	(62.0-70.6)
City of Detroit	3,164	24.0	(21.8-26.5)	18.2	(16.5-20.0)	57.8	(55.1-60.4)
Wayne exc. Detroit	2,502	20.6	(18.4-23.1)	27.8	(25.6-30.2)	51.5	(48.8-54.3)
Region 2	1,656	20.9	(18.3-23.8)	25.3	(22.8-27.9)	53.8	(50.4-57.2)
Genesee	1,256	21.6	(18.5-25.2)	24.5	(21.7-27.6)	53.9	(49.9-57.8)
Lapeer	204	18.8	(13.0-26.4)	32.3	(25.3-40.2)	48.9	(40.5-57.3)
Shiawassee	196	19.3	(13.1-27.6)	22.6	(16.5-30.2)	58.0	(48.7-66.8)
Region 3	689	19.3	(15.6-23.7)	29.4	(25.4-33.7)	51.3	(46.6-56.1)
Jackson	441	21.5	(16.5-27.6)	30.0	(25.0-35.4)	48.5	(42.6-54.5)
Lenawee	248	15.2	(10.9-21.0)	28.3	(22.0-35.5)	56.5	(48.7-64.0)
Region 4	1,445	19.9	(17.1-23.1)	23.3	(20.9-26.0)	56.7	(53.3-60.1)
Barry-Eaton	458	25.6	(20.6-31.3)	21.6	(17.6-26.3)	52.8	(47.0-58.5)
Mid-Michigan ^c	594	20.5	(16.7-25.0)	23.1	(19.5-27.3)	56.3	(51.2-61.3)
Ingham	653	15.5	(11.4-20.8)	24.5	(20.7-28.7)	59.9	(54.6-65.1)
Region 5	1,284	21.8	(18.8-25.1)	23.9	(21.3-26.7)	54.3	(50.8-57.8)
Branch-Hillsdale-St. Joseph	354	19.1	(14.4-24.9)	26.4	(21.3-32.3)	54.5	(47.9-60.8)
Calhoun	313	25.9	(19.7-33.2)	20.7	(16.1-26.3)	53.4	(46.1-60.6)
Kalamazoo	617	21.3	(17.0-26.5)	24.0	(20.3-28.1)	54.7	(49.5-59.7)
Region 6	929	18.0	(15.0-21.5)	25.3	(22.0-28.8)	56.7	(52.5-60.9)
Van Buren-Cass	327	21.5	(16.3-27.8)	25.5	(20.3-31.5)	53.0	(45.9-60.0)
Berrien	602	15.2	(11.9-19.3)	25.1	(21.0-29.6)	59.7	(54.5-64.7)
Region 7	2,587	16.7	(14.8-18.8)	24.4	(22.4-26.6)	58.8	(56.3-61.3)
Allegan	241	21.9	(15.7-29.7)	29.4	(21.4-38.8)	48.7	(40.2-57.3)
Ionia	146	15.5	(9.2-25.0)	20.8	(14.5-29.0)	63.7	(53.7-72.6)
Kent	1,313	16.2	(13.5-19.2)	24.4	(21.6-27.5)	59.4	(55.8-66.0)
Mid-Michigan ^c	594	20.5	(16.7-25.0)	23.1	(19.5-27.3)	56.3	(51.2-61.3)
Ottawa	627	14.8	(11.2-19.4)	24.1	(20.2-28.6)	61.0	(55.8-66.0)

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Table 14 Cont'd							
Geographic Area	Sample Size	Current Smoking ^a		Former Smoking ^b		Never Smoked	
	N	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
Michigan Total	26,086	20.3	(19.6-21.0)	25.4	(24.8-26.1)	54.2	(53.4-55.1)
Region 8	1,344	25.5	(22.4-28.9)	24.7	(22.0-27.5)	49.8	(46.2-53.3)
District #10	811	25.1	(21.3-29.4)	25.3	(22.0-28.9)	49.6	(45.1-54.0)
Muskegon	533	26.3	(21.2-32.2)	23.6	(19.3-28.5)	50.1	(44.2-56.0)
Region 9	1,241	23.5	(20.6-26.8)	28.4	(25.6-31.4)	48.0	(44.5-51.6)
District #2	243	26.7	(20.0-34.7)	30.9	(24.6-38.1)	42.4	(34.9-50.2)
District #4	276	25.7	(19.8-32.7)	28.9	(23.4-35.1)	45.4	(38.6-52.4)
Northwest Michigan	372	27.6	(22.0-33.9)	26.4	(21.7-31.7)	46.0	(39.5-52.7)
Benzie-Leelanau	119	10.4	(5.3-19.4)	28.7	(19.7-39.8)	60.9	(49.5-71.3)
Grand Traverse	231	18.1	(12.5-25.4)	28.6	(22.2-36.0)	53.3	(44.9-61.5)
Region 10	1,404	22.1	(18.9-25.7)	26.8	(23.9-29.9)	51.0	(47.3-54.8)
Bay	297	28.0	(20.3-37.3)	23.2	(18.0-29.3)	48.8	(40.4-57.3)
Huron	97	18.7	(9.3-33.9)	29.0	(19.8-40.4)	52.3	(39.7-64.7)
Saginaw	740	19.5	(15.7-24.0)	28.4	(24.2-33.1)	52.1	(47.0-57.1)
Sanilac	130	26.5	(17.6-37.7)	33.5	(24.2-44.2)	40.0	(30.4-50.5)
Tuscola	140	17.3	(11.1-25.9)	22.3	(15.3-31.2)	60.4	(50.2-69.8)
Region 11	748	26.8	(22.4-31.6)	25.9	(22.4-29.7)	47.4	(42.6-52.1)
Central Michigan	516	27.9	(22.7-33.7)	29.5	(25.0-34.5)	42.6	(36.9-48.5)
Midland	232	24.4	(17.1-33.6)	18.0	(13.1-24.2)	57.6	(49.1-65.7)
Region 12	1,029	24.8	(21.2-28.7)	26.8	(23.8-30.2)	48.4	(44.4-52.5)
Luce-Mackinac-Alger-Schoolcraft	141	29.3	(19.3-41.9)	19.7	(13.7-27.7)	50.9	(40.0-61.7)
Western Upper Peninsula	221	16.6	(11.4-23.5)	30.6	(23.6-38.4)	52.8	(43.6-61.8)
Delta-Menominee	214	31.9	(23.9-41.3)	20.3	(15.3-26.5)	47.7	(39.3-56.3)
Chippewa	123	25.1	(16.1-36.9)	24.1	(16.1-34.4)	50.8	(39.1-62.4)
Dickinson-Iron	141	26.2	(17.6-37.3)	24.5	(17.6-32.9)	49.3	(39.4-59.3)
Marquette	189	21.2	(14.2-30.4)	38.1	(29.8-47.2)	40.7	(32.3-49.7)

^a The proportion 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 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.

**Table 15: Alcohol Consumption
 Michigan BRFSS, 2007-2009 Combined**

Geographic Area	Heavy Drinking ^a			Binge Drinking ^b		
	N	%	95% Confidence Interval	N	%	95% Confidence Interval
Michigan Total	25,320	5.6	(5.2-6.0)	25,561	17.6	(16.9-18.3)
Region 1	11,351	5.5	(4.9-6.1)	11,468	17.6	(16.5-18.7)
Livingston	372	9.5	(6.1-14.3)	377	19.4	(14.4-25.6)
Macomb	1,427	6.7	(5.0-8.9)	1,446	22.0	(19.1-25.2)
Monroe	312	3.5	(1.9-6.4)	313	20.3	(15.0-27.0)
Oakland	2,600	4.8	(3.7-6.1)	2,633	16.5	(14.4-18.8)
St. Clair	375	9.3	(5.8-14.5)	380	17.8	(13.1-23.6)
Washtenaw	726	5.9	(4.1-8.4)	730	14.2	(10.9-18.4)
City of Detroit	3,069	4.2	(3.2-5.5)	3,099	12.8	(11.0-15.0)
Wayne exc. Detroit	2,438	5.1	(4.1-6.4)	2,457	19.4	(17.2-21.9)
Region 2	1,597	4.0	(2.8-5.6)	1,615	16.0	(13.4-18.9)
Genesee	1,212	5.1	(3.5-7.3)	1,224	16.2	(13.3-19.6)
Lapeer	194	1.2	(0.3-4.7)	196	15.6	(9.6-24.3)
Shiawassee	191	1.1	(0.4-3.2)	195	15.3	(9.3-24.2)
Region 3	681	5.6	(3.4-9.0)	688	19.6	(15.4-24.7)
Jackson	437	4.6	(2.6-8.1)	440	17.9	(12.8-24.5)
Lenawee	244	7.3	(3.2-15.8)	248	22.6	(15.8-31.3)
Region 4	1,407	4.8	(3.4-6.9)	1,424	16.6	(13.8-19.8)
Barry-Eaton	441	4.9	(2.9-8.2)	448	17.9	(13.4-23.5)
Mid-Michigan ^c	587	4.5	(2.6-7.6)	586	15.1	(11.5-19.6)
Ingham	638	5.2	(2.9-9.3)	647	16.3	(11.9-21.8)
Region 5	1,242	4.5	(3.2-6.4)	1,260	14.2	(11.6-17.2)
Branch-Hillsdale-St. Joseph	346	3.2	(1.4-7.0)	347	12.7	(8.8-18.0)
Calhoun	301	3.4	(1.9-6.2)	304	12.3	(8.0-18.4)
Kalamazoo	595	5.9	(3.6-9.3)	609	16.0	(12.1-20.9)
Region 6	901	5.4	(3.7-7.8)	908	16.8	(13.5-20.8)
Van Buren-Cass	322	4.1	(2.1-7.8)	322	19.6	(13.9-26.9)
Berrien	579	6.5	(4.2-10.1)	586	14.6	(11.0-19.2)
Region 7	2,518	5.3	(4.2-6.7)	2,543	17.5	(15.5-19.7)
Allegan	235	8.2	(4.6-14.2)	237	17.2	(11.8-24.4)
Ionia	143	4.1	(1.7-9.9)	144	22.1	(14.4-32.4)
Kent	1,280	4.8	(3.4-6.6)	1,295	17.1	(14.4-20.2)
Mid-Michigan ^c	587	4.5	(2.6-7.6)	586	15.1	(11.5-19.6)
Ottawa	601	5.7	(3.6-9.0)	610	18.4	(14.3-23.3)

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Table 15 Cont'd						
Geographic Area	Heavy Drinking^a			Binge Drinking^b		
	N	%	95% Confidence Interval	N	%	95% Confidence Interval
Michigan Total	25,320	5.6	(5.2-6.0)	25,561	17.6	(16.9-18.3)
Region 8	1,295	7.2	(5.4-9.5)	1,305	20.1	(17.0-23.5)
District #10	784	7.2	(4.9-10.4)	788	18.6	(14.9-22.9)
Muskegon	511	7.1	(4.6-10.8)	517	22.6	(17.5-28.8)
Region 9	1,208	7.4	(5.7-9.5)	1,213	18.5	(15.7-21.8)
District #2	233	7.1	(3.8-13.1)	235	17.6	(11.8-25.4)
District #4	269	5.3	(3.0-9.1)	271	18.9	(13.8-25.5)
Northwest Michigan	364	8.4	(5.3-13.0)	364	20.4	(15.1-26.9)
Benzie-Leelanau	117	9.2	(4.4-18.4)	116	19.4	(10.5-33.1)
Grand Traverse	225	7.1	(4.1-12.2)	227	15.5	(10.0-23.3)
Region 10	1,373	4.7	(3.4-6.6)	1,377	17.5	(14.7-20.6)
Bay	293	4.3	(2.3-8.1)	291	17.1	(12.1-23.7)
Huron	96	3.1	(1.0-9.7)	96	16.6	(9.0-28.6)
Saginaw	718	5.8	(3.5-9.3)	721	18.2	(14.0-23.3)
Sanilac	126	2.1	(0.5-9.2)	128	18.5	(11.5-28.4)
Tuscola	140	4.5	(2.0-10.0)	141	15.3	(8.9-25.0)
Region 11	732	6.3	(3.9-10.0)	737	16.5	(12.9-20.9)
Central Michigan	503	7.1	(4.1-12.1)	507	16.5	(12.4-21.6)
Midland	229	4.7	(1.8-11.4)	230	16.6	(10.3-25.6)
Region 12	997	8.1	(5.9-11.0)	1,004	22.6	(19.2-26.4)
Luce-Mackinac-Alger-Schoolcraft	136	11.4	(5.0-23.9)	137	23.2	(14.5-34.9)
Western Upper Peninsula	214	8.6	(5.0-14.6)	216	25.8	(19.1-34.0)
Delta-Menominee	207	5.9	(2.8-12.0)	209	26.6	(19.0-35.9)
Chippewa	119	13.4	(5.7-28.2)	119	29.9	(19.0-43.7)
Dickinson-Iron	135	3.1	(1.2-7.5)	138	14.8	(8.9-23.6)
Marquette	186	7.6	(4.0-13.8)	185	14.5	(9.3-21.8)

^a The proportion who reported consuming on average more than two alcoholic beverages per day for men or more than one alcoholic beverage per day for women.

^b The proportion who reported consuming five or more drinks per occasion at least once in the previous month.

^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.

Table 16: Hypertension Awareness Michigan BRFSS, 2007 and 2009 Combined			
Geographic Area	Ever Told HBP^a		
	N	%	95% Confidence Interval
Michigan Total	16,700	29.8	(28.9-30.7)
Region 1	7,561	29.7	(28.4-31.1)
Livingston	224	27.0	(21.3-33.6)
Macomb	940	30.2	(26.7-33.9)
Monroe	207	31.9	(24.8-39.8)
Oakland	1,726	27.3	(24.7-30.2)
St. Clair	258	37.8	(31.0-45.2)
Washtenaw	469	21.1	(16.8-26.1)
City of Detroit	2,069	38.2	(35.1-41.5)
Wayne exc. Detroit	1,626	27.4	(24.8-30.2)
Region 2	1,058	31.7	(28.3-35.4)
Genesee	799	32.1	(28.1-36.4)
Lapeer	135	33.8	(25.0-44.0)
Shiawassee	124	28.1	(19.9-38.0)
Region 3	429	35.6	(30.1-41.5)
Jackson	275	35.9	(28.8-43.6)
Lenawee	154	35.0	(27.0-44.0)
Region 4	915	27.8	(24.4-31.6)
Barry-Eaton	296	29.8	(24.1-36.2)
Mid-Michigan ^b	375	27.5	(22.7-32.9)
Ingham	406	25.2	(19.9-31.4)
Region 5	808	31.5	(27.9-35.3)
Branch-Hillsdale-St. Joseph	221	26.9	(21.1-33.7)
Calhoun	196	37.1	(29.7-45.1)
Kalamazoo	391	31.6	(26.4-37.4)
Region 6	604	30.3	(25.8-35.1)
Van Buren-Cass	207	29.2	(22.0-37.6)
Berrien	397	31.1	(25.9-36.9)
Region 7	1,635	25.1	(22.5-27.8)
Allegan	151	24.7	(17.7-33.3)
Ionia	92	27.1	(18.1-38.6)
Kent	841	26.0	(22.6-29.8)
Mid-Michigan ^b	375	27.5	(22.7-32.9)
Ottawa	389	23.1	(17.4-30.0)

Table 16 Cont'd			
Geographic Area	Ever Told HBP^a		
	N	%	95% Confidence Interval
Michigan Total	16,700	29.8	(28.9-30.7)
Region 8	859	33.5	(29.6-37.6)
District #10	508	32.2	(27.7-37.0)
Muskegon	351	35.7	(28.9-43.0)
Region 9	789	30.8	(27.1-34.6)
District #2	148	35.2	(26.7-44.8)
District #4	174	35.4	(27.8-43.8)
Northwest Michigan	243	30.2	(23.9-37.5)
Benzie-Leelanau	68	30.6	(19.9-44.0)
Grand Traverse	156	22.9	(16.4-31.1)
Region 10	891	30.2	(26.5-34.2)
Bay	186	27.2	(20.0-35.9)
Huron	54	31.9	(19.5-47.6)
Saginaw	478	31.8	(26.6-37.4)
Sanilac	81	34.7	(23.2-48.4)
Tuscola	92	26.8	(17.9-38.3)
Region 11	480	27.9	(23.6-32.6)
Central Michigan	332	28.5	(23.3-34.3)
Midland	148	26.6	(19.6-35.0)
Region 12	671	32.9	(28.6-37.5)
Luce-Mackinac-Alger-Schoolcraft	91	41.8	(29.0-55.8)
Western Upper Peninsula	147	34.1	(25.1-44.3)
Delta-Menominee	134	32.5	(23.4-43.1)
Chippewa	80	26.0	(16.8-38.0)
Dickinson-Iron	92	25.7	(16.6-37.5)
Marquette	127	34.9	(25.3-45.8)

^a Proportion who reported that they were ever told by a doctor that they have high blood pressure (HBP). Women who had HBP only during pregnancy and adults who were borderline hypertensive were considered to not have been diagnosed.

^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 17: Cholesterol Screening and Awareness
 Michigan BRFSS, 2007 and 2009 Combined**

Geographic Area	Cholesterol Ever Checked ^a			Ever Told High Cholesterol ^b		
	N	%	95% Confidence Interval	N	%	95% Confidence Interval
Michigan Total	16,477	82.9	(81.9-83.9)	14,823	39.3	(38.3-40.3)
Region 1	7,479	85.5	(83.9-86.9)	6,826	38.6	(37.1-40.2)
Livingston	242	82.4	(73.3-88.9)	220	41.8	(34.6-49.4)
Macomb	928	85.5	(81.3-88.9)	856	39.8	(35.8-43.9)
Monroe	202	89.1	(81.4-93.8)	185	38.5	(30.6-47.0)
Oakland	1,707	88.8	(85.7-91.3)	1,601	41.7	(38.4-45.0)
St. Clair	258	83.6	(75.6-89.3)	232	46.2	(38.6-54.1)
Washtenaw	463	85.4	(78.5-90.4)	429	26.6	(22.1-31.6)
City of Detroit	2,048	81.7	(77.6-85.2)	1,824	36.7	(33.7-39.9)
Wayne exc. Detroit	1,604	84.9	(81.2-87.9)	1,455	38.0	(34.8-41.3)
Region 2	1,038	83.2	(79.0-86.7)	930	39.8	(35.9-43.9)
Genesee	783	81.3	(76.2-85.6)	696	39.3	(34.7-44.1)
Lapeer	134	94.8	(86.1-98.1)	128	36.6	(27.5-46.8)
Shiawassee	121	81.4	(67.9-90.1)	106	45.6	(34.3-57.4)
Region 3	424	86.9	(80.6-91.4)	392	45.2	(39.3-51.3)
Jackson	271	88.0	(79.8-93.1)	251	42.0	(34.6-49.6)
Lenawee	153	84.9	(73.1-92.1)	141	51.6	(42.1-61.0)
Region 4	901	79.0	(74.0-83.2)	805	38.1	(34.1-42.2)
Barry-Eaton	294	76.9	(68.5-83.6)	259	39.8	(33.0-47.1)
Mid-Michigan ^c	370	78.7	(71.2-84.7)	329	42.2	(35.9-48.7)
Ingham	399	81.6	(72.9-87.9)	362	35.1	(29.3-41.4)
Region 5	795	84.4	(80.4-87.7)	714	39.8	(35.6-44.1)
Branch-Hillsdale-St. Joseph	218	85.9	(78.8-90.9)	194	40.9	(32.9-49.5)
Calhoun	195	87.5	(79.1-92.8)	177	43.4	(35.1-52.0)
Kalamazoo	382	82.1	(75.5-87.2)	343	37.3	(31.5-43.4)
Region 6	597	84.9	(80.0-88.8)	529	38.5	(33.1-44.2)
Van Buren-Cass	205	85.4	(77.0-91.1)	182	45.4	(35.9-55.2)
Berrien	392	84.5	(78.1-89.3)	347	33.0	(29.1-49.0)
Region 7	1,601	81.4	(77.9-84.4)	1,431	35.9	(32.9-39.1)
Allegan	145	78.8	(61.9-89.5)	128	38.6	(29.1-49.0)
Ionia	90	76.2	(60.2-87.1)	77	42.5	(30.7-55.1)
Kent	825	80.9	(75.9-85.0)	742	36.3	(32.0-40.8)
Mid-Michigan ^c	370	78.7	(71.2-84.7)	329	42.2	(35.9-48.7)
Ottawa	379	85.0	(78.6-89.7)	339	29.9	(24.4-36.1)

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Table 17 Cont'd

Geographic Area	Cholesterol Ever Checked ^a			Ever Told High Cholesterol ^b		
	N	%	95% Confidence Interval	N	%	95% Confidence Interval
Michigan Total	16,477	82.9	(81.9-83.9)	14,823	39.3	(38.3-40.3)
Region 8	844	79.5	(74.5-83.7)	739	43.5	(39.2-48.0)
District #10	499	75.5	(69.0-81.1)	430	46.3	(40.8-51.9)
Muskegon	345	85.9	(77.8-91.4)	309	39.4	(32.7-46.6)
Region 9	778	81.8	(77.3-85.6)	688	41.2	(36.8-45.7)
District #2	144	82.5	(71.1-90.1)	127	48.4	(38.1-58.8)
District #4	170	88.0	(80.4-92.9)	154	44.7	(35.7-54.0)
Northwest Michigan	241	79.3	(70.6-86.0)	208	41.1	(33.1-49.6)
Benzie-Leelanau	68	77.1	(59.1-88.7)	59	31.9	(20.3-46.3)
Grand Traverse	155	81.4	(69.3-89.5)	140	34.8	(26.2-44.5)
Region 10	882	81.6	(76.9-85.4)	783	41.9	(37.1-46.9)
Bay	184	81.3	(71.2-88.5)	162	40.9	(2.98-53.0)
Huron	52	87.3	(60.7-96.9)	50	37.3	(22.9-54.3)
Saginaw	475	84.4	(77.7-89.4)	425	40.6	(34.5-47.0)
Sanilac	79	72.7	(55.3-85.1)	68	45.6	(32.8-59.0)
Tuscola	92	75.5	(60.6-86.0)	80	49.8	(36.8-62.9)
Region 11	476	69.7	(62.4-76.1)	409	43.4	(37.9-49.0)
Central Michigan	329	68.9	(60.0-76.6)	279	46.4	(39.6-53.4)
Midland	147	71.4	(57.9-81.9)	130	37.3	(28.6-46.9)
Region 12	662	78.7	(73.0-83.5)	577	40.7	(35.9-45.7)
Luce-Mackinac-Alger-Schoolcraft	87	81.9	(66.4-91.2)	77	35.4	(23.6-49.3)
Western Upper Peninsula	146	75.7	(59.4-86.8)	128	37.6	(28.5-47.7)
Delta-Menominee	132	70.3	(57.2-80.8)	110	43.0	(31.2-53.0)
Chippewa	79	74.9	(58.0-86.6)	66	43.0	(29.2-58.1)
Dickinson-Iron	91	89.3	(79.0-94.9)	80	44.5	(32.0-57.7)
Marquette	127	84.8	(71.4-92.5)	116	42.4	(31.7-53.8)

^a Among all adults, the proportion who reported ever having had their blood cholesterol checked.

^b Among those who ever had their blood cholesterol checked, the proportion who reported that a doctor, nurse, or other health professional had told them that their cholesterol was high.

^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.

Table 18: No Routine Checkup in Past Year Michigan BRFSS, 2007-2009 Combined			
Geographic Area	Had No Routine Checkup in Past Year^a		
	N	%	95% Confidence Interval
Michigan Total	25,875	31.2	(30.4-32.0)
Region 1	11,633	30.1	(28.8-31.3)
Livingston	387	34.6	(28.6-41.1)
Macomb	1,460	31.6	(28.4-34.9)
Monroe	315	28.4	(22.3-35.3)
Oakland	2,669	28.8	(26.4-31.4)
St. Clair	377	42.1	(35.8-48.6)
Washtenaw	735	34.1	(29.6-38.9)
City of Detroit	3,147	24.4	(21.7-27.4)
Wayne exc. Detroit	2,484	30.4	(27.8-33.1)
Region 2	1,638	30.9	(27.5-34.5)
Genesee	1,248	30.3	(26.2-34.6)
Lapeer	200	33.8	(25.9-42.9)
Shiawassee	190	31.0	(22.9-40.5)
Region 3	683	36.1	(31.4-41.0)
Jackson	434	37.0	(31.2-43.3)
Lenawee	249	34.4	(26.9-42.8)
Region 4	1,426	33.8	(30.4-37.3)
Barry-Eaton	450	39.0	(33.2-45.1)
Mid-Michigan ^b	590	30.8	(26.1-35.9)
Ingham	646	31.9	(26.8-37.5)
Region 5	1,277	30.4	(27.1-34.0)
Branch-Hillsdale-St. Joseph	351	33.0	(26.9-39.8)
Calhoun	309	26.1	(19.8-33.6)
Kalamazoo	617	31.1	(26.3-36.2)
Region 6	918	33.8	(29.6-38.4)
Van Buren-Cass	325	41.4	(34.3-48.9)
Berrien	593	27.8	(23.1-32.9)
Region 7	2,573	31.3	(28.9-33.8)
Allegan	239	33.2	(25.7-41.7)
Ionia	144	34.5	(25.6-44.6)
Kent	1,308	29.3	(26.0-32.7)
Mid-Michigan ^b	590	30.8	(26.1-35.9)
Ottawa	622	33.8	(28.9-39.2)

Table 18 Cont'd			
Geographic Area	Had No Routine Checkup in Past Year^a		
	N	%	95% Confidence Interval
Michigan Total	25,875	31.2	(30.4-32.0)
Region 8	1,327	29.2	(25.9-32.7)
District #10	799	28.8	(24.8-33.1)
Muskegon	528	29.9	(24.3-36.1)
Region 9	1,235	30.0	(26.7-33.5)
District #2	239	34.6	(27.4-42.7)
District #4	276	31.7	(25.2-39.0)
Northwest Michigan	370	28.8	(23.0-35.3)
Benzie-Leelanau	120	29.4	(19.7-41.5)
Grand Traverse	230	25.7	(18.5-34.4)
Region 10	1,394	30.0	(26.7-33.5)
Bay	293	32.7	(25.4-40.8)
Huron	98	32.7	(22.0-45.6)
Saginaw	737	29.4	(24.8-34.6)
Sanilac	126	26.6	(18.5-36.7)
Tuscola	140	26.9	(18.7-37.2)
Region 11	742	35.7	(31.1-40.5)
Central Michigan	513	35.8	(30.4-41.6)
Midland	229	35.3	(27.2-44.4)
Region 12	1,010	37.4	(33.5-41.5)
Luce-Mackinac-Alger-Schoolcraft	141	41.3	(31.1-52.2)
Western Upper Peninsula	219	34.3	(26.6-43.1)
Delta-Menominee	206	42.4	(33.7-51.6)
Chippewa	121	42.9	(31.3-55.5)
Dickinson-Iron	135	35.1	(25.8-45.7)
Marquette	188	30.2	(22.1-39.8)

^a The proportion 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.

**Table 19: Immunizations Among Adults Aged 65 Years and Older
 Michigan BRFSS, 2007-2009 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	7,949	69.9	(68.7-71.0)	7,729	65.9	(64.6-67.1)
Region 1	3,515	68.7	(66.8-70.5)	3,400	63.8	(61.8-65.7)
Livingston	104	61.9	(51.1-71.6)	103	61.0	(50.2-70.8)
Macomb	452	71.3	(66.4-75.7)	434	68.2	(63.1-72.8)
Monroe	96	70.9	(60.3-79.6)	97	65.5	(54.7-75.0)
Oakland	832	73.2	(69.6-76.6)	801	65.8	(61.8-69.5)
St. Clair	107	59.0	(48.7-68.6)	107	60.2	(49.9-69.6)
Washtenaw	177	77.0	(69.3-83.2)	168	70.5	(62.2-77.6)
City of Detroit	958	53.0	(48.9-57.2)	921	48.0	(43.7-52.2)
Wayne exc. Detroit	768	71.7	(67.7-75.4)	749	67.7	(63.5-71.6)
Region 2	480	65.3	(60.2-70.1)	461	64.4	(59.2-69.3)
Genesee	358	66.9	(60.9-72.3)	343	64.8	(58.7-70.4)
Lapeer	57	50.7	(37.1-64.2)	54	59.1	(44.6-72.1)
Shiawassee	65	70.8	(56.0-82.2)	64	67.1	(52.3-79.1)
Region 3	224	74.4	(67.8-80.0)	216	70.9	(64.1-77.0)
Jackson	150	75.6	(67.4-82.3)	145	74.5	(66.3-81.3)
Lenawee	74	71.9	(60.0-81.4)	71	63.8	(51.1-74.9)
Region 4	392	75.3	(70.5-79.5)	385	67.1	(61.8-72.0)
Barry-Eaton	116	68.5	(58.8-76.8)	113	63.3	(53.3-72.3)
Mid-Michigan ^c	168	72.0	(64.3-78.6)	163	63.1	(54.7-70.8)
Ingham	191	80.6	(74.0-85.8)	187	67.9	(60.2-74.7)
Region 5	398	71.0	(66.0-75.6)	387	70.3	(65.2-74.9)
Branch-Hillsdale-St. Joseph	114	67.0	(57.2-75.5)	109	71.0	(61.2-79.2)
Calhoun	96	66.1	(54.9-75.7)	93	70.6	(59.9-79.5)
Kalamazoo	188	76.1	(69.0-82.0)	185	69.7	(62.0-76.4)
Region 6	288	64.5	(57.6-70.9)	287	63.8	(57.0-70.1)
Van Buren-Cass	93	63.2	(51.3-73.6)	95	63.5	(52.0-73.7)
Berrien	195	65.4	(56.8-73.1)	192	64.0	(55.6-71.7)

Table 19 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	7,949	69.9	(68.7-71.0)	7,729	65.9	(64.6-67.1)
Region 7	718	71.6	(67.9-75.1)	698	67.5	(63.5-71.2)
Allegan	62	74.4	(61.7-84.0)	63	69.4	(55.8-80.4)
Ionia	35	--- ^c	--- ^c	36	--- ^c	--- ^c
Kent	371	71.0	(65.6-75.9)	359	70.3	(64.8-75.3)
Mid-Michigan ^c	168	72.0	(64.3-78.6)	163	63.1	(54.7-70.8)
Ottawa	167	73.7	(66.2-80.1)	162	67.0	(58.8-74.3)
Region 8	430	77.0	(72.2-81.3)	423	71.1	(66.0-75.7)
District #10	258	75.8	(69.5-81.2)	256	70.8	(64.4-76.5)
Muskegon	172	79.4	(71.4-85.6)	167	71.6	(62.8-79.0)
Region 9	415	75.7	(71.1-79.8)	408	68.7	(63.7-73.3)
District #2	87	77.6	(67.0-85.5)	86	59.4	(47.9-69.9)
District #4	98	73.0	(62.8-81.2)	98	75.2	(65.0-83.1)
Northwest Michigan	111	72.3	(62.6-80.3)	106	64.0	(53.7-73.1)
Benzie-Leelanau	47	--- ^c	--- ^c	45	--- ^c	--- ^c
Grand Traverse	72	82.3	(71.6-89.6)	73	73.3	(61.5-82.6)
Region 10	488	64.4	(59.2-69.2)	477	64.1	(58.9-69.0)
Bay	101	68.8	(57.4-78.3)	98	64.0	(52.8-73.8)
Huron	44	--- ^c	--- ^c	44	--- ^c	--- ^c
Saginaw	244	61.0	(53.0-68.4)	237	64.9	(56.7-72.3)
Sanilac	48	--- ^c	--- ^c	48	--- ^c	--- ^c
Tuscola	51	70.6	(56.4-81.6)	50	57.7	(43.0-71.1)
Region 11	234	75.9	(69.7-81.2)	232	69.0	(62.4-74.9)
Central Michigan	166	76.2	(68.7-82.3)	164	69.0	(61.1-76.0)
Midland	68	75.2	(63.0-84.4)	68	68.9	(56.2-79.3)
Region 12	356	62.9	(57.3-68.1)	343	64.2	(58.6-69.4)
Luce-Mackinac-Alger-Schoolcraft	46	--- ^c	--- ^c	42	--- ^c	--- ^c
Western Upper Peninsula	84	62.8	(51.1-73.2)	81	68.0	(56.4-77.8)
Delta-Menominee	80	60.5	(48.6-71.3)	80	60.6	(48.7-71.4)
Chippewa	41	--- ^c	--- ^c	39	--- ^c	--- ^c
Dickinson-Iron	50	57.6	(42.9-71.0)	48	--- ^c	--- ^c
Marquette	55	76.7	(62.4-86.7)	53	68.3	(53.8-79.9)

^a Among those 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 those 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 Sample size was too small (< 50) to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate.

Table 20: HIV Testing Among Adults Aged 18-64 Years Michigan BRFSS, 2007-2009 Combined			
Geographic Area	Ever Had an HIV Test^a		
	N	%	95% Confidence Interval
Michigan Total	17,101	38.0	(37.0-38.9)
Region 1	7,685	42.3	(40.8-43.8)
Livingston	270	29.5	(23.2-36.6)
Macomb	960	38.1	(34.3-42.1)
Monroe	213	37.3	(29.9-45.4)
Oakland	1,732	40.1	(37.0-43.3)
St. Clair	265	31.4	(25.1-38.3)
Washtenaw	543	37.4	(32.4-42.8)
City of Detroit	2,038	63.7	(60.2-67.0)
Wayne exc. Detroit	1,656	39.7	(36.5-43.0)
Region 2	1,098	38.9	(35.0-43.0)
Genesee	836	43.5	(38.7-48.4)
Lapeer	137	24.8	(17.4-34.1)
Shiawassee	125	29.5	(20.8-40.1)
Region 3	451	36.5	(31.1-42.3)
Jackson	284	36.6	(30.0-43.8)
Lenawee	167	36.3	(27.2-46.6)
Region 4	999	38.2	(34.3-42.1)
Barry-Eaton	325	33.8	(27.7-40.4)
Mid-Michigan ^b	404	34.2	(28.7-40.3)
Ingham	438	43.8	(37.4-50.0)
Region 5	833	36.3	(32.3-40.5)
Branch-Hillsdale-St. Joseph	234	32.4	(25.8-39.9)
Calhoun	197	44.1	(35.3-53.3)
Kalamazoo	402	34.8	(29.3-40.9)
Region 6	602	35.5	(30.6-40.8)
Van Buren-Cass	220	35.5	(27.5-44.4)
Berrien	382	35.5	(29.6-42.0)
Region 7	1,781	33.2	(30.4-36.1)
Allegan	171	38.6	(28.9-49.3)
Ionia	108	28.7	(19.7-39.7)
Kent	903	34.0	(30.0-38.2)
Mid-Michigan ^b	404	34.2	(28.7-40.3)
Ottawa	431	29.7	(24.7-35.6)

Table 20 Cont'd			
Geographic Area	Ever Had an HIV Test^a		
	N	%	95% Confidence Interval
Michigan Total	17,101	38.0	(37.0-38.9)
Region 8	857	32.1	(28.2-36.3)
District #10	527	30.5	(25.9-35.6)
Muskegon	330	34.8	(28.1-42.2)
Region 9	792	33.5	(29.6-37.7)
District #2	149	28.4	(20.4-38.1)
District #4	164	32.8	(25.2-41.4)
Northwest Michigan	256	38.8	(31.4-46.7)
Benzie-Leelanau	71	34.3	(23.2-47.5)
Grand Traverse	152	29.6	(21.6-39.2)
Region 10	879	33.7	(29.4-38.2)
Bay	190	32.8	(23.7-43.4)
Huron	48	--- ^c	--- ^c
Saginaw	471	37.3	(31.5-43.5)
Sanilac	80	28.9	(18.1-42.7)
Tuscola	90	29.6	(19.1-42.7)
Region 11	488	32.8	(27.8-38.3)
Central Michigan	330	32.4	(26.3-39.0)
Midland	158	33.8	(25.1-43.7)
Region 12	628	33.3	(28.7-38.1)
Luce-Mackinac-Alger-Schoolcraft	88	38.0	(25.6-52.1)
Western Upper Peninsula	127	27.5	(19.3-37.5)
Delta-Menominee	123	27.1	(18.5-37.9)
Chippewa	78	43.9	(30.6-58.2)
Dickinson-Iron	83	26.9	(16.8-40.1)
Marquette	129	38.2	(28.0-49.4)

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

^a Among those 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 Sample size was too small (< 50) to compute a prevalence in this subgroup, but respondents from this local health department were included in the regional prevalence estimate.

Table 21: Asthma
Michigan BRFSS, 2007-2009 Combined

Geographic Area	Ever Told Have Asthma ^a			Still Have Asthma ^b		
	N	%	95% Confidence Interval	N	%	95% Confidence Interval
Michigan Total	26,128	15.3	(14.6-15.9)	26,001	9.8	(9.3-10.3)
Region 1	11,137	16.0	(15.0-17.0)	11,681	10.4	(9.6-11.2)
Livingston	392	16.0	(11.6-21.8)	391	10.6	(7.3-15.2)
Macomb	1,475	14.1	(11.9-16.6)	1,467	9.4	(7.7-11.5)
Monroe	321	13.8	(9.5-19.5)	321	8.1	(4.8-13.3)
Oakland	2,684	13.7	(12.0-15.7)	2,676	8.9	(7.6-10.5)
St. Clair	383	17.7	(13.4-23.0)	379	12.1	(8.6-16.8)
Washtenaw	742	19.3	(15.6-23.6)	740	13.8	(10.5-17.9)
City of Detroit	3,172	18.7	(16.6-21.0)	3,154	13.0	(11.2-15.0)
Wayne exc. Detroit	2,506	16.5	(14.4-18.8)	2,492	9.7	(8.1-11.4)
Region 2	1,659	15.7	(13.0-19.0)	1,647	9.3	(7.1-12.0)
Genesee	1,259	16.6	(13.3-20.5)	1,248	9.5	(7.0-12.6)
Lapeer	204	13.2	(7.9-21.2)	203	5.3	(2.8-9.8)
Shiawassee	196	14.1	(7.7-24.4)	196	12.0	(6.0-22.6)
Region 3	692	14.9	(11.7-18.7)	687	9.5	(7.0-12.8)
Jackson	443	14.2	(10.5-18.9)	439	9.2	(6.2-13.3)
Lenawee	249	16.2	(10.9-23.4)	248	10.2	(6.2-16.3)
Region 4	1,446	13.6	(11.3-16.2)	1,441	8.6	(6.9-10.8)
Barry-Eaton	458	12.5	(9.4-16.6)	455	8.1	(5.6-11.6)
Mid-Michigan ^c	597	13.2	(9.8-17.4)	595	7.4	(4.9-10.9)
Ingham	653	14.5	(10.9-18.9)	652	9.3	(6.6-13.1)
Region 5	1,289	14.8	(12.4-17.5)	1,280	8.7	(6.9-10.9)
Branch-Hillsdale-St. Joseph	356	12.2	(8.6-17.0)	354	8.6	(5.5-13.2)
Calhoun	314	20.4	(15.2-26.8)	310	11.2	(7.6-16.2)
Kalamazoo	619	13.5	(10.2-17.7)	616	7.5	(5.1-10.9)
Region 6	926	12.7	(10.1-15.9)	923	8.0	(6.0-10.6)
Van Buren-Cass	325	12.6	(8.6-18.0)	324	9.9	(6.3-15.2)
Berrien	601	12.8	(9.5-17.0)	599	6.5	(4.6-9.0)
Region 7	2,592	13.7	(12.0-15.6)	2,585	8.1	(6.8-9.6)
Allegan	242	11.8	(7.7-17.7)	242	5.0	(2.6-9.4)
Ionia	145	12.5	(7.3-20.6)	145	9.0	(4.7-16.4)
Kent	1,316	15.1	(12.6-17.9)	1,311	9.4	(7.5-11.7)
Mid-Michigan ^c	597	13.2	(9.8-17.4)	595	7.4	(4.9-10.9)
Ottawa	627	12.3	(9.3-16.1)	626	6.9	(4.7-9.9)

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Table 21 Cont'd						
Geographic Area	Ever Told Have Asthma^a			Still Have Asthma^b		
	N	%	95% Confidence Interval	N	%	95% Confidence Interval
Michigan Total	26,128	15.3	(14.6-15.9)	26,001	9.8	(9.3-10.3)
Region 8	1,343	12.7	(10.5-15.3)	1,339	9.7	(7.7-12.0)
District #10	810	12.5	(9.9-15.6)	807	9.3	(7.0-12.2)
Muskegon	533	13.1	(9.5-17.7)	532	10.3	(7.1-14.8)
Region 9	1,241	13.2	(11.0-15.8)	1,236	9.1	(7.3-11.3)
District #2	242	11.9	(7.6-18.2)	239	7.2	(4.3-11.9)
District #4	277	14.1	(9.7-19.9)	275	9.9	(6.1-15.6)
Northwest Michigan	372	14.5	(10.5-19.6)	372	10.8	(7.6-15.1)
Benzie-Leelanau	119	6.2	(3.1-12.2)	119	3.7	(1.5-9.2)
Grand Traverse	231	15.0	(9.8-22.4)	231	10.3	(6.3-16.5)
Region 10	1,405	17.7	(15.0-20.9)	1,398	11.1	(9.0-13.7)
Bay	297	17.5	(12.3-24.4)	294	10.8	(6.9-16.6)
Huron	98	21.4	(11.7-35.9)	97	15.1	(6.8-30.1)
Saginaw	740	18.7	(14.8-23.4)	737	10.9	(8.1-14.6)
Sanilac	130	16.3	(9.1-27.4)	130	14.0	(7.2-25.5)
Tuscola	140	13.5	(7.6-22.6)	140	7.6	(3.9-14.6)
Region 11	752	17.5	(14.1-21.6)	747	10.7	(8.2-13.9)
Central Michigan	519	19.4	(14.9-24.9)	516	11.4	(8.2-15.7)
Midland	233	13.3	(9.2-18.9)	231	9.2	(6.0-13.8)
Region 12	1,026	18.9	(15.6-22.7)	1,017	13.6	(10.7-17.1)
Luce-Mackinac-Alger-Schoolcraft	139	24.7	(16.4-35.6)	138	17.5	(10.4-27.8)
Western Upper Peninsula	221	18.9	(10.7-31.3)	218	15.1	(7.5-28.0)
Delta-Menominee	213	14.2	(9.1-21.4)	213	11.8	(7.3-18.6)
Chippewa	124	12.5	(7.5-20.2)	122	9.2	(5.0-16.3)
Dickinson-Iron	140	16.7	(9.8-27.1)	139	7.3	(3.4-15.0)
Marquette	189	25.5	(17.8-35.1)	187	18.4	(11.9-27.3)

^a The proportion who reported that they were ever told by a doctor, nurse, or other health care professional that they had asthma.

^b Among all respondents, 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.

Table 22: Heart Attack Michigan BRFSS, 2007-2009 Combined			
Geographic Area	Ever Told Heart Attack^a		
	N	%	95% Confidence Interval
Michigan Total	26,044	4.6	(4.3-4.8)
Region 1	11,698	4.2	(3.8-4.6)
Livingston	392	3.8	(2.3-6.0)
Macomb	1,472	3.9	(3.1-4.9)
Monroe	318	4.1	(2.5-6.7)
Oakland	2,681	3.9	(3.2-4.6)
St. Clair	383	4.2	(2.5-6.8)
Washtenaw	738	3.6	(2.4-5.3)
City of Detroit	3,151	5.1	(4.2-6.1)
Wayne exc. Detroit	2,501	4.3	(3.6-5.1)
Region 2	1,652	6.0	(4.9-7.4)
Genesee	1,253	5.9	(4.6-7.6)
Lapeer	204	8.5	(5.4-12.9)
Shiawassee	195	4.1	(2.0-8.5)
Region 3	688	5.1	(3.7-6.9)
Jackson	439	5.1	(3.5-7.4)
Lenawee	249	5.0	(2.9-8.5)
Region 4	1,444	3.9	(3.0-5.0)
Barry-Eaton	457	4.4	(3.0-6.5)
Mid-Michigan ^b	597	4.5	(3.1-6.5)
Ingham	652	3.6	(2.5-5.1)
Region 5	1,284	5.0	(3.9-6.5)
Branch-Hillsdale-St. Joseph	355	5.7	(3.7-8.7)
Calhoun	313	4.6	(2.8-7.4)
Kalamazoo	616	4.9	(3.3-7.3)
Region 6	923	5.1	(3.7-7.0)
Van Buren-Cass	325	5.2	(3.0-8.8)
Berrien	598	5.1	(3.5-7.2)
Region 7	2,585	3.2	(2.6-3.9)
Allegan	241	2.0	(1.0-4.0)
Ionia	145	4.7	(2.1-3.5)
Kent	1,310	2.7	(2.1-3.5)
Mid-Michigan ^b	597	4.5	(3.1-6.5)
Ottawa	627	3.4	(2.1-5.5)

Table 22 Cont'd			
Geographic Area	Ever Told Heart Attack^a		
	N	%	95% Confidence Interval
Michigan Total	26,044	4.6	(4.3-4.8)
Region 8	1,335	5.2	(4.1-6.6)
District #10	808	5.2	(3.9-6.9)
Muskegon	527	5.3	(3.5-8.0)
Region 9	1,237	7.0	(5.6-8.7)
District #2	242	11.7	(7.6-17.4)
District #4	274	6.5	(4.3-9.8)
Northwest Michigan	371	6.4	(4.3-9.4)
Benzie-Leelanau	119	3.5	(1.4-8.6)
Grand Traverse	231	5.4	(3.1-9.2)
Region 10	1,401	5.4	(4.3-6.8)
Bay	296	5.2	(3.4-7.9)
Huron	97	5.4	(2.3-12.0)
Saginaw	740	5.5	(3.9-7.7)
Sanilac	129	5.8	(3.0-11.0)
Tuscola	139	5.5	(2.9-10.0)
Region 11	751	5.5	(4.2-7.2)
Central Michigan	518	5.0	(3.6-7.1)
Midland	233	6.5	(4.1-10.2)
Region 12	1,026	4.9	(3.7-6.4)
Luce-Mackinac-Alger-Schoolcraft	140	5.4	(2.7-10.7)
Western Upper Peninsula	220	3.3	(1.7-6.1)
Delta-Menominee	214	5.5	(3.0-10.0)
Chippewa	124	4.1	(1.8-8.9)
Dickinson-Iron	139	6.0	(3.3-10.5)
Marquette	189	5.3	(2.6-10.8)

^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.

Table 23: Angina or Coronary Heart Disease Michigan BRFSS, 2007-2009 Combined			
Geographic Area	Ever Told Angina or Coronary Heart Disease^a		
	N	%	95% Confidence Interval
Michigan Total	25,877	4.7	(4.4-4.9)
Region 1	11,625	4.3	(4.0-4.7)
Livingston	390	4.1	(2.6-6.3)
Macomb	1,459	4.4	(3.4-5.5)
Monroe	318	4.5	(2.8-7.0)
Oakland	2,659	4.4	(3.7-5.2)
St. Clair	380	7.0	(4.6-10.4)
Washtenaw	739	3.6	(2.5-5.2)
City of Detroit	3,133	4.2	(3.5-5.0)
Wayne exc. Detroit	2,486	4.0	(3.4-4.8)
Region 2	1,648	5.7	(4.6-7.1)
Genesee	1,247	5.6	(4.4-7.1)
Lapeer	204	8.0	(4.8-13.2)
Shiawassee	197	4.3	(2.2-8.4)
Region 3	684	5.1	(3.7-6.9)
Jackson	437	5.3	(3.6-7.8)
Lenawee	247	4.6	(2.7-7.8)
Region 4	1,434	4.5	(3.6-5.6)
Barry-Eaton	454	5.2	(3.5-7.5)
Mid-Michigan ^b	593	4.2	(3.0-6.0)
Ingham	647	4.5	(3.2-6.2)
Region 5	1,275	4.7	(3.6-6.1)
Branch-Hillsdale-St. Joseph	353	6.3	(4.0-9.7)
Calhoun	309	4.2	(2.5-7.0)
Kalamazoo	613	4.0	(2.7-5.9)
Region 6	916	5.0	(3.8-6.6)
Van Buren-Cass	321	4.9	(3.0-7.7)
Berrien	595	5.1	(3.6-7.2)
Region 7	2,573	3.0	(2.5-3.6)
Allegan	239	2.2	(1.1-4.2)
Ionia	144	1.2	(0.3-4.9)
Kent	1,305	3.1	(2.4-4.0)
Mid-Michigan ^b	593	4.2	(3.0-6.0)
Ottawa	625	2.7	(1.7-4.1)

Table 23 Cont'd			
Geographic Area	Ever Told Angina or Coronary Heart Disease^a		
	N	%	95% Confidence Interval
Michigan Total	25,877	4.7	(4.4-4.9)
Region 8	1,336	4.2	(3.3-5.3)
District #10	809	5.0	(3.8-6.6)
Muskegon	527	2.7	(1.7-4.4)
Region 9	1,216	6.2	(5.0-7.8)
District #2	241	8.6	(5.4-13.2)
District #4	269	7.6	(4.9-11.5)
Northwest Michigan	360	5.4	(3.4-8.4)
Benzie-Leelanau	118	6.1	(3.2-11.3)
Grand Traverse	228	3.9	(2.0-7.4)
Region 10	1,394	7.0	(5.6-8.6)
Bay	294	5.8	(3.5-9.5)
Huron	96	7.9	(4.2-14.5)
Saginaw	735	7.5	(5.5-10.2)
Sanilac	730	4.1	(2.0-8.4)
Tuscola	139	9.3	(5.7-14.9)
Region 11	740	7.2	(5.6-9.2)
Central Michigan	509	7.3	(5.4-9.8)
Midland	231	7.0	(4.5-10.8)
Region 12	1,016	5.4	(4.3-6.9)
Luce-Mackinac-Alger-Schoolcraft	139	4.6	(2.4-8.6)
Western Upper Peninsula	220	5.7	(3.3-9.6)
Delta-Menominee	210	5.8	(3.4-9.5)
Chippewa	122	5.8	(3.0-11.1)
Dickinson-Iron	138	6.3	(3.6-10.8)
Marquette	187	4.5	(2.5-8.2)

^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.

Table 24: Stroke Michigan BRFSS, 2007-2009 Combined			
Geographic Area	Ever Told Stroke^a		
	N	%	95% Confidence Interval
Michigan Total	26,130	2.8	(2.6-3.0)
Region 1	11,739	2.9	(2.5-3.2)
Livingston	391	1.9	(0.9-4.1)
Macomb	1,472	2.7	(2.0-3.8)
Monroe	321	2.9	(1.6-5.2)
Oakland	2,689	2.2	(1.6-3.0)
St. Clair	382	2.3	(1.3-4.3)
Washtenaw	741	1.5	(0.8-2.5)
City of Detroit	3,173	5.1	(4.3-6.1)
Wayne exc. Detroit	2,509	2.7	(2.0-3.6)
Region 2	1,657	3.1	(2.4-4.0)
Genesee	1,256	3.2	(2.3-4.4)
Lapeer	204	3.9	(2.2-6.9)
Shiawassee	197	2.0	(0.8-4.5)
Region 3	690	1.4	(0.8-2.3)
Jackson	442	1.5	(0.8-2.8)
Lenawee	248	1.1	(0.4-3.0)
Region 4	1,444	1.9	(1.3-2.6)
Barry-Eaton	457	1.2	(0.6-2.3)
Mid-Michigan ^b	596	2.7	(1.5-4.8)
Ingham	652	2.3	(1.4-3.8)
Region 5	1,291	2.5	(1.8-3.5)
Branch-Hillsdale-St. Joseph	355	2.4	(1.4-4.1)
Calhoun	314	2.7	(1.2-6.1)
Kalamazoo	622	2.4	(1.5-3.9)
Region 6	928	3.4	(2.4-4.9)
Van Buren-Cass	324	3.2	(1.7-6.1)
Berrien	604	3.6	(2.3-5.4)
Region 7	2,590	1.9	(1.4-2.5)
Allegan	242	1.4	(0.5-3.5)
Ionia	145	1.3	(0.2-7.0)
Kent	1,314	2.0	(1.3-3.0)
Mid-Michigan ^b	596	2.7	(1.5-4.8)
Ottawa	628	1.4	(0.8-2.3)

Table 24 Cont'd			
Geographic Area	Ever Told Stroke^a		
	N	%	95% Confidence Interval
Michigan Total	26,130	2.8	(2.6-3.0)
Region 8	1,340	3.4	(2.6-4.5)
District #10	810	3.8	(2.7-5.3)
Muskegon	530	2.8	(1.7-4.5)
Region 9	1,242	4.0	(3.0-5.4)
District #2	242	4.1	(2.1-7.8)
District #4	277	3.6	(1.9-6.8)
Northwest Michigan	372	3.6	(2.1-6.1)
Benzie-Leelanau	120	4.5	(1.9-10.4)
Grand Traverse	231	5.0	(2.6-9.2)
Region 10	1,407	3.1	(2.3-4.2)
Bay	297	2.7	(1.4-5.1)
Huron	97	1.3	(0.3-5.7)
Saginaw	742	3.6	(2.3-5.6)
Sanilac	130	3.9	(1.8-8.5)
Tuscola	141	2.6	(1.1-6.2)
Region 11	751	4.1	(3.0-5.5)
Central Michigan	518	4.4	(3.1-6.3)
Midland	233	3.3	(1.8-5.9)
Region 12	1,031	3.2	(2.3-4.3)
Luce-Mackinac-Alger-Schoolcraft	141	4.4	(2.1-8.8)
Western Upper Peninsula	222	2.4	(1.2-4.7)
Delta-Menominee	214	1.2	(0.5-2.9)
Chippewa	125	3.6	(1.7-7.3)
Dickinson-Iron	140	5.1	(2.2-11.1)
Marquette	189	3.8	(2.0-7.1)

^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.

Table 25: Diabetes			
Michigan BRFSS, 2007-2009 Combined			
Geographic Area	Ever Told Diabetes^a		
	N	%	95% Confidence Interval
Michigan Total	26,183	9.2	(8.8-9.6)
Region 1	11,763	9.1	(8.5-9.7)
Livingston	392	6.1	(4.2-8.7)
Macomb	1,474	8.2	(6.9-9.7)
Monroe	321	9.8	(7.1-13.4)
Oakland	2,692	8.0	(7.0-9.2)
St. Clair	386	7.1	(4.9-10.0)
Washtenaw	742	8.2	(6.2-10.8)
City of Detroit	3,185	13.5	(12.1-15.0)
Wayne exc. Detroit	2,509	8.8	(7.6-10.2)
Region 2	1,660	10.3	(8.8-12.0)
Genesee	1,260	10.6	(8.9-12.7)
Lapeer	203	9.2	(5.8-14.2)
Shiawassee	197	9.7	(6.1-14.8)
Region 3	692	9.8	(7.8-12.3)
Jackson	443	9.4	(7.1-12.5)
Lenawee	249	10.4	(7.1-12.5)
Region 4	1,448	7.3	(6.1-8.8)
Barry-Eaton	458	6.7	(4.7-9.4)
Mid-Michigan ^b	597	12.3	(9.3-16.2)
Ingham	655	6.4	(4.8-8.5)
Region 5	1,292	9.6	(8.0-11.4)
Branch-Hillsdale-St. Joseph	356	8.3	(5.9-11.4)
Calhoun	314	9.7	(6.9-13.4)
Kalamazoo	622	10.3	(7.9-13.3)
Region 6	932	9.9	(7.8-12.5)
Van Buren-Cass	327	10.3	(6.9-15.2)
Berrien	605	9.5	(7.1-12.5)
Region 7	2,592	8.3	(7.2-9.7)
Allegan	242	10.3	(6.4-16.2)
Ionia	146	9.2	(5.4-15.3)
Kent	1,316	7.7	(6.3-9.5)
Mid-Michigan ^b	597	12.3	(9.3-16.2)
Ottawa	626	6.1	(4.5-8.2)

Table 25 Cont'd			
Geographic Area	Ever Told Diabetes^a		
	N	%	95% Confidence Interval
Michigan Total	26,183	9.2	(8.8-9.6)
Region 8	1,347	10.9	(9.1-12.9)
District #10	813	11.1	(8.9-13.6)
Muskegon	534	10.5	(6.7-16.2)
Region 9	1,243	8.9	(7.4-10.8)
District #2	243	10.5	(6.7-16.2)
District #4	276	13.6	(9.8-18.6)
Northwest Michigan	372	6.5	(4.4-9.4)
Benzie-Leelanau	120	9.5	(5.5-15.8)
Grand Traverse	232	6.1	(3.6-10.3)
Region 10	1,409	10.3	(8.7-12.3)
Bay	297	9.0	(6.3-12.8)
Huron	98	4.5	(1.8-10.5)
Saginaw	743	12.5	(9.8-15.8)
Sanilac	130	12.6	(7.6-20.3)
Tuscola	141	6.8	(3.9-11.7)
Region 11	752	8.5	(6.7-10.7)
Central Michigan	519	8.5	(6.4-11.3)
Midland	233	8.4	(5.6-12.5)
Region 12	1,033	9.4	(7.7-11.4)
Luce-Mackinac-Alger-Schoolcraft	141	7.6	(4.4-13.0)
Western Upper Peninsula	222	11.6	(7.9-16.8)
Delta-Menominee	213	8.9	(5.8-13.4)
Chippewa	125	8.1	(4.3-14.6)
Dickinson-Iron	141	12.8	(7.5-21.0)
Marquette	191	7.5	(4.2-12.9)

^a The proportion 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.