

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

**Michigan Behavioral Risk Factor Survey  
2006 - 2008 Combined**

Selected Tables

Chronic Disease Epidemiology Section  
Division of Genomics, Perinatal Health, and Chronic Disease Epidemiology  
Bureau of Epidemiology  
Michigan Department of Community Health

*Prepared by Chris Fussman  
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## **Introduction**

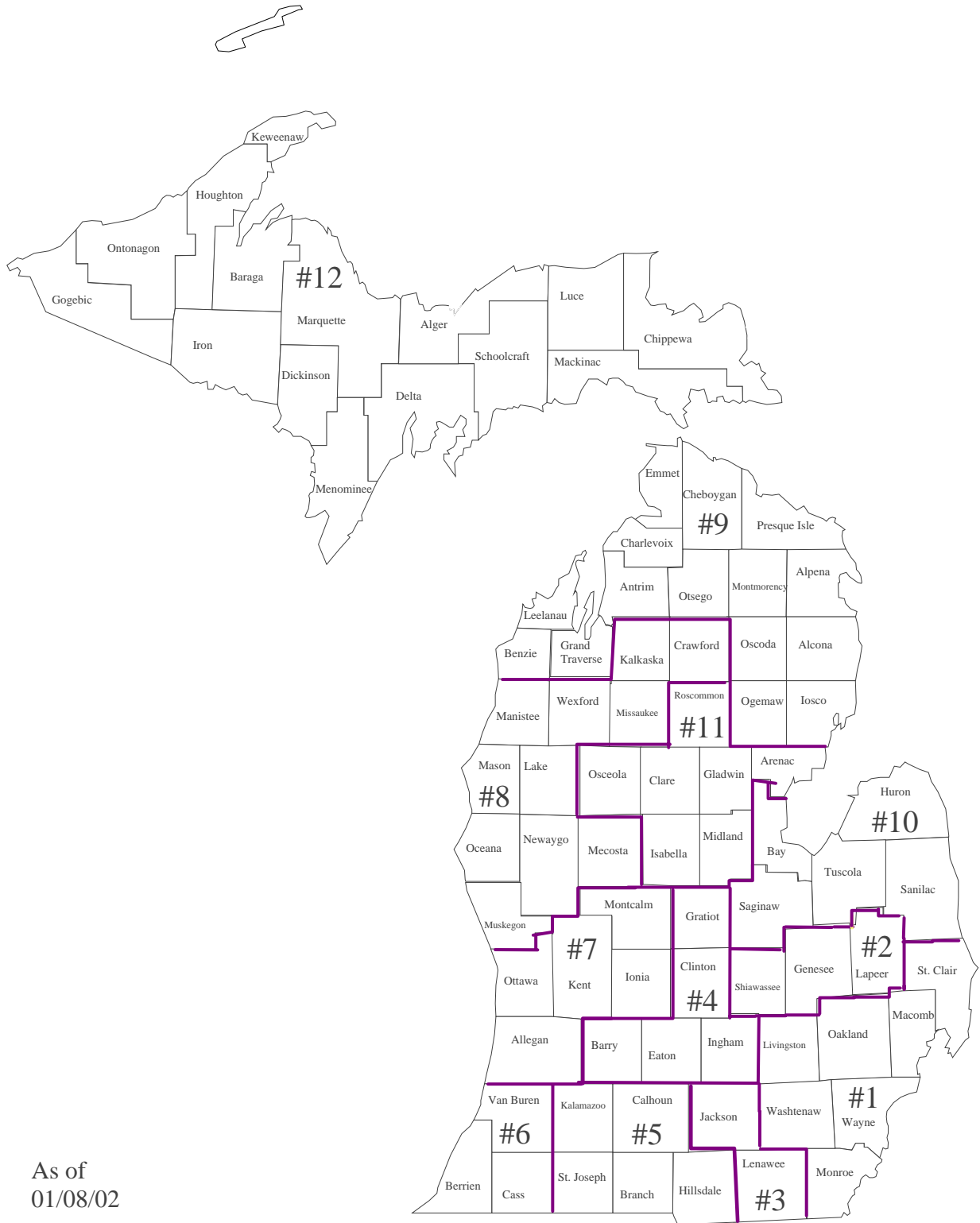
The Michigan Behavioral Risk Factor Survey (BRFS) is a statewide, random-digit dialed telephone survey of adult residents aged 18 years and older. State-specific, population-based prevalence estimates (and 95% confidence intervals) of health risk behaviors, preventive health practices, and chronic conditions 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 2006 - 2008 Michigan BRFSS were combined. The total sample sizes by year were: 9,447 in 2008, 7,505 in 2007, and 5,662 in 2006. 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.

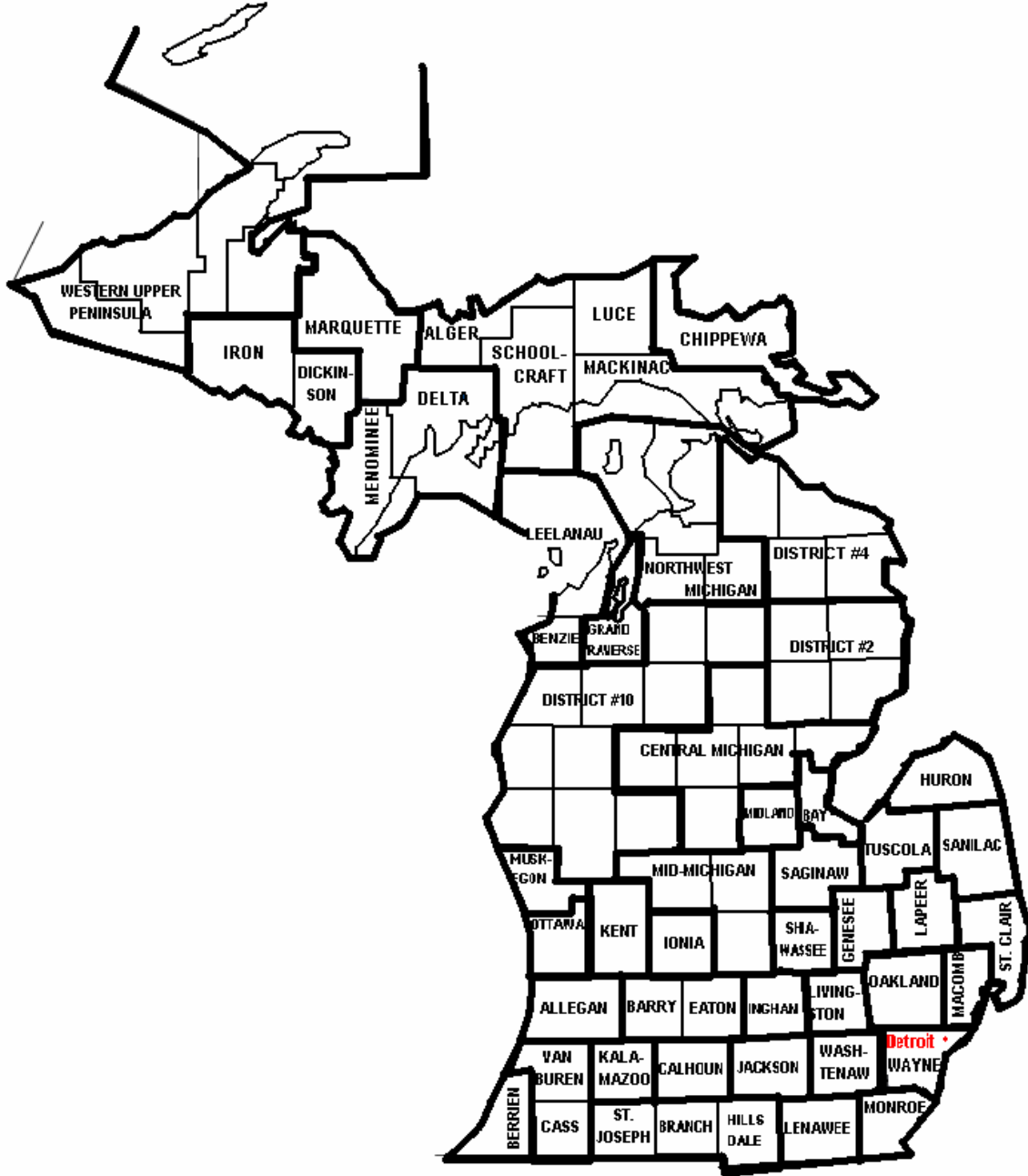
If you have any questions about these data, please contact Chris Fussman at MDCH, by phone, 517-335-8144, or by e-mail, [FussmanC@michigan.gov](mailto:FussmanC@michigan.gov).

## Community Health Assessment and Improvement Regions State of Michigan



As of  
01/08/02

### Local Health Departments State of Michigan



<b>Table 1: Health Status Michigan BRFSS, 2006-2008 Combined</b>			
<b>Geographic Area</b>	<b>General Health, Fair or Poor<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>22,553</b>	<b>14.8</b>	<b>(14.2-15.3)</b>
<b>Region 1</b>	9,842	15.1	(14.2-16.0)
Livingston	355	7.9	(5.4-11.3)
Macomb	1,326	14.4	(12.4-16.7)
Monroe	301	13.8	(9.9-18.9)
Oakland	2,333	12.7	(11.2-14.5)
St. Clair	347	14.9	(11.1-19.8)
Washtenaw	666	11.6	(8.7-15.3)
City of Detroit	2,311	24.8	(22.4-27.4)
Wayne exc. Detroit	2,154	13.6	(11.9-15.4)
<b>Region 2</b>	1,372	18.2	(15.8-21.0)
Genesee	1,021	19.6	(16.6-23.0)
Lapeer	184	12.3	(8.2-18.1)
Shiawassee	167	17.2	(11.8-24.4)
<b>Region 3</b>	628	12.4	(9.8-15.5)
Jackson	396	13.6	(10.2-17.8)
Lenawee	232	10.4	(6.9-15.4)
<b>Region 4</b>	1,310	12.0	(10.2-14.1)
Barry-Eaton	398	13.0	(9.8-17.0)
Mid-Michigan <sup>b</sup>	521	14.1	(11.0-17.9)
Ingham	618	10.9	(8.5-14.0)
<b>Region 5</b>	1,168	16.3	(13.7-19.3)
Branch-Hillsdale-St. Joseph	313	17.1	(12.6-22.9)
Calhoun	293	16.1	(11.2-22.6)
Kalamazoo	562	15.9	(12.2-20.5)
<b>Region 6</b>	790	17.5	(14.5-21.0)
Van Buren-Cass	306	16.0	(11.8-21.4)
Berrien	484	18.7	(14.7-23.5)
<b>Region 7</b>	2,342	11.0	(9.4-12.8)
Allegan	220	12.5	(5.8-25.1)
Ionia	140	10.5	(6.4-16.7)
Kent	1,191	10.4	(8.5-12.8)
Mid-Michigan <sup>b</sup>	521	14.1	(11.0-17.9)
Ottawa	564	9.9	(7.4-13.1)

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<b>Table 1 Cont'd</b>			
<b>Geographic Area</b>	<b>General Health, Fair or Poor<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>22,553</b>	<b>14.8</b>	<b>(14.2-15.3)</b>
<b>Region 8</b>	1,167	16.8	(14.5-19.3)
District #10	727	16.3	(13.6-19.5)
Muskegon	440	17.5	(13.6-22.1)
<b>Region 9</b>	1,127	12.7	(10.7-15.0)
District #2	219	16.1	(11.4-22.4)
District #4	259	15.6	(11.3-21.3)
Northwest Michigan	324	11.3	(8.2-15.5)
Benzie-Leelanau	105	10.3	(5.3-19.1)
Grand Traverse	220	9.2	(5.6-14.7)
<b>Region 10</b>	1,175	15.3	(13.0-17.8)
Bay	268	12.9	(9.1-18.0)
Huron	100	20.3	(12.9-30.6)
Saginaw	585	15.5	(12.2-19.4)
Sanilac	105	17.9	(10.8-28.1)
Tuscola	117	14.1	(8.8-21.7)
<b>Region 11</b>	699	18.1	(14.9-21.8)
Central Michigan	480	20.2	(16.3-24.9)
Midland	219	13.3	(8.9-19.4)
<b>Region 12</b>	913	16.5	(13.9-19.5)
Luce-Mackinac-Alger-Schoolcraft	132	14.8	(9.2-22.9)
Western Upper Peninsula	188	18.9	(12.9-27.0)
Delta-Menominee	196	16.1	(11.4-22.2)
Chippewa	101	16.2	(10.1-24.9)
Dickinson-Iron	132	19.8	(12.6-29.6)
Marquette	164	13.6	(8.7-20.6)

<sup>a</sup> The proportion who reported that their health, in general, was either fair or poor.  
<sup>b</sup> 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.

<b>Table 2: Poor Physical Health on at Least 14 Days in the Past Month Michigan BRFSS, 2006-2008 Combined</b>			
<b>Geographic Area</b>	<b>Poor Physical Health<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>22,112</b>	<b>10.9</b>	<b>(10.5-11.4)</b>
<b>Region 1</b>	9,651	10.5	(9.8-11.3)
Livingston	353	5.8	(3.8-8.9)
Macomb	1,305	9.9	(8.3-11.9)
Monroe	294	9.7	(6.6-14.1)
Oakland	2,295	10.5	(9.0-12.2)
St. Clair	338	12.6	(9.2-17.2)
Washtenaw	662	7.0	(5.2-9.6)
City of Detroit	2,237	13.9	(12.2-15.9)
Wayne exc. Detroit	2,120	10.3	(8.9-12.0)
<b>Region 2</b>	1,345	13.5	(11.3-16.0)
Genesee	998	14.2	(11.4-17.4)
Lapeer	183	12.8	(8.3-19.0)
Shiawassee	164	10.6	(6.6-16.5)
<b>Region 3</b>	617	11.3	(8.6-14.7)
Jackson	390	13.4	(9.6-18.3)
Lenawee	227	7.7	(4.9-11.9)
<b>Region 4</b>	1,287	10.2	(8.5-12.2)
Barry-Eaton	389	9.8	(6.7-14.1)
Mid-Michigan <sup>b</sup>	512	10.6	(7.8-14.2)
Ingham	609	9.0	(7.1-11.5)
<b>Region 5</b>	1,140	11.0	(9.1-13.2)
Branch-Hillsdale-St. Joseph	305	9.2	(6.1-13.5)
Calhoun	285	11.9	(8.3-16.8)
Kalamazoo	550	11.5	(8.8-17.1)
<b>Region 6</b>	768	10.8	(8.5-13.6)
Van Buren-Cass	298	11.8	(8.0-17.1)
Berrien	470	10.0	(7.4-13.3)
<b>Region 7</b>	2,310	9.0	(7.7-10.5)
Allegan	215	10.0	(6.4-15.2)
Ionia	138	5.5	(2.5-11.4)
Kent	1,176	9.7	(7.8-12.1)
Mid-Michigan <sup>b</sup>	512	10.6	(7.8-14.2)
Ottawa	558	8.6	(6.2-11.8)



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<b>Table 2 Cont'd</b>			
<b>Geographic Area</b>	<b>Poor Physical Health<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>22,112</b>	<b>10.9</b>	<b>(10.5-11.4)</b>
<b>Region 8</b>	1,144	13.4	(11.3-15.9)
District #10	712	12.6	(9.9-15.8)
Muskegon	432	14.8	(11.5-18.9)
<b>Region 9</b>	1,112	12.6	(10.5-15.1)
District #2	216	12.7	(8.4-18.7)
District #4	253	18.3	(13.2-24.9)
Northwest Michigan	319	12.7	(9.1-17.4)
Benzie-Leelanau	103	12.9	(6.7-23.4)
Grand Traverse	221	6.2	(3.9-9.6)
<b>Region 10</b>	1,144	11.2	(9.4-13.2)
Bay	263	7.8	(5.1-11.6)
Huron	95	9.0	(4.4-17.5)
Saginaw	572	13.3	(10.5-16.6)
Sanilac	101	9.5	(5.0-17.2)
Tuscola	113	14.1	(8.8-21.8)
<b>Region 11</b>	684	12.4	(9.8-15.5)
Central Michigan	470	14.2	(11.0-18.2)
Midland	214	8.4	(4.8-14.1)
<b>Region 12</b>	891	11.3	(9.2-13.9)
Luce-Mackinac-Alger-Schoolcraft	130	8.0	(4.0-15.2)
Western Upper Peninsula	179	13.1	(8.2-20.1)
Delta-Menominee	192	13.3	(8.9-19.5)
Chippewa	98	10.3	(5.6-18.1)
Dickinson-Iron	129	14.0	(7.8-23.9)
Marquette	163	8.5	(5.2-13.7)

<sup>a</sup> 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.

<sup>b</sup> 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.

<b>Table 3: Poor Mental Health on at Least 14 Days in the Past Month Michigan BRFSS, 2006-2008 Combined</b>			
<b>Geographic Area</b>	<b>Poor Mental Health<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>22,280</b>	<b>10.8</b>	<b>(10.3-11.3)</b>
<b>Region 1</b>	9,718	11.0	(10.2-11.9)
Livingston	354	10.1	(6.4-15.8)
Macomb	1,310	10.2	(8.4-12.4)
Monroe	294	13.0	(8.8-18.9)
Oakland	2,309	9.7	(8.1-11.5)
St. Clair	343	9.1	(6.1-13.3)
Washtenaw	663	8.7	(6.3-12.0)
City of Detroit	2,275	13.3	(11.4-15.3)
Wayne exc. Detroit	2,122	12.4	(10.6-14.5)
<b>Region 2</b>	1,356	12.0	(9.9-14.4)
Genesee	1,005	12.5	(10.1-15.4)
Lapeer	185	6.9	(4.1-11.3)
Shiawassee	166	14.8	(8.8-23.7)
<b>Region 3</b>	614	8.7	(6.5-11.6)
Jackson	388	10.9	(7.8-15.1)
Lenawee	226	5.0	(2.9-8.4)
<b>Region 4</b>	1,293	11.7	(9.7-14.0)
Barry-Eaton	394	13.8	(9.9-19.0)
Mid-Michigan <sup>b</sup>	518	9.6	(7.0-13.2)
Ingham	607	10.6	(8.2-13.7)
<b>Region 5</b>	1,159	12.0	(9.7-14.7)
Branch-Hillsdale-St. Joseph	310	9.7	(6.4-14.5)
Calhoun	291	16.1	(11.1-22.7)
Kalamazoo	558	11.1	(8.0-15.1)
<b>Region 6</b>	782	9.7	(7.6-12.4)
Van Buren-Cass	302	8.8	(6.0-12.8)
Berrien	480	10.5	(7.6-14.2)
<b>Region 7</b>	2,322	8.7	(7.3-10.3)
Allegan	216	10.3	(6.3-16.5)
Ionia	140	8.5	(4.2-16.4)
Kent	1,181	9.1	(7.2-11.6)
Mid-Michigan <sup>b</sup>	518	9.6	(7.0-13.2)
Ottawa	559	7.4	(5.2-10.5)

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<b>Table 3 Cont'd</b>			
<b>Geographic Area</b>	<b>Poor Mental Health<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>22,280</b>	<b>10.8</b>	<b>(10.3-11.3)</b>
<b>Region 8</b>	1,156	12.3	(10.0-15.2)
District #10	716	9.4	(7.2-12.2)
Muskegon	438	17.4	(12.7-23.5)
<b>Region 9</b>	1,109	9.7	(7.8-12.1)
District #2	216	10.3	(6.2-16.6)
District #4	255	10.3	(6.8-15.3)
Northwest Michigan	321	11.2	(7.7-15.9)
Benzie-Leelanau	104	10.6	(5.3-20.4)
Grand Traverse	213	5.9	(2.8-12.1)
<b>Region 10</b>	1,165	11.0	(8.9-13.4)
Bay	265	10.2	(6.1-16.5)
Huron	96	11.2	(5.9-20.2)
Saginaw	582	11.8	(8.9-15.5)
Sanilac	105	11.6	(6.6-19.7)
Tuscola	117	8.7	(4.8-15.2)
<b>Region 11</b>	688	13.1	(10.0-17.0)
Central Michigan	475	12.8	(9.4-17.2)
Midland	213	13.6	(7.9-22.5)
<b>Region 12</b>	898	9.6	(7.2-12.5)
Luce-Mackinac-Alger-Schoolcraft	130	7.6	(4.0-14.0)
Western Upper Peninsula	183	8.0	(4.2-14.7)
Delta-Menominee	194	14.9	(9.6-22.6)
Chippewa	97	17.9	(8.1-35.0)
Dickinson-Iron	132	5.1	(2.5-10.1)
Marquette	162	5.1	(2.2-11.3)

<sup>a</sup> 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.  
<sup>b</sup> 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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<b>Table 4: Activity Limitation on at Least 14 Days in the Past Month Michigan BRFSS, 2006-2008 Combined</b>			
<b>Geographic Area</b>	<b>Activity Limitation<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>22,220</b>	<b>7.0</b>	<b>(6.6-7.4)</b>
<b>Region 1</b>	9,700	6.6	(6.0-7.2)
Livingston	352	1.7	(0.9-3.4)
Macomb	1,308	5.4	(4.2-7.0)
Monroe	297	5.8	(3.6-9.4)
Oakland	2,304	5.8	(4.8-7.2)
St. Clair	342	7.2	(4.6-7.2)
Washtenaw	662	4.3	(2.8-6.6)
City of Detroit	2,264	10.5	(8.8-12.5)
Wayne exc. Detroit	2,123	7.0	(5.8-8.4)
<b>Region 2</b>	1,346	9.4	(7.7-11.5)
Genesee	1,000	9.9	(7.9-12.5)
Lapeer	182	5.1	(2.8-9.0)
Shiawassee	164	11.0	(6.2-18.8)
<b>Region 3</b>	616	7.8	(5.7-10.5)
Jackson	392	9.4	(6.5-13.3)
Lenawee	224	5.0	(2.9-8.4)
<b>Region 4</b>	1,290	6.6	(5.2-8.5)
Barry-Eaton	392	6.6	(3.9-11.0)
Mid-Michigan <sup>b</sup>	514	6.6	(4.3-9.9)
Ingham	608	6.2	(4.6-8.3)
<b>Region 5</b>	1,151	7.6	(5.9-9.7)
Branch-Hillsdale-St. Joseph	306	7.4	(4.4-12.4)
Calhoun	288	7.6	(4.7-12.2)
Kalamazoo	557	7.6	(5.4-10.6)
<b>Region 6</b>	776	6.7	(5.1-8.7)
Van Buren-Cass	302	5.3	(3.2-8.5)
Berrien	474	7.7	(5.6-10.7)
<b>Region 7</b>	2,325	5.0	(4.1-6.1)
Allegan	220	6.9	(3.6-12.8)
Ionia	140	4.5	(1.8-10.9)
Kent	1,181	5.1	(3.8-6.8)
Mid-Michigan <sup>b</sup>	514	6.6	(4.3-9.9)
Ottawa	560	3.9	(2.5-6.1)

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<b>Table 4 Cont'd</b>			
<b>Geographic Area</b>	<b>Activity Limitation<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>22,220</b>	<b>7.0</b>	<b>(6.6-7.4)</b>
<b>Region 8</b>	1,141	9.2	(7.5-11.4)
District #10	708	7.7	(5.7-10.2)
Muskegon	433	11.9	(8.7-16.0)
<b>Region 9</b>	1,115	7.9	(6.2-9.9)
District #2	216	10.4	(6.7-16.0)
District #4	257	10.2	(6.1-16.4)
Northwest Michigan	320	8.8	(5.9-13.0)
Benzie-Leelanau	105	5.3	(2.6-10.5)
Grand Traverse	217	2.8	(1.3-5.9)
<b>Region 10</b>	1,151	7.4	(5.9-9.3)
Bay	264	5.8	(3.5-9.5)
Huron	95	4.4	(1.6-11.6)
Saginaw	575	9.1	(6.7-12.2)
Sanilac	102	5.4	(2.5-11.2)
Tuscola	115	8.7	(4.7-15.3)
<b>Region 11</b>	692	8.9	(6.4-12.2)
Central Michigan	474	9.6	(6.8-13.2)
Midland	218	7.5	(3.3-16.2)
<b>Region 12</b>	899	6.8	(5.2-8.9)
Luce-Mackinac-Alger-Schoolcraft	131	6.7	(3.2-13.8)
Western Upper Peninsula	182	7.7	(3.9-14.7)
Delta-Menominee	194	9.2	(5.5-14.9)
Chippewa	98	5.1	(2.4-10.4)
Dickinson-Iron	130	4.4	(2.1-9.0)
Marquette	164	6.1	(3.3-10.9)

<sup>a</sup> 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.

<sup>b</sup> 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.

<b>Table 5: Life Satisfaction Michigan BRFSS, 2006-2008 Combined</b>			
<b>Geographic Area</b>	<b>Dissatisfied or Very Dissatisfied<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>21,932</b>	<b>6.1</b>	<b>(5.7-6.5)</b>
<b>Region 1</b>	9,530	6.6	(3.0-7.3)
Livingston	345	3.4	(1.6-7.2)
Macomb	1,291	6.9	(5.3-8.9)
Monroe	290	3.4	(2.1-5.7)
Oakland	2,262	4.6	(3.6-5.8)
St. Clair	340	6.1	(3.7-9.9)
Washtenaw	656	4.1	(2.7-6.2)
City of Detroit	2,220	12.3	(10.4-14.6)
Wayne exc. Detroit	2,106	6.5	(5.1-8.2)
<b>Region 2</b>	1,338	5.5	(4.2-7.2)
Genesee	991	6.4	(4.7-8.7)
Lapeer	182	2.2	(0.9-5.1)
Shiawassee	165	4.1	(1.7-9.5)
<b>Region 3</b>	614	5.4	(3.7-7.8)
Jackson	386	6.4	(4.1-10.0)
Lenawee	228	3.5	(1.9-6.6)
<b>Region 4</b>	1,276	6.1	(4.6-8.0)
Barry-Eaton	385	6.1	(3.5-10.3)
Mid-Michigan <sup>b</sup>	513	3.7	(2.3-5.8)
Ingham	601	7.1	(5.0-10.2)
<b>Region 5</b>	1,132	7.2	(5.4-9.4)
Branch-Hillsdale-St. Joseph	305	7.3	(4.3-12.2)
Calhoun	285	10.1	(6.2-16.0)
Kalamazoo	542	5.4	(3.4-8.5)
<b>Region 6</b>	767	5.6	(4.0-7.9)
Van Buren-Cass	297	4.7	(2.5-8.8)
Berrien	470	6.4	(4.2-9.5)
<b>Region 7</b>	2,297	4.3	(3.3-5.6)
Allegan	219	5.5	(2.5-11.6)
Ionia	137	1.2	(0.3-4.2)
Kent	1,166	4.7	(3.2-6.8)
Mid-Michigan <sup>b</sup>	513	3.7	(2.3-5.8)
Ottawa	552	4.1	(2.6-6.4)

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<b>Table 5 Cont'd</b>			
<b>Geographic Area</b>	<b>Dissatisfied or Very Dissatisfied<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>21,932</b>	<b>6.1</b>	<b>(5.7-6.5)</b>
<b>Region 8</b>	1,138	7.3	(5.5-9.7)
District #10	711	6.1	(4.3-8.7)
Muskegon	427	9.4	(6.0-14.6)
<b>Region 9</b>	1,102	6.1	(4.6-8.1)
District #2	213	5.5	(3.1-9.8)
District #4	249	6.3	(3.5-11.0)
Northwest Michigan	320	7.5	(4.3-12.7)
Benzie-Leelanau	104	10.6	(5.6-19.1)
Grand Traverse	216	1.9	(0.8-4.4)
<b>Region 10</b>	1,143	5.7	(4.3-7.6)
Bay	260	3.7	(1.6-8.6)
Huron	96	2.7	(0.7-9.6)
Saginaw	568	7.8	(5.4-11.1)
Sanilac	103	6.9	(3.2-14.2)
Tuscola	116	3.8	(1.7-8.7)
<b>Region 11</b>	684	7.1	(5.0-9.9)
Central Michigan	471	8.0	(5.5-11.6)
Midland	213	5.1	(2.3-11.0)
<b>Region 12</b>	891	5.0	(3.5-7.2)
Luce-Mackinac-Alger-Schoolcraft	130	4.2	(2.0-8.5)
Western Upper Peninsula	179	4.4	(2.3-8.3)
Delta-Menominee	193	9.4	(4.7-17.8)
Chippewa	98	4.3	(1.6-11.0)
Dickinson-Iron	130	3.9	(1.2-12.0)
Marquette	161	2.8	(1.3-6.1)

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

<sup>b</sup> 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.

<b>Table 6: Social and Emotional Support Michigan BRFSS, 2006-2008 Combined</b>			
<b>Geographic Area</b>	<b>Rarely or Never Receive Needed Social and Emotional Support<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>21,696</b>	<b>6.7</b>	<b>(6.3-7.1)</b>
<b>Region 1</b>	9,411	6.9	(6.3-7.6)
Livingston	345	5.0	(3.0-8.1)
Macomb	1,270	6.9	(5.3-9.0)
Monroe	284	8.5	(5.1-13.7)
Oakland	2,249	5.9	(4.8-7.1)
St. Clair	338	8.7	(5.7-12.9)
Washtenaw	647	3.8	(2.4-5.9)
City of Detroit	2,188	11.6	(9.8-13.6)
Wayne exc. Detroit	2,071	5.7	(4.6-7.1)
<b>Region 2</b>	1,320	6.4	(4.9-8.1)
Genesee	978	7.6	(5.7-9.9)
Lapeer	179	4.5	(2.4-8.3)
Shiawassee	163	2.0	(0.8-5.1)
<b>Region 3</b>	610	5.6	(4.0-7.8)
Jackson	384	5.7	(3.7-8.7)
Lenawee	226	5.3	(3.1-9.1)
<b>Region 4</b>	1,264	5.8	(4.5-7.6)
Barry-Eaton	383	6.8	(4.2-10.9)
Mid-Michigan <sup>b</sup>	509	6.1	(4.2-8.8)
Ingham	595	5.3	(3.5-7.9)
<b>Region 5</b>	1,120	7.8	(6.0-10.1)
Branch-Hillsdale-St. Joseph	301	7.5	(4.4-12.3)
Calhoun	279	7.7	(4.3-13.3)
Kalamazoo	540	8.1	(5.7-11.5)
<b>Region 6</b>	757	8.0	(5.7-11.1)
Van Buren-Cass	295	7.0	(3.4-13.9)
Berrien	462	8.7	(6.3-12.1)
<b>Region 7</b>	2,291	5.0	(4.0-6.4)
Allegan	219	4.4	(2.2-8.6)
Ionia	137	4.1	(2.1-8.0)
Kent	1,162	5.3	(3.8-7.4)
Mid-Michigan <sup>b</sup>	509	6.1	(4.2-8.8)
Ottawa	550	4.2	(2.4-7.4)



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<b>Table 6 Cont'd</b>			
<b>Geographic Area</b>	<b>Rarely or Never Receive the Social and Emotional Support that is Needed<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>21,696</b>	<b>6.7</b>	<b>(6.3-7.1)</b>
<b>Region 8</b>	1,133	7.5	(5.8-9.6)
District #10	709	7.4	(5.6-9.7)
Muskegon	424	7.7	(4.7-12.2)
<b>Region 9</b>	1,091	7.0	(5.5-8.9)
District #2	211	6.8	(4.1-11.2)
District #4	244	5.7	(3.4-9.4)
Northwest Michigan	316	8.9	(5.7-13.6)
Benzie-Leelanau	104	10.2	(5.4-18.6)
Grand Traverse	216	4.1	(2.3-7.3)
<b>Region 10</b>	1,126	7.2	(5.5-9.4)
Bay	260	6.8	(3.9-11.8)
Huron	92	1.1	(0.3-4.4)
Saginaw	556	7.9	(5.3-11.7)
Sanilac	101	12.6	(6.8-21.9)
Tuscola	117	5.7	(2.7-11.6)
<b>Region 11</b>	676	8.1	(5.9-11.1)
Central Michigan	466	9.8	(7.0-13.7)
Midland	210	4.3	(1.7-10.6)
<b>Region 12</b>	877	5.2	(3.8-7.1)
Luce-Mackinac-Alger-Schoolcraft	130	3.9	(1.9-8.1)
Western Upper Peninsula	177	9.9	(5.4-17.7)
Delta-Menominee	187	4.8	(2.5-9.3)
Chippewa	96	3.7	(1.4-9.3)
Dickinson-Iron	126	3.8	(1.9-7.6)
Marquette	161	3.7	(1.6-8.2)

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

<sup>b</sup> 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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<b>Table 7: Disability Michigan BRFSS, 2006-2008 Combined</b>			
<b>Geographic Area</b>	<b>Disability<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>22,418</b>	<b>23.8</b>	<b>(23.1-24.5)</b>
<b>Region 1</b>	9,775	23.0	(22.0-24.0)
Livingston	353	22.9	(17.9-28.8)
Macomb	1,313	20.3	(18.0-22.8)
Monroe	298	24.2	(18.9-30.4)
Oakland	2,327	22.7	(20.7-24.9)
St. Clair	347	25.3	(20.2-31.1)
Washtenaw	661	23.2	(19.5-27.3)
City of Detroit	2,299	27.4	(25.0-30.0)
Wayne exc. Detroit	2,132	21.5	(19.4-23.6)
<b>Region 2</b>	1,368	29.8	(26.7-33.1)
Genesee	1,019	29.8	(26.3-33.7)
Lapeer	183	26.8	(20.2-34.6)
Shiawassee	166	32.8	(23.4-43.7)
<b>Region 3</b>	621	25.6	(21.9-29.7)
Jackson	390	24.4	(19.9-29.5)
Lenawee	231	27.6	(21.4-34.8)
<b>Region 4</b>	1,297	20.6	(18.2-23.2)
Barry-Eaton	394	18.9	(14.9-23.7)
Mid-Michigan <sup>b</sup>	515	24.1	(19.8-29.0)
Ingham	613	20.8	(17.4-24.6)
<b>Region 5</b>	1,164	26.1	(23.1-29.3)
Branch-Hillsdale-St. Joseph	313	25.3	(20.0-31.4)
Calhoun	292	27.7	(21.4-34.9)
Kalamazoo	559	25.7	(21.6-30.2)
<b>Region 6</b>	783	21.1	(18.0-24.4)
Van Buren-Cass	306	20.7	(16.1-26.1)
Berrien	477	21.3	(17.5-25.8)
<b>Region 7</b>	2,332	20.2	(18.2-22.4)
Allegan	219	16.6	(11.6-23.3)
Ionia	139	14.6	(10.0-20.7)
Kent	1,188	21.0	(18.1-24.2)
Mid-Michigan <sup>b</sup>	515	24.1	(19.8-29.0)
Ottawa	561	19.0	(15.6-23.0)

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<b>Table 7 Cont'd</b>			
<b>Geographic Area</b>	<b>Disability<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>22,418</b>	<b>23.8</b>	<b>(23.1-24.5)</b>
<b>Region 8</b>	1,163	29.7	(26.4-33.1)
District #10	724	29.8	(25.7-34.3)
Muskegon	439	29.4	(24.5-34.9)
<b>Region 9</b>	1,126	25.7	(22.8-28.8)
District #2	220	31.6	(24.7-39.4)
District #4	258	30.8	(24.9-37.4)
Northwest Michigan	324	23.7	(18.8-29.5)
Benzie-Leelanau	104	25.9	(17.0-37.4)
Grand Traverse	220	17.0	(12.1-23.4)
<b>Region 10</b>	1,165	22.6	(20.0-25.4)
Bay	268	17.9	(13.6-23.3)
Huron	100	23.3	(15.5-33.3)
Saginaw	577	25.0	(21.0-29.5)
Sanilac	103	23.6	(16.0-33.2)
Tuscola	117	22.8	(15.7-31.8)
<b>Region 11</b>	696	26.8	(23.1-30.8)
Central Michigan	478	28.8	(24.2-33.8)
Midland	218	22.4	(16.8-29.2)
<b>Region 12</b>	908	25.3	(22.2-28.7)
Luce-Mackinac-Alger-Schoolcraft	131	30.7	(21.3-42.0)
Western Upper Peninsula	187	25.3	(19.2-32.7)
Delta-Menominee	195	24.5	(18.4-31.8)
Chippewa	100	25.0	(16.8-35.6)
Dickinson-Iron	133	28.0	(19.9-37.8)
Marquette	162	20.5	(14.4-28.3)

<sup>a</sup> 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.

<sup>b</sup> 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.

<b>Table 8: Weight Status Michigan BRFSS, 2006-2008 Combined</b>							
<b>Geographic Area</b>	<b>Sample Size</b>	<b>Obese<sup>a</sup></b>		<b>Overweight<sup>b</sup></b>		<b>Not Overweight or Obese<sup>c</sup></b>	
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>	<b>%</b>	<b>95% Confidence Interval</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>21,463</b>	<b>29.2</b>	<b>(28.4-30.0)</b>	<b>35.7</b>	<b>(34.9-36.6)</b>	<b>35.0</b>	<b>(34.2-35.9)</b>
<b>Region 1</b>	9,354	28.5	(27.3-29.8)	35.3	(34.0-36.6)	36.2	(34.9-37.5)
Livingston	346	20.6	(15.9-26.2)	37.3	(31.2-43.9)	42.1	(35.5-49.0)
Macomb	1,267	28.2	(25.1-31.4)	35.7	(32.4-39.1)	36.2	(32.6-39.8)
Monroe	286	30.7	(24.4-37.7)	37.4	(30.7-44.7)	31.9	(25.3-39.2)
Oakland	2,226	23.8	(21.6-26.3)	36.7	(34.1-39.4)	39.4	(36.7-42.2)
St. Clair	323	30.5	(24.7-36.9)	34.1	(28.2-40.5)	35.4	(28.9-42.5)
Washtenaw	642	26.2	(21.9-31.1)	34.5	(30.1-39.3)	39.3	(34.6-44.2)
City of Detroit	2,186	37.9	(35.0-41.0)	32.8	(30.0-35.7)	29.3	(26.5-32.4)
Wayne exc. Detroit	2,050	28.9	(26.3-31.6)	35.0	(32.4-37.8)	36.1	(33.3-39.0)
<b>Region 2</b>	1,306	33.6	(30.1-37.4)	32.1	(28.8-35.5)	34.3	(30.8-38.0)
Genesee	970	34.5	(30.3-39.0)	31.1	(27.4-35.2)	34.3	(30.3-38.6)
Lapeer	176	35.8	(27.3-45.3)	31.4	(23.9-40.0)	32.8	(25.0-41.8)
Shiawassee	160	26.3	(18.8-35.6)	37.8	(28.3-48.3)	35.9	(25.8-47.4)
<b>Region 3</b>	597	32.5	(28.1-37.4)	40.5	(35.6-45.5)	27.0	(22.8-31.6)
Jackson	379	31.3	(25.7-37.5)	39.6	(33.9-45.6)	29.1	(23.7-35.2)
Lenawee	218	34.7	(27.4-42.7)	41.9	(33.9-45.6)	23.4	(17.6-30.4)
<b>Region 4</b>	1,240	30.2	(26.8-33.7)	37.8	(34.4-41.4)	32.0	(28.7-35.5)
Barry-Eaton	380	30.9	(25.3-37.1)	37.2	(31.3-43.4)	32.0	(26.2-38.3)
Mid-Michigan <sup>d</sup>	494	32.7	(27.6-38.3)	32.8	(27.7-38.2)	34.5	(29.2-40.2)
Ingham	583	27.8	(22.8-33.3)	41.1	(35.7-46.7)	31.1	(26.4-36.3)
<b>Region 5</b>	1,116	29.0	(25.6-32.5)	33.1	(29.7-36.6)	38.0	(34.3-41.8)
Branch-Hillsdale-St. Joseph	296	27.7	(22.1-34.0)	39.0	(32.4-46.1)	33.3	(26.8-40.5)
Calhoun	279	33.4	(26.3-41.4)	29.2	(23.1-36.2)	37.4	(30.1-45.2)
Kalamazoo	541	27.3	(22.7-32.5)	31.8	(27.1-36.8)	40.9	(35.6-46.5)
<b>Region 6</b>	758	26.6	(22.9-30.7)	42.2	(37.5-47.1)	31.1	(27.0-35.6)
Van Buren-Cass	296	25.1	(19.6-31.7)	39.7	(32.2-47.6)	35.2	(28.3-42.7)
Berrien	462	27.8	(22.9-33.2)	44.2	(38.3-50.3)	28.0	(23.1-33.6)
<b>Region 7</b>	2,226	26.2	(23.8-28.6)	35.4	(32.9-38.0)	38.4	(35.8-41.2)
Allegan	211	30.2	(21.4-40.8)	32.6	(25.0-41.2)	37.2	(28.9-46.3)
Ionia	134	28.5	(19.9-39.1)	34.5	(25.6-44.6)	37.0	(27.5-47.5)
Kent	1,129	25.6	(22.5-29.0)	36.1	(32.5-39.8)	38.3	(34.5-42.1)
Mid-Michigan <sup>d</sup>	494	32.7	(27.6-38.3)	32.8	(27.7-38.2)	34.5	(29.2-40.2)
Ottawa	535	23.3	(19.0-28.3)	35.9	(30.8-41.2)	40.8	(35.4-46.5)

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Table 8 Cont'd							
Geographic Area	Sample Size	Obese <sup>a</sup>		Overweight <sup>b</sup>		Not Overweight or Obese <sup>c</sup>	
		N	%	95% Confidence Interval	%	95% Confidence Interval	%
<b>Michigan Total</b>	<b>21,463</b>	<b>29.2</b>	<b>(28.4-30.0)</b>	<b>35.7</b>	<b>(34.9-36.6)</b>	<b>35.0</b>	<b>(34.2-35.9)</b>
<b>Region 8</b>	1,117	30.4	(27.1-33.9)	36.4	(32.8-40.2)	33.2	(29.7-36.9)
District #10	705	30.3	(26.3-34.7)	37.6	(33.1-42.3)	32.0	(27.8-36.7)
Muskegon	412	30.4	(25.0-36.4)	34.3	(28.3-40.9)	35.3	(29.3-41.7)
<b>Region 9</b>	1,080	29.4	(26.3-32.8)	37.5	(34.1-41.1)	33.0	(29.6-36.7)
District #2	213	35.3	(28.0-43.5)	32.5	(25.6-40.1)	32.2	(24.5-41.0)
District #4	252	30.6	(24.4-37.7)	41.0	(34.1-48.2)	28.4	(22.2-35.6)
Northwest Michigan	307	29.1	(23.6-35.2)	34.7	(28.5-41.5)	36.2	(29.9-43.1)
Benzie-Leelanau	101	30.4	(20.4-42.6)	34.6	(24.0-47.0)	35.0	(23.7-48.4)
Grand Traverse	207	22.1	(15.9-29.8)	44.6	(36.2-53.2)	33.4	(25.5-42.3)
<b>Region 10</b>	1,124	33.2	(29.8-36.8)	34.4	(31.0-38.0)	32.4	(28.8-36.2)
Bay	257	30.2	(23.9-37.4)	36.3	(29.3-43.9)	33.4	(26.1-41.7)
Huron	94	26.5	(17.3-38.3)	40.7	(29.2-53.4)	32.8	(21.1-47.0)
Saginaw	556	36.8	(31.6-42.2)	32.3	(27.4-37.7)	30.9	(25.9-36.4)
Sanilac	103	37.5	(27.7-48.4)	29.2	(20.4-39.9)	33.3	(23.7-44.6)
Tuscola	114	28.4	(19.3-39.7)	37.3	(27.2-48.7)	34.3	(23.7-46.7)
<b>Region 11</b>	657	29.8	(25.7-34.2)	34.5	(30.0-39.3)	35.7	(30.9-40.7)
Central Michigan	455	29.4	(24.6-34.8)	36.1	(30.6-41.9)	34.5	(28.7-40.8)
Midland	202	30.6	(23.5-38.8)	31.0	(23.4-39.8)	38.4	(30.4-47.0)
<b>Region 12</b>	870	30.7	(27.0-34.7)	38.0	(34.1-42.2)	31.2	(27.0-34.7)
Luce-Mackinac-Alger-Schoolcraft	125	28.6	(20.4-38.5)	38.6	(28.4-49.8)	32.9	(22.3-45.5)
Western Upper Peninsula	177	32.5	(24.9-41.0)	34.9	(27.3-43.4)	32.6	(24.5-41.9)
Delta-Menominee	190	27.9	(20.5-36.7)	36.9	(28.1-46.7)	35.2	(26.9-44.5)
Chippewa	97	32.2	(21.4-45.5)	26.2	(17.2-37.7)	41.6	(28.4-56.2)
Dickinson-Iron	128	33.7	(23.9-45.1)	34.0	(24.7-44.7)	32.3	(24.0-42.0)
Marquette	153	30.5	(22.3-40.2)	52.7	(43.3-61.9)	16.8	(11.7-23.6)

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

<sup>a</sup> The proportion of respondents whose BMI was greater than or equal to 30.0.

<sup>b</sup> The proportion of respondents whose BMI was greater than or equal to 25.0, but less than 30.0.

<sup>c</sup> The proportion of respondents whose BMI was less than 25.0.

<sup>d</sup> 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.

<b>Table 9: No Health Care Coverage Among Those Aged 18-64 Years Michigan BRFSS, 2006-2008 Combined</b>			
<b>Geographic Area</b>	<b>No Health Care Coverage<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>15,876</b>	<b>14.2</b>	<b>(13.4-14.9)</b>
<b>Region 1</b>	6,940	13.4	(12.3-14.6)
Livingston	265	12.9	(8.1-19.9)
Macomb	935	13.6	(10.9-16.8)
Monroe	222	9.3	(5.7-14.8)
Oakland	1,603	8.7	(6.9-10.7)
St. Clair	263	17.1	(11.8-24.2)
Washtenaw	513	7.5	(5.0-11.2)
City of Detroit	1,597	25.3	(22.1-28.8)
Wayne exc. Detroit	1,520	11.8	(9.6-14.5)
<b>Region 2</b>	970	14.8	(11.7-18.5)
Genesee	734	13.2	(10.1-17.2)
Lapeer	128	19.6	(11.6-31.0)
Shiawassee	108	18.2	(8.9-33.4)
<b>Region 3</b>	440	11.3	(7.9-15.8)
Jackson	279	13.8	(9.2-20.2)
Lenawee	161	7.0	(3.5-13.4)
<b>Region 4</b>	960	10.8	(8.4-13.7)
Barry-Eaton	295	12.9	(8.6-18.9)
Mid-Michigan <sup>b</sup>	372	8.3	(5.3-12.9)
Ingham	450	11.5	(8.0-16.3)
<b>Region 5</b>	830	16.1	(13.0-19.8)
Branch-Hillsdale-St. Joseph	218	15.8	(10.6-22.9)
Calhoun	213	18.9	(12.8-27.0)
Kalamazoo	399	14.7	(10.3-20.6)
<b>Region 6</b>	553	11.7	(8.4-16.0)
Van Buren-Cass	220	11.1	(6.4-18.6)
Berrien	333	12.2	(8.1-17.8)
<b>Region 7</b>	1,738	11.8	(9.9-14.1)
Allegan	167	17.3	(10.8-26.5)
Ionia	103	17.3	(9.0-30.5)
Kent	888	11.4	(8.9-14.6)
Mid-Michigan <sup>b</sup>	372	8.3	(5.3-12.9)
Ottawa	423	9.6	(6.3-14.4)

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<b>Table 9 Cont'd</b>			
<b>Geographic Area</b>	<b>No Health Care Coverage<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>15,876</b>	<b>14.2</b>	<b>(13.4-14.9)</b>
<b>Region 8</b>	801	18.8	(15.3-23.0)
District #10	502	19.5	(15.1-24.8)
Muskegon	299	17.7	(12.3-24.9)
<b>Region 9</b>	756	18.5	(15.2-22.4)
District #2	142	19.5	(12.5-29.0)
District #4	158	18.7	(12.5-26.9)
Northwest Michigan	234	18.2	(13.0-24.8)
Benzie-Leelanau	68	20.7	(10.1-37.8)
Grand Traverse	154	17.0	(9.9-27.6)
<b>Region 10</b>	782	14.0	(11.0-17.8)
Bay	181	18.4	(11.7-27.6)
Huron	51	9.3	(4.0-20.1)
Saginaw	403	13.6	(9.5-19.0)
Sanilac	68	12.4	(6.2-23.3)
Tuscola	79	9.4	(3.7-21.8)
<b>Region 11</b>	490	21.8	(17.0-27.4)
Central Michigan	335	22.8	(17.2-29.6)
Midland	155	19.4	(11.6-30.5)
<b>Region 12</b>	608	18.3	(14.5-22.9)
Luce-Mackinac-Alger-Schoolcraft	95	16.2	(9.2-26.9)
Western Upper Peninsula	126	17.1	(10.4-26.7)
Delta-Menominee	121	26.4	(16.3-39.8)
Chippewa	65	19.0	(8.1-38.3)
Dickinson-Iron	86	10.6	(4.5-22.8)
Marquette	115	17.9	(11.4-27.0)

<sup>a</sup> 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.  
<sup>b</sup> 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, 2006-2008 Combined**

Geographic Area	No Personal Health Care Provider <sup>a</sup>			No Health Care Access During Past 12 Months Due to Cost <sup>b</sup>		
	N	%	95% Confidence Interval	N	%	95% Confidence Interval
<b>Michigan Total</b>	<b>22,546</b>	<b>13.3</b>	<b>(12.7-14.0)</b>	<b>22,572</b>	<b>12.0</b>	<b>(11.4-12.6)</b>
<b>Region 1</b>	9,834	13.7	(12.6-14.7)	9,845	12.0	(11.1-12.9)
Livingston	356	13.3	(9.0-19.2)	356	9.8	(6.2-15.2)
Macomb	1,327	13.3	(10.9-16.3)	1,328	12.3	(10.1-15.0)
Monroe	300	10.7	(6.6-17.0)	300	7.5	(4.6-11.9)
Oakland	2,336	11.0	(9.2-13.0)	2,334	9.3	(7.8-11.1)
St. Clair	347	17.0	(12.0-23.4)	346	12.2	(8.1-17.9)
Washtenaw	665	10.7	(7.6-14.8)	666	7.6	(5.4-10.6)
City of Detroit	2,303	21.5	(18.8-24.5)	2,311	18.7	(16.3-21.4)
Wayne exc. Detroit	2,154	12.2	(10.2-14.5)	2,154	12.3	(10.4-14.5)
<b>Region 2</b>	1,380	11.3	(9.1-14.1)	1,378	14.0	(11.6-16.7)
Genesee	1,028	12.4	(9.6-15.9)	1,027	13.6	(10.9-16.7)
Lapeer	184	11.6	(6.8-19.2)	185	13.3	(8.3-20.5)
Shiawassee	168	5.2	(2.7-9.8)	166	16.8	(10.1-26.5)
<b>Region 3</b>	626	9.3	(6.5-13.0)	627	6.8	(4.7-9.9)
Jackson	395	10.6	(7.0-15.7)	395	8.0	(5.2-12.3)
Lenawee	231	7.1	(3.6-13.3)	232	4.8	(2.3-9.9)
<b>Region 4</b>	1,310	14.0	(11.3-17.3)	1,310	10.6	(8.6-13.0)
Barry-Eaton	398	11.6	(7.9-16.7)	397	12.2	(8.6-16.9)
Mid-Michigan <sup>c</sup>	519	8.9	(6.0-13.2)	521	8.2	(5.7-11.8)
Ingham	619	18.4	(13.8-24.1)	618	10.6	(7.7-14.3)
<b>Region 5</b>	1,166	17.5	(14.5-21.0)	1,167	11.8	(9.4-14.6)
Branch-Hillsdale-St. Joseph	314	19.1	(13.7-26.1)	313	13.1	(9.0-18.7)
Calhoun	293	15.2	(10.3-21.8)	294	12.5	(8.2-18.7)
Kalamazoo	559	17.9	(13.5-23.3)	560	10.6	(7.4-14.9)
<b>Region 6</b>	787	20.1	(16.4-24.5)	790	11.2	(8.8-14.1)
Van Buren-Cass	305	22.0	(16.0-29.6)	306	10.4	(7.0-15.1)
Berrien	482	18.6	(14.2-24.0)	484	11.8	(8.7-15.8)



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<b>Table 10 Cont'd</b>						
<b>Geographic Area</b>	<b>No Personal Health Care Provider<sup>a</sup></b>			<b>No Health Care Access During Past 12 Months Due to Cost<sup>b</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>22,546</b>	<b>13.3</b>	<b>(12.7-14.0)</b>	<b>22,572</b>	<b>12.0</b>	<b>(11.4-12.6)</b>
<b>Region 7</b>	2,341	9.0	(7.4-10.9)	2,344	11.0	(9.2-13.1)
Allegan	220	8.8	(4.8-15.5)	220	10.6	(6.2-17.5)
Ionia	140	14.7	(8.1-25.1)	140	8.9	(4.3-17.2)
Kent	1,191	9.6	(7.4-12.5)	1,193	12.8	(10.0-16.2)
Mid-Michigan <sup>c</sup>	519	8.9	(6.0-13.2)	521	8.2	(5.7-11.8)
Ottawa	564	5.8	(3.6-9.4)	565	8.9	(6.1-12.8)
<b>Region 8</b>	1,172	10.5	(8.3-13.2)	1,170	13.0	(10.6-15.9)
District #10	730	11.5	(8.8-15.0)	729	13.1	(10.2-16.8)
Muskegon	442	8.8	(5.6-13.6)	441	12.8	(9.0-17.9)
<b>Region 9</b>	1,126	12.9	(10.5-15.9)	1,131	15.5	(12.9-18.5)
District #2	221	14.9	(9.3-22.9)	221	16.0	(11.1-22.5)
District #4	256	14.8	(10.1-21.2)	259	16.3	(11.6-22.5)
Northwest Michigan	323	12.8	(8.5-18.7)	324	18.3	(13.0-25.0)
Benzie-Leelanau	105	12.8	(6.1-25.0)	106	16.8	(8.7-29.7)
Grand Traverse	221	9.4	(5.5-15.5)	221	9.3	(5.3-15.6)
<b>Region 10</b>	1,174	12.6	(9.9-15.8)	1,174	10.9	(8.8-13.4)
Bay	268	17.2	(11.1-25.7)	268	11.3	(7.3-17.1)
Huron	100	13.1	(6.8-23.7)	100	6.0	(2.8-12.7)
Saginaw	584	12.1	(8.6-16.9)	585	12.0	(8.9-16.1)
Sanilac	105	9.3	(4.4-18.4)	104	13.8	(7.3-24.5)
Tuscola	117	5.1	(1.8-13.5)	117	7.3	(3.6-14.1)
<b>Region 11</b>	696	18.4	(14.4-23.2)	701	16.7	(13.1-21.1)
Central Michigan	480	19.9	(15.0-26.0)	482	18.5	(14.1-23.9)
Midland	216	14.8	(9.2-23.0)	219	12.7	(7.3-21.3)
<b>Region 12</b>	914	18.3	(14.8-22.4)	915	11.3	(8.8-14.4)
Luce-Mackinac-Alger-Schoolcraft	132	16.5	(9.0-28.1)	130	7.6	(4.0-14.1)
Western Upper Peninsula	188	21.6	(14.7-30.7)	188	12.2	(7.9-18.4)
Delta-Menominee	196	18.4	(11.3-28.5)	198	17.1	(10.0-27.7)
Chippewa	101	22.6	(10.9-40.9)	101	11.0	(5.7-20.2)
Dickinson-Iron	132	10.1	(4.6-20.8)	133	9.0	(4.3-18.2)
Marquette	165	19.4	(12.5-28.7)	165	8.5	(4.6-15.2)

<sup>a</sup> The proportion who reported that they did not have anyone that they thought of as their personal doctor or health care provider.  
<sup>b</sup> 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.  
<sup>c</sup> 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.

<b>Table 11: No Leisure-Time Physical Activity Michigan BRFSS, 2006-2008 Combined</b>			
<b>Geographic Area</b>	<b>No Leisure-Time Physical Activity<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>22,594</b>	<b>23.1</b>	<b>(22.4-23.8)</b>
<b>Region 1</b>	9,854	22.5	(21.5-23.6)
Livingston	355	13.6	(10.1-18.2)
Macomb	1,329	22.2	(19.6-25.0)
Monroe	299	24.3	(18.9-30.8)
Oakland	2,337	18.7	(16.8-20.9)
St. Clair	346	19.9	(15.7-24.9)
Washtenaw	666	18.4	(14.7-22.8)
City of Detroit	2,317	31.9	(29.1-34.7)
Wayne exc. Detroit	2,155	23.5	(21.3-25.9)
<b>Region 2</b>	1,381	27.4	(24.1-30.9)
Genesee	1,028	29.1	(25.2-33.3)
Lapeer	185	18.7	(13.2-25.7)
Shiawassee	168	27.1	(18.3-38.2)
<b>Region 3</b>	627	22.4	(19.0-26.3)
Jackson	396	21.4	(17.1-26.3)
Lenawee	231	24.3	(18.7-30.9)
<b>Region 4</b>	1,313	21.1	(18.5-24.0)
Barry-Eaton	398	21.9	(17.2-27.6)
Mid-Michigan <sup>b</sup>	520	22.2	(18.3-26.7)
Ingham	620	19.5	(15.9-23.6)
<b>Region 5</b>	1,169	21.1	(18.3-24.2)
Branch-Hillsdale-St. Joseph	312	21.5	(16.6-27.5)
Calhoun	294	21.5	(16.2-28.0)
Kalamazoo	563	20.5	(16.5-25.2)
<b>Region 6</b>	790	24.2	(20.8-28.0)
Van Buren-Cass	306	25.6	(20.2-32.0)
Berrien	484	23.2	(19.1-27.9)
<b>Region 7</b>	2,346	20.0	(17.8-22.2)
Allegan	221	21.0	(13.0-32.0)
Ionia	140	21.3	(13.7-31.4)
Kent	1,194	20.1	(17.2-23.3)
Mid-Michigan <sup>b</sup>	520	22.2	(18.3-26.7)
Ottawa	566	18.9	(15.2-23.2)

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<b>Table 11 Cont'd</b>			
<b>Geographic Area</b>	<b>No Leisure-Time Physical Activity<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>22,594</b>	<b>23.1</b>	<b>(22.4-23.8)</b>
<b>Region 8</b>	1,172	27.4	(24.2-30.9)
District #10	729	26.5	(22.6-30.8)
Muskegon	443	29.1	(23.6-35.2)
<b>Region 9</b>	1,131	26.3	(23.1-29.7)
District #2	221	33.2	(25.9-41.4)
District #4	259	28.2	(22.3-35.1)
Northwest Michigan	324	25.9	(19.9-32.9)
Benzie-Leelanau	106	29.0	(19.0-41.5)
Grand Traverse	221	16.6	(11.6-23.2)
<b>Region 10</b>	1,174	27.3	(24.2-30.7)
Bay	267	24.2	(18.4-31.1)
Huron	100	25.2	(15.9-37.5)
Saginaw	585	30.5	(25.8-35.6)
Sanilac	105	27.3	(18.9-37.7)
Tuscola	117	23.9	(16.0-34.2)
<b>Region 11</b>	700	24.4	(20.7-28.5)
Central Michigan	481	28.9	(24.1-34.2)
Midland	219	14.5	(9.8-20.8)
<b>Region 12</b>	917	22.4	(19.4-25.8)
Luce-Mackinac-Alger-Schoolcraft	132	20.7	(14.1-29.4)
Western Upper Peninsula	188	23.6	(17.4-31.3)
Delta-Menominee	198	24.2	(17.6-32.4)
Chippewa	101	26.2	(16.0-39.8)
Dickinson-Iron	133	15.3	(9.9-22.8)
Marquette	165	23.6	(17.0-31.7)

<sup>a</sup> 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.

<sup>b</sup> 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.

<b>Table 12: Inadequate Physical Activity Michigan BRFSS, 2007 and 2008 Combined</b>			
<b>Geographic Area</b>	<b>Inadequate Physical Activity<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>12,639</b>	<b>49.4</b>	<b>(48.3-50.6)</b>
<b>Region 1</b>	5,658	50.7	(48.9-52.5)
Livingston	211	45.7	(37.4-54.3)
Macomb	704	50.9	(46.0-55.7)
Monroe	146	43.1	(34.1-52.6)
Oakland	1,332	50.7	(47.0-54.3)
St. Clair	180	52.7	(43.5-61.7)
Washtenaw	379	46.0	(39.5-52.6)
City of Detroit	1,490	55.1	(51.3-58.9)
Wayne exc. Detroit	1,205	50.8	(46.9-54.7)
<b>Region 2</b>	768	48.8	(43.9-53.8)
Genesee	571	48.0	(42.2-53.9)
Lapeer	103	55.0	(42.9-66.5)
Shiawassee	94	46.4	(34.2-59.0)
<b>Region 3</b>	360	48.2	(41.8-54.7)
Jackson	227	45.3	(34.6-56.4)
Lenawee	133	45.3	(34.6-56.4)
<b>Region 4</b>	698	45.2	(40.4-50.1)
Barry-Eaton	207	45.1	(36.7-53.8)
Mid-Michigan <sup>b</sup>	302	46.2	(39.0-53.5)
Ingham	327	48.1	(40.7-55.6)
<b>Region 5</b>	649	47.7	(43.0-52.5)
Branch-Hillsdale-St. Joseph	180	43.8	(35.3-52.6)
Calhoun	157	49.6	(40.0-59.3)
Kalamazoo	312	49.2	(42.3-56.2)
<b>Region 6</b>	417	49.4	(42.9-55.8)
Van Buren-Cass	152	48.9	(38.3-59.5)
Berrien	265	49.7	(41.8-57.7)
<b>Region 7</b>	1,279	49.4	(45.7-53.0)
Allegan	112	43.0	(32.2-54.4)
Ionia	72	51.3	(37.8-64.6)
Kent	646	50.1	(44.9-55.2)
Mid-Michigan <sup>b</sup>	302	46.2	(39.0-53.5)
Ottawa	311	47.7	(40.4-55.1)

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<b>Table 12 Cont'd</b>			
<b>Geographic Area</b>	<b>Inadequate Physical Activity<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>12,639</b>	<b>49.4</b>	<b>(48.3-50.6)</b>
<b>Region 8</b>	624	47.9	(42.8-53.0)
District #10	375	47.4	(41.0-53.9)
Muskegon	249	48.6	(40.2-57.2)
<b>Region 9</b>	626	46.8	(41.8-51.8)
District #2	123	52.3	(41.4-63.0)
District #4	145	48.2	(38.9-57.6)
Northwest Michigan	186	43.3	(33.9-53.2)
Benzie-Leelanau	51	47.6	(31.0-64.6)
Grand Traverse	121	45.1	(33.9-56.8)
<b>Region 10</b>	683	55.2	(50.3-60.0)
Bay	147	52.8	(42.4-63.0)
Huron	52	48.5	(31.6-65.7)
Saginaw	357	59.8	(52.9-66.4)
Sanilac	60	42.5	(28.8-57.5)
Tuscola	67	56.6	(42.3-69.8)
<b>Region 11</b>	383	47.4	(40.9-54.0)
Central Michigan	255	48.0	(40.0-56.2)
Midland	128	46.1	(35.4-57.1)
<b>Region 12</b>	487	47.6	(42.0-53.4)
Luce-Mackinac-Alger-Schoolcraft	78	32.2	(21.6-45.1)
Western Upper Peninsula	101	44.3	(33.3-55.9)
Delta-Menominee	93	59.4	(46.1-71.4)
Chippewa	61	44.0	(27.8-61.5)
Dickinson-Iron	67	52.1	(37.7-66.1)
Marquette	87	51.3	(38.7-63.8)

<sup>a</sup> 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.

<sup>b</sup> 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.

<b>Table 13: Inadequate Fruit and Vegetable Consumption Michigan BRFSS, 2007 and 2008 Combined</b>			
<b>Geographic Area</b>	<b>Inadequate Fruit and Vegetable Consumption<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>13,401</b>	<b>78.5</b>	<b>(77.6-79.4)</b>
<b>Region 1</b>	6,001	76.3	(74.9-77.7)
Livingston	223	79.8	(72.7-85.5)
Macomb	738	77.4	(73.4-80.9)
Monroe	154	77.3	(68.5-84.3)
Oakland	1,402	74.3	(71.2-77.2)
St. Clair	196	82.7	(76.0-87.8)
Washtenaw	396	73.7	(68.3-78.5)
City of Detroit	1,602	74.3	(71.0-77.3)
Wayne exc. Detroit	1,281	78.0	(75.0-80.7)
<b>Region 2</b>	807	82.8	(79.4-85.8)
Genesee	597	83.3	(79.5-86.6)
Lapeer	108	80.4	(68.2-88.7)
Shiawassee	102	82.7	(73.1-89.4)
<b>Region 3</b>	377	80.0	(74.5-84.5)
Jackson	237	82.4	(76.4-87.1)
Lenawee	140	76.1	(65.1-84.4)
<b>Region 4</b>	737	78.8	(74.4-82.7)
Barry-Eaton	219	79.7	(72.6-85.3)
Mid-Michigan <sup>b</sup>	327	83.7	(78.8-87.6)
Ingham	343	74.8	(67.0-81.3)
<b>Region 5</b>	685	79.8	(76.0-83.2)
Branch-Hillsdale-St. Joseph	195	80.3	(72.8-86.1)
Calhoun	163	80.2	(72.3-86.3)
Kalamazoo	327	79.4	(73.7-84.1)
<b>Region 6</b>	450	78.9	(73.0-83.8)
Van Buren-Cass	163	79.8	(68.5-87.7)
Berrien	287	78.2	(71.5-83.7)

<b>Table 13 Cont'd</b>			
<b>Geographic Area</b>	<b>Inadequate Fruit and Vegetable Consumption<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>13,401</b>	<b>78.5</b>	<b>(77.6-79.4)</b>
<b>Region 7</b>	1,345	80.1	(77.1-82.7)
Allegan	121	80.6	(71.2-87.4)
Ionia	77	80.5	(69.7-88.1)
Kent	670	78.3	(73.6-82.3)
Mid-Michigan <sup>b</sup>	327	83.7	(78.8-87.6)
Ottawa	325	83.1	(77.7-87.4)
<b>Region 8</b>	664	81.6	(77.7-84.9)
District #10	402	76.5	(71.0-81.3)
Muskegon	262	90.3	(86.0-83.3)
<b>Region 9</b>	663	76.3	(72.1-80.0)
District #2	126	79.1	(68.1-87.0)
District #4	155	76.8	(67.4-84.1)
Northwest Michigan	197	75.5	(67.6-82.0)
Benzie-Leelanau	53	81.5	(67.9-90.1)
Grand Traverse	132	72.0	(61.9-80.3)
<b>Region 10</b>	724	81.7	(77.8-85.1)
Bay	155	80.7	(70.3-88.1)
Huron	56	84.8	(73.5-91.9)
Saginaw	378	82.0	(76.3-86.5)
Sanilac	65	7.7	(63.0-85.1)
Tuscola	70	85.6	(74.3-92.4)
<b>Region 11</b>	410	80.1	(74.7-84.6)
Central Michigan	277	82.9	(76.7-87.7)
Midland	133	74.1	(63.0-82.7)
<b>Region 12</b>	527	79.4	(74.6-83.4)
Luce-Mackinac-Alger-Schoolcraft	80	65.5	(49.1-78.8)
Western Upper Peninsula	112	80.4	(71.5-87.0)
Delta-Menominee	101	78.7	(67.5-86.9)
Chippewa	68	82.7	(66.1-92.1)
Dickinson-Iron	75	78.7	(67.8-86.7)
Marquette	91	87.8	(77.4-93.8)

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

<sup>b</sup> 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, 2006-2008 Combined**

Geographic Area	Sample Size	Current Smoking <sup>a</sup>		Former Smoking <sup>b</sup>		Never Smoked	
		N	%	95% Confidence Interval	%	95% Confidence Interval	%
<b>Michigan Total</b>	<b>22,512</b>	<b>21.0</b>	<b>(20.2-21.7)</b>	<b>25.4</b>	<b>(24.7-26.1)</b>	<b>53.6</b>	<b>(52.8-54.5)</b>
<b>Region 1</b>	9,809	20.0	(18.9-21.2)	25.7	(24.6-26.7)	54.3	(53.0-55.6)
Livingston	356	19.3	(14.2-25.7)	31.1	(25.6-37.3)	49.6	(43.0-56.2)
Macomb	1,323	20.6	(17.9-23.5)	26.8	(24.0-29.7)	52.6	(49.2-56.1)
Monroe	300	18.7	(13.8-24.8)	30.8	(24.8-37.6)	50.5	(43.4-57.6)
Oakland	2,327	16.8	(14.7-19.1)	27.4	(25.3-29.6)	55.8	(53.2-58.5)
St. Clair	345	22.7	(17.6-28.9)	27.0	(21.9-32.7)	50.3	(43.8-56.8)
Washtenaw	665	12.6	(9.5-16.6)	21.6	(18.3-25.2)	35.8	(61.2-70.1)
City of Detroit	2,299	24.6	(22.0-27.4)	17.6	(15.8-19.7)	57.8	(54.8-60.7)
Wayne exc. Detroit	2,145	22.0	(19.6-24.6)	28.4	(26.0-30.8)	49.7	(46.8-52.5)
<b>Region 2</b>	1,379	23.5	(20.5-26.7)	23.9	(21.3-26.6)	52.7	(49.1-56.2)
Genesee	1,027	24.6	(21.1-28.5)	21.9	(19.0-25.0)	53.5	(49.3-57.7)
Lapeer	185	17.3	(11.7-24.8)	32.7	(25.3-40.9)	50.1	(41.3-58.9)
Shiawassee	167	23.9	(16.3-33.7)	25.2	(18.2-33.8)	50.8	(40.5-61.1)
<b>Region 3</b>	627	17.2	(13.9-21.0)	27.8	(23.8-32.2)	55.1	(50.2-59.8)
Jackson	395	17.3	(13.2-22.3)	28.1	(23.2-33.6)	54.6	(48.6-60.5)
Lenawee	232	16.9	(12.0-23.4)	27.3	(20.8-34.9)	55.8	(47.7-63.6)
<b>Region 4</b>	1,307	19.4	(16.5-22.7)	24.2	(21.7-27.4)	56.4	(52.8-59.9)
Barry-Eaton	396	22.5	(17.4-28.5)	25.0	(20.5-30.2)	52.5	(46.3-58.6)
Mid-Michigan <sup>c</sup>	519	18.9	(15.1-23.5)	23.8	(19.8-28.4)	57.3	(51.8-62.5)
Ingham	617	18.9	(14.5-24.3)	23.7	(19.9-28.0)	57.4	(52.0-62.6)
<b>Region 5</b>	1,166	22.9	(19.7-26.5)	24.4	(21.7-27.4)	52.7	(49.0-56.3)
Branch-Hillsdale-St. Joseph	313	20.0	(14.8-26.6)	25.7	(20.5-31.7)	54.2	(47.4-60.9)
Calhoun	293	26.9	(20.5-34.4)	19.8	(15.1-25.5)	53.3	(45.7-60.7)
Kalamazoo	560	22.3	(17.6-27.9)	26.2	(22.3-30.6)	51.4	(46.1-56.7)
<b>Region 6</b>	789	18.8	(15.4-22.7)	24.0	(20.7-27.7)	57.2	(52.6-61.6)
Van Buren-Cass	306	20.1	(14.9-26.5)	22.6	(17.9-28.3)	57.3	(50.0-64.2)
Berrien	483	17.8	(13.6-22.8)	25.1	(20.7-30.2)	57.1	(51.3-62.7)
<b>Region 7</b>	2,339	19.2	(17.1-21.5)	24.3	(22.1-26.6)	56.5	(53.9-59.2)
Allegan	220	20.0	(14.1-27.4)	29.8	(21.2-40.1)	50.2	(41.1-59.3)
Ionia	140	20.4	(12.7-31.2)	22.3	(15.3-31.4)	57.2	(46.8-67.0)
Kent	1,189	20.4	(17.3-23.8)	23.0	(20.2-26.1)	56.6	(52.9-60.3)
Mid-Michigan <sup>c</sup>	519	18.9	(15.1-23.5)	23.8	(19.8-28.4)	57.3	(51.8-62.5)
Ottawa	565	14.8	(11.3-19.2)	25.8	(21.6-30.5)	59.4	(54.1-64.5)



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Table 14 Cont'd							
Geographic Area	Sample Size	Current Smoking <sup>a</sup>		Former Smoking <sup>b</sup>		Never Smoked	
	N	%	95% Confidence Interval	%	95% Confidence Interval	%	95% Confidence Interval
<b>Michigan Total</b>	<b>22,512</b>	<b>21.0</b>	<b>(20.2-21.7)</b>	<b>25.4</b>	<b>(24.7-26.1)</b>	<b>53.6</b>	<b>(52.8-54.5)</b>
<b>Region 8</b>	1,168	26.9	(23.5-30.6)	23.2	(20.5-26.1)	49.9	(46.1-53.6)
District #10	725	24.7	(20.7-29.2)	24.8	(21.3-28.6)	50.5	(45.8-55.2)
Muskegon	443	30.7	(24.9-37.1)	20.5	(16.6-25.1)	48.8	(42.6-55.1)
<b>Region 9</b>	1,129	22.8	(19.8-26.1)	28.4	(25.5-31.5)	48.8	(45.1-52.5)
District #2	221	26.2	(19.1-34.7)	32.1	(25.4-39.6)	41.7	(34.0-49.9)
District #4	258	26.9	(20.6-34.3)	25.3	(19.9-31.5)	47.8	(40.7-55.0)
Northwest Michigan	325	24.2	(18.9-30.5)	28.1	(22.8-34.0)	47.7	(40.7-54.8)
Benzie-Leelanau	105	9.7	(5.3-17.2)	27.5	(18.5-38.8)	62.8	(51.1-73.2)
Grand Traverse	220	19.3	(13.3-27.2)	29.4	(22.9-36.8)	51.3	(42.7-59.8)
<b>Region 10</b>	1,171	20.4	(17.4-23.7)	26.9	(24.0-30.1)	52.7	(49.0-56.4)
Bay	268	22.2	(16.1-29.7)	26.2	(20.7-32.6)	51.6	(44.0-59.1)
Huron	99	15.4	(7.3-29.7)	26.4	(18.0-37.0)	58.2	(45.6-69.8)
Saginaw	583	20.5	(16.3-25.5)	27.3	(22.9-32.1)	52.2	(46.8-57.6)
Sanilac	105	24.8	(16.6-35.4)	32.9	(23.3-44.2)	42.3	(32.2-53.1)
Tuscola	116	15.8	(9.6-24.8)	23.0	(15.1-33.4)	61.2	(50.0-71.4)
<b>Region 11</b>	696	25.4	(21.0-30.4)	25.9	(22.3-29.8)	48.7	(43.9-53.5)
Central Michigan	479	26.0	(20.7-32.1)	29.3	(24.7-34.3)	44.8	(39.0-50.6)
Midland	217	24.1	(16.7-33.4)	18.5	(13.5-24.8)	57.4	(48.9-65.6)
<b>Region 12</b>	913	24.1	(20.5-28.1)	27.6	(24.4-31.1)	48.3	(44.2-52.4)
Luce-Mackinac-Alger-Schoolcraft	132	26.6	(17.4-38.5)	26.4	(18.7-35.9)	47.0	(36.3-58.0)
Western Upper Peninsula	188	16.0	(10.5-23.7)	37.7	(29.9-46.1)	46.3	(37.8-55.1)
Delta-Menominee	198	28.7	(20.5-38.7)	17.0	(12.2-23.2)	54.3	(45.0-63.2)
Chippewa	98	30.0	(19.0-43.8)	25.2	(16.6-36.5)	44.8	(31.7-58.6)
Dickinson-Iron	133	28.0	(18.9-39.4)	26.2	(18.8-35.4)	45.8	(35.8-56.1)
Marquette	164	19.1	(12.9-27.2)	32.2	(24.5-41.0)	48.8	(39.8-57.8)

<sup>a</sup> 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.

<sup>b</sup> 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.

<sup>c</sup> 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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<b>Table 15: Alcohol Consumption Michigan BRFSS, 2006-2008 Combined</b>						
<b>Geographic Area</b>	<b>Heavy Drinking<sup>a</sup></b>			<b>Binge Drinking<sup>b</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>21,913</b>	<b>5.6</b>	<b>(5.1-6.0)</b>	<b>22,119</b>	<b>17.9</b>	<b>(17.1-18.6)</b>
<b>Region 1</b>	9,537	5.6	(5.0-6.3)	9,633	17.5	(16.3-18.6)
Livingston	340	10.9	(7.0-16.6)	344	23.4	(17.6-30.3)
Macomb	1,290	7.2	(5.4-9.7)	1,301	18.6	(15.8-21.8)
Monroe	291	3.5	(1.9-6.5)	295	23.4	(17.3-30.9)
Oakland	2,266	4.8	(3.7-6.3)	2,293	17.6	(15.4-20.1)
St. Clair	338	9.0	(5.3-14.8)	344	18.6	(13.7-24.9)
Washtenaw	648	4.1	(2.7-5.9)	652	13.5	(10.2-17.8)
City of Detroit	2,244	4.5	(3.3-6.0)	2,264	12.3	(10.3-14.5)
Wayne exc. Detroit	2,100	5.4	(4.2-6.8)	2,120	19.3	(16.9-21.8)
<b>Region 2</b>	1,330	4.2	(2.9-5.9)	1,350	16.2	(13.5-19.3)
Genesee	989	5.0	(3.4-7.3)	1,004	16.2	(13.2-19.9)
Lapeer	178	1.0	(0.3-4.2)	180	16.5	(10.1-25.9)
Shiawassee	163	2.8	(1.0-8.0)	166	15.7	(9.5-24.8)
<b>Region 3</b>	615	6.5	(4.1-10.1)	622	20.7	(16.4-25.9)
Jackson	387	5.5	(3.4-8.7)	390	20.3	(15.1-26.6)
Lenawee	228	8.2	(3.6-17.6)	232	21.5	(14.4-30.9)
<b>Region 4</b>	1,273	4.8	(3.3-6.9)	1,288	18.2	(15.2-21.6)
Barry-Eaton	384	2.7	(1.5-4.9)	387	17.4	(12.7-23.4)
Mid-Michigan <sup>c</sup>	513	3.9	(2.0-7.6)	514	15.1	(11.3-19.8)
Ingham	601	6.9	(4.1-11.2)	611	19.4	(14.7-25.2)
<b>Region 5</b>	1,131	4.9	(3.4-6.9)	1,153	16.4	(13.5-19.7)
Branch-Hillsdale-St. Joseph	305	5.4	(2.7-10.6)	307	15.5	(10.9-21.7)
Calhoun	285	3.3	(1.8-6.2)	290	14.0	(9.3-20.7)
Kalamazoo	541	5.5	(3.3-8.9)	556	18.1	(13.8-23.4)
<b>Region 6</b>	769	4.9	(3.2-7.4)	772	16.9	(13.2-21.3)
Van Buren-Cass	299	4.8	(2.6-8.8)	300	19.9	(13.8-27.9)
Berrien	470	4.9	(2.7-8.8)	472	14.5	(10.5-19.7)
<b>Region 7</b>	2,293	4.8	(3.7-6.2)	2,309	17.1	(15.1-19.4)
Allegan	216	6.2	(3.1-11.7)	218	20.2	(13.9-28.3)
Ionia	136	5.7	(2.4-12.7)	138	20.4	(13.1-30.2)
Kent	1,168	4.7	(3.4-6.6)	1,174	16.8	(14.0-20.0)
Mid-Michigan <sup>c</sup>	513	3.9	(2.0-7.6)	514	15.1	(11.3-19.8)
Ottawa	548	4.2	(2.3-7.5)	555	17.4	(13.4-22.3)

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Table 15 Cont'd						
Geographic Area	Heavy Drinking <sup>a</sup>			Binge Drinking <sup>b</sup>		
	N	%	95% Confidence Interval	N	%	95% Confidence Interval
<b>Michigan Total</b>	<b>21,913</b>	<b>5.6</b>	<b>(5.1-6.0)</b>	<b>22,119</b>	<b>17.9</b>	<b>(17.1-18.6)</b>
<b>Region 8</b>	1,137	7.5	(5.6-10.0)	1,145	21.5	(18.3-25.1)
District #10	711	7.5	(5.0-10.9)	713	18.5	(14.9-22.7)
Muskegon	426	7.5	(4.8-11.5)	432	26.7	(20.9-33.5)
<b>Region 9</b>	1,099	7.5	(5.8-9.7)	1,103	17.3	(14.4-20.5)
District #2	215	6.7	(3.3-13.3)	216	16.8	(10.8-25.3)
District #4	250	7.0	(4.2-11.4)	251	21.6	(15.7-29.0)
Northwest Michigan	318	6.5	(3.9-10.8)	318	16.9	(12.1-22.9)
Benzie-Leelanau	104	10.6	(5.1-20.9)	102	15.6	(7.9-28.5)
Grand Traverse	212	8.8	(5.1-14.7)	216	14.3	(9.2-21.6)
<b>Region 10</b>	1,140	5.5	(4.0-7.6)	1,147	19.4	(16.4-22.8)
Bay	262	8.2	(4.5-14.3)	260	23.6	(17.4-31.3)
Huron	96	4.0	(1.4-10.6)	98	13.1	(7.1-22.9)
Saginaw	569	5.2	(3.4-7.9)	569	18.8	(14.5-24.1)
Sanilac	101	0.0	(---)	103	21.3	(12.9-33.2)
Tuscola	112	5.9	(2.5-13.1)	117	15.1	(8.5-25.3)
<b>Region 11</b>	687	3.8	(2.2-6.4)	691	15.4	(11.9-19.7)
Central Michigan	472	4.4	(2.4-8.1)	474	14.4	(10.5-19.4)
Midland	215	2.3	(0.9-5.6)	217	17.6	(11.2-26.6)
<b>Region 12</b>	884	7.9	(5.6-11.1)	887	23.4	(19.7-27.6)
Luce-Mackinac-Alger-Schoolcraft	130	12.0	(5.2-25.5)	131	24.6	(15.5-36.9)
Western Upper Peninsula	179	10.9	(6.2-18.2)	180	28.5	(20.9-37.6)
Delta-Menominee	192	3.6	(1.6-7.8)	194	22.0	(14.6-31.7)
Chippewa	93	11.5	(3.5-31.7)	93	32.1	(19.3-48.3)
Dickinson-Iron	130	3.9	(1.8-8.3)	130	18.1	(10.9-28.5)
Marquette	160	7.7	(3.7-15.3)	159	17.8	(11.6-26.2)

<sup>a</sup> 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.

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

<sup>c</sup> 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.

<b>Table 16: Drove Motor Vehicle After Drinking Michigan BRFSS, 2006 and 2008 Combined</b>			
<b>Geographic Area</b>	<b>Drove Motor Vehicle After Drinking<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>14,906</b>	<b>2.7</b>	<b>(2.3-3.0)</b>
<b>Region 1</b>	6,373	2.8	(2.3-3.5)
Livingston	235	3.6	(1.1-10.8)
Macomb	907	3.3	(1.8-6.1)
Monroe	208	3.3	(1.0-11.0)
Oakland	1,532	2.8	(1.8-4.3)
St. Clair	224	1.5	(0.5-4.0)
Washtenaw	447	2.0	(0.9-4.2)
City of Detroit	1,392	1.5	(0.8-2.7)
Wayne exc. Detroit	1,410	3.7	(2.6-5.3)
<b>Region 2</b>	917	2.6	(1.5-4.2)
Genesee	683	2.9	(1.7-4.9)
Lapeer	121	0.9	(0.1-6.0)
Shiawassee	113	2.7	(0.5-14.0)
<b>Region 3</b>	415	3.1	(1.6-6.0)
Jackson	258	3.6	(1.6-7.9)
Lenawee	157	2.2	(0.6-7.5)
<b>Region 4</b>	881	1.7	(0.9-3.2)
Barry-Eaton	266	2.4	(0.8-6.6)
Mid-Michigan <sup>b</sup>	327	2.2	(1.0-4.8)
Ingham	423	1.3	(0.5-3.5)
<b>Region 5</b>	781	2.4	(1.2-4.9)
Branch-Hillsdale-St. Joseph	210	1.3	(0.3-5.3)
Calhoun	195	0.3	(0.0-1.9)
Kalamazoo	376	4.2	(1.8-9.4)
<b>Region 6</b>	530	1.4	(0.5-3.5)
Van Buren-Cass	206	0.9	(0.1-6.3)
Berrien	324	1.7	(0.6-4.9)
<b>Region 7</b>	1,584	2.3	(1.5-3.5)
Allegan	161	1.5	(0.2-10.1)
Ionia	93	6.1	(1.9-18.0)
Kent	805	2.8	(1.7-4.7)
Mid-Michigan <sup>b</sup>	327	2.2	(1.0-4.8)
Ottawa	390	0.7	(0.2-2.2)

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<b>Table 16 Cont'd</b>			
<b>Geographic Area</b>	<b>Drove Motor Vehicle After Drinking<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>14,906</b>	<b>2.7</b>	<b>(2.3-3.0)</b>
<b>Region 8</b>	801	4.2	(2.7-6.5)
District #10	513	2.6	(1.4-4.7)
Muskegon	288	7.2	(4.0-12.8)
<b>Region 9</b>	750	2.2	(1.2-4.0)
District #2	149	0.6	(0.1-4.2)
District #4	169	5.2	(2.2-11.4)
Northwest Michigan	205	2.3	(0.7-7.4)
Benzie-Leelanau	83	0.9	(0.1-6.2)
Grand Traverse	144	0.9	(0.1-6.2)
<b>Region 10</b>	777	3.0	(1.7-5.4)
Bay	184	4.2	(1.4-11.5)
Huron	66	5.1	(1.3-18.3)
Saginaw	372	2.1	(0.7-6.0)
Sanilac	74	5.5	(1.7-17.0)
Tuscola	81	0.0	(---)
<b>Region 11</b>	472	1.5	(0.7-3.0)
Central Michigan	328	1.2	(0.5-2.8)
Midland	144	2.1	(0.6-7.0)
<b>Region 12</b>	605	3.5	(2.0-6.1)
Luce-Mackinac-Alger-Schoolcraft	84	3.0	(0.6-14.1)
Western Upper Peninsula	121	6.6	(2.5-16.2)
Delta-Menominee	136	2.4	(0.8-7.3)
Chippewa	65	1.2	(0.2-8.2)
Dickinson-Iron	89	2.0	(0.5-8.4)
Marquette	110	4.7	(1.4-14.9)

<sup>a</sup> Proportion who reported that they had driven when they'd had too much to drink at least once in the previous month.  
<sup>b</sup> 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.

<b>Table 17: Seatbelt Use</b>			
<b>Michigan BRFSS, 2006 and 2008 Combined</b>			
<b>Geographic Area</b>	<b>Always Uses a Seatbelt<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>14,863</b>	<b>88.3</b>	<b>(87.5-89.0)</b>
<b>Region 1</b>	6,355	90.0	(88.8-91.0)
Livingston	235	82.0	(72.2-88.9)
Macomb	905	91.1	(88.2-93.4)
Monroe	207	91.3	(85.1-95.1)
Oakland	1,526	90.5	(88.2-92.5)
St. Clair	225	91.0	(85.2-94.7)
Washtenaw	448	93.5	(89.3-96.2)
City of Detroit	1,385	88.8	(85.9-91.1)
Wayne exc. Detroit	1,407	89.3	(86.6-91.5)
<b>Region 2</b>	916	86.9	(83.0-90.0)
Genesee	682	85.6	(80.7-89.4)
Lapeer	121	89.4	(79.2-94.9)
Shiawassee	113	91.7	(80.7-96.7)
<b>Region 3</b>	414	92.8	(89.2-95.3)
Jackson	258	97.1	(94.2-98.5)
Lenawee	156	85.8	(77.3-91.4)
<b>Region 4</b>	879	88.1	(84.7-90.8)
Barry-Eaton	266	86.2	(79.5-90.9)
Mid-Michigan <sup>b</sup>	327	87.0	(79.8-91.9)
Ingham	421	89.0	(83.8-92.6)
<b>Region 5</b>	774	89.2	(85.8-91.9)
Branch-Hillsdale-St. Joseph	207	87.7	(80.6-92.4)
Calhoun	195	91.7	(85.3-95.5)
Kalamazoo	372	88.7	(82.8-92.8)
<b>Region 6</b>	527	84.2	(79.2-88.2)
Van Buren-Cass	207	80.9	(71.4-87.8)
Berrien	320	86.7	(81.2-90.8)
<b>Region 7</b>	1,582	89.4	(87.0-91.4)
Allegan	161	84.5	(74.5-91.0)
Ionia	93	92.4	(80.1-97.3)
Kent	802	88.9	(85.4-91.6)
Mid-Michigan <sup>b</sup>	327	87.0	(79.8-91.9)
Ottawa	391	93.4	(89.8-95.7)

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<b>Table 17 Cont'd</b>			
<b>Geographic Area</b>	<b>Always Uses a Seatbelt<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>14,863</b>	<b>88.3</b>	<b>(87.5-89.0)</b>
<b>Region 8</b>	796	86.2	(82.7-89.2)
District #10	511	86.2	(81.7-89.8)
Muskegon	285	86.3	(79.8-90.9)
<b>Region 9</b>	750	85.0	(81.2-88.2)
District #2	148	85.0	(74.9-91.5)
District #4	168	89.0	(82.1-93.5)
Northwest Michigan	206	84.7	(77.6-89.8)
Benzie-Leelanau	84	68.4	(52.7-80.8)
Grand Traverse	144	91.4	(81.9-96.2)
<b>Region 10</b>	773	86.1	(82.5-89.1)
Bay	183	87.5	(80.8-92.3)
Huron	66	72.3	(54.4-85.1)
Saginaw	369	88.3	(83.0-92.1)
Sanilac	74	77.8	(65.7-86.4)
Tuscola	81	91.4	(73.5-97.6)
<b>Region 11</b>	473	83.0	(77.5-87.4)
Central Michigan	328	82.4	(75.7-87.5)
Midland	145	84.5	(73.6-91.4)
<b>Region 12</b>	605	82.7	(78.5-86.1)
Luce-Mackinac-Alger-Schoolcraft	84	86.0	(74.4-92.8)
Western Upper Peninsula	121	78.8	(67.8-86.8)
Delta-Menominee	137	80.5	(70.8-87.5)
Chippewa	65	89.4	(79.6-94.8)
Dickinson-Iron	89	83.8	(71.9-91.3)
Marquette	109	81.8	(70.5-89.4)

<sup>a</sup> The proportion who reported always using a seatbelt when driving or riding in a car.  
<sup>b</sup> 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.

<b>Table 18: No Routine Checkup in Past Year Michigan BRFSS, 2006-2008 Combined</b>			
<b>Geographic Area</b>	<b>Had No Routine Checkup in Past Year<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>22,326</b>	<b>31.4</b>	<b>(30.6-32.3)</b>
<b>Region 1</b>	9,747	29.6	(28.4-30.9)
Livingston	350	34.1	(28.1-40.8)
Macomb	1,315	31.3	(28.0-34.7)
Monroe	293	30.7	(24.1-38.1)
Oakland	2,319	28.4	(26.0-31.0)
St. Clair	341	41.7	(35.1-48.6)
Washtenaw	662	34.2	(29.5-39.2)
City of Detroit	2,287	23.1	(20.6-25.9)
Wayne exc. Detroit	2,132	29.9	(27.3-32.7)
<b>Region 2</b>	1,366	32.5	(29.0-36.3)
Genesee	1,021	32.9	(28.5-37.5)
Lapeer	182	34.4	(26.2-43.7)
Shiawassee	163	28.6	(20.7-38.0)
<b>Region 3</b>	615	33.2	(28.6-38.3)
Jackson	386	33.4	(27.7-39.6)
Lenawee	229	33.0	(25.3-41.8)
<b>Region 4</b>	1,291	33.6	(30.1-37.2)
Barry-Eaton	392	38.5	(32.3-45.1)
Mid-Michigan <sup>b</sup>	515	30.1	(25.1-35.6)
Ingham	609	33.6	(28.5-39.2)
<b>Region 5</b>	1,160	32.0	(28.5-35.7)
Branch-Hillsdale-St. Joseph	311	31.4	(25.3-38.4)
Calhoun	292	30.4	(23.6-38.0)
Kalamazoo	557	33.2	(28.1-38.7)
<b>Region 6</b>	779	32.6	(28.2-37.4)
Van Buren-Cass	303	40.4	(33.0-48.2)
Berrien	476	26.5	(21.4-32.3)
<b>Region 7</b>	2,326	32.9	(30.4-35.6)
Allegan	219	37.8	(29.5-46.8)
Ionia	138	39.2	(29.5-49.9)
Kent	1,183	30.3	(26.9-33.9)
Mid-Michigan <sup>b</sup>	515	30.1	(25.1-35.6)
Ottawa	561	34.8	(29.7-40.4)



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<b>Table 18 Cont'd</b>			
<b>Geographic Area</b>	<b>Had No Routine Checkup in Past Year<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>22,326</b>	<b>31.4</b>	<b>(30.6-32.3)</b>
<b>Region 8</b>	1,156	31.3	(27.7-35.1)
District #10	719	32.0	(27.6-36.7)
Muskegon	437	30.1	(24.2-36.7)
<b>Region 9</b>	1,124	31.1	(27.7-34.8)
District #2	218	32.6	(25.5-40.6)
District #4	258	33.0	(26.3-40.4)
Northwest Michigan	324	31.2	(24.9-38.3)
Benzie-Leelanau	105	26.7	(17.3-38.8)
Grand Traverse	219	29.7	(21.9-39.0)
<b>Region 10</b>	1,162	29.5	(26.1-33.2)
Bay	265	33.0	(25.8-41.1)
Huron	99	33.3	(22.9-45.6)
Saginaw	580	27.2	(22.5-32.5)
Sanilac	102	31.2	(22.0-42.2)
Tuscola	116	26.0	(17.3-37.3)
<b>Region 11</b>	685	36.1	(31.4-41.0)
Central Michigan	469	35.7	(30.1-41.7)
Midland	216	37.0	(29.0-45.8)
<b>Region 12</b>	896	36.1	(32.1-40.4)
Luce-Mackinac-Alger-Schoolcraft	130	36.5	(26.5-47.7)
Western Upper Peninsula	185	36.6	(28.4-45.6)
Delta-Menominee	191	39.9	(30.6-50.0)
Chippewa	97	37.9	(25.0-52.7)
Dickinson-Iron	130	32.2	(23.2-42.7)
Marquette	163	33.3	(24.9-43.0)

<sup>a</sup> The proportion who reported that they did not have a routine checkup in the past year.  
<sup>b</sup> 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.

<b>Table 19: Breast Cancer Screening Among Women Age 40 and Older Michigan BRFSS, 2006 and 2008 Combined</b>			
<b>Geographic Area</b>	<b>Had Clinical Breast Exam and Mammogram in Past Year<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>7,497</b>	<b>56.4</b>	<b>(55.1-57.7)</b>
<b>Region 1</b>	3,252	56.2	(54.1-58.2)
Livingston	107	60.3	(49.9-69.9)
Macomb	462	57.0	(51.8-62.0)
Monroe	106	63.7	(53.3-72.9)
Oakland	768	54.9	(50.8-59.0)
St. Clair	110	54.3	(44.0-64.1)
Washtenaw	209	62.3	(54.7-69.4)
City of Detroit	764	50.5	(45.6-55.4)
Wayne exc. Detroit	717	57.6	(53.2-61.8)
<b>Region 2</b>	443	58.1	(52.7-63.3)
Genesee	331	62.2	(56.0-68.0)
Lapeer	49	--- <sup>c</sup>	--- <sup>c</sup>
Shiawassee	63	54.2	(40.8-66.9)
<b>Region 3</b>	203	64.6	(57.1-71.5)
Jackson	125	66.3	(56.7-74.7)
Lenawee	78	61.7	(49.5-72.7)
<b>Region 4</b>	442	53.1	(47.7-58.4)
Barry-Eaton	124	47.9	(38.3-57.7)
Mid-Michigan <sup>b</sup>	161	55.4	(46.4-63.9)
Ingham	222	54.4	(46.8-61.8)
<b>Region 5</b>	399	54.4	(48.9-59.8)
Branch-Hillsdale-St. Joseph	104	57.6	(47.1-67.4)
Calhoun	104	66.2	(55.4-75.5)
Kalamazoo	191	46.2	(38.4-54.1)
<b>Region 6</b>	286	53.1	(46.4-59.6)
Van Buren-Cass	111	54.0	(43.5-64.2)
Berrien	175	52.3	(43.8-60.8)
<b>Region 7</b>	749	56.1	(52.1-60.1)
Allegan	83	56.4	(44.5-67.7)
Ionia	50	59.3	(41.2-75.1)
Kent	364	53.5	(47.6-59.2)
Mid-Michigan <sup>b</sup>	161	55.4	(46.4-63.9)
Ottawa	187	61.4	(53.5-68.7)

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<b>Table 19 Cont'd</b>			
<b>Geographic Area</b>	<b>Had Clinical Breast Exam and Mammogram in Past Year<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>7,497</b>	<b>56.4</b>	<b>(55.1-57.7)</b>
<b>Region 8</b>	402	58.0	(52.6-63.3)
District #10	263	56.4	(49.7-62.8)
Muskegon	139	61.4	(51.7-70.3)
<b>Region 9</b>	368	56.9	(51.2-62.4)
District #2	83	49.7	(38.1-61.4)
District #4	71	52.2	(39.3-64.8)
Northwest Michigan	90	54.5	(39.3-64.8)
Benzie-Leelanau	42	--- <sup>c</sup>	--- <sup>c</sup>
Grand Traverse	82	67.8	(55.8-77.7)
<b>Region 10</b>	393	57.4	(51.4-63.1)
Bay	86	55.7	(43.6-67.2)
Huron	34	--- <sup>c</sup>	--- <sup>c</sup>
Saginaw	184	64.0	(54.9-72.2)
Sanilac	45	--- <sup>c</sup>	--- <sup>c</sup>
Tuscola	44	--- <sup>c</sup>	--- <sup>c</sup>
<b>Region 11</b>	221	56.8	(49.5-63.9)
Central Michigan	157	52.9	(44.2-61.4)
Midland	64	66.9	(53.2-78.2)
<b>Region 12</b>	329	59.2	(53.3-64.9)
Luce-Mackinac-Alger-Schoolcraft	45	--- <sup>c</sup>	--- <sup>c</sup>
Western Upper Peninsula	70	44.0	(32.0-56.7)
Delta-Menominee	80	66.6	(54.9-76.6)
Chippewa	37	--- <sup>c</sup>	--- <sup>c</sup>
Dickinson-Iron	43	--- <sup>c</sup>	--- <sup>c</sup>
Marquette	54	72.8	(58.6-83.6)

Note: Data included diagnostic tests.

<sup>a</sup> Among women aged 40 years and older, the proportion who had both a clinical breast exam and mammogram in the previous year.

<sup>b</sup> 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.

<sup>c</sup> 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.

<b>Table 20: Cervical Cancer Screening Among Women Aged 18 Years and Older Michigan BRFSS, 2006 and 2008 Combined</b>			
<b>Geographic Area</b>	<b>Had Appropriately Timed Pap Test<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>9,235</b>	<b>81.3</b>	<b>(80.3-82.4)</b>
<b>Region 1</b>	4,004	81.8	(80.1-83.4)
Livingston	128	87.4	(80.5-92.1)
Macomb	561	79.4	(74.6-83.5)
Monroe	130	83.6	(76.2-89.0)
Oakland	955	83.2	(79.9-86.1)
St. Clair	142	81.2	(71.6-88.0)
Washtenaw	264	88.2	(83.2-91.9)
City of Detroit	926	77.6	(72.9-81.7)
Wayne exc. Detroit	888	82.1	(78.3-85.4)
<b>Region 2</b>	582	82.0	(77.0-86.2)
Genesee	433	81.8	(75.5-86.7)
Lapeer	71	76.7	(61.1-87.3)
Shiawassee	78	89.1	(80.0-94.4)
<b>Region 3</b>	247	85.9	(80.3-90.1)
Jackson	159	85.5	(78.0-90.8)
Lenawee	88	86.6	(77.4-92.4)
<b>Region 4</b>	549	80.3	(75.7-84.1)
Barry-Eaton	153	80.5	(72.5-86.7)
Mid-Michigan <sup>b</sup>	201	85.1	(77.8-90.3)
Ingham	276	78.3	(71.2-84.1)
<b>Region 5</b>	486	79.4	(74.9-83.2)
Branch-Hillsdale-St. Joseph	125	79.9	(71.8-86.1)
Calhoun	129	82.4	(74.1-88.5)
Kalamazoo	232	77.4	(70.1-83.4)
<b>Region 6</b>	338	74.7	(67.8-80.5)
Van Buren-Cass	135	73.7	(62.4-82.5)
Berrien	203	75.5	(66.5-82.7)
<b>Region 7</b>	956	82.2	(78.6-85.4)
Allegan	101	89.2	(82.0-93.7)
Ionia	58	79.9	(65.2-89.4)
Kent	487	82.8	(77.4-87.2)
Mid-Michigan <sup>b</sup>	201	85.1	(77.8-90.3)
Ottawa	229	76.7	(68.3-83.4)

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<b>Table 20 Cont'd</b>			
<b>Geographic Area</b>	<b>Had Appropriately Timed Pap Test<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>9,235</b>	<b>81.3</b>	<b>(80.3-82.4)</b>
<b>Region 8</b>	499	79.9	(75.1-84.0)
District #10	317	79.8	(74.2-84.5)
Muskegon	182	80.0	(70.6-87.0)
<b>Region 9</b>	434	81.0	(76.4-84.8)
District #2	95	75.1	(64.6-83.3)
District #4	87	84.0	(72.8-91.2)
Northwest Michigan	121	74.4	(64.1-82.6)
Benzie-Leelanau	47	--- <sup>c</sup>	--- <sup>c</sup>
Grand Traverse	84	87.4	(78.1-93.1)
<b>Region 10</b>	478	83.0	(78.7-86.5)
Bay	107	85.8	(77.9-91.2)
Huron	41	--- <sup>c</sup>	--- <sup>c</sup>
Saginaw	228	84.8	(77.6-90.0)
Sanilac	51	80.5	(68.0-88.8)
Tuscola	51	75.1	(59.3-86.1)
<b>Region 11</b>	271	83.8	(78.5-88.1)
Central Michigan	189	83.2	(76.7-88.2)
Midland	82	85.4	(74.6-92.1)
<b>Region 12</b>	380	77.1	(71.9-81.5)
Luce-Mackinac-Alger-Schoolcraft	52	70.6	(55.5-82.2)
Western Upper Peninsula	75	72.6	(59.9-82.5)
Delta-Menominee	89	82.1	(72.6-88.9)
Chippewa	45	--- <sup>c</sup>	--- <sup>c</sup>
Dickinson-Iron	53	59.2	(41.9-74.5)
Marquette	66	80.2	(67.7-88.6)

Note: Data included diagnostic tests.

<sup>a</sup> Among women aged 18 years and older, the proportion who had a Pap test within the previous three years.

<sup>b</sup> 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.

<sup>c</sup> 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.

<b>Table 21: Prostate Cancer Screening Among Men Aged 50 and Older Michigan BRFSS, 2006 and 2008 Combined</b>			
<b>Geographic Area</b>	<b>Had PSA in Past Year<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>3,076</b>	<b>60.8</b>	<b>(58.8-62.7)</b>
<b>Region 1</b>	1,281	63.2	(60.1-66.3)
Livingston	48	--- <sup>c</sup>	--- <sup>c</sup>
Macomb	183	67.4	(59.7-74.2)
Monroe	43	--- <sup>c</sup>	--- <sup>c</sup>
Oakland	340	64.6	(58.6-70.3)
St. Clair	46	--- <sup>c</sup>	--- <sup>c</sup>
Washtenaw	101	69.0	(58.1-78.1)
City of Detroit	250	56.6	(47.8-65.0)
Wayne exc. Detroit	266	63.9	(56.9-70.3)
<b>Region 2</b>	190	66.7	(58.6-74.0)
Genesee	136	68.4	(58.9-76.7)
Lapeer	34	--- <sup>c</sup>	--- <sup>c</sup>
Shiawassee	20	--- <sup>c</sup>	--- <sup>c</sup>
<b>Region 3</b>	94	58.8	(47.7-69.2)
Jackson	53	56.5	(41.7-70.2)
Lenawee	41	--- <sup>c</sup>	--- <sup>c</sup>
<b>Region 4</b>	183	58.7	(50.5-66.5)
Barry-Eaton	66	62.8	(50.2-73.9)
Mid-Michigan <sup>b</sup>	71	65.7	(51.2-77.8)
Ingham	74	53.9	(41.1-66.2)
<b>Region 5</b>	137	59.8	(50.3-68.5)
Branch-Hillsdale-St. Joseph	39	--- <sup>c</sup>	--- <sup>c</sup>
Calhoun	23	--- <sup>c</sup>	--- <sup>c</sup>
Kalamazoo	75	66.2	(54.0-76.6)
<b>Region 6</b>	100	51.4	(40.3-62.4)
Van Buren-Cass	35	--- <sup>c</sup>	--- <sup>c</sup>
Berrien	65	51.2	(37.0-65.3)
<b>Region 7</b>	302	58.4	(51.9-64.6)
Allegan	22	--- <sup>c</sup>	--- <sup>c</sup>
Ionia	18	--- <sup>c</sup>	--- <sup>c</sup>
Kent	158	56.0	(47.1-64.5)
Mid-Michigan <sup>b</sup>	71	65.7	(51.2-77.8)
Ottawa	76	62.2	(49.5-73.3)

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<b>Table 21 Cont'd</b>			
<b>Geographic Area</b>	<b>Had PSA in Past Year<sup>a</sup></b>		
	<b>N</b>	<b>56%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>3,076</b>	<b>60.8</b>	<b>(58.8-62.7)</b>
<b>Region 8</b>	162	56.4	(47.9-64.6)
District #10	106	60.0	(49.6-69.5)
Muskegon	56	49.8	(35.4-64.3)
<b>Region 9</b>	209	65.2	(57.9-71.8)
District #2	43	--- <sup>c</sup>	--- <sup>c</sup>
District #4	54	69.6	(55.1-81.0)
Northwest Michigan	58	67.1	(53.0-78.6)
Benzie-Leelanau	24	--- <sup>c</sup>	--- <sup>c</sup>
Grand Traverse	30	--- <sup>c</sup>	--- <sup>c</sup>
<b>Region 10</b>	174	59.6	(50.8-67.8)
Bay	44	--- <sup>c</sup>	--- <sup>c</sup>
Huron	18	--- <sup>c</sup>	--- <sup>c</sup>
Saginaw	84	57.4	(44.1-69.7)
Sanilac	13	--- <sup>c</sup>	--- <sup>c</sup>
Tuscola	15	--- <sup>c</sup>	--- <sup>c</sup>
<b>Region 11</b>	109	54.9	(44.8-64.7)
Central Michigan	79	50.2	(38.7-61.6)
Midland	30	--- <sup>c</sup>	--- <sup>c</sup>
<b>Region 12</b>	129	51.1	(41.7-60.5)
Luce-Mackinac-Alger-Schoolcraft	20	--- <sup>c</sup>	--- <sup>c</sup>
Western Upper Peninsula	32	--- <sup>c</sup>	--- <sup>c</sup>
Delta-Menominee	26	--- <sup>c</sup>	--- <sup>c</sup>
Chippewa	10	--- <sup>c</sup>	--- <sup>c</sup>
Dickinson-Iron	18	--- <sup>c</sup>	--- <sup>c</sup>
Marquette	23	--- <sup>c</sup>	--- <sup>c</sup>

Note: Men who had been diagnosed with prostate cancer were excluded.

<sup>a</sup> Among men aged 50 years and older, the proportion who reported having a PSA in the past year.

<sup>b</sup> 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.

<sup>c</sup> 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.

<b>Table 22: Colorectal Cancer Screening Among Adults 50 Years and Older Michigan BRFS, 2006 and 2008 Combined</b>			
<b>Geographic Area</b>	<b>Had Sigmoidoscopy or Colonoscopy in Past 5 Years<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>8,865</b>	<b>56.9</b>	<b>(55.7-58.1)</b>
<b>Region 1</b>	3,767	57.6	(55.6-59.5)
Livingston	123	47.5	(37.7-57.5)
Macomb	530	57.4	(52.6-62.2)
Monroe	128	46.6	(36.9-56.6)
Oakland	929	59.3	(55.4-63.0)
St. Clair	126	55.7	(46.0-65.0)
Washtenaw	246	63.3	(56.1-69.9)
City of Detroit	852	56.1	(51.3-60.8)
Wayne exc. Detroit	821	59.0	(54.9-62.9)
<b>Region 2</b>	525	59.6	(54.7-64.4)
Genesee	386	59.9	(54.0-65.5)
Lapeer	69	60.7	(47.6-72.4)
Shiawassee	70	56.8	(43.9-68.9)
<b>Region 3</b>	260	49.7	(43.0-56.4)
Jackson	150	50.8	(41.9-59.5)
Lenawee	110	48.2	(38.1-58.5)
<b>Region 4</b>	503	62.2	(57.2-66.9)
Barry-Eaton	161	66.5	(58.0-74.1)
Mid-Michigan <sup>b</sup>	184	58.8	(50.1-67.0)
Ingham	231	62.6	(55.3-69.4)
<b>Region 5</b>	464	54.0	(48.8-59.0)
Branch-Hillsdale-St. Joseph	129	46.4	(36.9-56.2)
Calhoun	112	52.9	(42.6-63.0)
Kalamazoo	223	59.4	(52.1-66.4)
<b>Region 6</b>	328	45.6	(39.5-51.8)
Van Buren-Cass	128	39.6	(30.8-49.1)
Berrien	200	49.9	(41.8-58.1)
<b>Region 7</b>	852	61.9	(58.1-65.6)
Allegan	82	51.3	(39.0-63.4)
Ionia	57	58.2	(43.2-71.8)
Kent	425	63.3	(57.9-68.4)
Mid-Michigan <sup>b</sup>	184	58.8	(50.1-67.0)
Ottawa	215	63.2	(55.7-70.2)



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<b>Table 22 Cont'd</b>			
<b>Geographic Area</b>	<b>Had Sigmoidoscopy or Colonoscopy in Past 5 Years<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>8,865</b>	<b>56.9</b>	<b>(55.7-58.1)</b>
<b>Region 8</b>	488	53.2	(48.2-58.2)
District #10	321	51.4	(45.4-57.4)
Muskegon	167	56.6	(47.5-65.3)
<b>Region 9</b>	499	55.7	(50.8-60.4)
District #2	109	50.0	(39.9-60.1)
District #4	109	60.6	(50.4-70.0)
Northwest Michigan	134	52.3	(43.0-61.4)
Benzie-Leelanau	56	56.2	(41.9-69.7)
Grand Traverse	91	61.4	(49.9-71.7)
<b>Region 10</b>	476	60.0	(54.7-65.1)
Bay	111	62.4	(51.6-72.0)
Huron	46	--- <sup>c</sup>	--- <sup>c</sup>
Saginaw	220	64.1	(55.8-71.7)
Sanilac	45	--- <sup>c</sup>	--- <sup>c</sup>
Tuscola	54	43.1	(29.4-57.9)
<b>Region 11</b>	295	49.1	(42.9-55.3)
Central Michigan	216	44.8	(37.8-52.0)
Midland	79	60.7	(48.5-71.7)
<b>Region 12</b>	397	54.2	(48.8-59.6)
Luce-Mackinac-Alger-Schoolcraft	55	54.9	(40.8-68.2)
Western Upper Peninsula	91	43.4	(32.6-54.8)
Delta-Menominee	94	53.4	(42.0-64.4)
Chippewa	42	--- <sup>c</sup>	--- <sup>c</sup>
Dickinson-Iron	52	60.4	(44.4-74.5)
Marquette	63	64.7	(23.6-49.0)

<sup>a</sup> Among those aged 50 years and older, the proportion who had a sigmoidoscopy or colonoscopy within the past five years.  
<sup>b</sup> 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.  
<sup>c</sup> 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 23: Oral Health  
Michigan BRFSS, 2006 and 2008 Combined**

Geographic Area	Dental Visit in Past Year <sup>a</sup>			Lost 6+ Teeth <sup>b</sup>		
	N	%	95% Confidence Interval	N	%	95% Confidence Interval
<b>Michigan Total</b>	<b>14,981</b>	<b>74.7</b>	<b>(73.8-75.6)</b>	<b>14,779</b>	<b>14.6</b>	<b>(14.0-15.2)</b>
<b>Region 1</b>	6,409	76.3	(74.8-77.6)	6,321	13.9	(13.0-14.9)
Livingston	238	82.2	(74.9-87.7)	238	8.1	(5.4-12.0)
Macomb	916	80.6	(77.1-83.8)	902	13.5	(11.3-15.9)
Monroe	210	76.1	(67.4-83.0)	208	11.2	(7.8-15.8)
Oakland	1,546	81.4	(78.6-83.9)	1,526	11.6	(10.0-13.4)
St. Clair	222	72.5	(64.2-79.4)	217	15.1	(11.0-20.5)
Washtenaw	447	80.7	(75.1-85.3)	442	5.6	(3.8-8.3)
City of Detroit	1,379	57.4	(53.5-61.2)	1,362	24.0	(21.2-27.0)
Wayne exc. Detroit	1,407	79.1	(76.1-81.8)	1,387	14.0	(12.2-16.1)
<b>Region 2</b>	924	72.4	(68.3-76.2)	917	16.6	(14.2-19.5)
Genesee	690	71.6	(66.6-76.0)	683	17.2	(14.2-20.6)
Lapeer	121	71.5	(60.7-80.3)	121	17.7	(11.4-26.5)
Shiawassee	113	78.0	(66.2-86.6)	113	12.4	(7.8-19.2)
<b>Region 3</b>	416	73.7	(67.6-79.0)	414	15.6	(12.2-19.7)
Jackson	259	70.2	(62.5-76.8)	259	15.6	(11.3-21.1)
Lenawee	157	79.4	(68.3-87.4)	155	15.6	(10.5-22.4)
<b>Region 4</b>	885	77.8	(74.1-81.1)	876	12.1	(10.0-14.7)
Barry-Eaton	271	75.9	(68.7-81.9)	267	11.8	(8.7-15.9)
Mid-Michigan <sup>c</sup>	328	72.6	(65.5-78.7)	323	15.1	(11.0-20.4)
Ingham	422	78.6	(73.2-83.2)	421	9.0	(6.7-12.1)
<b>Region 5</b>	785	72.0	(67.6-76.0)	774	14.3	(11.9-17.1)
Branch-Hillsdale-St. Joseph	206	67.4	(59.0-74.8)	204	17.3	(12.4-23.7)
Calhoun	198	70.4	(61.1-78.3)	196	12.3	(8.5-17.4)
Kalamazoo	381	75.4	(69.0-80.9)	374	13.8	(10.5-17.8)
<b>Region 6</b>	531	73.2	(68.0-77.8)	514	19.9	(16.5-23.7)
Van Buren-Cass	209	76.0	(67.2-83.0)	204	19.9	(14.8-26.1)
Berrien	322	71.0	(64.3-76.9)	310	19.8	(15.6-24.9)

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<b>Table 23 Cont'd</b>						
<b>Geographic Area</b>	<b>Dental Visit in Past Year<sup>a</sup></b>			<b>Lost 6+ Teeth<sup>b</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>14,981</b>	<b>74.7</b>	<b>(73.8-75.6)</b>	<b>14,779</b>	<b>14.6</b>	<b>(14.0-15.2)</b>
<b>Region 7</b>	1,591	77.3	(74.4-80.0)	1,580	9.1	(7.9-10.6)
Allegan	159	74.6	(64.7-82.4)	158	11.1	(7.3-16.4)
Ionia	93	84.1	(71.8-91.7)	91	11.4	(6.7-18.7)
Kent	812	76.9	(72.7-80.6)	808	9.8	(8.0-12.0)
Mid-Michigan <sup>c</sup>	328	72.6	(65.5-78.7)	323	15.1	(11.0-20.4)
Ottawa	391	82.2	(76.7-86.6)	388	6.6	(4.5-9.5)
<b>Region 8</b>	801	69.3	(65.1-73.3)	782	19.4	(16.4-22.7)
District #10	512	67.4	(62.0-72.4)	495	21.1	(17.4-25.3)
Muskegon	289	72.8	(65.8-78.9)	287	16.3	(11.7-22.3)
<b>Region 9</b>	758	70.7	(66.5-74.6)	752	17.6	(15.0-20.6)
District #2	152	72.2	(63.2-79.7)	150	25.7	(18.5-34.7)
District #4	171	63.7	(54.7-71.8)	171	22.8	(17.1-29.7)
Northwest Michigan	207	72.5	(64.2-79.5)	204	16.3	(11.9-22.0)
Benzie-Leelanau	84	69.4	(54.7-81.0)	83	10.3	(6.0-17.1)
Grand Traverse	144	75.8	(65.6-83.7)	144	9.7	(5.8-15.6)
<b>Region 10</b>	779	79.1	(75.4-82.4)	758	15.1	(12.6-18.1)
Bay	183	83.4	(75.3-89.2)	179	9.8	(6.5-14.6)
Huron	68	82.2	(70.4-89.9)	65	18.3	(9.6-32.2)
Saginaw	375	78.7	(72.8-83.5)	367	16.6	(12.7-21.4)
Sanilac	73	60.7	(47.5-72.5)	69	22.4	(13.2-35.3)
Tuscola	80	82.2	(72.5-89.0)	78	14.7	(8.8-23.4)
<b>Region 11</b>	474	68.5	(63.0-73.5)	468	19.4	(15.8-23.6)
Central Michigan	328	64.6	(57.7-70.8)	322	23.3	(18.5-28.8)
Midland	146	77.4	(68.0-84.6)	146	10.9	(6.6-17.4)
<b>Region 12</b>	609	67.4	(62.5-72.0)	604	18.9	(15.9-22.4)
Luce-Mackinac-Alger-Schoolcraft	83	62.9	(48.9-75.1)	81	20.8	(13.1-31.3)
Western Upper Peninsula	124	71.8	(61.7-80.2)	120	20.6	(14.1-29.0)
Delta-Menominee	137	61.4	(50.9-71.0)	136	22.0	(15.4-30.5)
Chippewa	65	64.1	(45.3-79.4)	66	22.4	(13.5-34.7)
Dickinson-Iron	90	77.4	(66.3-85.6)	90	21.3	(13.5-31.8)
Marquette	110	67.3	(56.3-76.6)	111	9.4	(5.2-16.2)

<sup>a</sup> The proportion who reported that they had visited a dentist or dental clinic for any reason in the previous year.

<sup>b</sup> The proportion 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.

<sup>c</sup> 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: Immunizations Among Adults Aged 65 Years and Older  
Michigan BRFS, 2006-2008 Combined**

Geographic Area	Had Flu Vaccine in Past Year <sup>a</sup>			Ever Had Pneumonia Vaccine <sup>b</sup>		
	N	%	95% Confidence Interval	N	%	95% Confidence Interval
<b>Michigan Total</b>	<b>6,419</b>	<b>70.7</b>	<b>(69.4-71.9)</b>	<b>6,223</b>	<b>65.7</b>	<b>(64.4-67.0)</b>
<b>Region 1</b>	2,744	69.5	(67.4-71.5)	2,651	63.1	(60.9-65.3)
Livingston	81	57.0	(45.0-68.3)	80	59.8	(47.7-70.9)
Macomb	375	74.8	(69.7-79.3)	359	66.4	(60.7-71.6)
Monroe	78	73.9	(62.0-83.1)	78	69.4	(57.2-79.4)
Oakland	687	73.8	(69.9-77.4)	663	65.4	(61.1-69.4)
St. Clair	83	61.1	(49.6-71.5)	81	65.8	(54.3-75.7)
Washtenaw	145	78.4	(69.8-85.1)	136	71.9	(62.8-79.5)
City of Detroit	667	54.5	(49.2-59.7)	643	46.5	(41.2-51.8)
Wayne exc. Detroit	615	71.3	(66.8-75.4)	599	67.0	(62.3-71.3)
<b>Region 2</b>	393	68.9	(63.6-73.8)	375	63.6	(58.0-68.9)
Genesee	281	71.2	(64.9-76.8)	270	64.8	(58.0-71.0)
Lapeer	54	53.4	(39.0-67.1)	50	60.0	(44.9-73.5)
Shiawassee	58	73.4	(59.7-83.7)	55	61.8	(47.2-74.6)
<b>Region 3</b>	181	72.9	(65.5-79.3)	178	67.5	(59.6-74.5)
Jackson	112	73.5	(63.9-81.3)	111	71.0	(61.1-79.3)
Lenawee	69	72.1	(59.5-82.0)	67	61.8	(48.6-73.4)
<b>Region 4</b>	341	74.7	(69.3-79.5)	330	71.0	(65.4-76.1)
Barry-Eaton	101	67.3	(56.7-76.3)	97	73.1	(62.6-81.5)
Mid-Michigan <sup>c</sup>	144	71.0	(62.1-78.5)	137	93.2	(53.8-71.8)
Ingham	162	81.9	(74.7-87.4)	158	70.9	(62.6-78.1)
<b>Region 5</b>	327	70.7	(65.1-75.8)	318	68.8	(63.0-74.1)
Branch-Hillsdale-St. Joseph	93	70.0	(59.3-78.8)	90	67.7	(56.7-77.1)
Calhoun	78	65.9	(53.2-76.7)	76	69.9	(57.5-79.9)
Kalamazoo	156	73.5	(65.5-80.2)	152	68.9	(60.3-76.4)
<b>Region 6</b>	228	63.8	(56.3-70.7)	222	65.1	(57.5-71.9)
Van Buren-Cass	83	61.4	(49.0-72.4)	84	62.7	(50.3-73.5)
Berrien	145	65.7	(56.1-74.1)	138	67.0	(57.6-75.3)

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<b>Table 24 Cont'd</b>						
<b>Geographic Area</b>	<b>Had Flu Vaccine in Past Year<sup>a</sup></b>			<b>Ever Had Pneumonia Vaccine<sup>b</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>6,419</b>	<b>70.7</b>	<b>(69.4-71.9)</b>	<b>6,223</b>	<b>65.7</b>	<b>(64.4-67.0)</b>
<b>Region 7</b>	585	72.7	(68.6-76.4)	566	69.8	(65.5-73.8)
Allegan	52	74.7	(60.2-85.3)	51	71.8	(55.8-83.7)
Ionia	34	--- <sup>d</sup>	--- <sup>d</sup>	35	--- <sup>d</sup>	--- <sup>d</sup>
Kent	297	72.5	(66.7-77.7)	287	74.3	(68.5-79.4)
Mid-Michigan <sup>c</sup>	144	71.0	(62.1-78.5)	137	93.2	(53.8-71.8)
Ottawa	136	74.8	(66.4-81.7)	131	69.0	(59.7-76.9)
<b>Region 8</b>	357	76.3	(71.1-80.9)	345	68.1	(62.4-73.3)
District #10	221	74.8	(68.1-80.5)	214	68.5	(61.2-74.9)
Muskegon	136	79.1	(70.1-86.0)	131	67.4	(57.6-75.9)
<b>Region 9</b>	365	75.8	(70.8-80.2)	356	68.4	(63.0-73.4)
District #2	79	77.5	(66.4-85.8)	78	62.5	(50.3-73.3)
District #4	94	77.4	(66.9-85.3)	93	74.6	(63.6-83.1)
Northwest Michigan	90	75.2	(64.9-83.3)	84	68.8	(57.5-78.3)
Benzie-Leelanau	38	--- <sup>d</sup>	--- <sup>d</sup>	35	--- <sup>d</sup>	--- <sup>d</sup>
Grand Traverse	64	78.7	(66.3-87.4)	66	69.9	(57.1-80.1)
<b>Region 10</b>	381	66.8	(61.3-72.0)	375	65.9	(60.3-71.1)
Bay	86	67.6	(55.1-78.0)	85	66.0	(54.2-76.2)
Huron	45	--- <sup>d</sup>	--- <sup>d</sup>	45	--- <sup>d</sup>	--- <sup>d</sup>
Saginaw	176	68.1	(59.6-75.5)	172	66.1	(57.2-74.0)
Sanilac	36	--- <sup>d</sup>	--- <sup>d</sup>	36	--- <sup>d</sup>	--- <sup>d</sup>
Tuscola	38	--- <sup>d</sup>	--- <sup>d</sup>	37	--- <sup>d</sup>	--- <sup>d</sup>
<b>Region 11</b>	204	75.6	(68.8-81.2)	201	68.3	(61.2-74.7)
Central Michigan	143	76.8	(68.7-83.3)	140	66.6	(57.9-74.2)
Midland	61	72.5	(59.5-82.6)	61	72.3	(59.0-82.6)
<b>Region 12</b>	302	65.8	(59.9-71.3)	294	63.6	(57.5-69.3)
Luce-Mackinac-Alger-Schoolcraft	37	--- <sup>d</sup>	--- <sup>d</sup>	33	--- <sup>d</sup>	--- <sup>d</sup>
Western Upper Peninsula	61	67.2	(53.4-78.5)	60	74.7	(61.3-84.6)
Delta-Menominee	75	58.5	(45.9-70.0)	75	60.5	(47.9-71.8)
Chippewa	35	--- <sup>d</sup>	--- <sup>d</sup>	33	--- <sup>d</sup>	--- <sup>d</sup>
Dickinson-Iron	47	--- <sup>d</sup>	--- <sup>d</sup>	46	--- <sup>d</sup>	--- <sup>d</sup>
Marquette	47	--- <sup>d</sup>	--- <sup>d</sup>	47	--- <sup>d</sup>	--- <sup>d</sup>

<sup>a</sup> 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.

<sup>b</sup> Among those aged 65 years and older, the proportion who reported that they ever had a pneumococcal vaccine.

<sup>c</sup> 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.

<sup>d</sup> 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.

<b>Table 25: HIV Testing Among Adults Aged 18-64 Years Michigan BRFSS, 2006- 2008 Combined</b>			
<b>Geographic Area</b>	<b>Ever Had an HIV Test<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>15,261</b>	<b>37.2</b>	<b>(36.2-38.2)</b>
<b>Region 1</b>	6,661	41.8	(40.3-43.4)
Livingston	255	31.2	(24.5-38.8)
Macomb	897	36.2	(32.3-40.3)
Monroe	215	36.6	(29.1-44.9)
Oakland	1,532	39.0	(35.9-42.2)
St. Clair	252	33.7	(27.1-41.0)
Washtenaw	500	39.1	(33.8-44.6)
City of Detroit	1,531	61.1	(57.6-64.5)
Wayne exc. Detroit	1,473	40.2	(36.9-43.6)
<b>Region 2</b>	925	36.5	(32.5-40.8)
Genesee	699	38.8	(34.0-43.9)
Lapeer	121	26.0	(18.1-35.8)
Shiawassee	105	34.9	(24.4-47.1)
<b>Region 3</b>	428	36.9	(31.2-42.9)
Jackson	274	35.5	(28.9-42.8)
Lenawee	154	39.2	(29.3-50.0)
<b>Region 4</b>	919	40.1	(36.1-44.3)
Barry-Eaton	281	36.1	(29.3-43.4)
Mid-Michigan <sup>b</sup>	359	32.6	(26.8-39.0)
Ingham	431	46.2	(40.0-52.6)
<b>Region 5</b>	795	35.6	(31.5-39.9)
Branch-Hillsdale-St. Joseph	214	30.2	(23.6-37.7)
Calhoun	201	45.2	(36.4-54.3)
Kalamazoo	380	33.3	(27.7-39.5)
<b>Region 6</b>	532	33.6	(28.5-39.0)
Van Buren-Cass	211	33.9	(25.9-43.0)
Berrien	321	33.3	(27.2-40.1)
<b>Region 7</b>	1,688	32.6	(28.0-36.4)
Allegan	164	39.5	(29.3-50.8)
Ionia	100	22.1	(14.4-32.2)
Kent	862	34.1	(30.1-38.4)
Mid-Michigan <sup>b</sup>	359	32.6	(26.8-39.0)
Ottawa	410	28.4	(23.5-33.9)

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<b>Table 25 Cont'd</b>			
<b>Geographic Area</b>	<b>Ever Had an HIV Test<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>15,261</b>	<b>37.2</b>	<b>(36.2-38.2)</b>
<b>Region 8</b>	765	32.1	(28.0-36.4)
District #10	483	31.7	(26.8-37.1)
Muskegon	282	32.8	(26.0-40.4)
<b>Region 9</b>	731	31.7	(27.7-36.1)
District #2	135	26.6	(18.6-36.5)
District #4	150	32.4	(24.6-41.4)
Northwest Michigan	232	36.5	(28.8-45.0)
Benzie-Leelanau	66	36.2	(24.1-50.4)
Grand Traverse	148	25.8	(18.1-35.4)
<b>Region 10</b>	758	30.7	(26.7-35.1)
Bay	175	27.8	(20.6-36.5)
Huron	49	--- <sup>c</sup>	--- <sup>c</sup>
Saginaw	390	33.4	(27.5-39.8)
Sanilac	67	32.5	(20.6-47.3)
Tuscola	77	31.2	(19.6-45.8)
<b>Region 11</b>	473	33.1	(27.9-38.8)
Central Michigan	322	32.7	(26.4-39.7)
Midland	151	34.0	(25.3-43.9)
<b>Region 12</b>	578	30.6	(26.0-35.6)
Luce-Mackinac-Alger-Schoolcraft	90	35.3	(22.8-50.1)
Western Upper Peninsula	118	22.0	(14.2-32.3)
Delta-Menominee	117	29.3	(19.8-40.9)
Chippewa	61	40.4	(25.7-57.0)
Dickinson-Iron	80	33.5	(22.1-47.2)
Marquette	112	29.2	(20.4-39.8)

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

<sup>a</sup> 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.

<sup>b</sup> 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.

<sup>c</sup> 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 26: Asthma**  
**Michigan BRFSS, 2006-2008 Combined**

Geographic Area	Ever Told Have Asthma <sup>a</sup>			Still Have Asthma <sup>b</sup>		
	N	%	95% Confidence Interval	N	%	95% Confidence Interval
<b>Michigan Total</b>	<b>22,523</b>	<b>14.8</b>	<b>(14.2-15.4)</b>	<b>22,399</b>	<b>9.7</b>	<b>(9.2-10.2)</b>
<b>Region 1</b>	9,821	15.9	(14.9-17.0)	9,769	10.5	(9.7-11.4)
Livingston	355	17.4	(12.6-23.4)	354	9.6	(6.6-13.8)
Macomb	1,325	14.4	(12.0-17.1)	1,316	9.3	(7.4-11.6)
Monroe	299	12.9	(8.8-18.6)	298	9.1	(5.6-14.4)
Oakland	2,327	13.8	(12.0-15.8)	2,318	8.8	(7.5-10.4)
St. Clair	344	16.2	(11.8-21.7)	341	11.5	(7.8-16.5)
Washtenaw	664	19.8	(15.9-24.5)	660	14.2	(10.6-18.7)
City of Detroit	2,308	17.6	(15.3-20.1)	2,296	13.0	(11.0-15.2)
Wayne exc. Detroit	2,149	17.0	(14.8-19.5)	2,137	10.4	(8.7-12.5)
<b>Region 2</b>	1,379	15.5	(12.6-19.0)	1,370	9.5	(7.2-12.6)
Genesee	1,027	14.9	(11.6-19.0)	1,020	9.3	(6.7-12.8)
Lapeer	185	14.9	(9.0-23.7)	183	5.0	(2.4-10.4)
Shiawassee	167	19.4	(10.9-32.1)	167	15.5	(7.7-28.7)
<b>Region 3</b>	626	16.0	(12.9-19.7)	620	10.4	(8.1-13.4)
Jackson	394	15.1	(11.6-19.5)	389	10.9	(7.9-14.9)
Lenawee	232	17.5	(12.1-24.6)	231	9.6	(6.1-14.9)
<b>Region 4</b>	1,307	12.3	(10.2-14.8)	1,301	9.0	(7.2-11.2)
Barry-Eaton	396	12.9	(9.3-17.6)	392	10.4	(7.2-14.9)
Mid-Michigan <sup>c</sup>	522	11.7	(8.5-15.9)	520	8.4	(5.7-12.3)
Ingham	616	12.4	(9.4-16.1)	615	8.3	(5.9-11.4)
<b>Region 5</b>	1,165	14.8	(12.2-17.7)	1,158	10.1	(8.0-12.7)
Branch-Hillsdale-St. Joseph	314	13.8	(9.3-19.9)	314	11.6	(7.5-17.7)
Calhoun	293	19.3	(14.1-25.9)	289	11.5	(7.7-16.7)
Kalamazoo	558	12.8	(9.4-17.2)	555	8.5	(5.9-12.2)
<b>Region 6</b>	786	11.7	(10.1-13.5)	783	7.1	(5.1-9.9)
Van Buren-Cass	305	9.5	(5.9-15.0)	305	8.2	(4.8-13.7)
Berrien	481	13.5	(9.8-18.3)	478	6.3	(4.2-9.3)
<b>Region 7</b>	2,339	11.7	(10.1-13.5)	2,329	6.7	(5.5-8.1)
Allegan	221	9.1	(5.9-13.9)	221	4.1	(1.9-10.8)
Ionia	139	8.7	(4.4-16.3)	138	4.6	(1.9-10.8)
Kent	1,188	12.7	(10.4-15.4)	1,181	7.1	(5.5-9.2)
Mid-Michigan <sup>c</sup>	522	11.7	(8.5-15.9)	520	8.4	(5.7-12.3)
Ottawa	564	11.3	(8.3-15.1)	563	6.7	(4.6-9.7)



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**Table 26 Cont'd**

Geographic Area	Ever Told Have Asthma <sup>a</sup>			Still Have Asthma <sup>b</sup>		
	N	%	95% Confidence Interval	N	%	95% Confidence Interval
<b>Michigan Total</b>	<b>22,523</b>	<b>14.8</b>	<b>(14.2-15.4)</b>	<b>22,399</b>	<b>9.7</b>	<b>(9.2-10.2)</b>
<b>Region 8</b>	1,169	13.2	(10.9-15.9)	1,164	9.9	(7.8-12.4)
District #10	727	12.4	(9.8-15.6)	724	9.9	(7.5-12.9)
Muskegon	442	14.4	(10.4-19.7)	440	9.9	(6.5-14.9)
<b>Region 9</b>	1,128	13.2	(10.9-15.9)	1,121	8.9	(7.0-11.1)
District #2	220	14.7	(9.5-22.1)	216	9.9	(6.1-15.8)
District #4	258	16.4	(11.6-22.7)	255	10.9	(6.9-17.0)
Northwest Michigan	325	11.6	(8.0-16.4)	325	9.0	(6.0-13.5)
Benzie-Leelanau	105	5.3	(2.5-10.9)	105	4.3	(1.8-9.8)
Grand Traverse	220	14.4	(9.1-22.1)	220	7.6	(4.1-13.4)
<b>Region 10</b>	1,172	16.0	(13.3-19.2)	1,166	9.6	(7.5-12.2)
Bay	267	17.1	(11.5-24.6)	264	10.0	(6.0-16.2)
Huron	100	17.4	(8.9-31.2)	99	10.6	(4.1-24.8)
Saginaw	584	15.9	(12.1-20.7)	582	8.7	(6.0-12.5)
Sanilac	105	13.5	(8.0-21.9)	105	13.0	(7.5-21.4)
Tuscola	116	14.7	(8.7-23.8)	116	8.8	(4.7-16.0)
<b>Region 11</b>	699	17.6	(14.0-21.9)	695	11.0	(8.4-14.4)
Central Michigan	481	19.6	(14.9-25.3)	478	11.7	(8.4-16.2)
Midland	218	13.3	(9.0-19.2)	217	9.6	(6.1-14.6)
<b>Region 12</b>	912	17.8	(14.8-21.2)	903	13.3	(10.7-16.3)
Luce-Mackinac-Alger-Schoolcraft	131	20.0	(12.4-30.5)	130	15.3	(8.6-25.8)
Western Upper Peninsula	187	13.5	(8.8-20.2)	184	11.5	(7.2-17.9)
Delta-Menominee	198	16.0	(10.7-23.3)	196	11.9	(7.5-18.3)
Chippewa	100	12.1	(7.0-20.0)	99	10.4	(5.7-18.3)
Dickinson-Iron	132	23.1	(14.5-34.6)	131	14.4	(8.0-24.6)
Marquette	164	22.1	(14.9-31.5)	163	16.0	(10.1-24.6)

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

<sup>b</sup> Among all respondents, the proportion who reported that they still had asthma.

<sup>c</sup> 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.

<b>Table 27: Heart Attack Michigan BRFSS, 2006-2008 Combined</b>			
<b>Geographic Area</b>	<b>Ever Told Heart Attack<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>22,495</b>	<b>4.7</b>	<b>(4.4-5.0)</b>
<b>Region 1</b>	9,806	4.4	(4.0-4.8)
Livingston	355	3.6	(2.1-6.1)
Macomb	1,326	3.7	(2.9-4.8)
Monroe	298	4.4	(2.4-7.9)
Oakland	2,330	4.3	(3.6-5.2)
St. Clair	344	3.8	(2.2-6.7)
Washtenaw	661	4.7	(3.2-7.0)
City of Detroit	2,294	5.3	(4.3-6.4)
Wayne exc. Detroit	2,148	4.2	(3.5-5.1)
<b>Region 2</b>	1,378	5.6	(4.5-7.0)
Genesee	1,026	5.8	(4.4-7.6)
Lapeer	185	5.6	(3.3-9.2)
Shiawassee	167	4.8	(2.3-9.6)
<b>Region 3</b>	624	5.7	(4.1-7.8)
Jackson	392	5.3	(3.5-8.1)
Lenawee	232	6.3	(3.8-10.4)
<b>Region 4</b>	1,309	3.7	(2.9-4.9)
Barry-Eaton	397	5.2	(3.5-7.7)
Mid-Michigan <sup>b</sup>	520	4.1	(2.7-6.2)
Ingham	619	3.2	(2.1-4.7)
<b>Region 5</b>	1,162	5.1	(4.0-6.5)
Branch-Hillsdale-St. Joseph	312	6.0	(3.9-9.1)
Calhoun	293	3.9	(2.4-6.2)
Kalamazoo	557	5.2	(3.5-7.7)
<b>Region 6</b>	786	4.7	(3.4-6.3)
Van Buren-Cass	305	4.1	(2.4-6.9)
Berrien	481	5.1	(3.5-7.4)
<b>Region 7</b>	2,341	3.2	(2.6-3.9)
Allegan	221	2.7	(1.5-5.0)
Ionia	139	2.2	(0.7-6.8)
Kent	1,189	2.9	(2.2-3.8)
Mid-Michigan <sup>b</sup>	520	4.1	(2.7-6.2)
Ottawa	565	3.3	(1.9-5.7)

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<b>Table 27 Cont'd</b>			
<b>Geographic Area</b>	<b>Ever Told Heart Attack<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>22,495</b>	<b>4.7</b>	<b>(4.4-5.0)</b>
<b>Region 8</b>	1,164	5.7	(4.4-7.3)
District #10	725	5.6	(4.1-7.6)
Muskegon	439	5.7	(3.6-8.9)
<b>Region 9</b>	1,127	6.9	(5.5-8.7)
District #2	221	11.5	(7.4-17.5)
District #4	257	5.5	(3.4-8.8)
Northwest Michigan	324	7.8	(5.3-11.2)
Benzie-Leelanau	105	3.2	(1.0-9.8)
Grand Traverse	220	4.6	(2.4-8.8)
<b>Region 10</b>	1,168	5.6	(4.4-7.1)
Bay	268	4.0	(2.4-6.8)
Huron	99	5.3	(2.2-12.0)
Saginaw	583	6.8	(4.8-9.5)
Sanilac	103	5.9	(2.7-12.6)
Tuscola	115	4.7	(2.3-9.4)
<b>Region 11</b>	698	6.5	(4.9-8.6)
Central Michigan	479	6.0	(4.3-8.5)
Midland	219	7.4	(4.5-12.0)
<b>Region 12</b>	912	5.6	(4.2-7.5)
Luce-Mackinac-Alger-Schoolcraft	131	5.7	(2.8-11.3)
Western Upper Peninsula	187	4.9	(2.7-8.9)
Delta-Menominee	198	6.4	(3.3-12.1)
Chippewa	100	4.6	(1.9-10.3)
Dickinson-Iron	131	6.5	(3.6-11.4)
Marquette	165	5.3	(2.3-11.6)

<sup>a</sup> Among all adults, the proportion who had ever been told by a doctor that they had a heart attack or myocardial infarction.

<sup>b</sup> 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.

<b>Table 28: Angina or Coronary Heart Disease Michigan BRFSS, 2006-2008 Combined</b>			
<b>Geographic Area</b>	<b>Ever Told Angina or Coronary Heart Disease<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>22,349</b>	<b>4.9</b>	<b>(4.6-5.2)</b>
<b>Region 1</b>	9,748	4.8	(4.4-5.3)
Livingston	354	4.1	(2.5-6.8)
Macomb	1,311	5.3	(4.2-6.7)
Monroe	298	4.5	(2.8-7.1)
Oakland	2,308	4.9	(4.1-5.9)
St. Clair	346	7.4	(4.9-11.2)
Washtenaw	662	3.3	(2.2-4.9)
City of Detroit	2,287	4.9	(4.0-6.2)
Wayne exc. Detroit	2,133	4.3	(3.6-5.2)
<b>Region 2</b>	1,368	5.3	(4.2-6.6)
Genesee	1,016	5.3	(4.0-6.9)
Lapeer	184	5.5	(3.0-9.9)
Shiawassee	168	5.1	(2.5-9.9)
<b>Region 3</b>	621	5.3	(3.8-7.4)
Jackson	392	5.7	(3.8-8.6)
Lenawee	229	4.5	(2.6-8.0)
<b>Region 4</b>	1,298	4.1	(3.2-5.3)
Barry-Eaton	393	5.2	(3.4-7.8)
Mid-Michigan <sup>b</sup>	520	4.1	(2.8-5.9)
Ingham	611	3.9	(2.7-5.6)
<b>Region 5</b>	1,153	5.1	(3.9-6.6)
Branch-Hillsdale-St. Joseph	313	8.1	(5.3-12.2)
Calhoun	288	4.9	(3.0-7.9)
Kalamazoo	552	3.4	(2.2-5.3)
<b>Region 6</b>	778	5.3	(3.9-7.2)
Van Buren-Cass	301	5.9	(3.7-9.4)
Berrien	477	4.8	(3.2-7.0)
<b>Region 7</b>	2,329	3.1	(2.6-3.8)
Allegan	217	1.9	(0.9-4.0)
Ionia	138	0.0	(---)
Kent	1,185	3.5	(2.7-4.6)
Mid-Michigan <sup>b</sup>	520	4.1	(2.8-5.9)
Ottawa	563	2.6	(1.6-4.2)

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<b>Table 28 Cont'd</b>			
<b>Geographic Area</b>	<b>Ever Told Angina or Coronary Heart Disease<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>22,349</b>	<b>4.9</b>	<b>(4.6-5.2)</b>
<b>Region 8</b>	1,165	4.0	(3.0-5.2)
District #10	725	4.7	(3.4-6.4)
Muskegon	440	2.8	(1.7-4.6)
<b>Region 9</b>	1,116	6.4	(5.1-8.0)
District #2	218	11.0	(7.3-16.3)
District #4	257	7.4	(4.7-11.5)
Northwest Michigan	317	5.1	(3.3-7.8)
Benzie-Leelanau	106	3.7	(1.5-8.7)
Grand Traverse	218	3.9	(1.9-8.0)
<b>Region 10</b>	1,161	6.8	(5.4-8.5)
Bay	265	5.3	(3.0-9.4)
Huron	97	8.2	(4.3-15.0)
Saginaw	578	7.5	(5.4-10.3)
Sanilac	105	5.2	(2.5-10.8)
Tuscola	116	7.3	(3.8-13.5)
<b>Region 11</b>	690	7.8	(6.0-10.0)
Central Michigan	472	8.4	(6.2-11.3)
Midland	218	6.3	(3.8-10.2)
<b>Region 12</b>	902	5.4	(4.1-7.0)
Luce-Mackinac-Alger-Schoolcraft	128	4.7	(2.3-9.2)
Western Upper Peninsula	186	6.5	(3.7-11.1)
Delta-Menominee	197	3.8	(1.9-7.5)
Chippewa	98	5.8	(2.6-12.2)
Dickinson-Iron	131	7.4	(4.3-12.4)
Marquette	162	4.6	(2.4-8.9)

<sup>a</sup> Among all adults, the proportion who had ever been told by a doctor that they had angina or coronary heart disease.  
<sup>b</sup> 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.

<b>Table 29: Stroke Michigan BRFSS, 2006-2008 Combined</b>			
<b>Geographic Area</b>	<b>Ever Told Stroke<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>22,529</b>	<b>2.9</b>	<b>(2.7-3.1)</b>
<b>Region 1</b>	9,825	2.9	(2.6-3.3)
Livingston	353	1.1	(0.5-2.7)
Macomb	1,323	2.9	(2.1-4.1)
Monroe	301	2.4	(0.9-6.0)
Oakland	2,333	2.6	(1.9-3.5)
St. Clair	345	1.8	(0.8-4.0)
Washtenaw	662	1.1	(0.6-2.2)
City of Detroit	2,307	5.1	(4.1-6.3)
Wayne exc. Detroit	2,152	3.0	(2.2-4.0)
<b>Region 2</b>	1,376	3.2	(2.4-4.3)
Genesee	1,023	2.9	(2.0-4.1)
Lapeer	185	4.8	(2.6-8.5)
Shiawassee	168	3.6	(1.5-8.2)
<b>Region 3</b>	622	2.4	(1.5-3.7)
Jackson	393	2.5	(1.4-4.4)
Lenawee	229	2.1	(0.9-4.8)
<b>Region 4</b>	1,308	1.9	(1.3-2.8)
Barry-Eaton	396	1.3	(0.7-2.6)
Mid-Michigan <sup>b</sup>	520	2.7	(1.4-5.1)
Ingham	618	2.3	(1.4-3.9)
<b>Region 5</b>	1,168	2.4	(1.7-3.3)
Branch-Hillsdale-St. Joseph	313	3.1	(1.8-5.2)
Calhoun	292	1.9	(0.9-4.0)
Kalamazoo	563	2.2	(1.3-3.9)
<b>Region 6</b>	787	3.6	(2.4-5.2)
Van Buren-Cass	303	4.9	(2.8-8.5)
Berrien	484	2.5	(1.5-4.2)
<b>Region 7</b>	2,341	2.1	(1.6-2.9)
Allegan	220	2.0	(0.8-4.7)
Ionia	140	0.6	(0.1-2.6)
Kent	1,190	2.3	(1.6-3.5)
Mid-Michigan <sup>b</sup>	520	2.7	(1.4-5.1)
Ottawa	565	1.4	(0.8-2.4)

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<b>Table 29 Cont'd</b>			
<b>Geographic Area</b>	<b>Ever Told Stroke<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>22,529</b>	<b>2.9</b>	<b>(2.7-3.1)</b>
<b>Region 8</b>	1,167	3.3	(2.5-4.5)
District #10	728	3.7	(2.6-5.2)
Muskegon	439	2.7	(1.6-4.5)
<b>Region 9</b>	1,130	3.6	(2.7-4.8)
District #2	221	4.6	(2.5-8.4)
District #4	258	2.6	(1.3-5.0)
Northwest Michigan	325	4.1	(2.3-7.1)
Benzie-Leelanau	106	2.6	(0.9-7.5)
Grand Traverse	220	3.5	(1.8-6.5)
<b>Region 10</b>	1,172	3.5	(2.5-4.8)
Bay	267	2.6	(1.3-5.3)
Huron	99	1.9	(0.6-6.4)
Saginaw	584	4.4	(2.8-6.8)
Sanilac	105	3.7	(1.3-9.8)
Tuscola	117	3.2	(1.3-7.2)
<b>Region 11</b>	700	3.5	(2.4-5.0)
Central Michigan	481	3.6	(2.3-5.4)
Midland	219	3.3	(1.6-6.8)
<b>Region 12</b>	913	3.9	(2.9-5.3)
Luce-Mackinac-Alger-Schoolcraft	132	5.8	(3.1-10.3)
Western Upper Peninsula	187	3.9	(2.0-7.2)
Delta-Menominee	198	1.9	(0.8-4.5)
Chippewa	101	4.5	(2.1-9.6)
Dickinson-Iron	131	4.4	(1.8-10.7)
Marquette	164	4.1	(2.1-8.0)

<sup>a</sup> Among all adults, the proportion who had ever been told by a doctor that they had a stroke.

<sup>b</sup> 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.

<b>Table 30: Diabetes</b>			
<b>Michigan BRFSS, 2006-2008 Combined</b>			
<b>Geographic Area</b>	<b>Ever Told Diabetes<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>22,585</b>	<b>9.0</b>	<b>(8.6-9.4)</b>
<b>Region 1</b>	9,848	9.1	(8.5-9.8)
Livingston	356	6.1	(4.1-9.0)
Macomb	1,326	7.8	(6.5-9.4)
Monroe	300	9.0	(6.3-12.8)
Oakland	2,337	7.8	(6.7-9.1)
St. Clair	347	6.9	(4.8-9.7)
Washtenaw	663	8.3	(6.0-11.3)
City of Detroit	2,316	13.5	(11.8-15.4)
Wayne exc. Detroit	2,153	9.6	(8.3-11.2)
<b>Region 2</b>	1,380	10.3	(8.7-12.1)
Genesee	1,028	10.7	(8.9-12.9)
Lapeer	184	10.2	(6.4-16.0)
Shiawassee	168	8.1	(4.7-13.5)
<b>Region 3</b>	627	9.2	(7.2-11.7)
Jackson	395	8.8	(6.4-11.9)
Lenawee	232	10.0	(6.7-14.6)
<b>Region 4</b>	1,312	8.0	(6.5-9.7)
Barry-Eaton	397	7.9	(5.6-11.1)
Mid-Michigan <sup>b</sup>	522	12.4	(9.2-16.7)
Ingham	620	6.4	(4.7-8.6)
<b>Region 5</b>	1,171	7.8	(6.4-9.6)
Branch-Hillsdale-St. Joseph	314	6.7	(4.5-9.9)
Calhoun	294	8.1	(5.5-11.9)
Kalamazoo	563	8.3	(6.2-11.1)
<b>Region 6</b>	790	9.1	(7.1-11.6)
Van Buren-Cass	306	8.6	(5.6-12.9)
Berrien	484	9.5	(7.1-12.7)
<b>Region 7</b>	2,344	7.8	(6.7-9.1)
Allegan	221	6.9	(4.2-11.2)
Ionia	140	5.4	(2.9-9.6)
Kent	1,192	7.5	(6.0-9.3)
Mid-Michigan <sup>b</sup>	522	12.4	(9.2-16.7)
Ottawa	564	7.2	(5.3-9.8)



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<b>Table 30 Cont'd</b>			
<b>Geographic Area</b>	<b>Ever Told Diabetes<sup>a</sup></b>		
	<b>N</b>	<b>%</b>	<b>95% Confidence Interval</b>
<b>Michigan Total</b>	<b>22,585</b>	<b>9.0</b>	<b>(8.6-9.4)</b>
<b>Region 8</b>	1,172	10.3	(8.5-12.4)
District #10	729	9.9	(7.8-12.5)
Muskegon	443	10.9	(7.9-14.8)
<b>Region 9</b>	1,130	8.6	(7.1-10.5)
District #2	220	10.9	(7.2-16.3)
District #4	258	10.4	(7.1-15.1)
Northwest Michigan	325	6.6	(4.4-9.8)
Benzie-Leelanau	106	9.6	(5.2-17.1)
Grand Traverse	221	7.1	(4.4-11.2)
<b>Region 10</b>	1,175	10.4	(8.6-12.6)
Bay	268	11.1	(7.8-15.4)
Huron	100	5.3	(2.4-11.5)
Saginaw	586	11.9	(9.0-15.5)
Sanilac	104	12.7	(7.1-15.7)
Tuscola	117	5.5	(2.7-10.6)
<b>Region 11</b>	700	8.7	(6.8-11.0)
Central Michigan	481	7.8	(5.7-10.5)
Midland	219	10.7	(7.1-15.7)
<b>Region 12</b>	916	10.2	(8.2-12.6)
Luce-Mackinac-Alger-Schoolcraft	132	10.7	(6.4-17.4)
Western Upper Peninsula	188	11.1	(7.2-16.7)
Delta-Menominee	197	13.0	(8.5-19.5)
Chippewa	101	8.3	(4.2-15.7)
Dickinson-Iron	133	9.5	(4.7-18.2)
Marquette	165	7.6	(4.0-13.8)

<sup>a</sup> 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.

<sup>b</sup> 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.