Mississippi State Department of Health

Madison County Health Profile
# Mississippi County Health Profile

## Project Team

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## ACKNOWLEDGMENTS

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MSDH, Office of Health Data and Research
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Introduction

The mission of the Mississippi State Department of Health (MSDH) is to promote and protect the health of the citizens of Mississippi. The MSDH strives for excellence in government, cultural competence in the carrying out of our mission and to seek local solutions to local problems.

Mississippi has an estimated total population of 2,984,100 residents in 2017. The state is predominantly rural and divided into 82 counties, with 65 considered to be rural. The racial composition is approximately 59.3% white, 37.7% black or African American and 3.0% characterized as other.

Population health outcomes can be measured by premature death rates, or deaths of individuals before the age of 75, as these deaths may have occurred due to poor health outcomes. The state of Mississippi has the highest rate of premature death in the United States (U.S.) with 500.9 deaths per 100,000 (MS Vital Records, 2016). Many of these deaths are due to chronic conditions. The number one cause of death in Mississippi is heart disease with an adjusted mortality rate of 233.5 per 100,000 population in 2016. The second leading cause of death in Mississippi is cancer with an age-adjusted rate of 187.7 deaths per 100,000 population (2016). The most frequently diagnosed cancer is lung cancer. In 2016, the rate of obesity among adults in Mississippi was 37.3%. In Mississippi, congenital heart disease (CHD) affects approximately 1 in 64 live births (1.56%). This rate is nearly twice that of the U.S. which has a rate of CHD affecting approximately 1 in 125 live births. Mississippi has the highest rate of infant mortality in the U.S. with a total rate of 8.6 deaths per 1,000 live births (2016). There is a large racial disparity in infant mortality rates with the rate among whites at 6.8 and that for blacks at 11.4 per 1,000 live births (2016).

Historically, Mississippi has ranked poorly in a range of health indicators such as infant mortality, obesity, and teenage pregnancy. Statewide, behavioral risk factors including unhealthy eating habits and lack of physical activity have led to increased rates of chronic illnesses. As the poorest state in the nation, Mississippi faces greater challenges than many other states to prevent and combat illnesses. At the same time, there have been some significant public health successes: Mississippi is recognized as a national leader in childhood immunizations. Program development resources, such as the County Health Profiles, assist in statewide efforts to build a culture of health and improve Mississippi’s health status.

This report can be used as a resource to assist in the planning for ongoing and new health programs throughout the state of Mississippi, as well as to inform the general public of their county’s health status.

MSDH is administered at the level of public health regions. However, to be consistent with other surveillance reports, some of the indicators in the County Health Profiles are still presented by public health district.
Population Characteristics

Madison County Population Estimates by Year

<table>
<thead>
<tr>
<th>Year</th>
<th>Total</th>
<th>&lt;18</th>
<th>18-44</th>
<th>45-64</th>
<th>65+</th>
</tr>
</thead>
<tbody>
<tr>
<td>2011</td>
<td>96941</td>
<td>28326</td>
<td>32035</td>
<td>26195</td>
<td>10385</td>
</tr>
<tr>
<td>2012</td>
<td>98468</td>
<td>28463</td>
<td>32364</td>
<td>26432</td>
<td>11209</td>
</tr>
<tr>
<td>2013</td>
<td>100412</td>
<td>28572</td>
<td>33350</td>
<td>26684</td>
<td>11806</td>
</tr>
<tr>
<td>2014</td>
<td>101688</td>
<td>28674</td>
<td>33544</td>
<td>26955</td>
<td>12515</td>
</tr>
<tr>
<td>2015</td>
<td>103465</td>
<td>28691</td>
<td>34155</td>
<td>27438</td>
<td>13181</td>
</tr>
</tbody>
</table>

Population by Age, Gender and Race, 2010

<table>
<thead>
<tr>
<th>Age (years)</th>
<th>Gender</th>
<th>Race</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;18</td>
<td>13,140</td>
<td>11,133</td>
<td>25,648</td>
</tr>
<tr>
<td>18-44</td>
<td>16,187</td>
<td>14,634</td>
<td>34,132</td>
</tr>
<tr>
<td>45-64</td>
<td>12,142</td>
<td>7,939</td>
<td>25,506</td>
</tr>
<tr>
<td>65+</td>
<td>4,143</td>
<td>2,662</td>
<td>9,917</td>
</tr>
<tr>
<td>Total</td>
<td>45,612</td>
<td>36,368</td>
<td>95,203</td>
</tr>
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</table>

Percent of Population by Gender and Race, 2010

Source: U.S. Census, 2010
Social and Economic Characteristics

Median Household Income, 2015

Percent of Population Below Poverty level, 2015

Percent of Population Unemployed, 2016

Source: U.S. Census Bureau, American Community Survey
Educational Attainment of the Population Aged 25 and Older
2009-2013

Source: U.S. Census Bureau, the 2009-2013 American Community Surveys

Percent of Population Uninsured, 2014

Source: U.S. Census Bureau, Small Area Health Insurance Estimates
Health Outcome Indicators

**Percent of Adults (18 years or older) By Self Reported Health Status, 2011-2015**

![Bar chart showing the percentage of adults reporting their health status as Excellent, Good, and Fair/Poor in Madison County compared to the state.]

**Percent of Adults (18 years or older) Reporting Hospitalizations For Substance Use Disorders, 2011-2015**

![Bar chart showing the hospitalization rates per 10,000 population for substance use disorders in Madison County and the state.]

**Percent of Adults (18 years or older) Reporting Depressive Disorders, 2011-2015**

![Bar chart showing the percentage of adults reporting depressive disorders in Madison County and the state.]

*Source: 1. Mississippi Behavioral Risk Factor Surveillance System  
2. Mississippi Hospital Discharge Data System*
Health Outcome Indicators

Percent of Adults (18 years or older) Reporting High Cholesterol, 2011-2015

- Madison County: 36.2%
- State: 40.5%

Percent of Adults (18 years or older) Reporting High Blood Pressure, 2011-2015

- Madison County: 28.9%
- State: 41.3%

Percent of Adults (18 years or older) Reporting Obesity, 2011-2015

- Madison County: 26.4%
- State: 35.1%

Percent of Adults (18 years or older) Reporting Current Asthma, 2011-2015

- Madison County: 4.8%
- State: 7.9%

Source: Mississippi Behavioral Risk Factor Surveillance System
Madison County Health Profile

Select Chronic Conditions

Percent of Adults (18 years or older) Reporting
Heart Attack, 2011-2015

<table>
<thead>
<tr>
<th></th>
<th>County</th>
<th>State</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percent</td>
<td>2.7</td>
<td>5.3</td>
</tr>
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</table>

Percent of Adults (18 years or older) Reporting
Stroke, 2011-2015

<table>
<thead>
<tr>
<th></th>
<th>County</th>
<th>State</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percent</td>
<td>3.0</td>
<td>4.3</td>
</tr>
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Percent of Adults (18 years or older) Reporting
Type 2 Diabetes, 2011-2015

<table>
<thead>
<tr>
<th></th>
<th>County</th>
<th>State</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percent</td>
<td>8.8</td>
<td>13.0</td>
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Source: Mississippi Behavioral Risk Factor Surveillance System
Select Chronic Conditions

Age-adjusted Heart Disease Death Rate by Race
2010-2014

<table>
<thead>
<tr>
<th>Race</th>
<th>Deaths per 100,000 population</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>191.9</td>
</tr>
<tr>
<td>Black</td>
<td>231.8</td>
</tr>
<tr>
<td>Overall</td>
<td>205.1</td>
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</tbody>
</table>

Source: Mississippi Vital Statistics

Age-adjusted Stroke Death Rate by Race
2010-2014

<table>
<thead>
<tr>
<th>Race</th>
<th>Deaths per 100,000 population</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>52.0</td>
</tr>
<tr>
<td>Black</td>
<td>58.6</td>
</tr>
<tr>
<td>Overall</td>
<td>54.3</td>
</tr>
</tbody>
</table>
Select Chronic Conditions

Age-Adjusted Cancer Incidence and Death Rate by Year, 2010-2014

Age-Adjusted Cancer Incidence and Death Rate by Gender and Race, 2010-2014

Source: Mississippi Cancer Registry
Select Infectious Diseases

HIV, 2010-2014

Gonorrhea, 2010-2014

Chlamydia, 2010-2014

Source: Mississippi Vital Statistics
Maternal and Child Health

Percent of Infants Born to Pregnant Women Receiving Prenatal Care Beginning in the First Trimester, Madison County & State, 2010-2014

- **County**: 87.5%
- **State**: 80.4%

Percent of Low Birth Weight Deliveries, Madison County & State, 2010-2014

- **County**: 11.0%
- **State**: 11.7%

Percent of Preterm Births, Madison County & State, 2010-2014

- **County**: 15.8%
- **State**: 15.3%

*Source: Mississippi Vital Statistics*
Maternal and Child Health

Infant Mortality Rate, District V & State, 2011-2015

Teen Pregnancy, Female aged 15 to 19, Madison County & State, 2010-2014

1. Infant mortality rate at county level was not reliable, so the district level data was used as a close measure for this county.

Source: Mississippi Vital Records
Health Behavior Indicators

Percent of Mississippi adults (18 years or older) reporting being current smokers, Madison County & State, 2011-2015

Source: Mississippi Behavioral Risk Factor Surveillance System
Health Behaviors Indicators

Percent of adults (18 years or older) reporting received a pneumonia vaccination, Madison County & State, 2011-2015

- Madison County: 64.1%
- State: 66.8%

Percent of adults (18 years or older) reporting received an influenza vaccination, Madison County & State, 2011-2015

- Madison County: 66.9%
- State: 64.0%

Source: Mississippi Behavioral Risk Factor Surveillance System
Health Behaviors Indicators

Percent of adults (18 years or older) reporting consuming at least five or more fruits daily, Madison County & State, 2011-2015

- Madison County: 48.4%
- State: 49.5%

Percent of adults (18 years or older) reporting consuming at least five or more vegetables daily, Madison County & State, 2011-2015

- Madison County: 69.9%
- State: 69.1%

Percent of adults (18 years or older) reporting doing physical activity or exercise during the past 30 days, Madison County & State, 2011-2015

- Madison County: 28.0%
- State: 34.8%

Source: Mississippi Behavioral Risk Factor Surveillance System
Data Sources

**Behavioral Risk Factor Surveillance System (BRFSS)**
The BRFSS is an ongoing, state-based, random digit-dialed telephone survey of non-institutionalized U.S. adults aged 18 years or older. The survey collects information on health risk behaviors, preventive health practices, and health care access primarily related to chronic disease and injury. The BRFSS operates in 50 states, the District of Columbia, and three U.S. territories (Puerto Rico, U.S. Virgin Islands, and Guam). Self-reported data may be subject to errors for several reasons: an individual may have difficulty remembering events that occurred a long time ago or the frequency of certain behaviors; some respondents may over-report socially desirable behaviors or under-report behaviors they perceive to be less acceptable (e.g., social desirability or recall bias); respondents may also report certain risks, behaviors and perceptions differently due to their respective cultural and linguistic backgrounds (e.g., non-response) and data might be subject to systematic error resulting from non-coverage (e.g., lower telephone coverage among populations of low socioeconomic status). Additional information on Mississippi BRFSS methods is available at: [http://msdh.ms.gov/brfss/](http://msdh.ms.gov/brfss/).

**Mississippi Vital Statistics**
The Mississippi STatistically Automated Health Resource System (MSTAHRS) allows for the retrieval of vital records and other health related data on Mississippi residents. Deaths are coded using the Tenth Revision of the International Classification of Diseases (ICD-10). Death rates are age-adjusted to the projected year 2000 U.S. standard population and expressed as per 100,000 population. Available at: [http://mstahrs.msdh.ms.gov/](http://mstahrs.msdh.ms.gov/)

**QuickFacts Data**

**2010 Census Data**
The Summary File 1 data tables provide the most detailed information available so far from the 2010 Census about a community's entire population, including cross-tabulations of age, sex, households, families, relationship to householder, housing units, detailed race and Hispanic or Latino origin groups, and group quarters. Available at: [https://www.census.gov/2010census/](https://www.census.gov/2010census/)
References


