

**MISSOURI DELTA MEDICAL CENTER  
COMMUNITY HEALTH NEEDS ASSESSMENT**

**September 2016**



**MISSISSIPPI COUNTY  
NEW MADRID COUNTY  
SCOTT COUNTY**

## **Executive Summary**

Creating healthy communities requires a high level of mutual understanding and collaboration with individuals and organizations in the community. The development of this assessment brought together community health leaders and providers along with local residents to research and prioritize community health needs and to document community health delivery success. This health assessment will serve as the foundation for Missouri Delta Medical Center's community health improvement efforts over the next three years.

### Community Health Needs Assessment Process and Requirements

A Community Health Needs Assessment (CHNA) must be conducted every three years by not-for-profit hospitals in order to comply with federal tax-exemption requirements under the Affordable Care Act. Following the CHNA, the hospital must adopt an implementation strategy to meet the community health needs identified through the assessment, and it must report how it is addressing the needs identified in the CHNA and provide a description of needs that are not being addressed with the reasons why such needs are not being addressed. The ultimate purpose of the CHNA is to improve community health.

The Community Health Needs assessment process consists of the following steps:

1. Define the community served by the hospital facility
2. Identify the partners and individuals representing the broad interest of the community
3. Gather available data and current assessments
4. Develop and conduct primary research
5. Aggregate primary and secondary research
6. Identify and prioritize the health needs of your community
7. Develop and implement a strategy to address the identified priority health issues
8. Widely disseminate the CHNA

### Community Defined

For the purposes of this assessment, community is defined as the geographic area from which a significant number of patients using Missouri Delta Medical Center (MDMC) services reside. The primary service area for MDMC is based on the number of inpatient discharges and outpatient visits by patients that reside in each of the three counties: Scott, Mississippi and New Madrid. Eighty-one percent of MDMC patients reside in these three counties. This information was provided by the Hospital Industry Data Institute (HIDI) that is funded by the Missouri Hospital Association.

The CHNA for Scott County was conducted in partnership with Saint Francis Medical Center. As Mississippi County and New Madrid County were the primary service area of Missouri Delta alone the CHNA was not conducted in partnership with Saint Francis Medical Center.

The Mississippi County, New Madrid County and Scott County secondary data was collected from a variety of local, county, state and national sources in order to profile the demographics, social/economic factors, health status and access to healthcare in the communities serviced. The sources used are referenced throughout the CHNA. Analyses were conducted by comparing the

three county area data to state and national benchmarks when available. Additional analysis was performed by demographic characteristics such as age and race based on availability and significance of the data.

### Primary Research

Primary data collection for this CHNA included a focus group held in each of the three counties. Individuals from a broad interest were included in the focus groups. Efforts were made to include at-risk, targeted populations and principle specialty areas that are served by the hospital and present within the community, such as the medically underserved, low income persons, minority groups, and those with chronic disease needs.

#### Focus Group Questions:

1. What do people in this community do to stay healthy? How do people get information about health?
2. In this group's opinion, what are the serious health problems in your community? What are some of the causes of these problems?
3. What keeps people in your community from being healthy?
4. What could be done to solve these problems?
5. Is there any group not receiving enough health care? If so, why?
6. Of all the issues we have talked about today, what issues do you think are the most important for your community to address?

The survey was very extensive and consisted of four different sections. The survey demographics were representative of the three counties.

1. Demographics: Multiple choice questions to collect information about the population of the county.
2. Social and Economic Factors: Multiple choice questions to collect information regarding the population's education, employment and income status.
3. Health Behaviors: Questions to collect information on the behaviors correlated to health of adults and children in the county.
4. Medical Care and Services: Multiple choice, short answer and ranked questions to collect information regarding healthcare access, health status, insurance coverage and opinions on health issues.

## Key Findings

The following list represents the key findings of the Community Health Needs Assessment by type of need:

### Health Needs

- Adult Obesity
- Child Obesity
- Cancer
  - Lung
  - Breast
  - Colorectal
- Heart Disease
- Coronary Obstructive Pulmonary Disease
- Mental Illness
  - Suicide
- Stroke/other Cerebrovascular Disease
- Diabetes
- Pneumonia
- Chronic Liver Disease and Cirrhosis
- Kidney Disease
- Infant Health and Mortality
- Unintentional Injuries, motor vehicle accidents
- Injuries and poisonings
- Alzheimer's Disease
- Dental Health
- Asthma

### Behavioral Needs

- Alcohol/Drug Abuse
- Smoking and Smokeless Tobacco
  - Smoking During Pregnancy
- Teen Pregnancy
- Health & Preventive Practices
  - Current cigarette smoking, no leisure-time activities, fewer than 5 fruits and vegetables per day, overweight, high blood pressure, high cholesterol, no mammogram, no pap smear, no blood stool testing, and no sigmoidoscopy or colonoscopy
- Student Health Behaviors
  - Chewing tobacco, inhalants, prescription drug abuse and over-the-counter medication abuse

## Community Needs

- Healthcare Affordability
- Transportation/Affordable Transportation
- Ability to Afford Prescribed Medications
- Affordable Healthcare
- Job Availability
- Unemployment
- Literacy
- Allergies
- Job Security
- Secondhand Smoke
- Injuries at work
- Access to Dental Care
- Access to Healthcare for underinsured
- Child Health
  - Unintentional injury, motor vehicle deaths, birth defects, homicide and heart disease
- Adolescent Health
  - Unintentional injury, motor vehicle deaths, homicide, suicide, all cancers and heart disease

## **Priority Needs**

### Prioritization Process

The Missouri Information for Community Assessment (MICA) was used to prioritize different criteria measurements to rank the diseases, which are listed and briefly explained below. Additional information can be found on the Missouri Department of Health and Senior Service Priority MICA.

- **Amenability to Change:** the scientific knowledge of known community interventions that have been shown to prevent or reduce a given disease.
- **Community Support:** determined by the user of the current level of support in the community to address the disease (community opposition, no interest, some interest or organized support)
- **Death Trend Statistically Significant:** measures the urgency of the disease depending on whether the death rate is increasing or decreasing over time.
- **Disability Burden:** the number of years lived with disability taken from the Revised Global Burden of Disease 2002 Estimates.
- **Hospital Days of Care:** measures the severity of a disease and its potential impact on financial resources from the cost of hospital care and time unavailable from normal duties.
- **Number of Deaths:** measures the severity of a disease.
- **Number of Deaths Under Age 65:** measures the severity of a disease

- Number of Hospitalizations and ER Visits: measures the magnitude of the disease
- Racial Disparity for ER Visits: measures the rate of racial disparity from ER visits because barriers for care due to lack of insurance do not affect emergency rooms as much (uses the primary minority population in Missouri, African-Americans).
- Racial Disparity for Deaths: the ratio of the African-American age-adjusted death rate for a specific disease divided by the white/Caucasian age-adjusted death rate for the same disease.
- Prevalence/Incidence: Prevalence is the number of people who have the disease at a specific point in time. Incidence is the number of new people who get the condition during a specific time period.

Using all of the above criteria, the Priorities MICA ranked selected diseases and conditions. Using just the “Amenability to Change”, “Community Support” and “Prevalence/Incidence” criteria, the Priorities MICA ranked selected risk factors. These rankings were also considered in determining the priority needs discovered from research in this assessment.

The top five ranked diseases and conditions from the Priorities MICA

#### Mississippi County

1. Diabetes
2. Heart Disease
3. Chronic Obstructive Pulmonary Disease (COPD)
4. Lung Cancer
5. Arthritis/Lupus

#### New Madrid County

1. Heart Disease
2. Chronic Obstructive Pulmonary Disease (COPD)
3. Diabetes
4. Infant Health Problems
5. Motor Vehicle Accidents

#### Scott County

1. Chronic Obstructive Pulmonary Disease (COPD)
2. Heart Disease
3. Diabetes
4. Motor Vehicle Accidents
5. Stroke/Other Cerebrovascular Diseases

The top five ranked risk factors included:

Mississippi County

1. Mother being overweight
2. Obese (>30 BMI)
3. Smoking During Pregnancy
4. Smoking
5. No Exercise

New Madrid County

1. Mother being overweight
2. Obese (>30 BMI)
3. No Exercise
4. Smoking
5. No Mammography age 40 and older

Scott County

1. Mothers being overweight
2. Smoking
3. No exercise/sedentary lifestyle
4. Smoking during pregnancy
5. Obesity (>30 BMI)

Members of the Missouri Delta CHNA Team analyzed the survey data, focus group data, and secondary data in the report to prioritize the community health needs for the three counties. The priority needs were first identified by the primary research or what the community finds important. These high priority needs were then validated by the secondary research by looking at the community's statistics and trends against the state's statistics and trends.

Top 5 Priority Health Needs (and Associated Behavioral Needs)

- Child and Adult Obesity
- Chronic Disease
  - Diabetes (Diet and Exercise)
  - Chronic Respiratory Disease (Smoking)
  - Heart Disease (Smoking/Diet and Exercise)
  - Stroke (Healthy Lifestyle)
- Cancer (Smoking)
- Mental Illness
- Transportation



## **INTRODUCTION AND METHODS**

### Community Health Needs Assessment Description

A community health needs assessment (CHNA) is a systematic process involving the community, to identify and analyze community health needs and assets in order to prioritize these needs, and to plan and act upon unmet community health needs.

### Community Health Needs Assessment Requirements

A CHNA must be conducted every three years by not-for-profit hospitals in order to comply with federal tax-exemption requirements under the Affordable Care Act. The CHNA must take into account input from persons who represent the broad interest of the community served by the hospital facility, including those with special knowledge or expertise in public health; and it must be made widely available to the public. Following the CHNA, the hospital must adopt an implementation strategy to meet the community health needs identified in the CHNA and provide a description of needs that are not being addressed with the reasons why such needs are not being addressed. The ultimate purpose of the CHNA is to improve community health.

The documentation of the CHNA must include the following information:

1. A description of the community served by the hospital facility and how it was determined.
2. A description of the process and methods used to conduct the assessment, including:
  - a. A description of the sources and dates of the data and other information used in the assessment, including primary and secondary sources
  - b. The analytical methods applied to identify community health needs
  - c. Information gaps that affect the hospital's ability to assess the community's health needs.
  - d. If the hospital collaborates with other organizations in conducting a CHNA, the report should then identify all of the community organizations that collaborated with the hospital
  - e. If the hospital contracts with one or more third parties to assist in conducting a CHNA, the report should also disclose the identity and qualifications of the third parties
3. A description of the approach used to plan, develop, and conduct the assessment and how the hospital organization took into account input from individuals who represent the broad interest of the community served by the hospital facility including:
  - a. A description of when and how the organization consulted with these individuals (whether through meetings, focus groups, interviews, surveys, written correspondence, etc.)
  - b. Community leaders who were consulted and/or collaborated in the planning and implementation process
  - c. Justification of why data sources were used and selected
  - d. Justification of the approach for primary data collection



- e. Explanation of successful and non-successful approaches to see broad-based community input, especially underserved or high-risk groups within the community
  - f. If the hospital takes into account input from an organization, the written report should identify the organization and provide the name and title of at least one individual in that organization who consulted with the hospital
  - g. Identification of any individual providing input who has special knowledge of or expertise in public health and the report should list those people by name, title, affiliation, and include a brief description of the individual's special knowledge or expertise
4. A prioritized description of all community health needs identified through the CHNA, as well as a description of the process and criteria used in prioritizing such health needs
    - a. Priorities identified through primary and secondary data
    - b. Other processes used to rank priorities
  5. A description of the existing health care facilities and other resources within the community available to meet the community health needs identified through the CHNA

### Implementation Strategy Requirements

The IRS guidance specifies that the CHNA results must be used to develop and implementation strategy that must be adopted by the hospital. The implementation strategy is defined as a written plan that addresses each of the community health needs that were identified through the assessment. Each hospital organization must meet the requirement to adopt an implementation strategy separately with respect to each hospital facility it operates. The Treasury and IRS expect the implementation strategy to:

1. Describe how the hospital facility plans to meet the health need; or
2. Identify the health need as on the hospital facility does not intend to meet and explains why the hospital facility does not intend to meet the health need

In describing how a hospital facility plans to meet a health need identified through a CHNA, the implementation strategy must tailor the description to the particular hospital facility, taking into account its specific programs, resources, and priorities. The implementation strategy should also describe any planned collaboration with governmental, non-profit, or other health care organizations, including related organizations, in meeting the health need.

The IRS will allow hospital organizations to develop implementation strategies for their hospital facilities in collaboration with other organizations, including related organizations, other hospital organizations, for-profit and government hospitals, state and local agencies, such as local health departments. If a hospital does collaborate with other organizations in developing an implementation strategy, the strategy should identify all the organizations with which the hospital collaborated.

The implementation strategy is considered to be adopted on the date the implementation strategy is approved by an authorized governing body of the hospital organization. The authorized governing body means:

1. The governing body of the hospital organization (i.e. board of directors, board of trustees, or equivalent controlling body)
2. A committee of the governing body, which may be comprised of any individuals permitted under state law to serve on such committee, to the extent the committee is permitted by the state law to act on behalf of the governing body; or
3. To the extent permitted under state law, other parties authorized by the governing body of the hospital organization to act on its behalf by following procedures specified by the governing body in approving an implementation strategy

### Community Health Needs Assessment Process

The Community Health Needs Assessment process should consist of the following steps:

1. Define the community served by the hospital facility
2. Identify the partners and individuals representing the broad interest of the community
  - a. Individuals with special knowledge or expertise in public health
  - b. Federal, tribal, regional, state or local health or other departments or agencies, with current data or other information relevant to the health needs of the community served by the hospital facility
  - c. Leaders, representatives, or members of medically underserved, low income and minority populations, as well as populations with chronic disease needs
3. Gather available data and current assessments
4. Develop and conduct primary research
5. Aggregate primary and secondary research
6. Identify and prioritize the health needs in your community
7. Develop and implement a strategy to address the identified priority health issues
8. Widely disseminate the CHNA

### **Defining “Community”**

For the purposes of this assessment, community is defined as the geographic area from which a significant number of patients using Missouri Delta Medical Center (MDMC) services reside. The primary service area for MDMC is based on the number of inpatient discharges and outpatient visits by patients that reside in each of the three counties: Scott, Mississippi and New Madrid. Eighty-one percent of MDMC patients reside in these three counties. This information was provided by the Hospital Industry Data Institute (HIDI) that is founded by the Missouri Hospital Association.

### **Identifying Partners and Individuals Representing the Broad Interest of the Community**

The CHNA for Scott County was conducted in partnership with Saint Francis Medical Center. As Mississippi County and New Madrid County were the primary service area of Missouri Delta alone and the CHNA was not conducted in partnership with Saint Francis Medical Center.

The individuals representing the broad interest of the county being assessed include involving people from the following organizations when the primary research was conducted.

- Bootheel Counseling Services
- Daughters of Sunset
- Mission Missouri
- Missouri Bootheel Regional Consortium
- North Scott County Ambulance District
- Scott County Health Department
- Scott County Sheriff's Department
- SEMO Health Network
- Sikeston Public Safety
- Sikeston Public Schools
- Sikeston R-IV Schools
- South Scott County Ambulance District
- YMCA of Southeast Missouri

Efforts were made to include at-risk, targeted populations and principle specialty areas that are served by the hospital and present within the community, such as the medically underserved, low income persons, minority groups, and those with chronic disease needs.

### **Gather Available Data and Current Assessments**

Secondary data are existing data that are collected by someone else for a purpose other than the one being pursued. Secondary research was obtained from various credible sources and is included in this written assessment report. Some areas that were researched include demographics, the physical environment, social factors, the economy, the transportation system, the education system, the health care system, and public safety. The assessment also includes existing health status and public health data. Examples of the data sources used are as follows:

- U.S. Census Bureau
- Missouri Department of Health and Senior Services
- Missouri Department of Elementary and Secondary Education
- Missouri Economic Research and Information Center (MERC)
- U.S. Bureau of Labor Statistics
- Environmental Protection Agency
- Centers for Disease Control and Prevention
- University of Wisconsin's County Health Rankings
- Missouri Department of Mental Health
- Missouri State Highway Patrol

## **Development and Conduct Primary Research**

Primary data and data collected specifically for the purpose of answering project-specific questions. Primary data should be collected after the collection and initial review of secondary data and should add breadth, depth, and qualitative information to the secondary data. Primary research was obtained in Mississippi County, New Madrid County and Scott County through individual public surveys and focus groups.

### Public Surveys

Surveys provide a flexible means of assessing a representative sample of the population to gather information about attitudes and opinions, as well as measure behaviors and population characteristics. The individual survey that was used was created by Saint Francis Medical Center's Community Health Needs Assessment Team and can be found in the Appendix. Advantages of surveying for individual responses include:

- Obtaining direct feedback from clients, key informants and target populations about specific issues
- Developing public awareness about problems
- Building a consensus for solutions and actions
- Comparing the self-reported incidence and prevalence with more object data sources
- Improving perception of quality of local health care services
- Improving perception on the need of specific services either existence or under consideration

### Focus Groups

Group surveys in the form of focus groups were also conducted. A focus group is defined as people who possess certain similar characteristics that are assembled as a group to participate in a focused discussion to help understand the topic of interest. The questions asked in each focus group can be found in the Appendix and a list of all focus group participants along with their experience can also be found in the Appendix. Data was collected form the focus groups primarily through note-taking. A writing exercise was also handed out and completed regarding each participant's top 5 serous issues.

## **Aggregate Primary and Secondary Research**

An Access Database was created for the survey data to be entered and tracked. The Community Health Needs Assessment Team entered the surveys into the CHNA Survey Tracking Database, which was a very tedious and time-consuming process due to the amount of questions asked and data collected by the survey. Following the entry of all surveys, the data was then exported from Access and manipulated into usable information in Excel. The information that was collected from the focus groups will also be presented and discussed under in the body of this report.

### **Identify and Prioritize the Health Needs in the Community**

From the analysis of this research, community needs were determined based on what the community finds most important and by what the community is most lacking in that could have an impact on the health of its citizens. These needs were primarily determined by the primary research – what the community finds most important, along with tying that information to what the secondary research shows and looking at the community’s statistics and trends against the state’s statistics and trends.

### **Develop and Implement a Strategy to Address the Identified Priority Health Issues**

The implementation strategy will be developed separately by each hospital partner involved in creating this CHNA. Each hospital partner will decide what needs will be addressed and how those needs will be addresses.

### **Widely Disseminate the CHNA**

The CHNA in not considered “conducted” until the written report is made widely available to the public. Fulfilling the “widely available” requirement requires the following:

1. Posting the CHNA on a website that clearly informs users that the document is available and provides instruction for downloading.
2. The document is posted in a format that exactly reproduces the images of the report when accessed, downloaded, viewed and printed.
3. Allows individuals with Internet access to access, download, view and print the report without the use of special hardware or software.
4. The hospital or other organization distributing the report will provide direct website address to individuals who request a copy of the report.
5. The CHAN must remain widely available to the public until the next CHNA for that hospital is conducted and made widely available.

## FINDINGS

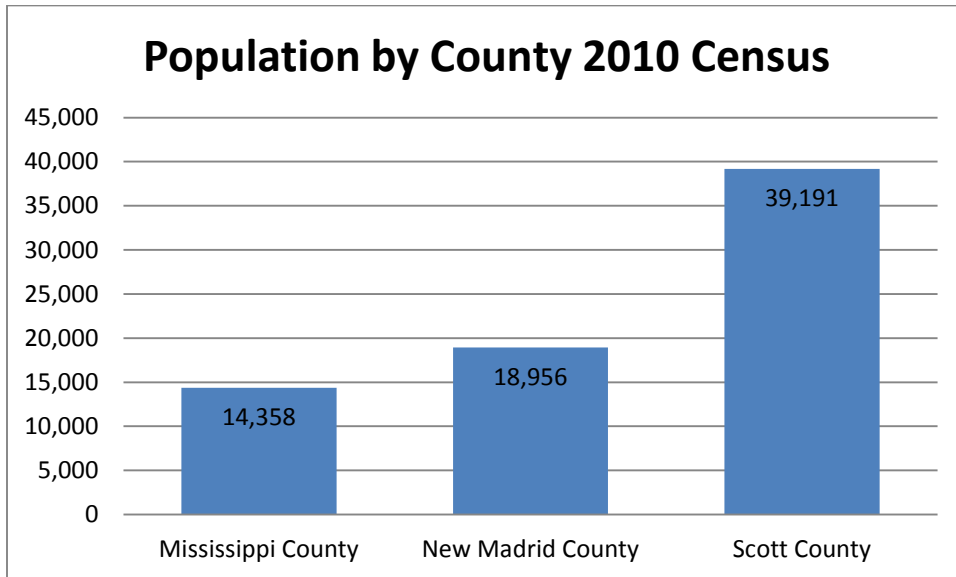
### SECONDARY DATA ANALYSIS

The health assessment findings are shown in this report for each of the three counties served by Missouri Delta Medical Center.

## DEMOGRAPHIC CHARACTERISTICS

### POPULATION

The total population for the three county area served by MDMC based on 2010 census was 72,505.



There are 14,358 residents in Mississippi County in 2010, a density of 34.75 people per square mile. The ten year population change from 2000 to 2010 was 6.91%.

New Madrid County's population density is 27.96 people per square mile with a total population of 18,956. From 2000 to 2010 New Madrid County experienced a population decrease of 3.73%.

The population of Scott County in 2010 was 39,191 which showed a decrease of 3.08% from the 2000 census. The population density of Scott County is 93.09 which is significantly higher than the other two counties in MDMC's service area.

## AGE AND GENDER

Demographics (% of Population)	Mississippi	New Madrid	Scott	Missouri	United States
<b>Total Population</b>	<b>14,358</b>	<b>18,596</b>	<b>39,191</b>	<b>5,996,092</b>	<b>308,745,538</b>
<b>GENDER</b>					
<b>Male</b>	<b>53.57%</b>	<b>48.05%</b>	<b>48.17%</b>	<b>49%</b>	<b>49.20%</b>
<b>Female</b>	<b>46.43%</b>	<b>51.95%</b>	<b>51.83%</b>	<b>51%</b>	<b>50.80%</b>
<b>AGE</b>					
<b>0-19</b>	<b>24.45%</b>	<b>25.59%</b>	<b>27.70%</b>	<b>26.67%</b>	<b>27.14%</b>
<b>20-34</b>	<b>19.86%</b>	<b>16.70%</b>	<b>17.67%</b>	<b>20.00%</b>	<b>20.29%</b>
<b>35-49</b>	<b>21.08%</b>	<b>19.76%</b>	<b>19.79%</b>	<b>19.82%</b>	<b>20.66%</b>
<b>50-64</b>	<b>19.35%</b>	<b>20.89%</b>	<b>19.85%</b>	<b>19.58%</b>	<b>19.04%</b>
<b>65-79</b>	<b>11.30%</b>	<b>11.57%</b>	<b>11.18%</b>	<b>10.14%</b>	<b>9.40%</b>
<b>80+</b>	<b>3.94%</b>	<b>4.49%</b>	<b>3.80%</b>	<b>3.89%</b>	<b>3.64%</b>

Data Source: U.S. Census Bureau 2010



There are seven cities/villages and six zip codes in Mississippi County, twenty cities/villages and fourteen zip codes in New Madrid County and twenty cities/villages and eleven zip codes in Scott County. Mississippi County covers four hundred and eleven (411) square miles. New Madrid is the largest geographic area of the three counties at six hundred seventy-four (674) square miles. Scott county is four hundred and nineteen (419) square miles.

County	Zip Code	City	County	Zip Code	City
Mississippi	63834	Charleston	New Madrid	63838	Conran
Mississippi	63820	Anniston	New Madrid	63828	Canalou
Mississippi	63881	Wolf Island	New Madrid	63873	Boekerton
Mississippi	63845	East Prairie	Scott	63771	Oran
Mississippi	63823	Bertrand	Scott	63736	Haywood City
Mississippi	63882	Wyatt	Scott	63774	Perkins
Mississippi	63834	Diehlstadt	Scott	63740	Arbor
New Madrid	63878	Tallapoosa	Scott	63771	Haywood City
New Madrid	63873	Point Pleasant	Scott	63736	New Hamburg
New Madrid	63867	Matthews	Scott	63758	Kelso
New Madrid	63833	Catron	Scott	63740	Chaffee
New Madrid	63874	Risco	Scott	63784	Vanduser
New Madrid	63873	Portageville	Scott	63736	Benton
New Madrid	63860	Kewanee	Scott	63767	Morley
New Madrid	63870	Parma	Scott	63740	Randles
New Madrid	63848	Peach Orchard	Scott	63801	Miner
New Madrid	63862	North Lilbourn	Scott	63736	Lambert
New Madrid	63869	Howardville	Scott	63740	Allenville
New Madrid	63848	Gideon	Scott	63824	Blodgett
New Madrid	63873	Hayward	Scott	63780	Scott City
New Madrid	63862	Lilbourn	Scott	63740	Rockview
New Madrid	63866	Marston	Scott	63742	Commerce
New Madrid	63868	Morehouse	Scott	63801	Sikeston
New Madrid	63869	New Madrid			

## POPULATION GROWTH

Mississippi County According to the US Census Bureau:

- In 2010, Mississippi County had a population of 14,358.
- The population increased by 6.91% since 2000, which compared to the statewide growth of 6.83%.

New Madrid County according to the U.S. Census Bureau:

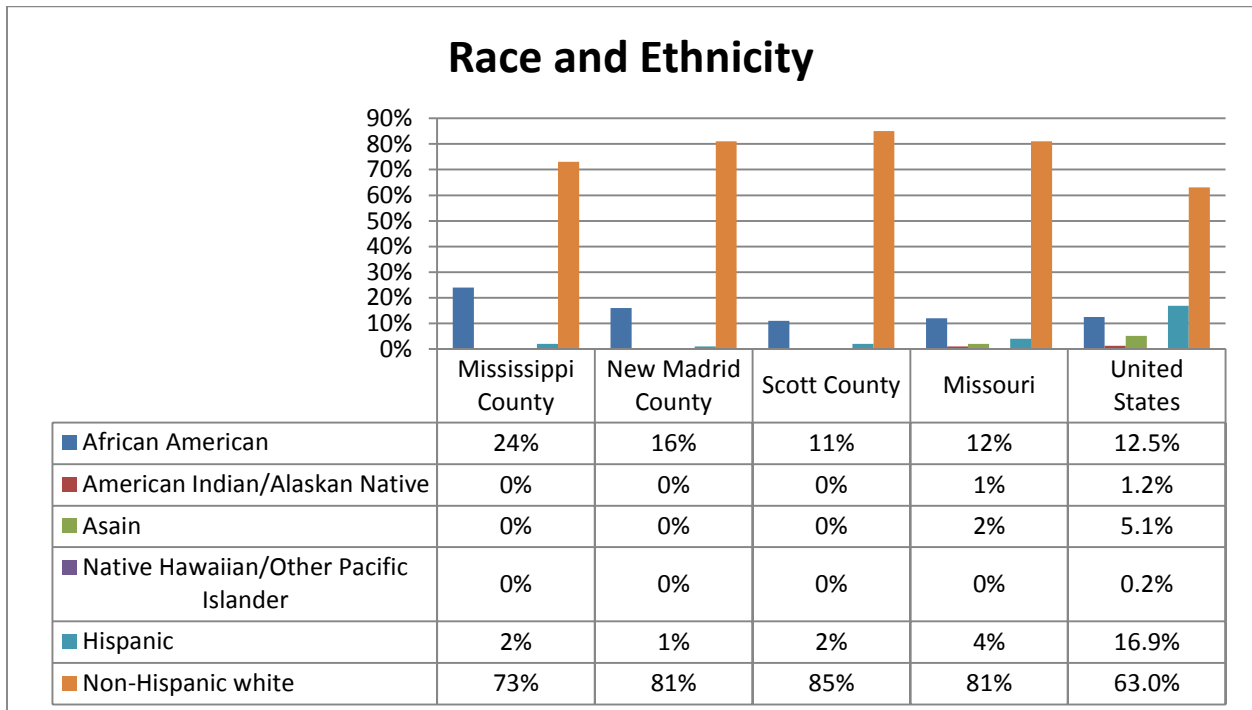
- In 2010, New Madrid County had a population of 18,956.
- The population decreased by -3.73% since 2000, compared to a 6.83% growth statewide.

Scott County According to the U.S. Census Bureau:

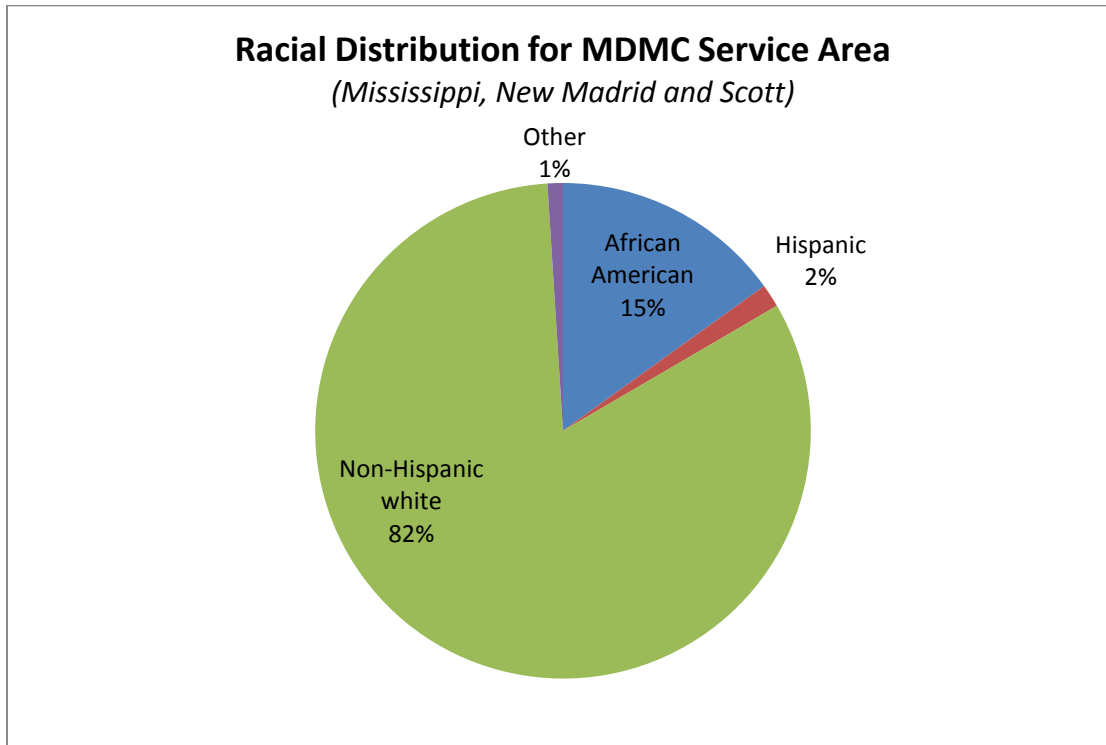
- In 2010, Scott County had a population of 39,191.
- The population has declined -3.03% since 2000, compared to a 6.83% growth statewide.

## RACE AND ETHNICITY

The race/ethnicity distribution based on 2010 Census data shows a population that is predominately Non-Hispanic White for all three counties. Mississippi County and New Madrid County have a higher rate of African Americans residents than Missouri and the United States, while Scott County has a slightly lower number of African American residents. All three counties have a lower number of Hispanic residents than Missouri and have a significantly lower Hispanic population than the United States.



## RACIAL/ETHNIC DISTRIBUTION OF RESIDENTS



## SOCIAL AND ECONOMIC FACTORS

Economic and social insecurity often are associated with poor health. Poverty, unemployment and lack of educational achievement affect access to care and a community's ability to engage in healthy behaviors. Ensuring access to social and economic resources provides a foundation for a healthy community.

### Social Factors Summary

The table below is a summary of social characteristics of Mississippi, New Madrid and Scott Counties, Missouri and the United States. Marital status category for Scott and New Madrid County are similar to benchmarks for Missouri and United States, however Mississippi County has a lower percentage of married and higher percentage of divorced than the benchmarks.

The school enrollment category for Mississippi County has a higher enrollment of nursery school, preschool and kindergarten than the benchmarks and New Madrid and Scout County. All three counties have a lower rate of students seeking higher education, in particular Mississippi County with a rate of 7.5%, which is 20% less than the state and national benchmarks.

Educational attainment for the residents of the three county areas has a lower percentage of residents without a high school diploma in particular Mississippi County with 33.8% of the residents not having a high school education. The area does have a greater percentage of residents with a high school diploma than the state and national benchmarks this would be due to

the much lower percentage of residents with education beyond high school. Mississippi, New Madrid and Scott Counties have a lower percent of residents without a high school diploma compared to the state and national benchmarks. This indicator is relevant because low levels of education are often linked to poverty and poor health.

<b>Demographics (% of Population)</b>	<b>Mississippi</b>	<b>New Madrid</b>	<b>Scott</b>	<b>Missouri</b>	<b>United States</b>
<b>MARITAL STATUS</b>					
<b>Population 15 years and older</b>	<b>11,548</b>	<b>15,155</b>	<b>31,063</b>	<b>4,841,501</b>	<b>250,392,781</b>
<b>Married</b>	<b>42.1%</b>	<b>51.1%</b>	<b>52.0%</b>	<b>50.2%</b>	<b>48.3%</b>
<b>Widowed</b>	<b>9.2%</b>	<b>8.9%</b>	<b>8.2%</b>	<b>6.4%</b>	<b>6.0%</b>
<b>Divorced</b>	<b>16.6%</b>	<b>13.4%</b>	<b>12.6%</b>	<b>12.0%</b>	<b>11.0%</b>
<b>Separated</b>	<b>2.5%</b>	<b>2.3%</b>	<b>1.9%</b>	<b>1.9%</b>	<b>2.2%</b>
<b>Never married</b>	<b>29.6%</b>	<b>24.1%</b>	<b>25.3%</b>	<b>29.5%</b>	<b>32.5%</b>
<b>SCHOOL ENROLLMENT</b>					
<b>Population three years and over enrolled in school</b>	<b>2790</b>	<b>4269</b>	<b>10093</b>	<b>1,551,053</b>	<b>83,131,910</b>
<b>Nursery school, preschool, Kindergarten</b>	<b>20.8%</b>	<b>15.9%</b>	<b>13.1%</b>	<b>11.4%</b>	<b>11.1%</b>
<b>Elementary school (grades 1-8)</b>	<b>47.8%</b>	<b>45.2%</b>	<b>47.0%</b>	<b>40.3%</b>	<b>39.5%</b>
<b>High School (grades 9-12)</b>	<b>23.9%</b>	<b>24.2%</b>	<b>22.6%</b>	<b>21.3%</b>	<b>20.7%</b>
<b>College or graduate school</b>	<b>7.5%</b>	<b>14.7%</b>	<b>17.3%</b>	<b>27.0%</b>	<b>28.7%</b>
<b>EDUCATIONAL ATTAINMENT</b>					
<b>Population 25 years and over</b>	<b>9,791</b>	<b>12,764</b>	<b>26,073</b>	<b>4,008,554</b>	<b>206,471,670</b>
<b>Less than high school diploma</b>	<b>33.8%</b>	<b>25.4%</b>	<b>23.0%</b>	<b>12.4%</b>	<b>14.1%</b>
<b>High school graduate (includes equivalency)</b>	<b>40.6%</b>	<b>41.0%</b>	<b>42.6%</b>	<b>31.4%</b>	<b>28.4%</b>
<b>Some college or associate's degree</b>	<b>15.4%</b>	<b>20.5%</b>	<b>20.7%</b>	<b>30.1%</b>	<b>29.0%</b>
<b>Bachelor's degree</b>	<b>7.8%</b>	<b>8.4%</b>	<b>9.2%</b>	<b>16.4%</b>	<b>17.9%</b>
<b>Graduate or professional degree</b>	<b>2.8%</b>	<b>4.7%</b>	<b>4.5%</b>	<b>9.7%</b>	<b>10.6%</b>

Source: U.S. Census Bureau, 2007-2011 American Community Survey 5-Year Estimates.

### Social or Emotional Support

The table below shows the percentage of adults aged 18 and older who self-report receiving sufficient social and emotional support “all” or “most of the time”. This is relevant because social and emotional support is critical for coping with the challenges of daily life as well as for good mental health. Social and emotional support is also linked to educational achievement and economic stability. The percent of adults reporting adequate social or emotional support is lower than the state and national benchmarks for New Madrid and Scott counties, no data was available for Mississippi County.

<b>Geographic Area</b>	<b>Percent of Adults Reporting Adequate Social and Emotional Support</b>
Mississippi County	Data not avail
New Madrid County	77%
Scott County	74%
Missouri	81%
United States	80%

Data Source: County Health Rankings

### Domestic Violence

Domestic violence incidents are reported whether or not an arrest is made and include any dispute arising between spouses, former spouses, and persons with children in common regardless of whether they reside together, persons related by blood, persons related by marriage, non-married persons currently residing together and non-married persons who have resided together in the past. Domestic violence incidents are reported when an officer believes a dispute crosses an abuse threshold as indicated by harassment, stalking, coercion, assault, sexual assault, battery, or unlawful imprisonment. Domestic violence incidents are reported by the highest ranked relationship between victim and offender, regardless of the number of persons or potential multiple relationship present during the incident. The following table shows the domestic violence incidents in the three county areas for 2009 by the victim/offender relationship. The Missouri rate for 2009 was 651.0 per 100,000 population, which is considerably lower than the Scott County rate of 1,527 per 100,000 population and the Mississippi County rate of 2,574 per 100,000 population. The New Madrid County rate was 608 per 100,000 population, which is lower than the state rate. Mississippi has the highest domestic violence rate in the state of Missouri and Scott County has the fourth highest rate.

<b>Victim/Offender Relationship</b>	<b>Mississippi</b>	<b>New Madrid</b>	<b>Scott</b>	<b>Missouri</b>
Spouse	46	25	146	7804
Former Spouse	19	3	19	1082
Couples w/child(ren)in Common	41	13	94	4361
Blood Relative	58	13	112	5993
People Related Through Marriage	16	6	15	1157
People Who Live Together	66	21	153	1023
People Who Live Together in the Past	28	8	78	2294
<b>Total Domestic Violence Incidents</b>	<b>274</b>	<b>89</b>	<b>617</b>	<b>36943</b>
<b>Rate per 100,000 population</b>	<b>2,574</b>	<b>608</b>	<b>1,527</b>	<b>651</b>

Source: Missouri State Highway Patrol's 2009 Crime in Missouri Report

### Teen Births

The table below shows the rate of total births to women aged 15 to 19 per 1,000 of the female population in the same age category. Teen parents have unique social, economic and health support service needs. In addition, high rates of teen pregnancy may indicate the prevalence of unsafe sex practices. The teen birth rate in Mississippi, New Madrid and Scott counties are significantly higher than the state and national teen birth rates.

<b>Geographic Area</b>	<b>Female Population Age 15-19)</b>	<b>Births to Mothers (Age 15-19)</b>	<b>Teen Birth Rate (Per 1,000 Births)</b>
Mississippi	2,928	273	93
New Madrid	4,319	318	74
Scott	9,827	660	67
Missouri	1,456,008	61,120	42
United States	72,071,117	2,969,330	41

Data Source: Centers for Disease Control and Prevention, National Vital Statistics Systems, 2004-2010.

## Economic Factors Summary

The table below shows a summary of economic factors contributing to the health and wellness of communities. The median household incomes for all three counties in MDMCs service are well below the median household income for Missouri and the United States. The uninsured population for all three counties is higher than Missouri and the United States. Poverty rates for all three counties are also higher than the state and national rates.

<b>2011 (% of Population)</b>	<b>Mississippi</b>	<b>New Madrid</b>	<b>Scott</b>	<b>Missouri</b>	<b>United States</b>
<b>INCOME IN THE PAST 12 MONTHS (IN 2011 INFLATION-ADJUSTED DOLLARS)</b>					
Median household income	\$29,533	\$35,522	\$37,793	\$45,231	\$50,502
<b>HEALTH INSURANCE COVERAGE</b>					
No health insurance coverage	18.0%	19.0%	16.0%	13.7%	15.1%
<b>POVERTY RATES FOR FAMILIES AND PEOPLE FOR WHOM POVERTY STATUS IS DETERMINED</b>					
All families	21.5%	16.2%	12.8%	11.5%	11.7%
All people	25.8%	21.5%	17.2%	15.8%	15.9%
Under 18 years	35.6%	30.1%	22.8%	22.1%	22.5%
18 years and over	22.8%	18.7%	15.3%	13.8%	13.9%
18 to 64 years	23.7%	19.2%	15.2%	15.1%	14.8%
65 years and older	18.9%	17.0%	15.5%	8.2%	9.3%

Data Source: U.S. Census Bureau, 2011 American Community Survey

## Unemployment Rate

The indicator reports the percentage of the civilian non-institutionalized population age 16 and older that is unemployed (non-seasonally adjusted). This indicator is relevant because unemployment creates financial instability and barriers to access including insurance coverage and health services. The unemployment rate for New Madrid and Scott counties is lower than the state and national rate. However Mississippi County has a significantly higher unemployment rate than the state and nation.

<b>Geographic Area</b>	<b>Population over age 16</b>	<b>In Labor Force</b>	<b>Number Unemployed</b>	<b>Unemployment Rate</b>
Mississippi	11,384	6,456	867	13.4
New Madrid	14,835	8,415	595	7.1
Scott	30,439	19,284	1,485	7.7
Missouri	4,700,400	3,056,406	244,812	8.1
United States	241,302,749	156,456,694	13,488,016	8.7



Poverty Rate (<100 Percent FPL)

This indicator reports the percentage of the population living below 100 percent of the Federal Poverty Level (PFL). This indicator is relevant because poverty creates barriers to access including health services, healthy food and other necessities that contribute to poor health status. As shown in the table below New Madrid County and Scott County have higher percent of the population living in poverty than Missouri and the United States. Mississippi County has almost two times the number of residents living in poverty than in the nation.

<b>Geographic Area</b>	<b>Total Population (For Whom Poverty Status is Determined)</b>	<b>Total Population in Poverty</b>	<b>Percent Population in Poverty</b>
<b>Mississippi</b>	<b>13,566</b>	<b>3,485</b>	<b>25.8%</b>
<b>New Madrid</b>	<b>18,464</b>	<b>3,969</b>	<b>21.5%</b>
<b>Scott</b>	<b>38,720</b>	<b>6,651</b>	<b>17.2%</b>
<b>Missouri</b>	<b>5,777,117</b>	<b>828,165</b>	<b>14.3%</b>
<b>United States</b>	<b>296,141,152</b>	<b>40,917,512</b>	<b>13.8%</b>

Data Source: US. Census Bureau, 2006-2010 American Community Survey 5-year Estimates.

Poverty Rate Comparison by Race

It is important to note that over 40% of the African American population in the three county service area are living in poverty compared to 16% of the white population.

<b>Geographic Area</b>	<b>Percent White Population in Poverty</b>	<b>Percent African- American Population in Poverty</b>	<b>Percent Population in Poverty</b>
<b>Mississippi</b>	<b>20.4%</b>	<b>44.2%</b>	<b>25.8%</b>
<b>New Madrid</b>	<b>16.7%</b>	<b>43.8%</b>	<b>21.5%</b>
<b>Scott</b>	<b>14.4%</b>	<b>36.1%</b>	<b>17.2%</b>
<b>3 County Area</b>	<b>16.0%</b>	<b>40.6%</b>	<b>19.7%</b>
<b>Missouri</b>	<b>12.1%</b>	<b>27.7%</b>	<b>14.3%</b>
<b>United States</b>	<b>11.6%</b>	<b>25.8%</b>	<b>13.8%</b>

Data Source: US. Census Bureau, 2006-2010 American Community Survey 5-year Estimates.

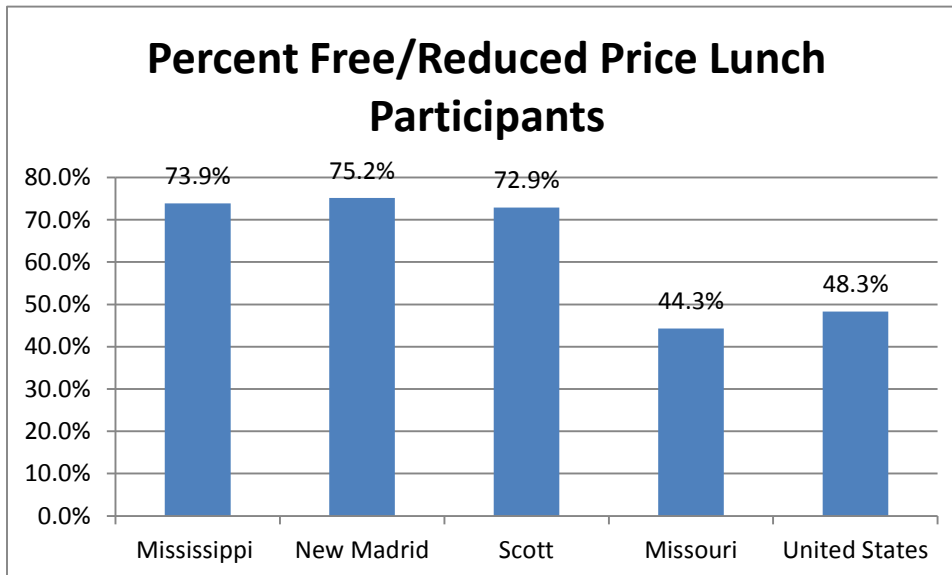
### Children in Poverty

The table below reports the percentage of children aged 0 to 17 living below 100 percent of the FPL. There is a higher rate of poverty for children living in the three county area compared to Missouri and the United States. Mississippi County is 16.3% higher than the rest of the state.

<b>Geographic Area</b>	<b>Total Population (For Whom Poverty is Determined)</b>	<b>Children In Poverty</b>	<b>Percent Children in Poverty</b>
<b>Mississippi</b>	<b>3,129</b>	<b>1,113</b>	<b>35.6%</b>
<b>New Madrid</b>	<b>4,464</b>	<b>1,345</b>	<b>30.1%</b>
<b>Scott</b>	<b>9,826</b>	<b>2,239</b>	<b>22.8%</b>
<b>Missouri</b>	<b>1,399,186</b>	<b>270,147</b>	<b>19.3%</b>
<b>United States</b>	<b>72,850,296</b>	<b>13,980,497</b>	<b>19.2%</b>

### Free and Reduced Price Lunch Eligibility

This indicator reports the percentage of public school students eligible for free or reduced price lunches. It is relevant because it assesses vulnerable populations which are more likely to have multiple health access, health status and social support needs. The percent of students in Mississippi County, New Madrid County and Scott County who participate in free or reduced price lunches is significantly higher than the state and federal benchmark.



Source: Missouri Hunger Atlas 2010

## Supplemental Nutrition Assistance Program (SNAP) Recipients

This indicator reports the average percentage of population receiving the Supplemental Nutrition Assistance Program (SNAP) benefits as determined by the Missouri Hunger Atlas for 2010. While the percent of households experiencing food uncertainty is close to the Missouri rate the number of residents receiving SNAP benefits is higher than the Missouri rate.

<b>Geographic Area</b>	<b>Percent of Households with Food Uncertain</b>	<b>Percent Total Population Income Eligible SNAP/Food Stamps</b>	<b>Percent of Total Population SNAP/Food Stamps Participants</b>
<b>Mississippi</b>	<b>17.5%</b>	<b>34.6%</b>	<b>28%</b>
<b>New Madrid</b>	<b>15.9%</b>	<b>29.5%</b>	<b>26.2%</b>
<b>Scott</b>	<b>16.3%</b>	<b>23.1%</b>	<b>20.3%</b>
<b>Missouri</b>	<b>15.8%</b>	<b>18.2%</b>	<b>12.8%</b>

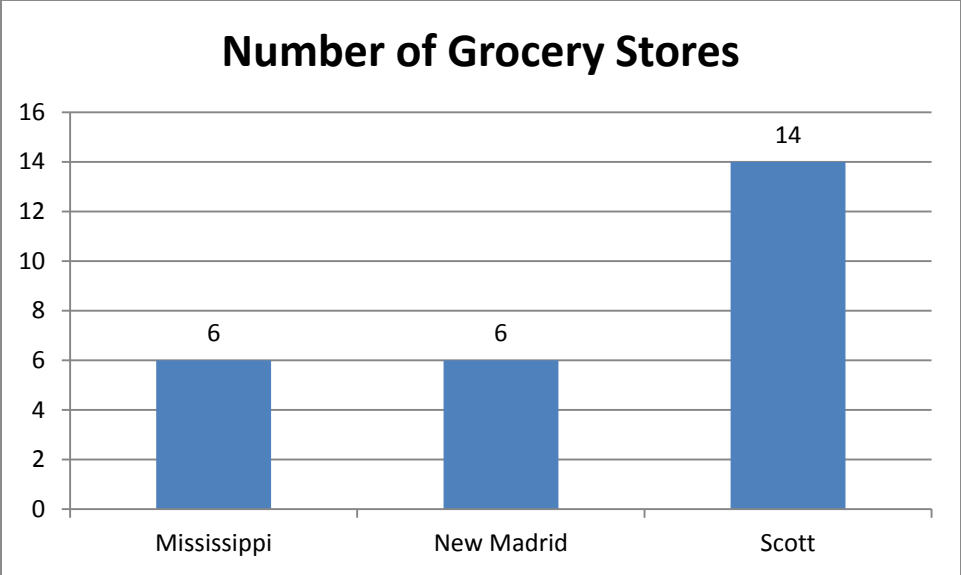
Data Source: Missouri Hunger Atlas 2010

## **Physical Environment**

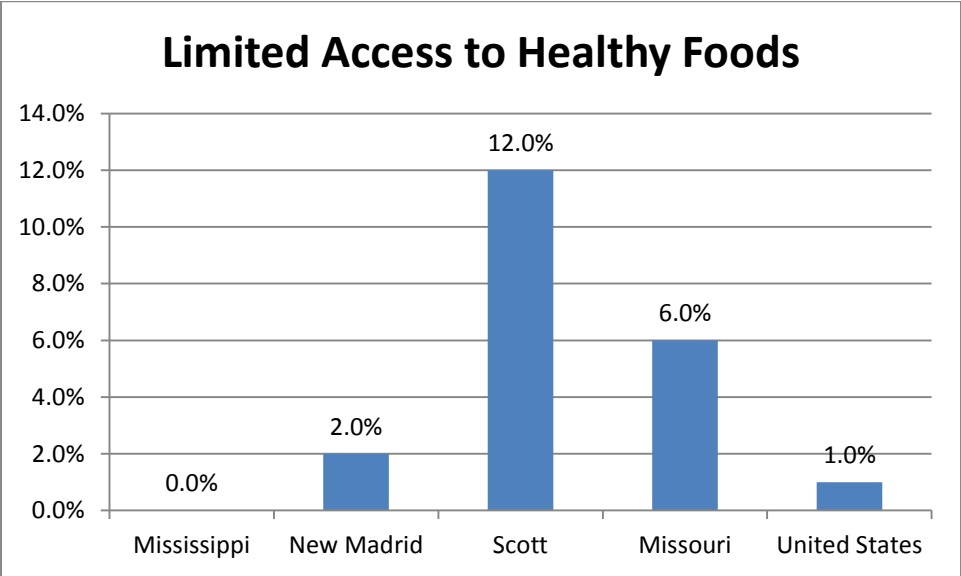
A community's health also is affected by the physical environment. A safe, clean environment that provides access to health food and recreation opportunities is important to maintaining and improving community health.

### Healthy Food Availability

Limited access to healthy foods is defined as the proportion of the population that is both living in poverty and do not live close to a grocery store. Living close to a grocery store is defined as less than 10 miles in non-metro counties. According to the Environmental Atlas, Mississippi County and New Madrid County have six grocery stores and Scott County has fourteen grocery stores. Grocery Stores are defined as supermarkets and smaller stores primarily engaged in retailing a general line of food, such as canned and froze foods, fresh fruits and vegetables and prepared meats, fish and poultry. Included are delicatessen-type establishments. Convenience stores, supercenters and warehouse club stores are excluded from this analysis. This indicator is relevant because it provides a measure of healthy food access and environmental influences on dietary behaviors.



According to the County Health Rankings developed by the Robert Wood Johnson Foundation and the University of Wisconsin Population Health Institute, Mississippi County has 0% of its residents with limited access to healthy foods, while New Madrid County has 2% and Scott County has 12%. Although Scott County has 14 grocery stores it has a higher percent of its residents with decreased access to healthy foods.



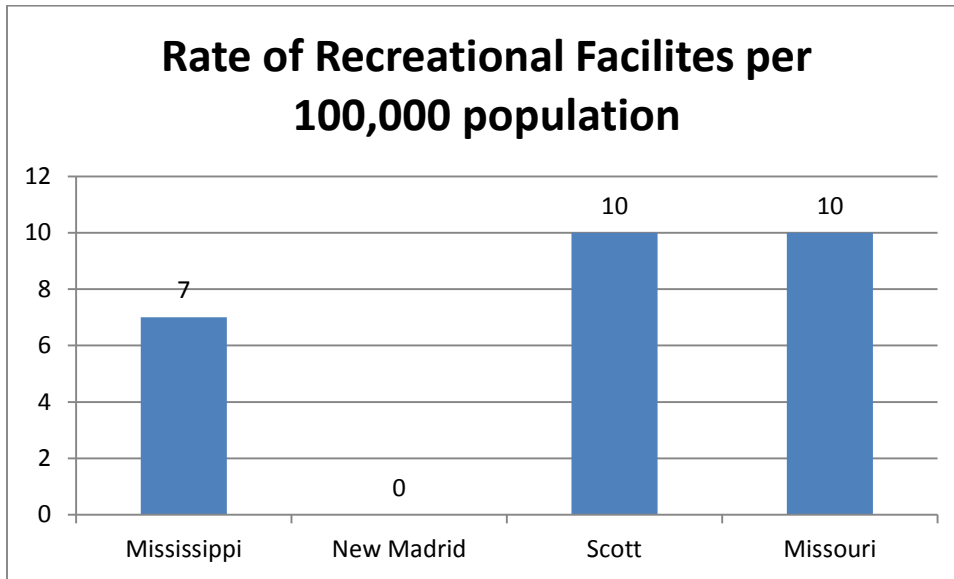
Data Source: Robert Wood Johnson, County Health Ratings and Roadmaps

Also, according to the County Health Rankings the three counties have the following percentage of fast food restaurants: Mississippi 44%, New Madrid 41% and Scott 33%.

### Access to Recreational Facilities

This measure represents the number of recreational facilities per 100,000 population in a given county. Recreational facilities are defined as establishments primarily engaged in operating fitness and recreational sports facilities, featuring exercise and other active physical fitness conditioning or recreational sports activities such as swimming, skating or racquet sports.

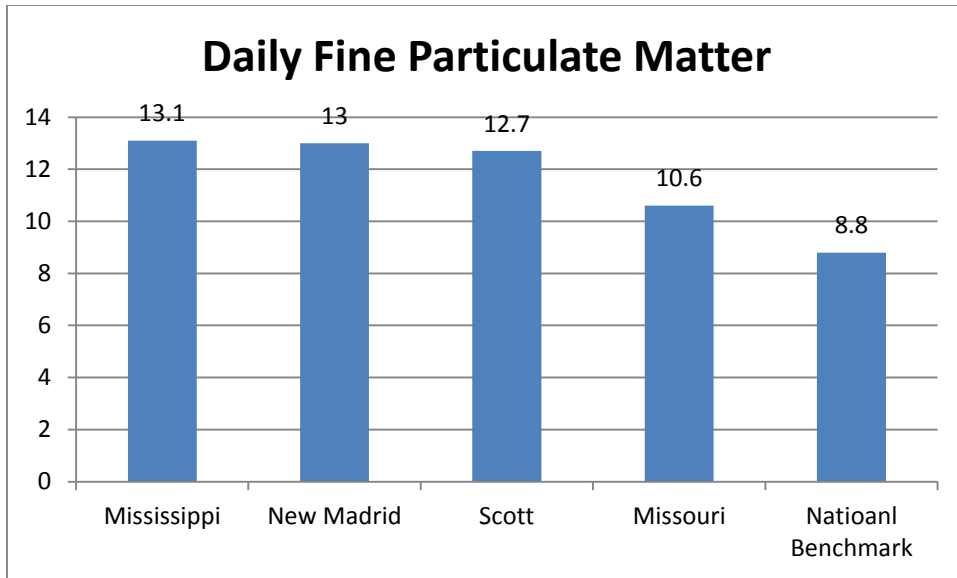
This indicator is relevant because access to recreation and fitness facilities encourages physical activity and other healthy behaviors.



### Air Quality

This measure represents the average daily amount of fine particulate matter in micrograms per cubic meter (PM<sub>2.5</sub>) in a county. Fine particulate matter is defined as particles of air pollutants with an aerodynamic diameter less than 2.5 micrometers. These particles can be directly emitted from sources such as forest fires, or they can form when gases emitted from power plants, industries and automobiles react in the air.

This indicator is relevant because poor air quality contributes to respiratory issues. The relationship between elevated air pollution, particularly fine particulate matter and ozone and compromised health has been well documented. Negative consequences of ambient air pollution include decreased lung function, chronic bronchitis, asthma and other adverse pulmonary effects. All three counties are higher than the national benchmark and higher than the overall state for daily fine particulate matter.

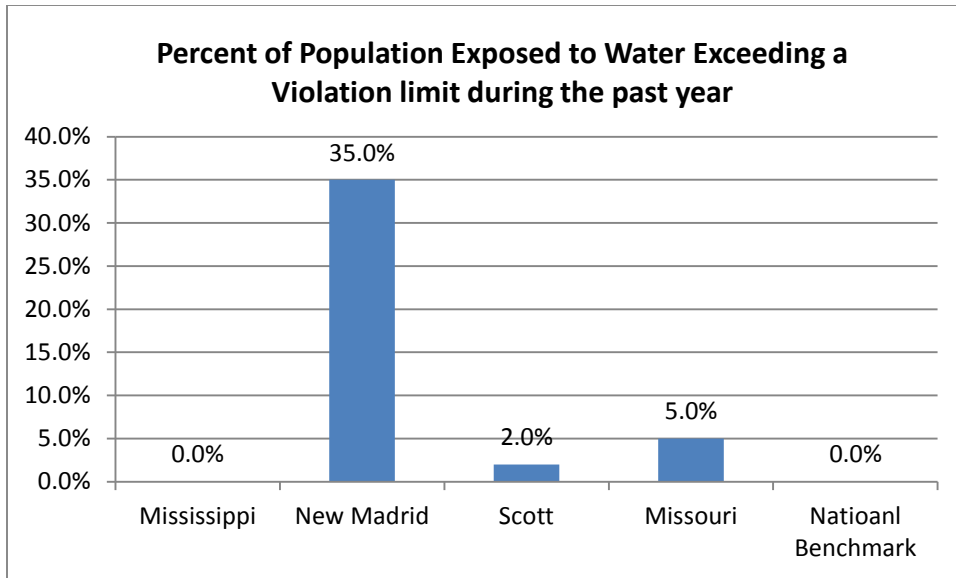


Data Source: Robert Wood Johnson, County Health Ratings and Roadmaps

### Water Quality

This measure represents the percentage of the population getting water from public water systems with at least one health-based violation during the reporting period. Health-based violations include Maximum Contaminant Level, Maximum Residual Disinfectant Level and Treatment Technique violations.

According to the Robert Wood Johnson County Health Rankings, recent studies estimate that contaminants in drinking water sicken 1.1 million people each year. Ensuring the safety of drinking water is important to prevent illness, birth defects, and death for those with compromised immune systems. A number of other health problems have been associated with contaminated water, including nausea, lung and skin irritation, cancer, kidney, liver and nervous system damage.



Data Source: Robert Wood Johnson, County Health Ratings and Roadmaps

## Health Risk Behaviors

Health behaviors such as poor diet, a lack of exercise and substance abuse contribute to poor health status.

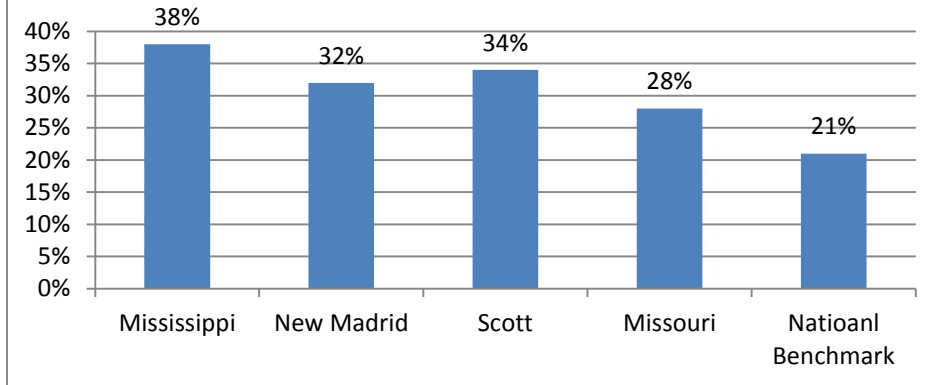
### Physical Inactivity

This indicator reports the percentage of adults aged 20 and older who self-reported no leisure time physical activity. This indicator is relevant because current behaviors are determinants of future health and this indicator may illustrate a cause of significant health issues, such as obesity and poor cardiovascular health. Decreased physical activity has been related to several disease conditions such as type 2 diabetes, cancer, stroke, hypertension, cardiovascular disease and premature mortality independent of obesity. In addition physical inactivity at the county level is related to health care expenditure for circulatory system diseases.

Mississippi County, New Madrid County and Scott County residents are more likely to be inactive compared to the state and national benchmarks.



## Percent of Adults Age 20 and Older Reporting No Leisure Time Physical Activity



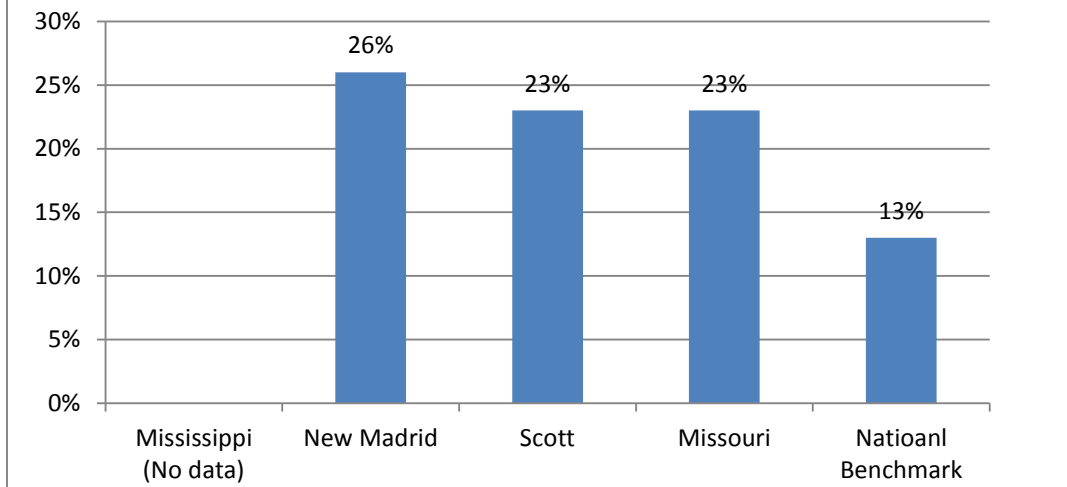
Data Source: Robert Wood Johnson, County Health Ratings and Roadmaps

### Cigarette Smoking

Adult smoking prevalence is the estimated percent of the adult population that currently smokes ever day or “most days” and has smoked at least 100 cigarettes in their lifetime.

This indicator is relevant because tobacco use is linked to leading causes of death such as cancer and cardiovascular disease. Scott County is no different than the state in comparison to percentage of adults smoking. New Madrid County is slightly higher than the state percentage. There is no data for this indicator for Mississippi County

## Percent of Adults that Reported Smoking > = 100 Cigarettes and Currently Smoking

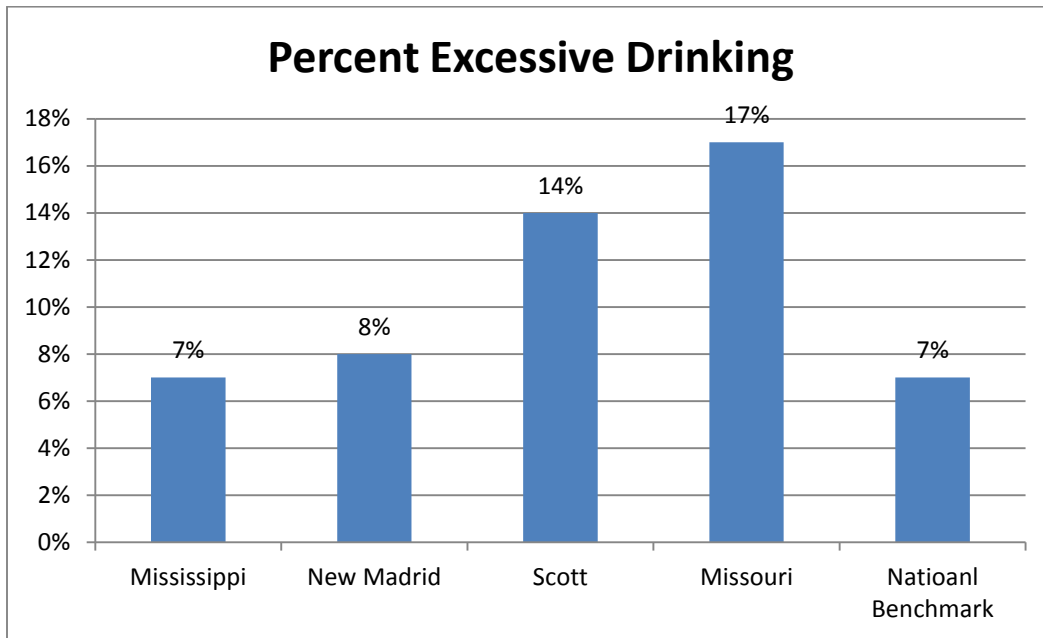


Data Source: Robert Wood Johnson, County Health Ratings and Roadmaps

## Heavy Alcohol Consumption

The table below shows the percentage of adults aged 18 and older who self-reported heavy alcohol consumption (defined as more than two drinks per day for men and one drink per day for women) or binge drinking (defined as consuming four drinks of women or five drinks for men on a single occasion). This indicator is relevant because excessive drinking is a risk factor for a number of adverse health outcomes such as alcohol poisoning, hypertension, acute myocardial infarction, sexually transmitted infections, unintended pregnancy, fetal alcohol syndrome, sudden infant death syndrome, suicide, interpersonal violence and motor vehicle crashes. Approximately 80,000 deaths are attributed annually to excessive drinking. Excessive drinking is the third leading lifestyle-related cause of death in the United States. (Robert Wood Johnson)

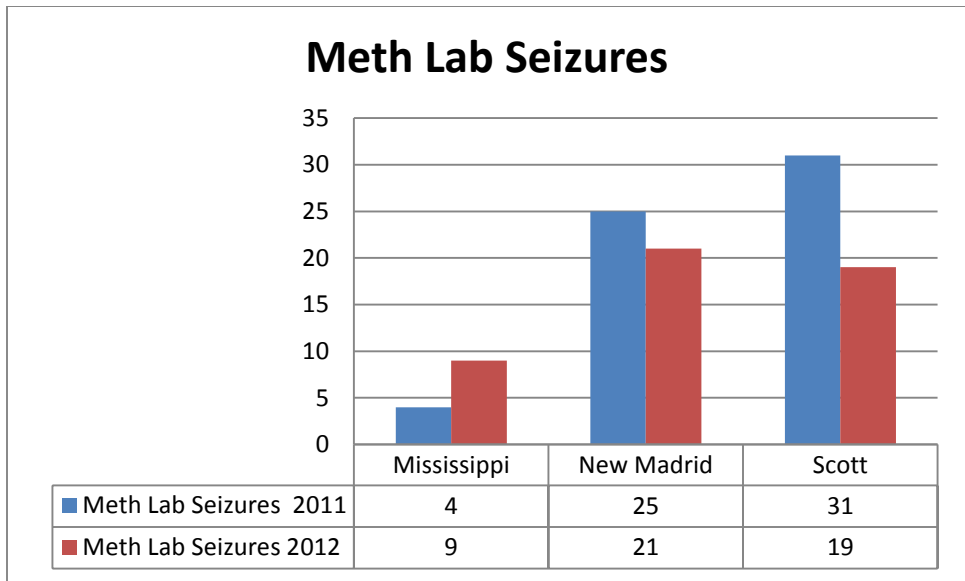
All three counties are lower than the state average for excessive drinking. Mississippi County meets the national benchmark.



Data Source: Robert Wood Johnson, County Health Ratings and Roadmaps

Substance Use and Abuse

Missouri has been the nation’s number one meth-producing state every year from 2003 to 2012 until falling behind Tennessee for one year. Missouri had the highest number of lab seizures in 2012 with 1,571. Experts blame the continued increase on the drug’s addictiveness and the growing popularity of the meth making shortcut known as “shake-and-bake,” in which the drug is concocted quickly in a soda bottle. The method results in smaller labs, but more of them. ([www.cbsnews.com/missouri-leads-spike](http://www.cbsnews.com/missouri-leads-spike))



The manufacture of Methamphetamine has been particularly problematic for rural Missouri. Specifically, labs tend to be clustered primarily in the counties surrounding St. Louis and secondarily in the southwest and southeast areas of the state.

Substance abuse can have an impact on public safety health care, crime and public assistance. Please see the table below for statistics related to substance abuse from Missouri Department of Health.

Substance Abuse Related Incidents	Mississippi	New Madrid	Scott
Alcohol Related Traffic Crashes	7	21	46
DWI Arrest	80	160	259
Liquor Law Violations	17	6	77
Drug Arrest	93	129	313
Alcohol Related Hospitalizations	60	78	184
Drug Related Hospitalizations	78	99	238
Alcohol Related ER Visits	50	71	186
Drug Related ER Visits	67	67	151
Admitted to substance Abuse Treatment at publicly-funded facilities	173	215	441

## Clinical Care

A lack of access to care presents barrier to good health. The supply and accessibility of facilities and physicians, the rate of uninsured, financial hardship, transportation barriers, cultural competency and coverage limitations affect access.

### Access to Healthcare

As indicated earlier, nineteen percent of Mississippi County residents, sixteen percent of New Madrid County residents and sixteen percent of Scott County residents do not have health insurance. The percent of adults without health insurance in all three counties has increased over the last five years.

Year	Percent Uninsured Mississippi County	Percent Uninsured New Madrid County	Percent Uninsured Scott County	Percent Uninsured Missouri	Percent Uninsured United States
2011	19.4%	16.7%	16.0%	16.0%	17.3%
2010	17.9%	16.2%	15.5%	15.3%	17.9%
2009	19.4%	16.8%	16.7%	15.2%	17.0%
2008	18.5%	15.9%	16.1%	14.3%	17.1%
2007	14.4%	13.0%	13.0%	14.2%	16.6%

Data Source: U.S. Census Bureau and the Centers for Disease Control Prevention

### Federally Qualified Health Centers

The table below shows the number of Federally Qualified Health Centers (FQHCs) in the community per 100,000 population. This indicator is relevant because FQHCs are community assets that provide healthcare to vulnerable populations; they receive extra funding from the federal government to promote access to ambulatory care in areas designated as medically underserved. Mississippi County does not have a FQHC. Scott County's FQHC per 100,000 population is at the state benchmark. New Madrid County is has a very high rate at 32.26 per 100,000 population.

Geographic Area	Total Population 2010 Census	Number of FQHCs	Established Rate (Per 100,000 pop)
Mississippi	14,358	0	0
New Madrid	18,596	6	32.26
Scott	39,191	1	2.55
Missouri	5,680,439	144	2.53
United States	299,481,280	5459	1.82

Data Source: U.S. Health Resources and Services Administration, Centers for Medicare and Medicaid services, Provider of Service File 2011.

### Health Professional Shortage (HPSA)

The Health Professional Shortage Area (HPSA) is defined as geographic area having a shortage of primary medical care, dental or mental health professionals. This indicator is relevant because a shortage of health professionals contributes to access and health status issues.

The HPSA scores are developed for use by the National Health Service Corps (NHSC) in determining priorities for assignment of clinicians. This attribute is the HPSA Score as identified in Application and Submission Process System (ASAPS). The scores range from 1 to 26 where the higher the score the greater the priority.

The table below shows the HPSA Scores for the three counties in each of the three professional categories. All three counties are between 18 and 20 in each category except for the dental score in New Madrid County which received a score of 25.

<b>Geographic Area</b>	<b>HPSA Score Primary Care</b>	<b>HPSA Score Dental</b>	<b>HPSA Score Mental Health</b>
<b>Mississippi</b>	<b>20</b>	<b>19</b>	<b>18</b>
<b>New Madrid</b>	<b>18</b>	<b>25</b>	<b>18</b>
<b>Scott</b>	<b>18</b>	<b>17</b>	<b>18</b>

Data Source: U.S. Health Resources and Services Administration, Centers for Medicare and Medicaid services, Provider of Service File 2011.

### Access to Primary Care

The table below shows the population per physician. Primary care physicians include practicing physicians under age 75 specializing in general medicine, family practice medicine, internal medicine and pediatrics. This indicator is relevant because access to regular primary care is important to preventing major health issues and emergency department visits. Mississippi County and New Madrid County have a higher ratio of patient to PCP than the state and national benchmark, while Scott County is closer to the benchmarks.

<b>Geographic Area</b>	<b>Number of Primary Care Physicians</b>	<b>Ratio of Population to Primary Care Physicians</b>
<b>Mississippi</b>	<b>4</b>	<b>3,595:1</b>
<b>New Madrid</b>	<b>4</b>	<b>4,733:1</b>
<b>Scott</b>	<b>21</b>	<b>1,868:1</b>
<b>Missouri</b>		<b>1,495:1</b>
<b>United States</b>		<b>1,067:1</b>

## Oral Health

The table below shows the population per dentist in the three county areas as benchmarked against the state and nation. This indicator is relevant because untreated dental disease can lead to serious health effects including pain, infection, and tooth loss. Although lack of sufficient providers is only one barrier to accessing oral health care, much of the country suffers from shortages. According to the Health Resources and Services Administration, as of December 2012, there were 4,585 Dental Health Professional Shortage Areas (HPSAs) with 45 million people living in them.

As you can see by the data below all three counties have a shortage of dentist with Mississippi County having the greatest shortage.

<b>Geographic Area</b>	<b>Number of Dentist</b>	<b>Ratio of Population to Dentist</b>
<b>Mississippi</b>	<b>2</b>	<b>8130:1</b>
<b>New Madrid</b>	<b>4</b>	<b>4816:1</b>
<b>Scott</b>	<b>19</b>	<b>2094:1</b>
<b>Missouri</b>		<b>2168:1</b>
<b>National Benchmark</b>		<b>1516:1</b>

## **Preventative Practices**

Rates of morbidity, mortality and emergency hospitalizations can be reduced if community residents access services such as health screenings, routine tests and vaccinations. The practices below are relevant because engaging in preventive behaviors allows for early detection and treatment of health problems. Prevention indicators can call attention to a lack of access or knowledge regarding one or more health issues and can form program interventions.

## **Health Outcomes**

Measuring morbidity and mortality rates allow assessing linkages between social determinants of health outcomes. By comparing the prevalence of certain chronic diseases to indications in other categories (e.g., poor diet and exercise) with outcomes (e.g., high rates of obesity and diabetes), various casual relationships may emerge, allowing a better understanding of how certain community health needs may be addressed.

## Poor General Health

The table below shows the percentage of adults age 18 and older who self-reported having poor or fair health. The indicator is a measure of a generally poor health status. A higher percentage of residents in New Madrid County and Scott County reported poor or fair health compared to state and national benchmarks. Data was not available for Mississippi County.

Geographic Area	Total Population (Age 18+)	Number Reporting Poor or Fair General Health	Percent Reporting Poor or Fair General Health
Mississippi	11,015	No data	No data
New Madrid	14,308	3,720	26%
Scott	29,301	7,032	24%
Missouri	4,472,226	715,556	16%
United States	227,267,677	35,219,128	16%

## Primary Research

### Focus Groups

#### Methodology

A focus group for Scott County was held at Missouri Delta Medical Center in Sikeston, Missouri. Twenty-one participants were present from various organizations throughout Scott County.

The focus group process began with the Missouri Delta CHNA Team compiling a list of potential participants and then inviting those participants to the focus group via email, letter, phone call, or in person. The event took approximately an hour and a half and was held over lunch. Members of the Saint Francis Medical Center’s Community Health Needs Assessment Team along with members of the MDMC CHNA Team hosted the event, with one member serving as moderator, another member as co-moderator taking notes on a flip chart to make references for the group, and another member as the primary note-taker/recorder of the entire event.

Materials were provided to the group included a participant information form, a checklist exercise, and a list of questions asked. The participant information form asked for each participants name, company/organization, job title, credentials, education, affiliations, experience, and what makes them an expert – not all forms were filled out completely, but some of the information collected can be found in the Appendix. The checklist exercise asked the participants to choose their top five concerns from a list the Community Health Needs Assessment Team created; the results of that exercise are provided in the Checklist Exercise section following the question summaries ahead.

The questions asked by the moderator are listed below. Prompts were also used to get more detailed answers from the group and to help the group along if they were not providing much information. The moderator did his/her best to ask all questions and stay on track with the topics, but in some cases the group wandered off track and not all questions were answered completely.



1. What do people in this community do to stay healthy? How do people get information about health?
2. In this group's opinion, what are the serious health problems in your community? What are some of the causes of these problems?
3. What keeps people in your community from being healthy?
4. What could be done to solve these problems?
5. Is there any group not receiving enough care? If so, why?
6. Of all the issues we have talked about today, what issues do you think are the most important for your community to address?

Each question is broken out into the following individual sections and includes a summary of each particular question.

### **Question 1 – What do people in this community do to stay healthy?**

#### Scott County Group

The YMCA is a fitness facility that is extensively used in Scott County. It offers childcare for members, along with after-school programs and health information being available to children. Memberships are also made available to basically anyone who wants to be a member. The YMCA in Scott County offers regular memberships along with subsidized memberships. A representative of the YMCA stated that 2016 Community Health Needs Assessment 53 | Page almost anyone in the community can be a member of the YMCA, unless they do not have the desire to be. People also walk and bike within the community. The Complex and the high school both have tracks that can be used. In addition, the golf course has a color-coded walking route map that can be used by anyone in the public. There is also a walking club named the Trailblazers in Scott County that runs from March to October. This club was founded from a Missouri Foundation for Health grant which was used to pave and extend the Complex walking trail and start the club. Screenings were also mentioned as something the community does to stay healthy. The Scott County Public Health Department offers reduced-cost screenings. Other screenings are offered through Bootheel Counseling's community-based staff and SEMO Health Network. In addition, many churches and other public organization's host screenings while partnering with Missouri Delta Medical Center. Home-based care is also available throughout the community for re-admission prevention. Missouri Delta Medical Center has a medical home with 500 lives; Bootheel Counseling has 600 adult lives and 150 children lives.

#### New Madrid County Group

Walking trails throughout the county, exercise gyms at New Madrid community center and SEMO health Network; (all free); there is a privately owned gym in town; youth sports leagues throughout the county.

#### Mississippi County Group

The group agreed that walking is the main activity residents do to stay healthy. There are several places they can walk; The Bowden Center has a track, the Dogwood Azalea "route" in town, if weather is not good, residents walk in Boomland since its enclosed and covers a large area.

Restart Rehabilitation Center offers Arthritis Classes several days a week and also has fitness membership availability to use exercise equipment (treadmills, bikes, weight lifting equipment). Mississippi County offers many youth programs through the different cities, ie: baseball, basketball and Susanna Wesley offers youth sports programs which also provide after school food and tutoring programs. Susanna Wesley also offers exercise classes to adults, ie: Zumba and yoga.

**Question 2 – In this group’s opinion, what are the serious health problems in your community?**

**Scott County Group**

Participants made a list of some of the serious health issues that could then be used to lengthen future discussion. This list included:

1. Mental Health
2. High Blood Pressure and Hypertension
3. Diabetes
4. Heart Disease
5. Coronary Obstructive Pulmonary Disease
6. Cancer (Breast Cancer, Colon Cancer, Liver Cancer and Lung Cancer)
7. Asthma

**New Madrid County Group**

Each participant was asked to pick 5 issues from a list which, in their opinion, are the most serious in New Madrid County. The breakdown ended up as:

1. Alcohol & Drug Abuse
2. Smoking/Smokeless Tobacco
3. Health Care Affordability
4. Mental Illness
5. Overweight Adults
6. Transportation
7. Overweight Children

**Mississippi County Group**

Each participant was asked to pick 5 issues from a list which, in their opinion, are the most serious in Mississippi County. The breakdown ended up as:

1. Alcohol & Drug Abuse
2. Health Care Affordability
3. Mental Illness
4. Overweight Adults
5. Overweight Children
6. Smoking/Smokeless Tobacco

### **Question 3 – How do you address these health problems?**

#### **Scott County**

Focus group participants immediately emphasized that the largest struggle is “getting people to want to do it.” People are scared and uncomfortable with healthcare and do not want to put themselves into that type of uneasy situation. Education was mentioned as a way to address this along with the serious health issues. By educating people, it will give people more comfort within healthcare along with motivating them to be more compliant. While education was mentioned as way to address serious health issues, transportation was mentioned as a barrier to addressing these problems. Most people do not realize that they are able to use the Scott County Transit System. Therefore, many people call cabs which can in turn be very expensive. There is Medicaid transportation. However, it is a time constraint and provides no real regulations that people are aware of regarding the days and times of operation due to a lack of communication. Bootheel Regional Consortium provides perinatal visit transportation. While discussing this service, the focus group participant mentioned that the community’s priorities shift from day-to-day causing many cancellations which affect long-term services of the transportation system. The issues that Bootheel Regional Consortium faces with its transportation service are most likely faced by the Scott County Transit System

#### **New Madrid County**

**DRUGS AND ALCOHOL ABUSE** – According to the group, there are no current drug and alcohol educational programs in the county. The consensus with the group is that mental health issues are the underlying cause of the drug and alcohol abuse.

**MENTAL ILLNESS** – New Madrid has seen a huge increase in the number of suicides since December of last year. The Public Administrator talked about how difficult it is to get a court order for an individual who needs help (the person has to actually threaten to harm themselves or others before a court order can be obtained). New Madrid County has a grant which provides a mental health counselor to residents, but the grant ends in December 2016. Missouri Delta Medical Center recently began providing counseling at the New Madrid location

**TRANSPORTATION** – New Madrid has a transit system but it does not go outside the city limits. The New Madrid Community Center has started a bicycle program where residents can “check out” bicycles and ride them to appointments, to get groceries, etc.

**HEALTH CARE AVAILABILITY** – The group had the perception that availability was a problem (particularly pediatrics). After discussion it was evident that the group had no idea what services Missouri Delta Medical Center offered in New Madrid County. (Sharon will be setting up meetings with these entities to make them more aware of all of the services and providers that Missouri Delta Medical Center has in their areas, such as specialists in our New Madrid satellite clinic – OB/GYN, Endocrinology, Surgery and that Karen Tracy, Elena Lopez and Amy Stinnett all see pediatric patients).

OBESITY ADULTS/CHILDREN = DIABETES – The group discussed how it seems more and more adults and kids in their county are overweight. New Madrid County Health Department offers a chronic disease workshop and holds classes throughout New Madrid County. The Hayti school district has started a community garden through a grant program that allows the students to take fresh produce home and also offers classes to families on how to prepare the fresh foods. There are several food banks and food pantries in the smaller areas, in addition to meals on wheels, but the southern portion of the county does not have access to a grocery store with affordable, fresh food.

#### Mississippi County Group

OBESITY IN CHILDREN/ADULTS/DIABETES – The group said that approximately 99% of the patients that are diabetic are Type 2 diabetics and the biggest concern is noncompliance. There are numerous educational programs offered in Mississippi County relating to Diabetes: L&S holds diabetes support group meetings; teaching calorie and carb counting, reading food labels, etc. The Mississippi County Health Department holds Chronic Disease Workshops which includes education on diabetes and healthy living. In September the Health Department is implementing a new self-help program for diabetics.

SMOKING/Smokeless Tobacco – Although there are several programs available regarding smoking cessation and despite insurances increasing coverage on smoking cessation aids, the group feels smoking is still an issue in Mississippi County. The county has partnered with the American Lung Association targeting smoking in pregnant women (7 week class and incentives for attending). The county also has a program called Wise Women for women over 35 years; there are income guidelines with the program though. Smoking and the associated risk factors make up a majority of the class education.

MENTAL ILLNESS – The group consensus was that mental illness is an issue which also contributes to drug and alcohol abuse. Susanna Wesley offers counseling free of charge to women and children victims of domestic and sexual violence through a grant with the Missouri Foundation for Health. The Mississippi County Health Department has had a grant for the last year that enabled them to add a counselor but this grant ends in December 2016. Missouri Delta Medical Center has added Mental Health Counselors to the health care team in the Charleston satellite location and are very busy.

DRUG & ALCOHOL ABUSE– EMS explained that heroin has become a bigger issue, with less meth, cocaine, and prescription drug use than in the past few years. The group also believes the drug problem is related to the mental health problem. Regarding prescription drug abuse, the group would like to see the Pharmacy tracking system passed in the state of Missouri.

*NOTE: An additional problem identified by the group was a “lack of understanding” regarding prescription home meds and medications when discharged from a hospital. L&S Pharmacy mentioned a medication reconciliation program in which the Pharmacist visits the patient’s home and compares home meds with discharge meds to ensure no discrepancies. All too often patients are unsure of which pre-hospitalization meds to continue.*

**Question 4 – What are some of the issues faced with access to healthcare? How can we help it?**

Scott County Group

Mental health was an issue that was discussed for a majority of the focus group because there is a huge lack of services available and a low amount of funding for mental health. Medicaid provides a low reimbursement and when people do not have insurance, they do not want to receive mental care because they prioritize physical health first and cannot afford both. Due in part to the lack of funding, mental health services also suffer. First off, there is a shortage of mental health acute care beds and there is a need for psychiatrists making one of the focus group participants question whether the state is providing enough resources for mental health needs. In attempt to help the mental health issue, Missouri Delta Medical Center is doubling its occupancy for senior living in 2016 and trying to work together with Bootheel Counseling in order to help. There has also been an attempt to add social workers to clinics. However, this type of one-on-one patient interaction is hard to coordinate with other services. Conversations lead to how hard it is to hire and keep mental health workers in Scott County. Challenges to hiring in the area include being able to provide competitive salaries and the ability to match the health need with the level of skill and pay source. It is hard to keep a new employee in the area. Another related issue conferred was autism. There have been more cases in Scott County and resources available are slim. A prime example of their struggle to keep employees in Scott County was a case where a recent doctor had to leave because he could not get resources that he, himself, needed.

New Madrid Group

Education provided directly to entities that are dealing with the residents on what health providers/specialists are available in New Madrid County. It was suggested that Missouri Delta Medical Center open an inpatient adult psych unit.

Mississippi County Group

Community gardens were discussed, but even then the accessibility to fresh food would be seasonal. It was also discussed to have the grocery stores display nutritional information on all foods (with help of medical professionals. Maybe a volunteer or student project?)

**Question 5 – Is there any group not receiving enough health care? If so, why?**

Scott County Group

The issues stated as being the most important to address during the focus group included mental health, obesity as it ties to many other chronic diseases, coronary obstructive pulmonary disease and creating a smoke-free environment. Scott County has one of the lowest taxes on cigarettes and tobacco in the country, which may be a reason for the high rate of smoking.

A few groups/areas mentioned by the participants of the focus groups as not receiving enough health care included the following:

New Madrid County Group

The group felt that the employed residents that still have unmet needs are the ones not seeking care for mental illness. The suicides lately have been those from that category. The thought was the shut-down of the largest employer in New Madrid County and many people lost their jobs

and are either not working or worker for a much smaller wage than what they were accustomed to.

Mississippi County Group

No particular group was identified.

**Checklist Exercise**

The table below summarizes the Checklist Exercise that was handed out in the focus group held in Scott County. The concerns are ranked from the highest concern to the lowest. Alcohol/Drug Use was most commonly chosen as the greatest concern, followed by Health Care Affordability. Mental Illness and Overweight Children tied as the third most commonly chosen concern. Overweight Adults rounded up the top five concerns.

Concerns- Scott County Results	Total
Overweight Adults	6
Mental Illness	5
Transportation	5
Cancer	5
Alcohol/Drug Abuse	4
Overweight Children	2
Smoking/Smokeless Tobacco	1
Healthcare Affordability	1

Concerns- New Madrid County Results	Total
Alcohol/Drug Abuse	8
Healthcare Affordability	5
Mental Illness	5
Overweight Adults	5
Smoking/Smokeless Tobacco	5
Transportation	5
Overweight Children	4

Concerns- Mississippi County Results	Total
Mental Illness	6
Overweight Adults	6
Smoking/Smokeless Tobacco	6
Overweight Children	5

<b>Alcohol/Drug Abuse</b>	<b>4</b>
<b>Healthcare Affordability</b>	<b>3</b>
<b>Transportation</b>	<b>3</b>

## **Scott County Surveys**

### Survey Layout and Design

The Community Health Needs Assessment Survey was a questionnaire-style, self-administered survey, available only to voluntary participants at certain locations. Survey Monkey was used to administer the surveys. However, most participants chose to take the survey on paper.

The survey was designed to collect data on health beliefs, health behaviors, access to and utilization of healthcare services and concerns about community health issues. The survey consists of four different sections:

1. Demographics
2. Social and Economic Factors
3. Health Behaviors
4. Medical Care and Services

### Methodology

A total of 32 surveys were completed by Scott County residents, with a few surveys having some unanswered questions. Survey Monkey analysis takes into consideration the number of actual responses for each question. The survey sample was not a random sample, but more of a targeted sample to ensure that certain populations were surveyed. Also, some of the questions asked in the survey had an option of choosing multiple answers, which means that not all of the questions have answers that are mutually exclusive, so some of the total percentages will not add up to 100 percent.

The process for conducting these surveys involved traveling to the county's healthcare facilities and community businesses and asking participants face-to-face to complete the survey or allowing the facility to hand out surveys on their own basis.

### Participants Key Characteristics

- 84.4% are female, 15.6% are male
- 68.8% are married • 68.8% are white/Caucasian
- 50% have 3 to 5 people living in their household
- 34.4% have a high school diploma, but no secondary degree
- 43.7% have a two-year or four-year college degree
- 58.1% are employed fulltime
- 67.7% have an annual income greater than \$25,000

### Demographics

The tables below show certain demographic characteristics of the survey participants in Scott County, including the survey respondents' gender, marital status, age, education level, race/ethnicity, employment status and lifestyle health factors.

<b>What is your 5 digit ZIP code?</b>	
<b>Answer Options</b>	<b>Response Count</b>
	<b>32</b>
answered question	32
skipped question	0

<b>Gender?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
<b>Male</b>	<b>15.6%</b>	<b>5</b>
<b>Female</b>	<b>84.4%</b>	<b>27</b>
answered question		32
skipped question		0

<b>Marital Status?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
<b>Single/Not Married</b>	<b>21.9%</b>	<b>7</b>
<b>Married</b>	<b>68.8%</b>	<b>22</b>
<b>Divorced</b>	<b>9.4%</b>	<b>3</b>
<b>Widowed</b>	<b>0%</b>	<b>0</b>
<b>Living with Partner</b>	<b>0%</b>	<b>0</b>
<b>Other</b>	<b>0%</b>	<b>0</b>
answered question		32
skipped question		0

<b>What is your race/ethnicity?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
<b>Asian or Pacific Islander</b>	<b>0.0%</b>	<b>0</b>
<b>Black or African-American</b>	<b>31.3%</b>	<b>10</b>
<b>Hispanic or Latina</b>	<b>0.0%</b>	<b>0</b>
<b>Native American</b>	<b>0%</b>	<b>0</b>
<b>White or Caucasian</b>	<b>68.8%</b>	<b>22</b>
<b>Other</b>	<b>0.0%</b>	<b>0</b>



answered question		32
skipped question		0
<b>What is the race/ethnicity of any children currently living in your home?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
Asian or Pacific Islander	0.0%	0
Black or African-American	21.9%	7
Hispanic or Latina	0.0%	0
Native American	0%	0
White or Caucasian	50.0%	16
Other	0.0%	0
I have no children living in my home currently	28.1%	9
answered question		32
skipped question		0

<b>How many people currently live in your household?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
1-2	37.5%	12
3-5	50.0%	16
6 or more	12.5%	4
answered question		32
skipped question		0

<b>How many adults age 65 or older currently live in your household?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
0	71.0%	22
1-2	29.0%	9
3-5	0.00%	0
6 or more	0.00%	0
answered question		31
skipped question		1

<b>How many children under 18 years of age currently live in your household?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
0-1	62.5%	20
2-3	28.1%	9
3-5	9.4%	3
6 or more	0.00%	0
answered question		32

skipped question	0
------------------	---

<b>Select all of the following that describe your home or household:</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
More than one working smoke detector	65.6%	21
Carbon monoxide detector	31.3%	10
Food is put back into the refrigerator within two hours after a meal	75.0%	24
Septic Tank	28.1%	9
Pets (dog, cat, reptiles, etc.)	53.1%	17
Family fire safety plan/evacuation plan	31.3%	10
Children know how to dial 911 in case of emergency	37.5%	12
Children know their phone number and address	28.1%	9
Have one or more types of aerobic (cardiovascular) exercise equipment	28.1%	9
Internet access	93.8%	30
Provide care for an older adult	15.6%	5
Children under 13 are supervised in non-school hours	21.9%	7
answered question		32
skipped question		0

#### Social and Economic Factors

The following tables show certain social and economic factors in Scott County, including the survey respondents' education level, employment status and annual household income.

<b>What is your highest level of education?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
Never graduated high school	3.1%	1
High school diploma	34.40%	11
GED	6.3%	2
Currently attending or have some college	12.5%	4
Two-year college degree	15.60%	5
Four-year college degree	28.1%	9
Graduate-level degree or higher	0%	0
answered question		32
skipped question		0

<b>What is your employment status? (check all that apply)</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
Employed fulltime	25.1%	18
Employed part time	22.6%	7
Fulltime student	6.5%	2

<b>Part time student</b>	<b>0%</b>	<b>1</b>
<b>Full-time homemaker</b>	<b>3.2%</b>	<b>1</b>
<b>Retired</b>	<b>12.9</b>	<b>4</b>
<b>Unemployed more than one year</b>	<b>6.5%</b>	<b>2</b>
<b>Unemployed due to disability or illness</b>	<b>0%</b>	<b>0</b>
answered question		31
skipped question		1

<b>What is your annual household income?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
<b>Less than \$5,000</b>	<b>9.7%</b>	<b>3</b>
<b>\$5,000-\$14,999</b>	<b>12.9%</b>	<b>4</b>
<b>\$15,000-\$24,999</b>	<b>9.7%</b>	<b>3</b>
<b>\$25,000-\$49,999</b>	<b>29%</b>	<b>9</b>
<b>\$50,000--\$74,999</b>	<b>9.7%</b>	<b>3</b>
<b>\$75,000-\$99,999</b>	<b>16.1%</b>	<b>5</b>
<b>\$100,000 or higher</b>	<b>12.9%</b>	<b>4</b>
<b>Does not apply</b>	<b>0</b>	<b>0</b>
answered question		31
skipped question		1

<b>What sources do you use to obtain most of your health-related information? (check all that apply)</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
<b>Family</b>	<b>19.4%</b>	<b>6</b>
<b>Friends</b>	<b>29%</b>	<b>9</b>
<b>Doctor/nurse/Pharmacist</b>	<b>96.8%</b>	<b>30</b>
<b>Newspaper/Magazines/Television</b>	<b>3.2%</b>	<b>1</b>
<b>Health Department</b>	<b>35.5%</b>	<b>11</b>
<b>Church</b>	<b>3.2%</b>	<b>1</b>
<b>School</b>	<b>3.2%</b>	<b>1</b>
<b>Internet</b>	<b>35.5%</b>	<b>11</b>
<b>Other</b>	<b>3.2%</b>	<b>1</b>
answered question		31
skipped question		1

#### Health Behaviors

The next tables show information regarding the health behaviors of adults and their children in Scott County.

In the following section, respond with how often YOU do the following: *(N/A = does not apply to you)				
Answer Options	Almost Always	Sometimes	Never	Response Count
Exercise at a moderate pace at least 30 minutes per day, 5 days per week	7	17	8	32
Consume more than 3 alcoholic beverages per day (female) or more than 5 per day (male)	0	8	24	32
Smoke cigarettes	4	4	24	32
Are exposed to secondhand smoke at home or at the workplace	6	5	21	32
Chew tobacco	0	1	31	32
Use illegal drugs (marijuana, cocaine, methamphetamine, etc.)	1	0	31	32
Get a flu shot each year	20	5	8	32
Practice safe sex (use of condom or other barrier method)	9	4	17	30
Get enough sleep every night (7-9 hours)	8	22	2	32
answered question				32
skipped question				0

In the following section, how often do any children CURRENTLY living in your home do the following: *(N/A = does not apply to them)					
Answer Options	Almost Always	Sometimes	Never	N/A*	Response Count
Participate in at least 1 hour of physical activity every day	10	3	4	15	32
Are exposed to secondhand smoke in the home	2	5	10	15	32
Get a flu shot each year	8	7	3	14	32
Practice safe sex (use of condom or other barrier method)	3	1	4	24	32
Get enough sleep every night (7-9 hours)	10	7	1	14	32
answered question					32
skipped question					0

Medical Care and Services

The next tables show information regarding the medical care and services received in Scott County, including the survey respondents' insurance type, insurance coverage, doctor's visits, access to care and health problems within the community.

<b>What kinds of insurance do you (and/or your family) have currently?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
<b>Health</b>	<b>90.3%</b>	<b>28</b>
<b>Dental</b>	<b>54.8%</b>	<b>17</b>
<b>Vision</b>	<b>45.2%</b>	<b>14</b>
<b>Do not have insurance</b>	<b>9.7%</b>	<b>3</b>
answered question		32
skipped question		0

<b>What type of health insurance do you (and/or your family) have currently?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
<b>Self-insured</b>	<b>3.2%</b>	<b>1</b>
<b>Employer-provided</b>	<b>61.3%</b>	<b>19</b>
<b>Medicare</b>	<b>9.7%</b>	<b>3</b>
<b>Medicaid or MC+</b>	<b>16.1%</b>	<b>0</b>
<b>VA/CHAMPUS</b>	<b>0%</b>	<b>0</b>
<b>Do not know</b>	<b>0%</b>	<b>1</b>
<b>Do not have health insurance</b>	<b>6.5%</b>	<b>2</b>
answered question		32
skipped question		0

<b>If anyone living in your household does not have insurance, who is NOT currently covered?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
<b>Entire family</b>	<b>3.3</b>	<b>1</b>
<b>At least one adult</b>	<b>10</b>	<b>3</b>
<b>All adults</b>	<b>0.0%</b>	<b>0</b>
<b>Child(ren) age 6 or older</b>	<b>0%</b>	<b>0</b>
<b>Child(ren) under age 6</b>	<b>0%</b>	<b>0</b>
<b>Does not apply</b>	<b>86.7%</b>	<b>26</b>
answered question		30
skipped question		2

<b>What is your current health status?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
<b>Poor</b>	<b>0%</b>	<b>0</b>
<b>Fair</b>	<b>12.9%</b>	<b>4</b>
<b>Good</b>	<b>58.1%</b>	<b>18</b>
<b>Very Good</b>	<b>12.9%</b>	<b>4</b>
<b>Excellent</b>	<b>16.1%</b>	<b>5</b>
answered question		31

skipped question		1
------------------	--	---

<b>When was your last routine doctor's visit?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
<b>Within the last 12 months</b>	<b>68.8%</b>	<b>22</b>
<b>Within the last 13-18 months</b>	<b>9.4%</b>	<b>3</b>
<b>Within the last 19-24 months</b>	<b>6.3%</b>	<b>2</b>
<b>Between 2 and 5 years</b>	<b>6.3%</b>	<b>2</b>
<b>Over 5 years ago</b>	<b>3.1%</b>	<b>1</b>
<b>Never had a routine visit</b>	<b>6.3%</b>	<b>2</b>
answered question		32
skipped question		0

<b>How many days have you been too sick to work or carry out your usual activities during the past 30 days?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
<b>None</b>	<b>59.4%</b>	<b>19</b>
<b>1-2 days</b>	<b>37.5%</b>	<b>12</b>
<b>3-5 days</b>	<b>0%</b>	<b>0</b>
<b>6-10 days</b>	<b>3.1%</b>	<b>1</b>
<b>More than 10 days</b>	<b>0%</b>	<b>0</b>
answered question		32
skipped question		0

<b>Have you had any health issues due to any of the following? (Check all that apply)</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
<b>Alcohol abuse</b>	<b>0.00%</b>	<b>0</b>
<b>Lack of pregnancy care</b>	<b>0.00%</b>	<b>0</b>
<b>Stress</b>	<b>15.6%</b>	<b>5</b>
<b>Drug abuse/addiction</b>	<b>0.00%</b>	<b>0</b>
<b>Family violence</b>	<b>0.00%</b>	<b>0</b>
<b>None of the above</b>	<b>84.4%</b>	<b>27</b>
answered question		32
skipped question		0

<b>If ever pregnant, did you receive prenatal care?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
<b>Yes</b>	<b>68.8%</b>	<b>22</b>
<b>No</b>	<b>6.3%</b>	<b>2</b>
<b>Not sure</b>	<b>0%</b>	<b>0</b>
<b>Does not apply</b>	<b>25%</b>	<b>8</b>
answered question		32

skipped question		0
------------------	--	---

<b>Where do you go for routine healthcare? (Check all that apply)</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
Physician's Office	87.5%	28
Hospital Emergency Room	3.1%	1
Health Department Clinic	9.4%	3
Urgent Care Center	6.3%	2
Chiropractor	0%	0
Community Clinic	3.1%	1
Eye Doctor	28.1%	9
Dentist	25.0%	8
Other	0.00%	0
Do not seek healthcare	6.3%	2
answered question		32
skipped question		0

<b>How often are you able to visit a doctor when necessary?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
Always	65.6%	21
Sometimes	18.8%	6
Seldom	9.4%	3
Never	6.3%	2
answered question		32
skipped question		0

<b>If you answered seldom or never to the previous question, please choose why you were not always able to visit a doctor when necessary:</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
No insurance	33.3%	3
Too expensive/unaffordable	44.4%	4
Could not get an appointment	11.1%	1
Lack of transportation	0.00%	0
Doctor is too far away/inconvenient location	0%	0
Other	11.1%	1
answered question		9
skipped question		23

<b>What are the top three challenges for you and your household when receiving healthcare?</b>		
<b>Answer Options</b>		<b>Response Count</b>
Top Challenge		20
Second Challenge		10

<b>Third Challenge</b>		<b>4</b>
answered question		20
skipped question		12

Many people chose not to answer this question. However, of those who responded, the top challenges in receiving healthcare included:

- Cost
- Getting off work

<b>Select any of the following preventive measures you have had in the last year (check all that apply)</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
Mammogram	42.9%	12
Pap smear	46.4%	13
Glaucoma test	14.3%	4
Flu shot	67.9%	19
Colon/rectal examination	14.3%	4
Blood pressure check	78.6%	22
Skin cancer screening	21.4%	6
Prostate cancer digital screen	3.6%	1
Prostate cancer PSA blood screen	0%	0
Cholesterol screen	32.1%	9
STD (Sexually Transmitted Disease) Screening	14.3%	4
Vision screening	60.7%	17
Hearing Screening	14.3%	4
Cardiovascular screening	17.9%	5
Bone density test	7.1%	2
Dental exam	57.1%	16
Diabetes	25%	7
answered question		28
skipped question		4

<b>Are both you and any children living in your household up-to-date on your immunizations?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
Yes	90.6	29
No	3.1%	1
I am up-to-date, but my children are not	0.00%	0
I am not up-to-date, but my children are	3.1%	1
Do not know	3.1%	1
answered question		32
skipped question		0



Where do the children currently living in your home go for routine healthcare? (Check all that apply)		
Answer Options	Response Percent	Response Count
Physician's Office	61.3%	19
Hospital Emergency Room	3.2%	1
Health Department Clinic	19.4%	6
Urgent Care Center	3.2%	1
Chiropractor	0%	0
Community Clinic	3.2%	1
Eye Doctor	16.1%	5
Dentist	16.1%	5
Other	0.00%	0
Does not apply	38.7%	12
answered question		31
skipped question		1

Have you been diagnosed by a doctor with any of the following health problems or diseases? If you have NOT been diagnosed by a doctor with any of these health problems or diseases, please check the "No" box. If you have, please check any boxes that apply to your health problem or disease.						
Answer Options	No	Yes, but I am not taking any additional precautions or treatments regarding it.	Yes, I see a doctor.	Yes, I am taking medications or getting treatment.	Yes, I feel the disease is managed well.	
Diabetes	29	0	2	2	1	
Stroke	31	0	0	0	0	
Heart Disease	30	0	1	2	1	
High Blood Pressure	18	2	5	10	3	
Coronary Heart Failure	31	0	1	1	1	
High Cholesterol	29	0	1	1	1	
Cancer	29	0	1	1	2	
Asthma	29	1	1	1	0	
COPD (Chronic Obstructive Pulmonary Disease)	30	0	1	1	0	
Kidney Disease	32	0	0	0	0	
Obesity	27	3	2	0	0	
Liver Disease	32	0	0	0	0	
Arthritis	26	2	2	2	2	
Migraine	30	2	1	2	0	
Depression	27	2	1	2	0	
Bipolar Disorder	32	0	0	0	0	
Sleep Disorders	32	0	0	0	0	
Hepatitis	32	0	0	0	0	

Tuberculosis	31	0	0	0	0	
Epilepsy/Seizure Disorder	31	0	0	0	0	
Lupus	32	0	0	0	0	
Sickle Cell Anemia	32	0	0	0	0	
Glaucoma	32	0	0	0	0	
Gonorrhea	32	0	0	0	0	
HIV/AIDS	32	0	0	0	0	
Dental Health Problems	29	1	1	0	0	
Hearing Disorders	31	0	0	0	0	
Eye/Vision Problems	20	0	7	3	4	
Sinus Problems	26	2	1	1	1	
Memory Loss	31	1	0	0	0	
answered question						32
skipped question						0

<b>If you have been diagnosed by a doctor with cancer, please provide the type of cancer(s)</b> <b>*Write N/A if you have not been diagnosed with cancer.</b>		
<b>Answer Options</b>		<b>Response Count</b>
answered question		31
skipped question		1

Four participants reported they had been diagnosed with cancer; kidney, urinary, breast, lung & abdomen.

<b>If you have been diagnosed by a doctor with cancer or are a cancer survivor, please rate your satisfaction with the below statements. *Select N/A if you have not been diagnosed with or survived cancer.</b>						
<b>Answer Options</b>	<b>Very Dissatisfied</b>	<b>Dissatisfied</b>	<b>Satisfied</b>	<b>Very Satisfied</b>	<b>N/A*</b>	<b>Response Count</b>
Waiting time for treatment	0	0	0	2	30	32
Communication with doctors and healthcare professionals	0	0	0	2	30	32
Education on diagnosis	0	0	1	1	30	32
Fair access to health services	0	0	0	2	30	32
Insurance coverage	1	0	0	1	31	32
Waiting time for treatment	0	0	0	1	31	32
Travel time/time off work	0	0	0	1	31	32
answered question						32
skipped question						0

<b>How often do you travel outside of your county for medical care?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
Always	9.4%	3
Sometimes	21.9%	7
Seldom	9.4%	3
Never	59.4%	19
answered question		32
skipped question		0

<b>If you travel outside of your county for medical care, what services do you seek? (Check all that apply)</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
Medical/doctor appointments	25%	8
Outpatient treatment	15.6%	5
Hospitalization	15.6%	5
Dental appointments	12.5%	4
Laboratory or other tests	9.4%	3
x-rays, MRIs, etc.	12.5%	4
Vision appointments	15.6%	5
Other	0%	0
Do not travel outside of the county for medical care	62.5%	20
answered question		32
skipped question		0

<b>In this final section, please choose how much of a problem you think each item listed is for the county where you live. Do you think it is a serious problem, a moderate problem, not a problem at all or are you not sure about this issue in your county?</b>					
<b>Answer Options</b>	<b>Serious Problem</b>	<b>Moderate Problem</b>	<b>Not a Problem</b>	<b>Not sure</b>	<b>Response Count</b>
Infant Health	7	9	8	7	31
Infectious Diseases (meningitis, hepatitis, etc.)	5	7	11	8	31
Job Availability	13	12	3	3	31
Job Security	12	11	3	5	31
Mental Illness	10	5	9	7	31
Overweight Adults	17	7	4	3	31
Overweight Children	17	8	12	6	31
Prenatal Health	3	12	10	6	31
Recreation Opportunities	5	8	12	6	31
Secondhand Smoke	9	10	7	5	31
Services for Disabled	5	12	4	10	31
Smokeless Tobacco	8	5	10	8	31

<b>Smoking</b>	<b>12</b>	<b>11</b>	<b>6</b>	<b>2</b>	<b>31</b>	
<b>Stress</b>	<b>12</b>	<b>10</b>	<b>5</b>	<b>4</b>	<b>31</b>	
<b>Teen Pregnancy</b>	<b>13</b>	<b>12</b>	<b>2</b>	<b>4</b>	<b>31</b>	
<b>Unemployment</b>	<b>15</b>	<b>13</b>	<b>1</b>	<b>2</b>	<b>31</b>	
answered question						31
skipped question						0

**Mississippi County Surveys**

Survey Layout and Design

The community Health Needs Assessment Survey for a 2016 was a questionnaire-style survey available to voluntary participants at certain locations. If needed, facilitators were available to read the questions to participants so the answers were accurate and to ensure the survey was filled out completely. Survey Monkey was used to analyze the data.

The survey was designed to collect data on health beliefs, health behaviors, access to and utilization of healthcare services and concerns about community health issues. The survey consists of four different sections:

1. Demographics
2. Social and Economic Factors
3. Health Behaviors
4. Medical Care and Services

A total of 40 surveys were completed by Mississippi County residents, with a few surveys having some unanswered questions. Survey Monkey analysis takes into consideration the number of actual responses for each questions. The survey sample was not a random sample, but more of a targeted sample to ensure that certain populations were surveyed. Also, some of the questions asked in the survey had an option of choosing multiple answers, which means that not all of the questions have answer that are mutually exclusive, so some of the total percentages will not add up to 100 percent.

The process for conducting these surveys involved traveling to Mississippi County and asking participants face-to-face to complete the survey. Participants were found in medical clinics, health departments, resource center and local businesses.

**Participants**

Key Characteristics

- 85% are female, 15% are male
- 52.50% are married
- 72.50% are white/Caucasian

- 42.50% have 3 to 5 people living in their household
- 85% have a high school diploma and higher education
- 46.15% are employed full-time
- 66.7% have an annual income greater than \$25,000

#### Demographics

The tables below show certain demographic characteristics of the survey participants in Mississippi County, including the survey respondents' gender, marital status, age, education level, race/ethnicity, employment status and lifestyle health factors.

<b>What is your 5 digit ZIP code?</b>	
<b>Answer Options</b>	<b>Response Count</b>
	<b>40</b>
answered question	40
skipped question	0

<b>Gender?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
<b>Male</b>	<b>85.00%</b>	<b>34</b>
<b>Female</b>	<b>15.00%</b>	<b>6</b>
answered question		40
skipped question		0

<b>Marital Status?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
<b>Single/Not Married</b>	<b>20.00%</b>	<b>8</b>
<b>Married</b>	<b>52.50%</b>	<b>21</b>
<b>Divorced</b>	<b>12.50%</b>	<b>5</b>
<b>Widowed</b>	<b>15.00%</b>	<b>6</b>
<b>Living with Partner</b>	<b>0.0%</b>	<b>0</b>
<b>Other</b>	<b>0.0%</b>	<b>0</b>
answered question		40
skipped question		0

<b>What is your race/ethnicity?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
<b>Asian or Pacific Islander</b>	<b>0.0%</b>	<b>0</b>

<b>Black or African-American</b>	<b>25.0%</b>	<b>10</b>
<b>Hispanic or Latina</b>	<b>0.0%</b>	<b>0</b>
<b>Native American</b>	<b>2.5%</b>	<b>1</b>
<b>White or Caucasian</b>	<b>72.50%</b>	<b>29</b>
<b>Other</b>	<b>0.0%</b>	<b>0</b>
answered question		40
skipped question		0
<b>What is the race/ethnicity of any children currently living in your home?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
<b>Asian or Pacific Islander</b>	<b>0.0%</b>	<b>0</b>
<b>Black or African-American</b>	<b>12.5%</b>	<b>5</b>
<b>Hispanic or Latina</b>	<b>0.0%</b>	<b>0</b>
<b>Native American</b>	<b>2.5%</b>	<b>1</b>
<b>White or Caucasian</b>	<b>25.00%</b>	<b>10</b>
<b>Other</b>	<b>0.0%</b>	<b>0</b>
<b>I have no children living in my home currently</b>	<b>60.0%</b>	<b>24</b>
answered question		40
skipped question		0

<b>How many people currently live in your household?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
<b>1-2</b>	<b>52.50%</b>	<b>21</b>
<b>3-5</b>	<b>42.5%</b>	<b>17</b>
<b>6 or more</b>	<b>5.00%</b>	<b>2</b>
answered question		40
skipped question		0

<b>How many adults age 65 or older currently live in your household?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
<b>0</b>	<b>65.00%</b>	<b>26</b>
<b>1-2</b>	<b>35.00%</b>	<b>14</b>
<b>3-5</b>	<b>0.00%</b>	<b>0</b>
<b>6 or more</b>	<b>0.00%</b>	<b>0</b>
answered question		40
skipped question		0

<b>How many children under 18 years of age currently live in your household?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
<b>0</b>	<b>71.05%</b>	<b>27</b>
<b>1-2</b>	<b>26.32%</b>	<b>10</b>
<b>3-5</b>	<b>2.63%</b>	<b>1</b>
<b>6 or more</b>	<b>0.00%</b>	<b>0</b>
answered question		40
skipped question		0

<b>Select all of the following that describe your home or household:</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
<b>More than one working smoke detector</b>	<b>75.00%</b>	<b>30</b>
<b>Carbon monoxide detector</b>	<b>40.00%</b>	<b>16</b>
<b>Food is put back into the refrigerator within two hours after a meal</b>	<b>75.00%</b>	<b>30</b>
<b>Septic Tank</b>	<b>35.00%</b>	<b>14</b>
<b>Pets (dog, cat, reptiles, etc.)</b>	<b>42.50%</b>	<b>17</b>
<b>Family fire safety plan/evacuation plan</b>	<b>55.00%</b>	<b>22</b>
<b>Children know how to dial 911 in case of emergency</b>	<b>22.50%</b>	<b>9</b>
<b>Children know their phone number and address</b>	<b>22.50%</b>	<b>9</b>
<b>Have one or more types of aerobic (cardiovascular) exercise equipment</b>	<b>15.00%</b>	<b>6</b>
<b>Internet access</b>	<b>62.50%</b>	<b>25</b>
<b>Provide care for an older adult</b>	<b>5.00%</b>	<b>2</b>
<b>Children under 13 are supervised in non-school hours</b>	<b>5.00%</b>	<b>2</b>
answered question		40
skipped question		0

#### Social and Economic Factors

The following tables show certain social and economic factors in Mississippi County, including the survey respondents' education level, employment status and annual household income.

<b>What is your highest level of education?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
<b>Never graduated high school</b>	<b>12.5%</b>	<b>5</b>
<b>High school diploma</b>	<b>37.50%</b>	<b>15</b>
<b>GED</b>	<b>2.50%</b>	<b>1</b>
<b>Currently attending or have some college</b>	<b>25.00%</b>	<b>10</b>
<b>Two-year college degree</b>	<b>12.50%</b>	<b>5</b>
<b>Four-year college degree</b>	<b>5.00%</b>	<b>2</b>
<b>Graduate-level degree or higher</b>	<b>5.00%</b>	<b>2</b>
answered question		40
skipped question		0

<b>What is your employment status? (check all that apply)</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
<b>Employed fulltime</b>	<b>46.15%</b>	<b>18</b>
<b>Employed part time</b>	<b>20.51%</b>	<b>8</b>
<b>Fulltime student</b>	<b>10.26%</b>	<b>4</b>
<b>Part time student</b>	<b>2.56%</b>	<b>1</b>
<b>Full-time homemaker</b>	<b>5.13%</b>	<b>2</b>
<b>Retired</b>	<b>12.82%</b>	<b>5</b>
<b>Unemployed more than one year</b>	<b>0.00%</b>	<b>0</b>
<b>Unemployed due to disability or illness</b>	<b>17.95%</b>	<b>7</b>
answered question		39
skipped question		1

<b>What is your annual household income?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
<b>Less than \$5,000</b>	<b>2.56%</b>	<b>1</b>
<b>\$5,000-\$14,999</b>	<b>17.95%</b>	<b>7</b>
<b>\$15,000-\$24,999</b>	<b>12.82%</b>	<b>5</b>
<b>\$25,000-\$49,999</b>	<b>35.90%</b>	<b>14</b>
<b>\$50,000--\$74,999</b>	<b>12.82%</b>	<b>5</b>
<b>\$75,000-\$99,999</b>	<b>7.69%</b>	<b>3</b>
<b>\$100,000 or higher</b>	<b>7.69%</b>	<b>3</b>
<b>Does not apply</b>	<b>2.56%</b>	<b>1</b>
answered question		39
skipped question		1

<b>What sources do you use to obtain most of your health-related information? (check all that apply)</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
<b>Family</b>	<b>46.15%</b>	<b>18</b>
<b>Friends</b>	<b>33.33%</b>	<b>13</b>
<b>Doctor/nurse/Pharmacist</b>	<b>92.31%</b>	<b>36</b>
<b>Newspaper/Magazines/Television</b>	<b>5.13%</b>	<b>2</b>
<b>Health Department</b>	<b>41.03%</b>	<b>16</b>
<b>Church</b>	<b>12.82%</b>	<b>5</b>
<b>School</b>	<b>7.69%</b>	<b>3</b>
<b>Internet</b>	<b>41.03%</b>	<b>16</b>
<b>Other</b>	<b>0.00%</b>	<b>0</b>
answered question		39
skipped question		1



The next tables show information regarding the health behaviors of adults and their children in Mississippi County.

<b>In the following section, respond with how often YOU do the following: *(N/A = does not apply to you)</b>				
<b>Answer Options</b>	<b>Almost Always</b>	<b>Sometimes</b>	<b>Never</b>	<b>Response Count</b>
<b>Exercise at a moderate pace at least 30 minutes per day, 5 days per week</b>	4	18	15	37
<b>Consume more than 3 alcoholic beverages per day (female) or more than 5 per day (male)</b>	1	2	37	40
<b>Smoke cigarettes</b>	4	2	32	38
<b>Are exposed to secondhand smoke at home or at the workplace</b>	5	5	30	40
<b>Chew tobacco</b>	1	1	38	40
<b>Use illegal drugs (marijuana, cocaine, methamphetamine, etc.)</b>	0	0	39	39
<b>Get a flu shot each year</b>	28	8	4	40
<b>Practice safe sex (use of condom or other barrier method)</b>	10	4	19	33
<b>Get enough sleep every night (7-9 hours)</b>	20	16	4	40
answered question				40
skipped question				0

<b>In the following section, how often do any children CURRENTLY living in your home do the following: *(N/A = does not apply to them)</b>					
<b>Answer Options</b>	<b>Almost Always</b>	<b>Sometimes</b>	<b>Never</b>	<b>N/A*</b>	<b>Response Count</b>
<b>Participate in at least 1 hour of physical activity every day</b>	9	6	1	21	37
<b>Are exposed to secondhand smoke in the home</b>	2	3	11	21	36
<b>Get a flu shot each year</b>	10	4	2	21	37
<b>Practice safe sex (use of condom or other barrier method)</b>	3	2	2	29	36
<b>Get enough sleep every night (7-9 hours)</b>	11	6	0	20	37
answered question					37
skipped question					3

Medical Care and Services

The next tables show information regarding the medical care and services received in Mississippi County, including the survey respondents' insurance type, insurance coverage, doctor's visits, access to care and health problems within the community.

<b>What kinds of insurance do you (and/or your family) have currently?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
<b>Health</b>	<b>90.00%</b>	<b>36</b>
<b>Dental</b>	<b>50.00%</b>	<b>20</b>
<b>Vision</b>	<b>45.00%</b>	<b>18</b>
<b>Do not have insurance</b>	<b>10.00%</b>	<b>4</b>
answered question		40
skipped question		0

<b>What type of health insurance do you (and/or your family) have currently?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
<b>Self-insured</b>	<b>0.00%</b>	<b>0</b>
<b>Employer-provided</b>	<b>35.00%</b>	<b>14</b>
<b>Medicare</b>	<b>30.00%</b>	<b>12</b>
<b>Medicaid or MC+</b>	<b>17.50%</b>	<b>7</b>
<b>VA/CHAMPUS</b>	<b>7.50%</b>	<b>3</b>
<b>Do not know</b>	<b>0.00%</b>	<b>0</b>
<b>Do not have health insurance</b>	<b>10.00%</b>	<b>4</b>
answered question		40
skipped question		0

<b>If anyone living in your household does not have insurance, who is NOT currently covered?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
<b>Entire family</b>	<b>5.26%</b>	<b>2</b>
<b>At least one adult</b>	<b>10.53%</b>	<b>4</b>
<b>All adults</b>	<b>0.00%</b>	<b>0</b>
<b>Child(ren) age 6 or older</b>	<b>2.63%</b>	<b>1</b>
<b>Child(ren) under age 6</b>	<b>0.00%</b>	<b>0</b>
<b>Does not apply</b>	<b>81.58%</b>	<b>31</b>
answered question		38
skipped question		2

<b>What is your current health status?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
<b>Poor</b>	<b>10.00%</b>	<b>4</b>
<b>Fair</b>	<b>20.00%</b>	<b>8</b>
<b>Good</b>	<b>47.50%</b>	<b>19</b>
<b>Very Good</b>	<b>15.00%</b>	<b>6</b>
<b>Excellent</b>	<b>7.50%</b>	<b>3</b>
answered question		40

skipped question		0
------------------	--	---

<b>When was your last routine doctor's visit?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
Within the last 12 months	82.05%	32
Within the last 13-18 months	7.69%	3
Within the last 19-24 months	2.56%	1
Between 2 and 5 years	0.00%	0
Over 5 years ago	0.00%	0
Never had a routine visit		
answered question		39
skipped question		1

<b>How many days have you been too sick to work or carry out your usual activities during the past 30 days?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
None	72.22%	26
1-2 days	13.89%	5
3-5 days	8.33%	3
6-10 days	2.78%	1
More than 10 days	2.78%	1
answered question		36
skipped question		4

<b>Have you had any health issues due to any of the following? (Check all that apply)</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
Alcohol abuse	0.00%	0
Lack of pregnancy care	0.00%	0
Stress	15.38%	6
Drug abuse/addiction	0.00%	0
Family violence	0.00%	0
None of the above	84.62%	33
answered question		39
skipped question		1

<b>If ever pregnant, did you receive prenatal care?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
Yes	60.53%	23
No	0.00%	0
Not sure	0.00%	0
Does not apply	39.47%	15
answered question		38

skipped question		2
------------------	--	---

<b>Where do you go for routine healthcare? (Check all that apply)</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
Physician's Office	90.00%	36
Hospital Emergency Room	15.00%	6
Health Department Clinic	32.50%	13
Urgent Care Center	17.50%	7
Chiropractor	5.00%	2
Community Clinic	12.50%	5
Eye Doctor	45.00%	18
Dentist	42.50%	17
Other	0.00%	0
Do not seek healthcare	2.50%	1
answered question		40
skipped question		0

<b>How often are you able to visit a doctor when necessary?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
Always	79.49%	31
Sometimes	20.51%	8
Seldom	0.00%	0
Never	0.00%	0
answered question		39
skipped question		1

<b>If you answered seldom or never to the previous question, please choose why you were not always able to visit a doctor when necessary:</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
No insurance	0.00%	0
Too expensive/unaffordable	100.00%	1
Could not get an appointment	0.00%	0
Lack of transportation	0.00%	0
Doctor is too far away/inconvenient location	0.00%	0
answered question		1
skipped question		39

<b>What are the top three challenges for you and your household when receiving healthcare?</b>		
<b>Answer Options</b>		<b>Response Count</b>
Top Challenge		18
Second Challenge		
Third Challenge		

answered question		18
skipped question		22

Many people chose not to answer this question. However, of those who responded, the top challenges in receiving healthcare included:

- Cost
- Getting off work

<b>Select any of the following preventive measures you have had in the last year (check all that apply)</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
Mammogram	43.59%	17
Pap smear	41.03%	16
Glaucoma test	23.08%	9
Flu shot	71.79%	28
Colon/rectal examination	20.51%	8
Blood pressure check	76.92%	30
Skin cancer screening	7.69%	3
Prostate cancer digital screen	5.13%	2
Prostate cancer PSA blood screen	10.26%	4
Cholesterol screen	51.28%	20
STD (Sexually Transmitted Disease) Screening	12.82%	5
Vision screening	61.54%	24
Hearing Screening	15.38%	6
Cardiovascular screening	15.38%	6
Bone density test	12.82%	5
Dental exam	46.15%	18
Diabetes	38.46%	15
answered question		39
skipped question		1

<b>Are both you and any children living in your household up-to-date on your immunizations?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
Yes	89.66%	26
No	6.90%	2
I am up-to-date, but my children are not	0.00%	0
I am not up-to-date, but my children are	0.00%	0
Do not know	3.45%	1
answered question		29
skipped question		11

<b>Where do the children currently living in your home go for routine healthcare? (Check all that apply)</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>

Physician's Office	37.14%	13
Hospital Emergency Room	2.86%	1
Health Department Clinic	5.71%	2
Urgent Care Center	14.29%	5
Chiropractor	2.86%	1
Community Clinic	8.57%	3
Eye Doctor	14.29%	5
Dentist	20.00%	7
Other	0.00%	0
Does not apply	62.86%	22
answered question		35
skipped question		5

Have you been diagnosed by a doctor with any of the following health problems or diseases? If you have NOT been diagnosed by a doctor with any of these health problems or diseases, please check the "No" box. If you have, please check any boxes that apply to your health problem or disease.						
Answer Options	No	Yes, but I am not taking any additional precautions or treatments regarding it.	Yes, I see a doctor.	Yes, I am taking medications or getting treatment.	Yes, I feel the disease is managed well.	
Diabetes	28	1	4	7	2	
Stroke	39	0	0	0	0	
Heart Disease	34	0	3	4	1	
High Blood Pressure	19	6	7	10	4	
Coronary Heart Failure	37	0	2	2	1	
High Cholesterol	24	0	7	6	4	
Cancer	36	0	1	1	1	
Asthma	36	1	0	1	1	
COPD (Chronic Obstructive Pulmonary Disease)	37	0	1	1	0	
Kidney Disease	36	1	2	1	1	
Obesity	33	5	0	0	0	
Liver Disease	36	0	1	1	0	
Arthritis	28	2	8	4	0	
Migraine	33	2	1	2	1	
Headaches	34	2	1	1	0	
Depression	32	5	1	2	0	
Bipolar Disorder	39	0	0	0	0	
Sleep Disorders	37	1	0	1	0	
Hepatitis	39	0	0	0	0	
Tuberculosis	39	0	0	0	0	
Epilepsy/Seizure Disorder	39	0	0	0	0	

Lupus	39	0	0	0	0	
Sickle Cell Anemia	39	0	0	0	0	
Glaucoma	36	0	3	0	0	
Gonorrhea	39	0	0	0	0	
HIV/AIDS	39	0	0	0	0	
Dental Health Problems	34	3	1	0	1	
Hearing Disorders	35	3	1	1	0	
Eye/Vision Problems	29	1	3	3	3	
Sinus Problems	25	2	6	4	3	
Memory Loss	36	2	1	1	0	
answered question						40
skipped question						0

<b>If you have been diagnosed by a doctor with cancer, please provide the type of cancer(s) *Write N/A if you have not been diagnosed with cancer.</b>		
<b>Answer Options</b>		<b>Response Count</b>
Kidney		1
Urinary		1
Breast		1
Lung & abdomen		1
answered question		18
skipped question		22

Four participants reported they had been diagnosed with cancer; kidney, urinary, breast, lung & abdomen.

<b>If you have been diagnosed by a doctor with cancer or are a cancer survivor, please rate your satisfaction with the below statements. *Select N/A if you have not been diagnosed with or survived cancer.</b>						
<b>Answer Options</b>	<b>Very Dissatisfied</b>	<b>Dissatisfied</b>	<b>Satisfied</b>	<b>Very Satisfied</b>	<b>N/A*</b>	<b>Response Count</b>
Waiting time for treatment	0	1	1	2	29	33
Communication with doctors and healthcare professionals	0	0	3	2	28	33
Education on diagnosis	0	0	2	2	28	32
Fair access to health services	0	0	2	3	28	33
Insurance coverage	0	0	4	2	28	33
Waiting time for treatment	0	1	2	2	28	33
Travel time/time off work	0	1	1	2	29	33
answered question						34
skipped question						6

<b>How often do you travel outside of your county for medical care?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
Always	20.00%	8
Sometimes	25.00%	10
Seldom	5.00%	2
Never	50.00%	20
answered question		40
skipped question		0

<b>If you travel outside of your county for medical care, what services do you seek? (Check all that apply)</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
Medical/doctor appointments	41.03%	16
Outpatient treatment	15.38%	6
Hospitalization	20.51%	8
Dental appointments	20.51%	8
Laboratory or other tests	17.95%	7
x-rays, MRIs, etc.	23.08%	8
Vision appointments	0.00%	9
Other	48.72%	0
Do not travel outside of the county for medical care		19
answered question		39
skipped question		1

<b>In this final section, please choose how much of a problem you think each item listed is for the county where you live. Do you think it is a serious problem, a moderate problem, not a problem at all or are you not sure about this issue in your county?</b>					
<b>Answer Options</b>	<b>Serious Problem</b>	<b>Moderate Problem</b>	<b>Not a Problem</b>	<b>Not sure</b>	<b>Response Count</b>
Infant Health	11	15	1	13	40
Infectious Diseases (meningitis, hepatitis, etc.)	15	7	3	13	38
Job Availability	32	3	1	4	40
Job Security	24	10	1	3	38
Mental Illness	20	9	1	8	38
Overweight Adults	25	9	1	4	39
Overweight Children	20	12	2	6	40
Prenatal Health	14	13	2	10	39
Recreation Opportunities	22	9	3	6	40
Secondhand Smoke	25	8	1	6	40
Services for Disabled	13	12	4	10	39
Smokeless Tobacco	13	13	3	10	39



<b>Smoking</b>	<b>28</b>	<b>5</b>	<b>1</b>	<b>6</b>	<b>40</b>	
<b>Stress</b>	<b>28</b>	<b>5</b>	<b>1</b>	<b>6</b>	<b>40</b>	
<b>Teen Pregnancy</b>	<b>31</b>	<b>3</b>	<b>1</b>	<b>5</b>	<b>40</b>	
<b>Unemployment</b>	<b>28</b>	<b>5</b>	<b>1</b>	<b>5</b>	<b>39</b>	
answered question						40
skipped question						0

**Mississippi County Surveys**

Survey Layout and Design

The community Health Needs Assessment Survey for a 2016 was a questionnaire-style survey available to voluntary participants at certain locations. If needed, facilitators were available to read the questions to participants so the answers were accurate and to ensure the survey was filled out completely. Survey Monkey was used to analyze the data.

The survey was designed to collect data on health beliefs, health behaviors, access to and utilization of healthcare services and concerns about community health issues. The survey consists of four different sections:

- 5. Demographics
- 6. Social and Economic Factors
- 7. Health Behaviors
- 8. Medical Care and Services

A total of 40 surveys were completed by Mississippi County residents, with a few surveys having some unanswered questions. Survey Monkey analysis takes into consideration the number of actual responses for each questions. The survey sample was not a random sample, but more of a targeted sample to ensure that certain populations were surveyed. Also, some of the questions asked in the survey had an option of choosing multiple answers, which means that not all of the questions have answer that are mutually exclusive, so some of the total percentages will not add up to 100 percent.

The process for conducting these surveys involved traveling to Mississippi County and asking participants face-to-face to complete the survey. Participants were found in medical clinics, health departments, resource center and local businesses.

**Participants**

Key Characteristics

- 85% are female, 15% are male
- 52.50% are married
- 72.50% are white/Caucasian
- 42.50% have 3 to 5 people living in their household
- 85% have a high school diploma and higher education
- 46.15% are employed full-time
- 66.7% have an annual income greater than \$25,000

#### Demographics

The tables below show certain demographic characteristics of the survey participants in Mississippi County, including the survey respondents' gender, marital status, age, education level, race/ethnicity, employment status and lifestyle health factors.

<b>What is your 5 digit ZIP code?</b>	
<b>Answer Options</b>	<b>Response Count</b>
	<b>40</b>
answered question	40
skipped question	0

<b>Gender?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
<b>Male</b>	<b>85.00%</b>	<b>34</b>
<b>Female</b>	<b>15.00%</b>	<b>6</b>
answered question		40
skipped question		0

<b>Marital Status?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
<b>Single/Not Married</b>	<b>20.00%</b>	<b>8</b>
<b>Married</b>	<b>52.50%</b>	<b>21</b>
<b>Divorced</b>	<b>12.50%</b>	<b>5</b>
<b>Widowed</b>	<b>15.00%</b>	<b>6</b>
<b>Living with Partner</b>	<b>0.0%</b>	<b>0</b>
<b>Other</b>	<b>0.0%</b>	<b>0</b>
answered question		40
skipped question		0

<b>What is your race/ethnicity?</b>
-------------------------------------

Answer Options	Response Percent	Response Count
Asian or Pacific Islander	0.0%	0
Black or African-American	25.0%	10
Hispanic or Latina	0.0%	0
Native American	2.5%	1
White or Caucasian	72.50%	29
Other	0.0%	0
answered question		40
skipped question		0

**What is the race/ethnicity of any children currently living in your home?**

Answer Options	Response Percent	Response Count
Asian or Pacific Islander	0.0%	0
Black or African-American	12.5%	5
Hispanic or Latina	0.0%	0
Native American	2.5%	1
White or Caucasian	25.00%	10
Other	0.0%	0
I have no children living in my home currently	60.0%	24
answered question		40
skipped question		0

**How many people currently live in your household?**

Answer Options	Response Percent	Response Count
1-2	52.50%	21
3-5	42.5%	17
6 or more	5.00%	2
answered question		40
skipped question		0

**How many adults age 65 or older currently live in your household?**

Answer Options	Response Percent	Response Count
0	65.00%	26
1-2	35.00%	14
3-5	0.00%	0
6 or more	0.00%	0
answered question		40
skipped question		0

<b>How many children under 18 years of age currently live in your household?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
<b>0</b>	<b>71.05%</b>	<b>27</b>
<b>1-2</b>	<b>26.32%</b>	<b>10</b>
<b>3-5</b>	<b>2.63%</b>	<b>1</b>
<b>6 or more</b>	<b>0.00%</b>	<b>0</b>
answered question		40
skipped question		0

<b>Select all of the following that describe your home or household:</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
<b>More than one working smoke detector</b>	<b>75.00%</b>	<b>30</b>
<b>Carbon monoxide detector</b>	<b>40.00%</b>	<b>16</b>
<b>Food is put back into the refrigerator within two hours after a meal</b>	<b>75.00%</b>	<b>30</b>
<b>Septic Tank</b>	<b>35.00%</b>	<b>14</b>
<b>Pets (dog, cat, reptiles, etc.)</b>	<b>42.50%</b>	<b>17</b>
<b>Family fire safety plan/evacuation plan</b>	<b>55.00%</b>	<b>22</b>
<b>Children know how to dial 911 in case of emergency</b>	<b>22.50%</b>	<b>9</b>
<b>Children know their phone number and address</b>	<b>22.50%</b>	<b>9</b>
<b>Have one or more types of aerobic (cardiovascular) exercise equipment</b>	<b>15.00%</b>	<b>6</b>
<b>Internet access</b>	<b>62.50%</b>	<b>25</b>
<b>Provide care for an older adult</b>	<b>5.00%</b>	<b>2</b>
<b>Children under 13 are supervised in non-school hours</b>	<b>5.00%</b>	<b>2</b>
answered question		40
skipped question		0

#### Social and Economic Factors

The following tables show certain social and economic factors in Mississippi County, including the survey respondents' education level, employment status and annual household income.

<b>What is your highest level of education?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
<b>Never graduated high school</b>	<b>12.5%</b>	<b>5</b>
<b>High school diploma</b>	<b>37.50%</b>	<b>15</b>
<b>GED</b>	<b>2.50%</b>	<b>1</b>
<b>Currently attending or have some college</b>	<b>25.00%</b>	<b>10</b>
<b>Two-year college degree</b>	<b>12.50%</b>	<b>5</b>
<b>Four-year college degree</b>	<b>5.00%</b>	<b>2</b>
<b>Graduate-level degree or higher</b>	<b>5.00%</b>	<b>2</b>

answered question		40
skipped question		0

<b>What is your employment status? (check all that apply)</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
Employed fulltime	46.15%	18
Employed part time	20.51%	8
Fulltime student	10.26%	4
Part time student	2.56%	1
Full-time homemaker	5.13%	2
Retired	12.82%	5
Unemployed more than one year	0.00%	0
Unemployed due to disability or illness	17.95%	7
answered question		39
skipped question		1

<b>What is your annual household income?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
Less than \$5,000	2.56%	1
\$5,000-\$14,999	17.95%	7
\$15,000-\$24,999	12.82%	5
\$25,000-\$49,999	35.90%	14
\$50,000--\$74,999	12.82%	5
\$75,000-\$99,999	7.69%	3
\$100,000 or higher	7.69%	3
Does not apply	2.56%	1
answered question		39
skipped question		1

<b>What sources do you use to obtain most of your health-related information? (check all that apply)</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
Family	46.15%	18
Friends	33.33%	13
Doctor/nurse/Pharmacist	92.31%	36
Newspaper/Magazines/Television	5.13%	2
Health Department	41.03%	16
Church	12.82%	5
School	7.69%	3
Internet	41.03%	16
Other	0.00%	0
answered question		39
skipped question		1

Health Behaviors

The next tables show information regarding the health behaviors of adults and their children in Mississippi County.

<b>In the following section, respond with how often YOU do the following: *(N/A = does not apply to you)</b>				
<b>Answer Options</b>	<b>Almost Always</b>	<b>Sometimes</b>	<b>Never</b>	<b>Response Count</b>
<b>Exercise at a moderate pace at least 30 minutes per day, 5 days per week</b>	4	18	15	37
<b>Consume more than 3 alcoholic beverages per day (female) or more than 5 per day (male)</b>	1	2	37	40
<b>Smoke cigarettes</b>	4	2	32	38
<b>Are exposed to secondhand smoke at home or at the workplace</b>	5	5	30	40
<b>Chew tobacco</b>	1	1	38	40
<b>Use illegal drugs (marijuana, cocaine, methamphetamine, etc.)</b>	0	0	39	39
<b>Get a flu shot each year</b>	28	8	4	40
<b>Practice safe sex (use of condom or other barrier method)</b>	10	4	19	33
<b>Get enough sleep every night (7-9 hours)</b>	20	16	4	40
answered question				40
skipped question				0

<b>In the following section, how often do any children CURRENTLY living in your home do the following: *(N/A = does not apply to them)</b>					
<b>Answer Options</b>	<b>Almost Always</b>	<b>Sometimes</b>	<b>Never</b>	<b>N/A*</b>	<b>Response Count</b>
<b>Participate in at least 1 hour of physical activity every day</b>	9	6	1	21	37
<b>Are exposed to secondhand smoke in the home</b>	2	3	11	21	36
<b>Get a flu shot each year</b>	10	4	2	21	37
<b>Practice safe sex (use of condom or other barrier method)</b>	3	2	2	29	36
<b>Get enough sleep every night (7-9 hours)</b>	11	6	0	20	37
answered question					37
skipped question					3

## Medical Care and Services

The next tables show information regarding the medical care and services received in Mississippi County, including the survey respondents' insurance type, insurance coverage, doctor's visits, access to care and health problems within the community.

<b>What kinds of insurance do you (and/or your family) have currently?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
<b>Health</b>	<b>90.00%</b>	<b>36</b>
<b>Dental</b>	<b>50.00%</b>	<b>20</b>
<b>Vision</b>	<b>45.00%</b>	<b>18</b>
<b>Do not have insurance</b>	<b>10.00%</b>	<b>4</b>
answered question		40
skipped question		0

<b>What type of health insurance do you (and/or your family) have currently?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
<b>Self-insured</b>	<b>0.00%</b>	<b>0</b>
<b>Employer-provided</b>	<b>35.00%</b>	<b>14</b>
<b>Medicare</b>	<b>30.00%</b>	<b>12</b>
<b>Medicaid or MC+</b>	<b>17.50%</b>	<b>7</b>
<b>VA/CHAMPUS</b>	<b>7.50%</b>	<b>3</b>
<b>Do not know</b>	<b>0.00%</b>	<b>0</b>
<b>Do not have health insurance</b>	<b>10.00%</b>	<b>4</b>
answered question		40
skipped question		0

<b>If anyone living in your household does not have insurance, who is NOT currently covered?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
<b>Entire family</b>	<b>5.26%</b>	<b>2</b>
<b>At least one adult</b>	<b>10.53%</b>	<b>4</b>
<b>All adults</b>	<b>0.00%</b>	<b>0</b>
<b>Child(ren) age 6 or older</b>	<b>2.63%</b>	<b>1</b>
<b>Child(ren) under age 6</b>	<b>0.00%</b>	<b>0</b>
<b>Does not apply</b>	<b>81.58%</b>	<b>31</b>
answered question		38
skipped question		2

<b>What is your current health status?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
<b>Poor</b>	<b>10.00%</b>	<b>4</b>
<b>Fair</b>	<b>20.00%</b>	<b>8</b>
<b>Good</b>	<b>47.50%</b>	<b>19</b>
<b>Very Good</b>	<b>15.00%</b>	<b>6</b>
<b>Excellent</b>	<b>7.50%</b>	<b>3</b>

answered question		40
skipped question		0

<b>When was your last routine doctor's visit?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
<b>Within the last 12 months</b>	<b>82.05%</b>	<b>32</b>
<b>Within the last 13-18 months</b>	<b>7.69%</b>	<b>3</b>
<b>Within the last 19-24 months</b>	<b>2.56%</b>	<b>1</b>
<b>Between 2 and 5 years</b>	<b>0.00%</b>	<b>0</b>
<b>Over 5 years ago</b>	<b>0.00%</b>	<b>0</b>
<b>Never had a routine visit</b>		
answered question		39
skipped question		1

<b>How many days have you been too sick to work or carry out your usual activities during the past 30 days?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
<b>None</b>	<b>72.22%</b>	<b>26</b>
<b>1-2 days</b>	<b>13.89%</b>	<b>5</b>
<b>3-5 days</b>	<b>8.33%</b>	<b>3</b>
<b>6-10 days</b>	<b>2.78%</b>	<b>1</b>
<b>More than 10 days</b>	<b>2.78%</b>	<b>1</b>
answered question		36
skipped question		4

<b>Have you had any health issues due to any of the following? (Check all that apply)</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
<b>Alcohol abuse</b>	<b>0.00%</b>	<b>0</b>
<b>Lack of pregnancy care</b>	<b>0.00%</b>	<b>0</b>
<b>Stress</b>	<b>15.38%</b>	<b>6</b>
<b>Drug abuse/addiction</b>	<b>0.00%</b>	<b>0</b>
<b>Family violence</b>	<b>0.00%</b>	<b>0</b>
<b>None of the above</b>	<b>84.62%</b>	<b>33</b>
answered question		39
skipped question		1

<b>If ever pregnant, did you receive prenatal care?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
<b>Yes</b>	<b>60.53%</b>	<b>23</b>
<b>No</b>	<b>0.00%</b>	<b>0</b>
<b>Not sure</b>	<b>0.00%</b>	<b>0</b>
<b>Does not apply</b>	<b>39.47%</b>	<b>15</b>



answered question		38
skipped question		2

<b>Where do you go for routine healthcare? (Check all that apply)</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
Physician's Office	90.00%	36
Hospital Emergency Room	15.00%	6
Health Department Clinic	32.50%	13
Urgent Care Center	17.50%	7
Chiropractor	5.00%	2
Community Clinic	12.50%	5
Eye Doctor	45.00%	18
Dentist	42.50%	17
Other	0.00%	0
Do not seek healthcare	2.50%	1
answered question		40
skipped question		0

<b>How often are you able to visit a doctor when necessary?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
Always	79.49%	31
Sometimes	20.51%	8
Seldom	0.00%	0
Never	0.00%	0
answered question		39
skipped question		1

<b>If you answered seldom or never to the previous question, please choose why you were not always able to visit a doctor when necessary:</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
No insurance	0.00%	0
Too expensive/unaffordable	100.00%	1
Could not get an appointment	0.00%	0
Lack of transportation	0.00%	0
Doctor is too far away/inconvenient location	0.00%	0
answered question		1
skipped question		39

<b>What are the top three challenges for you and your household when receiving healthcare?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
Top Challenge		18
Second Challenge		

<b>Third Challenge</b>		
answered question		18
skipped question		22

<b>Select any of the following preventive measures you have had in the last year (check all that apply)</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
Mammogram	43.59%	17
Pap smear	41.03%	16
Glaucoma test	23.08%	9
Flu shot	71.79%	28
Colon/rectal examination	20.51%	8
Blood pressure check	76.92%	30
Skin cancer screening	7.69%	3
Prostate cancer digital screen	5.13%	2
Prostate cancer PSA blood screen	10.26%	4
Cholesterol screen	51.28%	20
STD (Sexually Transmitted Disease) Screening	12.82%	5
Vision screening	61.54%	24
Hearing Screening	15.38%	6
Cardiovascular screening	15.38%	6
Bone density test	12.82%	5
Dental exam	46.15%	18
Diabetes	38.46%	15
answered question		39
skipped question		1

<b>Are both you and any children living in your household up-to-date on your immunizations?</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
Yes	89.66%	26
No	6.90%	2
I am up-to-date, but my children are not	0.00%	0
I am not up-to-date, but my children are	0.00%	0
Do not know	3.45%	1
answered question		29
skipped question		11

<b>Where do the children currently living in your home go for routine healthcare? (Check all that apply)</b>		
<b>Answer Options</b>	<b>Response Percent</b>	<b>Response Count</b>
Physician's Office	37.14%	13
Hospital Emergency Room	2.86%	1

Health Department Clinic	5.71%	2
Urgent Care Center	14.29%	5
Chiropractor	2.86%	1
Community Clinic	8.57%	3
Eye Doctor	14.29%	5
Dentist	20.00%	7
Other	0.00%	0
Does not apply	62.86%	22
answered question		35
skipped question		5

Have you been diagnosed by a doctor with any of the following health problems or diseases? If you have NOT been diagnosed by a doctor with any of these health problems or diseases, please check the "No" box. If you have, please check any boxes that apply to your health problem or disease.

Answer Options	No	Yes, but I am not taking any additional precautions or treatments regarding it.	Yes, I see a doctor.	Yes, I am taking medications or getting treatment.	Yes, I feel the disease is managed well.
Diabetes	28	1	4	7	2
Stroke	39	0	0	0	0
Heart Disease	34	0	3	4	1
High Blood Pressure	19	6	7	10	4
Coronary Heart Failure	37	0	2	2	1
High Cholesterol	24	0	7	6	4
Cancer	36	0	1	1	1
Asthma	36	1	0	1	1
COPD (Chronic Obstructive Pulmonary Disease)	37	0	1	1	0
Kidney Disease	36	1	2	1	1
Obesity	33	5	0	0	0
Liver Disease	36	0	1	1	0
Arthritis	28	2	8	4	0
Migraine	33	2	1	2	1
Headaches	34	2	1	1	0
Depression	32	5	1	2	0
Bipolar Disorder	39	0	0	0	0
Sleep Disorders	37	1	0	1	0
Hepatitis	39	0	0	0	0
Tuberculosis	39	0	0	0	0
Epilepsy/Seizure Disorder	39	0	0	0	0
Lupus	39	0	0	0	0
Sickle Cell Anemia	39	0	0	0	0

Glaucoma	36	0	3	0	0	
Gonorrhea	39	0	0	0	0	
HIV/AIDS	39	0	0	0	0	
Dental Health Problems	34	3	1	0	1	
Hearing Disorders	35	3	1	1	0	
Eye/Vision Problems	29	1	3	3	3	
Sinus Problems	25	2	6	4	3	
Memory Loss	36	2	1	1	0	
answered question						40
skipped question						0

If you have been diagnosed by a doctor with cancer, please provide the type of cancer(s) *Write N/A if you have not been diagnosed with cancer.		
Answer Options	Response Percent	Response Count
Top Challenge	100.00%	18
Second Challenge	22.22%	4
Third Challenge	0.00%	0
answered question		18
skipped question		22

Many people chose not to answer this question. However, of those who responded, the top challenges in receiving healthcare included:

- Cost
- Taking time off work

If you have been diagnosed by a doctor with cancer or are a cancer survivor, please rate your satisfaction with the below statements. *Select N/A if you have not been diagnosed with or survived cancer.						
Answer Options	Very Dissatisfied	Dissatisfied	Satisfied	Very Satisfied	N/A*	Response Count
Waiting time for treatment	0	1	1	2	29	33
Communication with doctors and healthcare professionals	0	0	3	2	28	33
Education on diagnosis	0	0	2	2	28	32
Fair access to health services	0	0	2	3	28	33
Insurance coverage	0	0	4	2	28	33
Waiting time for treatment	0	1	2	2	28	33
Travel time/time off work	0	1	1	2	29	33
answered question						34
skipped question						6

How often do you travel outside of your county for medical care?

Answer Options	Response Percent	Response Count
Always	20.00%	8
Sometimes	25.00%	10
Seldom	5.00%	2
Never	50.00%	20
answered question		40
skipped question		0

If you travel outside of your county for medical care, what services do you seek? (Check all that apply)		
Answer Options	Response Percent	Response Count
Medical/doctor appointments	41.03%	16
Outpatient treatment	15.38%	6
Hospitalization	20.51%	8
Dental appointments	20.51%	8
Laboratory or other tests	17.95%	7
x-rays, MRIs, etc.	23.08%	8
Vision appointments	0.00%	9
Other	48.72%	0
Do not travel outside of the county for medical care		19
answered question		39
skipped question		1

In this final section, please choose how much of a problem you think each item listed is for the county where you live. Do you think it is a serious problem, a moderate problem, not a problem at all or are you not sure about this issue in your county?					
Answer Options	Serious Problem	Moderate Problem	Not a Problem	Not sure	Response Count
Infant Health	11	15	1	13	40
Infectious Diseases (meningitis, hepatitis, etc.)	15	7	3	13	38
Job Availability	32	3	1	4	40
Job Security	24	10	1	3	38
Mental Illness	20	9	1	8	38
Overweight Adults	25	9	1	4	39
Overweight Children	20	12	2	6	40
Prenatal Health	14	13	2	10	39
Recreation Opportunities	22	9	3	6	40
Secondhand Smoke	25	8	1	6	40
Services for Disabled	13	12	4	10	39
Smokeless Tobacco	13	13	3	10	39
Smoking	28	5	1	6	40

<b>Stress</b>	28	5	1	6	40	
<b>Teen Pregnancy</b>	31	3	1	5	40	
<b>Unemployment</b>	28	5	1	5	39	
answered question						40
skipped question						0

**Summary of Findings**

Using the Data to Determine Needs

The secondary data is used to compare Mississippi County, New Madrid County and Scott County to Missouri by examining quantitative data such as the percentages, rates and trends. If the counties rank worse than the state or a negative trend is occurring, then a need is presented. The primary data is qualitative and takes in consideration the thoughts and opinions of people in the community.

Secondary Data

After a review of the secondary research found in the body of this report, it can be determined that the three counties do not do very well compared to the state of Missouri in many areas, so there are many areas of concern. The following describes the findings from the secondary data

In the Education category Mississippi County has 34% of its residents over the age of twenty-five who did not graduate from high school, while New Madrid County is at 25% and Scott County is at 23%. The state percentage is 12%.

The unemployment rate is higher in Mississippi County at 13.4% with New Madrid County and Scott County at 7%. The state unemployment rate is 8% .

The poverty status for all three counties is worse than the state rate with Mississippi County being the highest at almost 26% of its residents living in poverty. New Madrid County’s rate is 21.5% and Scott County is 17.2% while the state poverty rate is 17.2%.

Family and Domestic Violence rates in New Madrid County are lower than the state average, while Mississippi County has the highest rate of domestic violence in the state of Missouri and Scott County ranks fourth.

The percentage of uninsured in Mississippi County is 19%, uninsured in New Madrid County is 17% and Scott County is 16%. The state of Missouri uninsured rate is 16% which is slightly lower than New Madrid County and Mississippi County.

The number of health care providers in Mississippi County and New Madrid County is significantly less than the state of Missouri and Scott County. The rate of primary care providers in Mississippi County is 3,595:1 and New Madrid County is 4,733:1 the state of Missouri rate is 1495:1. Scott County is lower than the state rate at 1,868:1 but is still not at the level of the state for the number of residents per primary care provider.

The top leading causes of death in the three counties are heart disease, all cancers, all injuries/poisonings, chronic lower respiratory disease, and stroke/other cerebrovascular disease, which accounted for 73% of all deaths 1999-2009. Mississippi County, New Madrid County and Scott County all have worse rates than the state of Missouri in these categories.

### **Primary Data**

After review of the primary research results it can be determined that there are many areas of concern for the three counties. The following list the findings from the primary data, including the community surveys, focus groups, and checklist exercise completed at the focus groups. These issues were determined as a concern if the focus group participants were in agreement about the issue and/or if more than 60% of survey participants classified the issue as a moderate or serious problem.

The following list represents the key findings of the Community Health Needs Assessment by type of need:

#### **Health Needs**

- Adult Obesity
- Child Obesity
- Cancer
  - Lung
  - Breast
  - Colorectal
- Heart Disease
- Coronary Obstructive Pulmonary Disease
- Mental Illness
  - Suicide
- Stroke/other Cerebrovascular Disease
- Diabetes
- Pneumonia
- Chronic Liver Disease and Cirrhosis
- Kidney Disease
- Infant Health and Mortality
- Unintentional Injuries, motor vehicle accidents
- Injuries and poisonings
- Alzheimer's Disease
- Dental Health
- Asthma

#### **Behavioral Needs**

- Alcohol/Drug Abuse
- Smoking and Smokeless Tobacco
  - Smoking During Pregnancy
- Teen Pregnancy

- Health & Preventive Practices
  - Current cigarette smoking, no leisure-time activities, fewer than 5 fruits and vegetables per day, overweight, high blood pressure, high cholesterol, no mammogram, no pap smear, no blood stool testing, and no sigmoidoscopy or colonoscopy
- Student Health Behaviors
  - Chewing tobacco, inhalants, prescription drug abuse and over-the-counter medication abuse

### Community Needs

- Healthcare Affordability
- Transportation/Affordable Transportation
- Ability to Afford Prescribed Medications
- Affordable Healthcare
- Job Availability
- Unemployment
- Literacy
- Allergies
- Job Security
- Secondhand Smoke
- Injuries at work
- Access to Dental Care
- Access to Healthcare for underinsured
- Child Health
  - Unintentional injury, motor vehicle deaths, birth defects, homicide and heart disease
- Adolescent Health
  - Unintentional injury, motor vehicle deaths, homicide, suicide, all cancers and heart disease

### **Priority Needs**

#### Prioritization Process

The Missouri Information for Community Assessment (MICA) was used to prioritize different criteria measurements to rank the diseases, which are listed and briefly explained below. Additional information can be found on the Missouri Department of Health and Senior Service Priority MICA.

- Amenability to Change: the scientific knowledge of known community interventions that have been shown to prevent or reduce a given disease.
- Community Support: determined by the user of the current level of support in the community to address the disease (community opposition, no interest, some interest or organized support)



- Death Trend Statistically Significant: measures the urgency of the disease depending on whether the death rate is increasing or decreasing over time.
- Disability Burden: the number of years lived with disability taken from the Revised Global Burden of Disease 2002 Estimates.
- Hospital Days of Care: measures the severity of a disease and its potential impact on financial resources from the cost of hospital care and time unavailable from normal duties.
- Number of Deaths: measures the severity of a disease.
- Number of Deaths Under Age 65: measures the severity of a disease
- Number of Hospitalizations and ER Visits: measures the magnitude of the disease
- Racial Disparity for ER Visits: measures the rate of racial disparity from ER visits because barriers for care due to lack of insurance do not affect emergency rooms as much (uses the primary minority population in Missouri, African-Americans).
- Racial Disparity for Deaths: the ratio of the African-American age-adjusted death rate for a specific disease divided by the white/Caucasian age-adjusted death rate for the same disease.
- Prevalence/Incidence: Prevalence is the number of people who have the disease at a specific point in time. Incidence is the number of new people who get the condition during a specific time period.

Using all of the above criteria, the Priorities MICA ranked selected diseases and conditions. Using just the “Amenability to Change”, “Community Support” and “Prevalence/Incidence” criteria, the Priorities MICA ranked selected risk factors. These rankings were also considered in determining the priority needs discovered from research in this assessment.

The top five ranked diseases and conditions from the Priorities MICA

#### Mississippi County

6. Diabetes
7. Heart Disease
8. Chronic Obstructive Pulmonary Disease (COPD)
9. Lung Cancer
10. Arthritis/Lupus

#### New Madrid County

6. Heart Disease
7. Chronic Obstructive Pulmonary Disease (COPD)
8. Diabetes
9. Infant Health Problems
10. Motor Vehicle Accidents

#### Scott County

6. Chronic Obstructive Pulmonary Disease (COPD)
7. Heart Disease

8. Diabetes
9. Motor Vehicle Accidents
10. Stroke/Other Cerebrovascular Diseases

This Community Health Needs Assessment is the product of a completed process of findings secondary data, primary research, and presenting those findings. This compiled information will allow Missouri Delta Medical Center and its partners to create an implementation strategy designed to meet some particular needs that are specific to the Mississippi County, New Madrid County and Scott County communities.

Members of the Missouri Delta CHNA Team analyzed the survey data, focus group data, and secondary data in the report to prioritize the community health needs for the three counties. The priority needs were first identified by the primary research or what the community finds important. These high priority needs were then validated by the secondary research by looking at the community's statistics and trends against the state's statistics and trends.

#### Top 5 Priority Health Needs (and Associated Behavioral Needs)

- Child and Adult Obesity
- Chronic Disease
  - Diabetes (Diet and Exercise)
  - Chronic Respiratory Disease (Smoking)
  - Heart Disease (Smoking/Diet and Exercise)
  - Stroke (Healthy Lifestyle)
- Cancer (Smoking)
- Mental Illness
- Transportation

#### **Implementation Strategy 2016**

Analyzing primary data collected from surveys and focus groups, as well as available data from secondary sources allowed the CNHA Team to analyze the data and then prioritize the health needs for each county within Missouri Delta Medical Center's service area. The top priority needs from each county were then compared, and the following list with the greatest collective health needs of Mississippi County, New Madrid County and Scott County was created:

#### Top 5 Priority Health Needs

- Obesity
- Chronic Disease
- Smoking (cancer)
- Mental Illness
- Drug & Alcohol Abuse

Missouri Delta Medical Center’s leadership team was approached with the final CHNA Priority Ranking and asked for guidance on which issues Missouri Delta Medical Center is able to address through community benefit programs, considering time, staffing, feasibility and available community and hospital resources.

The hospital’s leadership team decided to address the top 5 needs in the Priority Rankings to the best of their ability and a table below summarizes Missouri Delta Medical Center’s implementation strategies to address these key community health needs

<b>Missouri Delta Medical Center – 2016-2019 CHNA Implementation Plan</b>			
<b>Identified Health Needs</b>		<b>Strategies to Address Needs</b>	
<b>Problem</b>	<b>Contributing Factors</b>	<b>How?</b>	<b>Specific Strategies</b>
Obesity	Poor eating habits	Provide education to families (parents & children) on healthy food choices and portion sizes.	Educational activity book geared toward families which includes healthy recipes and healthy eating habits. Books will be available in MDMC clinic waiting rooms and ER.
			Creation of FitKidz by MDMC Graphic Designer (Nutrition Boy, Safety Gal, etc.)to help learning about healthy living attractive to the younger generation. Education with FitKidz through posters, handouts, TV lobby, and health fairs.
			Continue to hold Chronic Disease Educational Workshops at Missouri Delta Medical Center.
			Continue to identify patients in need of attending Chronic Disease Educational Workshops offered.
			Provide speakers/presenters about healthy eating at events such as The Annual Women’s Show

			and The Annual Women's Health Conference.
			Participate in the annual Healthy Kids Day program at the YMCA with educational dietary information.
			Partner with Stratus Medical Group with promotion of their healthy weight management program.

<b>Missouri Delta Medical Center – 2016-2019 CHNA Implementation Plan</b>			
<b>Identified Health Needs</b>		<b>Strategies to Address Needs</b>	
<b>Problem</b>	<b>Contributing Factors</b>	<b>How?</b>	<b>Specific Strategies</b>
Chronic Disease	Lack of education	Provide education on the proper nutrition to patients with chronic disease (such as diabetes, heart disease) as well as their family.	Continue offering Chronic Disease Educational Workshops and promoting it through the physicians, case managers and other civic organizations.
			Continue to provide free public health screenings at health fairs throughout the counties we serve; blood pressure, glucose, lung
			Population Health working through outreach to help educate patients and prevent readmissions.
			Work with local health departments in each county to promote their diabetes support groups and self-help programs.

Missouri Delta Medical Center – 2016-2019 CHNA Implementation Plan			
Identified Health Needs		Strategies to Address Needs	
Problem	Contributing Factors	How?	Specific Strategies
Cancer	Smoking	Spread the word on the dangers of smoking and smokeless tobacco.	Continue to promote smoking-cessation programs the local health departments are providing.
			Educate medical providers on the resources available for patients who want to quit tobacco usage.

Missouri Delta Medical Center – 2016-2019 CHNA Implementation Plan			
Identified Health Needs		Strategies to Address Needs	
Problem	Contributing Factors	How?	Specific Strategies
Mental Illness	Lack of resources	New program development and education	Partner with Bootheel Counseling in providing Mental Health First Aid programs to area employers. This program introduces participants to risk factors and warning signs of mental illnesses
			Continue to support the Mental Health Counselors implemented in our Rural Health clinics in Sikeston and New Madrid

Missouri Delta Medical Center – 2016-2019 CHNA Implementation Plan			
Identified Health Needs		Strategies to Address Needs	
Problem	Contributing Factors	How?	Specific Strategies
Drug & Alcohol Abuse	Mental Illness	It was discussed in the focus groups that most causes of drug and alcohol abuse are from mental illness.	<i>See Mental Illness strategies.</i>

			Partner with pharmacies that offer a medication reconciliation program in which the Pharmacist visits the patient's home and compares home meds with discharge meds to ensure no discrepancies.
--	--	--	---