1. Community Summary

For the purposes of this Assessment, the Booneville Community is made up of Johnson, Logan, Scott, Yell and Polk counties.

**Johnson County**

Johnson County is a small, but progressive community situated on I-40 and the Arkansas River midway between Little Rock and Fayetteville. It is located in west central Arkansas with the Arkansas River on the southern border and the Ozark National Forest bordering the north.¹

This county has a diverse past with a rich history making up of coal mines of the western section to the German colonies of the eastern section. Many families made this county their temporary home before heading west.

Johnson County presently prides itself with a varied agricultural industry, especially poultry and beef. Johnson County, however, is also known for its peaches that are produced in the Clarksville area on light and sandy soil. It is, however, the Ozark and Ouachita Mountains, the Ozark National Forest, the Arkansas River and Lake Dardanelle that provides a unique setting with breathtaking scenery making the area a desirable destination for living, working, and enjoying leisurely activities.

**Logan County**

Logan County is made up of rolling farmland, forested ridges, isolated mountains, and lakes. The county holds a plentiful amount of natural and scenic beauty, including the highest point in Arkansas, Mt. Magazine, which is 2,753 feet high. Mt. Magazine rises from the Ozark National Forest where, on a clear day, you can see up to 40 miles in the distance. The mountain is also within the boundaries of the Mt. Magazine Wildlife Management Area and a part of the Ouachita National Forest, making it one of only two counties in the state to include two national forests.

Scenic overlooks, hiking trails, deep canyons, distant mountains and vistas of broad river valleys make this county popular for camping, hiking, picnicking, swimming, and many other recreational activities.

Also located in Logan County, is Subiaco Abbey and Academy, an active Benedictine abbey and private high school for boys that was established in 1878 and still thrives today.

¹ Clarksville Chamber of Commerce, [http://www.clarksvillearchamber.com](http://www.clarksvillearchamber.com)
“Booneville, one of the two Logan County seats, is a progressive community with a wide range of facilities in addition to the normal municipal services. Its commercial activity consists of retail stores and small industries. Booneville supports a community center, a senior citizens center, a community hospital, and a municipal airport. Recreational facilities include two parks and a baseball complex.”

Paris is the second county seat in Logan County. The railroad system from nearby Fort Smith to Paris had a tremendous effect on the town’s economy and demographics in early 1897 along with coal mining efforts in later years. Having heard reports from the Midwest of farming success of German Catholic immigrants, railroad officials, with the cooperation of the Catholic Church, embarked on a successful campaign to encourage German Catholics to settle along the railroad. Today, Paris supports commercial activity, retail stores, small industries and a community hospital.

Scott County

Scott County is located on the west central border of Arkansas in the Ouachita Mountain region of the state. The county is mountainous and interspersed with expansive valleys along the Fourche LaFave, Petit Jean, and Poteau rivers and associated tributaries. The two primary towns within Scott County are Waldron and portions of Mansfield.

Tyson Foods is the largest employer in the county that engages in all phases of poultry production, however, O.K. Foods employs a large number of the population raising chickens to be used at production plants elsewhere.

Due to the growth of larger chain establishments, the commercial district of Waldron has seen a shift from Main Street to areas along the nearby Highway 71 bypass. Local efforts have been made to renovate and revitalize the downtown area by the addition of street lamps, renovations to the former courthouse and a conservation easement.

Yell County

The majority of Yell County is made up of rolling farmlands, forested ridges, and isolated mountains and lakes with rugged terrain in the south. The economic base of Yell County is well balanced. Leading industries are connected with production of poultry, hogs, and beef cattle with some small manufacturing.

Tourism and recreation activities are very popular in an area full of lakes. The Arkansas River, Lake Dardanelle, Nimrod Lake, Blue Mountain Lake and Kingfisher Lake are popular with the professional angler as well as the local fisherman. Mount Nebo State Park rises 1,800 feet above the mountain valleys and has cabins, campsites, picnic

2 City of Booneville, AR, Logan County, http://www.encyclopediaofarkansas.net
3 City of Paris, AR, Logan, County, http://www.encyclopediaofarkansas.net
sites, tennis courts, swimming pool, and hiking trails.\textsuperscript{4} Petit Jean Mountain and Wildlife Management Area is also nearby where there is more beautiful scenery.

**Polk County**

225,000 acres of the Ouachita National Forest are in Polk County. The Ouachita Mountains run east and west which make their south-facing and north-facing slopes to be made up of very different flora and fauna. In 1935, it was reported in *Ripley’s Believe It or Not* that one square mile on Rich Mountain had “more types of wild fruit, medicinal plants, timbers, flowers, ferns, mosses, grasses, weeds, and other small plants, in a natural state, than any place on Earth.”\textsuperscript{5}

Because of the mountainous terrain in Polk County, timber plays an industrious role to the area. Mena Regional Health System is also one of the larger employers. Polk County is home to Mena Intermountain Municipal Airport which supports a large variety of companies that service aircraft as well as many farm families that raise chickens for Tyson Foods.

**Ozarks Health Commission**

Recognizing the value of assessing and acting together on local health issues, key players from local hospital systems, public health entities, behavioral health systems and others formed a working group to begin the task of a regional health assessment.

This group grew under the umbrella of the local Ozarks Health Commission (OHC). This first-time collaboration of this size in the area spans four states—Missouri, Oklahoma, Arkansas and Kansas—51 counties and four hospital systems. This footprint will be referred to throughout the report as the OHC Region, a map of which can be found in the Executive Summary.

This assessment, along with the resulting implementation plan, will allow decision-makers to have a more holistic and up-to-date picture with which to strategically address community health concerns in their own jurisdictions. This report outlines priorities and data for the Springfield Community—all other Communities’ reports can be found at ozarkshealthcommission.org.

\[4\text{ Yell County, }\text{http://www.yellcounty.net}\]
\[5\text{ City of Mena, AR, }\text{http://www.encyclopediaofarkansas.net}\]
Primary Health Needs Identified

After careful analysis of the community health data, multiple health needs were identified and the following priorities were selected:

Lung Disease
Lung disease continues to impact the health and wellness of too many in our community.

Cardiovascular Disease
As a leading cause of death, cardiovascular disease is wreaking havoc on our community.

Mental Health
Mental health issues are a result of a multitude of factors and cause a magnitude of negative effects to our community.

Common Threads

Throughout this assessment, common threads often emerged in discussion around data and findings. While not explicitly identified as priority health issues, the Ozarks Health Commission recognizes the importance of highlighting the impact of these common threads on the health issues in the report.

In studying these common threads, the Ozarks Health Commission used the Socioecological Model\(^6\) as a framework to examine the impact on health issues. The Socioecological Model recognizes a wide range of factors working together to impact health and includes influences at the individual, interpersonal, organizational, community, and policy levels. Each of these common threads can impact health issues at levels throughout the model, and as such, community partners targeting to affect the common threads should consider action throughout the spectrum of the model. Throughout the common threads section, the Socioecological Model will be referenced to suggest possible strategies and provide context.

\(^6\) Centers for Disease Control and Prevention, [http://www.cdc.gov/violenceprevention/overview/social-ecologicalmodel.html](http://www.cdc.gov/violenceprevention/overview/social-ecologicalmodel.html)
Accessing healthcare has always been a struggle within our country, and has long been recognized as an issue, especially for vulnerable populations. Out of this need, safety net providers, such as Federally Qualified Health Centers and Rural Health Clinics, have arisen. Additionally, various federal and state programs have been implemented and changed to provide increased access to care: most notably Medicare, Medicaid and the Affordable Care Act. Despite numerous efforts, access to appropriate health care remains a concern for many. Currently, 20.8% of Americans do not have adequate access to healthcare services. The OHC Region also faces challenges to accessing care, with 25.2%, an estimated 576,000 people, without health insurance. Those without care face obvious health challenges since they are not as able to adequately treat acute health conditions.

issues or chronic diseases, resulting in further exacerbation of the condition, reducing quality of life and resulting in early death.\textsuperscript{8}

Accessing care can be a multi-faceted and complex challenge that spans all diseases and conditions and is closely connected with each of the seven assessed health issues. Examining some of the community health data more closely, there is concerning data within the OHC Region. The rate of preventable hospital events that are considered to be ambulatory care sensitive in the OHC Region is 67.7 per 1,000 Medicare enrollees, compared with a national rate of 59.2. There are fewer care physicians in the OHC Region: 63.6 per 100,000, compared to the nation’s rate of 74.5. Most alarming is the percent of people living in a designated Health Professional Shortage Area, which is 60.5%, compared to 34.1% of the national population. This concern is further supported by the community survey and focus groups that were conducted. The survey demonstrated many individuals face challenges with accessing care and the cost of health care, which suggests a challenge with being uninsured or underinsured. Of the nine community focus groups, access to care was identified as one of the emergent themes in five of the Communities.

The effect of a lack of access results in significant cost to both the individuals and communities. A 2014, Kaiser Family Foundation Report sums up the impact: “In 2013, the cost of ‘uncompensated care’ provided to uninsured individuals was $84.9 billion. Uncompensated care includes health care services without a direct source of payment. In addition, people who are uninsured paid an additional $25.8 billion out-of-pocket for their care.”\textsuperscript{9} Since the passage of the Affordable Care Act, one of the four states within the assessment, Arkansas, has expanded Medicaid. In the first few years, 275,000 estimated people now have insurance coverage, reducing the uninsured rate by 49%.

The other three states, Kansas, Missouri and Oklahoma have not expanded Medicaid, leaving thousands without viable options for health insurance. With a Medicaid expansion, Kansas would provide coverage to an estimated additional 200,000 individuals, Missouri to 452,000 individuals and Oklahoma to 348,000.\textsuperscript{10} By expanding coverage, people have the ability to not delay treatment and prevent or mitigate the effects of disease through treatment.

While having access to care is vital to improving treatment and health for people, accessing appropriate care is equally important. This certainly includes ensuring individuals have a plan to cover the cost of care and making sure that there is

\textsuperscript{8} U.S. Department of Health and Human Services, Office of Disease Prevention and Health Promotion, https://www.healthypeople.gov/2020/topics-objectives/topic/Access-to-Health-Services


\textsuperscript{10} Health Insurance.org, https://www.healthinsurance.org/medicaid/

\textsuperscript{11} Health Insurance.org, https://www.healthinsurance.org/medicaid/
appropriate provider coverage in communities; however, another important component is changing the culture to access care appropriately. Too many times individuals are using the emergency department for non-emergent issues, as is shown in the primary hospital data. While everyone can use the emergency department for non-emergent issues, the emergency departments are the least efficient and effective treatment options because the facility and staff are designed to treat emergent health needs.

Improving access to appropriate care will require changes at multiple levels of influence, including individual, community, organizational and policy levels, as indicated by the Socioecological Model. Efforts to address each assessed health issue should a) focus on improving the systems around the individual to improve health and access to appropriate care, and b) work to modify the way that individuals consume health services to ensure care is effective and efficient.

### Social Determinants of Health

**The interconnectedness of health, education, economic viability, housing and quality of life impact an individual, family and community’s ability to thrive.**

Throughout the world, our country and in our own communities, factors exist that affect the ability of people to live a life that provides the best opportunity to be healthy. Health, as defined by the World Health Organization, can be considered a state of physical, mental and social well-being and not merely the absence of disease or infirmity. In considering the interconnectedness of the multitude of factors that affect health for people, social determinants of health are often described. The Institute of Medicine suggests the following description for:

*Social determinants of health are conditions in the environments in which people are born, live, learn, work, play, worship, and age that affect a wide range of health, functioning, and quality-of-life outcomes and risks. Conditions (e.g., social, economic, and physical) in these various environments and settings (e.g., school, church, workplace, and neighborhood) have been referred to as “place.”*

12 In addition to the more material attributes of “place,” the patterns of social engagement and sense of security and well-being are also affected by where

12 Gornick, Marian E., “Disparities in Health Care: Methods for Studying the Effects of Race, Ethnicity, and SES on Access, Use, and Quality of health care”,
http://www.iom.edu/~media/Files/Activity%20Files/Quality/NHDRGuidance/DisparitiesGornick.pdf
people live. Resources that enhance quality of life can have a significant influence on population health outcomes. Examples of these resources include safe and affordable housing, access to education, public safety, availability of healthy foods, local emergency/health services, and environments free of life-threatening toxins.

Improvements in population health may be achieved by assessing, understanding and addressing root causes of poor health which can often be traced to include the social determinants of health. This assessment analyzed the following social determinants of health:

- Unemployment
- Income level
- Poverty rate
- Population receiving SNAP benefits
- Population on Medicaid
- Free and reduced lunch rate
- Education level

Although there are other factors that affect health, these are some of the most widely used and accepted indicators of determining the health of a person. Achieving a state of health and desired quality of life requires economic stability, social and community connection, safe living arrangements, access to quality and appropriate health care and much more. Just like many aspects of life that deal with resource availability, a good state of health is often associated with more readily available resources. Poor health or a lack of health affects each and every one of us by way of personal associations and community health achievement, which ultimately affects our individual and community ability to thrive.

A good example of this is the employment sector. Employers struggle with recruiting and retaining individuals to work decent-waged jobs in some scenarios because potential employees struggle with unreliable transportation or health concerns caused by poor living conditions or lack of access to healthy foods. Communities can struggle to attract businesses that pay good wages and offer good jobs because employers do not want to reside in a place where the population is burdened by higher-than-average prevalence of poor health indicators such as high rates of tobacco usage, obesity, heart disease and lung disease. Businesses are attracted to communities where neighborhoods thrive, educational attainment is high and employees are healthy and thriving—and therefore not a threat to the bottom line due to high health care costs as
a result of preventable illness. The unemployment rate across the OHC Region (5.4%) varies by county, from 4.2% in Washington County, AR to 8.7% in Taney County, MO.

In addition to employment, the OHC Region struggles with a number of other indicators used to describe social determinants of health. As indicated by the chart below, poverty is higher in the OHC Region than across the U.S. Not shown in the chart, but worth noting, is that 27.9% of families earn more than $75,000 per year, which is much lower than the country (42.8%). Also, of those 25 years of age and older, 15.3% in the OHC Region have not received a high school diploma or equivalent, which is higher than the U.S. (14.0%).

Social determinants of health tell us a story about the way that people live and, by extension, how their lives affect the community. Ultimately, where we live, where we work and our educational attainment level have huge impacts on the quality and length of our lives. Communities that consider the health impacts of policy decisions can make a positive impact on the social determinants of health.

**Tobacco Use**

High prevalence in tobacco use results in some of the biggest health concerns related to lung disease, cardiovascular disease and mental health. Interventions need to range from individual behavior change to policy change.

Awareness regarding the ill-health effects of tobacco use has grown significantly since the Surgeon General’s Report on Smoking and Health published in 1964. The report laid the foundation for tobacco control efforts in the United States. However, as the leading
cause of preventable death in the United States, there is still a great deal of work to be done.

According to the most recent Surgeon General’s report published in 2014, smoking causes 87% of all lung cancer deaths, 32% of deaths due to coronary heart disease, and is responsible for 79% of all cases of chronic obstructive pulmonary disease. Nationally, 18% of adults are tobacco users. Within the OHC Region, 23% of residents use tobacco. Additionally, the prevalence in each of the nine communities identified in this report is higher than the national average. Therefore, in order to reduce the threat of death and poor quality of life among residents in the OHC Region, it is imperative that efforts are taken to reduce tobacco use.

While the evidence reveals that tobacco use can lead to complex physiological health issues, it can also complicate existing health issues. Those dealing with mental illness may smoke to curtail the severity of their mental health symptoms. According to the most recently published Centers for Disease Control and Prevention (CDC) vital sign report on smoking among adults with mental illness, 36% of adults with mental illness were current smokers, which is much higher than those without a mental illness (21%). Additionally, 48% of people with a mental illness living below the poverty level smoke cigarettes.\(^{13}\)

Although data does not currently exist for the OHC Region regarding tobacco use among adults with mental illness, it is safe to assume that smoking in this population is significantly high considering the high rates of depression (17.5% compared to 15.5% nationally) and poverty (18.6% compared to 15% nationally) in the region. People with mental illness may not have access to tobacco cessation services and may smoke more frequently than the general population. Therefore, it is important to monitor tobacco use across all subpopulations, and use evidence-based interventions at multiple levels of influence.

According to the Socioecological Model, there are multiple levels of influence that affect a person’s behavior. The levels of influence include individual, interpersonal, organizational, community and public policy. Interventions targeting the individual level include raising awareness about the harms of first, second and third-hand smoke, providing tobacco cessation classes and offering various modes of counseling to stay tobacco-free. Tobacco cessation classes may also serve as an interpersonal intervention because of the social support offered in a group setting. Organizational interventions may include tobacco-free workplace policies, as well as insurance companies increasing rates for tobacco users. At the community level, successful strategies include changing

\(^{13}\) Centers for Disease Control and Prevention, [http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6205a2.htm?s_cid=mm6205a2_w](http://www.cdc.gov/mmwr/preview/mmwrhtml/mm6205a2.htm?s_cid=mm6205a2_w)
cultural norms through high-powered, cohesive and consistent media campaigns. Finally, policy-level interventions have the greatest impact. Policy advocacy at the local, states and national levels may include increasing tobacco tax, improving warning labels on tobacco products, implementing indoor air ordinances, regulating smoking in schools and implementing comprehensive tobacco control programs.

**Physical Activity and Nutrition**

Good nutrition, regular physical activity and a healthy body size are important in maintaining health and well-being and for preventing health conditions such as cardiovascular disease, diabetes and cancer.

Obesity continues to be a growing issue for the physical and economic health of our nation. The CDC reports that obesity rates in America have increased from 35% in 2011-2012 to 38% in 2013-2014. Currently, 27.1% of adults are obese, nationally. Within the OHC Region, 31.8% of adults are obese. The ramifications for this can be severe. Obesity contributes to the exacerbation of many chronic conditions including cardiovascular disease, diabetes and cancer. According to the CDC, chronic diseases are responsible for 7 out of 10 deaths each year and accounts for 86% of our nation’s health care costs. The trending increase can be attributed to the American lifestyle, with most Americans eating more and moving less.

Regular physical activity improves overall health and well-being and reduces the risk of chronic diseases and obesity. More than 80% of adults and adolescents do not meet the guidelines for physical activity. People who are physically active tend to live longer and have lower risk for cardiovascular disease, diabetes, depression and cancer. Physical activity can also help with weight control, and inactive adults have a higher risk for premature death.

Poor diets are not only a risk factor for obesity, but for other chronic diseases as well. For example, diets high in added sugar lead to health issues such as obesity, diabetes and cardiovascular disease. High dietary fat intake is a risk factor for the development of high blood lipid levels, and high dietary salt intake is a risk factor for the development of high blood pressure. In turn, high blood lipid levels and high blood pressure are significant risk factors for cardiovascular disease and other chronic diseases. Fewer than 1 in 3 adults, and an even lower proportion of adolescents, eat the recommended amount of vegetables each day.
As the Socioecological Model describes, there are multiple levels of influence that affect a person’s behavior. Interventions targeting the individual level include raising awareness about the harms of obesity, proper nutrition and the importance of regular physical activity. Exercise and nutrition classes may also serve as an interpersonal intervention because of the social support offered in a group setting. Organizational interventions may include healthy food policies, such as vending machine policies. At the community level, successful strategies include changing cultural norms through a pedestrian-friendly community that encourages walking and biking to essential resources and addressing food access concerns. Finally, policy level interventions have the greatest impact. Policy advocacy at the local, states and national levels may include increasing sugary beverage tax, nutrition labeling, regulating food advertisement, regulating nutrition and physical activity policies in schools and implementing complete streets ordinances or bicycle and pedestrian friendly policies.

Mental Health

**Mental health is inextricably linked to physical health. Poor mental health can have an impact on behaviors that result in poor physical health.**

The linkages between mental health conditions and physical health are still not totally understood. It is tempting to make clear distinctions between the body and the mind, but evidence continues to emerge that we should not ignore this interconnectedness and that we must acknowledge that the two cannot be thought of as separate. We must also acknowledge that there is not a simple model that explains this relationship. Metaphorically, we cannot answer which comes first, the chicken or the egg. Poor physical health can lead to poor mental health. Conversely, poor mental health can contribute to behaviors that increase one’s risk for chronic health conditions.

Mental health is a common thread in many chronic health conditions. Depression has been linked to higher rates of cardiovascular disease and diabetes. Additionally, persons with depression tend to engage in more risk behaviors for these diseases—such as smoking, poor diet or lack of exercise—than persons without depression. A 2006 study suggests that 80% of those diagnosed with schizophrenia use tobacco products. A

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growing body of evidence suggests that the lack of social connectedness, particularly in older adults, contributes to poor health outcomes.

While the relationship between mental health and physical health is becoming clearer, those connections remain murky and solutions to treating the mind and body together remain elusive. But what is becoming clear is that we can no longer largely rely on providing treatment for mental health issues through our emergency departments and our criminal justice system. Mental health issues need to be addressed before crisis is reached. Community leaders need to evaluate the causes of mental illness and take preventive measures to ensure that people live in an environment that contributes to stability of body and mind.