2018
Yancey County
Community Health Assessment
Yancey County Community Health Assessment

ACKNOWLEDGEMENTS
This document was developed by The Toe River Health District (serving Avery, Mitchell, and Yancey Counties) in partnership with Blue Ridge Regional Hospital as part of a local community health (needs) assessment process. We would like to thank and acknowledge several agencies and individuals for their contributions and support in conducting this health assessment:

<table>
<thead>
<tr>
<th>Name</th>
<th>Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dan Graham, Retired Community Volunteer</td>
<td>CHA Team</td>
</tr>
<tr>
<td>Jennifer Simpson, Blue Ridge Partnership for Children</td>
<td>Prioritization</td>
</tr>
<tr>
<td>Becky Carter, Blue Ridge Regional Hospital</td>
<td>CHA Team</td>
</tr>
<tr>
<td>Jessica Farley, Toe River Health District</td>
<td>Staff</td>
</tr>
<tr>
<td>Drew Brown, Toe River Health District</td>
<td>Staff</td>
</tr>
<tr>
<td>Diane Creek, Toe River Health District</td>
<td>Staff</td>
</tr>
<tr>
<td>Marian Arledge, Regional Coordinator</td>
<td>WNC Healthy Impact</td>
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<tr>
<td>Amanda Martin, Center for Rural Health Innovations</td>
<td>CHA Team</td>
</tr>
<tr>
<td>Jessica Hensley, TRHD School Based Health Clinics</td>
<td>Prioritization</td>
</tr>
<tr>
<td>Karen McKinney, Yancey County Department of Social Services</td>
<td>CHA Team</td>
</tr>
<tr>
<td>Margot Rossi, Possibilities of Well Being</td>
<td>Prioritization</td>
</tr>
<tr>
<td>LaCosta Tipton, Yancey County Health Department</td>
<td>CHA Team</td>
</tr>
<tr>
<td>Michael Sink, Local Radio Station WKYK</td>
<td>Prioritization</td>
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<tr>
<td>Teri Darnall, United Methodist Church RN</td>
<td>CHA Team</td>
</tr>
<tr>
<td>Pam Snyder, Intermountain Children Services</td>
<td>CHA Team</td>
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<tr>
<td>Amanda Garland, Community Care of Western NC</td>
<td>Prioritization</td>
</tr>
<tr>
<td>Schell McCall, Partners Aligned Towards Health</td>
<td>CHA Team</td>
</tr>
<tr>
<td>Jeff Spargo, Mitchell-Yancey Substance Abuse Task Force</td>
<td>CHA Team</td>
</tr>
<tr>
<td>Nicki Stamey, Mitchell and Yancey Healthy Families America</td>
<td>CHA Team</td>
</tr>
<tr>
<td>Amber Dillinger, Mountain Community Health Partnership</td>
<td>CHA Team</td>
</tr>
<tr>
<td>Susan Larson, SEARCH Committee</td>
<td>Prioritization</td>
</tr>
<tr>
<td>Nicole Hiegl, High Country Area on Agency</td>
<td>Prioritization</td>
</tr>
<tr>
<td>Aimee Fambrough &amp; Basil Savitsky, RHA Mental Health</td>
<td>CHA Team</td>
</tr>
</tbody>
</table>
Our community health assessment process and products were supported collaboratively by WNC Healthy Impact, a partnership between hospitals and health departments to improve community health in western North Carolina. This innovative regional effort is coordinated, housed and financially supported by WNC Health Network, the alliance of western NC hospitals working together to improve health and healthcare. Learn more at www.WNCHN.org.

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Community Results Statement
“Families in Yancey County are healthy and safe, this county, and the health workers in it strive to do the most for the individuals who reside here. We will not stop until everyone in the community is thriving and living their life to the best of their ability.”

Leadership for the Community Health Assessment Process
Briefly describe here what leadership for the CHA process looks like in your community. List key leaders in the table below.

<table>
<thead>
<tr>
<th>Name</th>
<th>Agency</th>
<th>Title</th>
<th>Agency Website</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jessica Farley</td>
<td>Toe River Health District</td>
<td>Health Promotion Supervisor</td>
<td><a href="http://toeriverhealth.org/">http://toeriverhealth.org/</a></td>
</tr>
<tr>
<td>Drew Brown</td>
<td>Toe River Health District</td>
<td>Health Promotion Coordinator</td>
<td><a href="http://toeriverhealth.org/">http://toeriverhealth.org/</a></td>
</tr>
<tr>
<td>Colby Boston</td>
<td>Blue Ridge Regional Hospital</td>
<td>Outreach Coordinator</td>
<td><a href="https://missionhealth.org/member-hospitals/blue-ridge/">https://missionhealth.org/member-hospitals/blue-ridge/</a></td>
</tr>
</tbody>
</table>

Regional/Contracted Services
Our county received support from WNC Healthy Impact, a partnership and coordinated process between hospitals, public health agencies, and key regional partners in western North Carolina working towards a vision of improved community health. We work together locally and regionally to assess health needs, develop collaborative plans, take action, and evaluate progress and impact. This innovative regional effort is coordinated and supported by WNC Health Network. WNC Health Network is the alliance of hospitals working together to improve health and healthcare in western North Carolina. Learn more at www.WNCHN.org.

Theoretical Framework/Model
WNC Health Network provides local hospitals and public health agencies with tools and support to collect, visualize, and respond to complex community health data through Results-Based Accountability™ (RBA). RBA is a disciplined, common-sense approach to thinking and acting with a focus on how people, agencies, and communities are better off for our efforts.

Through WNC Healthy Impact, all hospitals and their public health partners can access tailored Results-Based Accountability training and coaching; scorecard licenses and development (including the electronic Hospital Implementation Strategy); and scorecard training and technical assistance.
Collaborative Process Summary
Yancey County’s collaborative process is supported by WNC Healthy Impact, which works at the regional level.

Locally, our process is a community wide and multi-faceted approach to completing the community health assessment and giving this information to the community. First, we look to our community partners (stakeholders in the community) at local meetings such as the Healthy Yancey for things that they see in the community such as concerns, positive findings, or even initiatives that others aren’t aware of. Once we host these meetings we use this data to further implement strategies into the community. Secondly, we disseminate this information into the local newspapers in order for the public to read and provide feedback via telephone or email. Online we also provide this information via our website because here people can access the document itself and read the priorities and the data that drives them. Once the information is into the community and feedback is provided we use this information to help with the CHA and priorities as we see fit. Toe River Health District has long had an outstanding relationship with the community we serve and providing them information on health priorities has long been essential to the way we operate.

Phase 1 of the collaborative process began in January, 2018 with the collection of community health data. For more details on this process see Chapter 1 – Community Health Assessment Process.

Key Findings
A community wide 75 questionnaires was conducted to give residents an opportunity to express concerns and opinions about the quality of life in Yancey County. This included questions about the quality of life, economy, education, environment, health, housing, leisure activities, safety, social issues, transportation, and emergency preparedness. Surveys were conducted by telephone by a trained interviewer, not through an automated touch-tone process, strategically across the county in an effort to reach a wide variety of the population surveys were also completed online. There are 2,602 surveys completed via telephone and 663 completed online and this data will be used to go forward for the CHA. Some of the major findings that the Healthy Yancey Group points out are as follows 13.7% of people stated that Yancey County was a “Fair/Poor” place to live. Yancey County survey shows that there is a 37.6% prevalence rate of high blood pressure. 64.5% of people interviewed are considered overweight or obese. 48.0% stated that their life has been negatively affected by substance abuse.

On top of the surveys and online data collected, 18 community stakeholders participated via online key informant surveys. These individuals listed things such as what they see as important characteristics of a health community such as Access to Care/ Services, Recreational/ Outdoor Activity, Awareness and Education just to name a few. These individuals also ranked health issues with the overall titles being Obesity/ Nutrition/ Physical Activity, chronic disease, mental health and substance use, social determinants of health, and other issues. These broad health issues were individually voted on for more specific health concerns in the community for example under chronic disease the top three health issues were obesity, chronic pain, and cancer. Each main topic had these individual health issues ranked so that we could see what key informants believed were problems in the community.

Healthy Yancey also discusses the importance of resources within the county. The county uses 2-1-1 frequently in order to provide citizens with the resources that are available to them in
the county. Other major findings were stakeholders discussing the need for a fitness center and other healthy living opportunities within the county.

Based on findings from the community survey (telephone and online), combined with secondary health data that was analyzed, and key informant data. Healthy Yancey members identified ten (10) chief health concerns for the community.

**Top Ten Health Concerns:**
1. Chronic Disease
2. Cancer (All Types)
3. Substance Abuse
4. Health Behaviors/ Lifestyles
5. Access to Healthcare/ Access to Health Facilities
6. Mental Health
7. Positive Activities for Youth/Teenagers
8. Social Determinants of Health
9. Availability of Employment
10. Injury/ Violence

**Health Priorities**
Identify the top health priorities selected for the community health improvement plans. Per state requirements, identify *at least* the top two priorities.

In December of 2018, Healthy Yancey, along with the CHA Team members participated in a prioritization activity to determine the three leading health concerns to be addressed during 2019-2022. The worksheet asked that each of the ten concerns be ranked according to three criteria: Magnitude of the Problem, Seriousness of the Consequences, and Feasibility of Correcting the Problem.

The results from the prioritization process are reviewed and discussed at the meeting. The final health concerns are named as the focus for the next four-year cycle, 2019-2022.

1. Substance Abuse Prevention
2. Healthy Living Behaviors
3. Social Determinants
**Next Steps**

The 2018 CHA will be disseminated in a variety of ways. To begin, the document will be made available online at http://www.toeriverhealth.org. Hard copies will also be available at the Health Department, local library, and printed upon request.

The CHA Facilitator will present the CHA data during a Board of Health Meeting, a Healthy Yancey meeting, a Yancey County Health Department staff meeting, and upon request.

Next steps include the development of a community health improvement plan based on the findings from the CHA. The CHA Facilitator will convene community members and partners interested in moving forward on the selected health priorities. Action teams will emerge from the selected health priorities and the teams will begin brainstorming evidence-based strategies. While much work has already been done to improve the health of our community’s residents, more work is left to do to ensure that Yancey County is the healthiest place to live, learn, work, and play.

All entities and organizations provided great insight into this process, offering opinions on the health status of this community. It is through their partnership and collaboration that we were able to make this a product about the community, by the community, and for the community.
Purpose
Community health assessment (CHA) is an important part of improving and promoting the health of county residents. A community health assessment (CHA) – which is a process that results in a public report – describes the current health indicators and status of the community, what has changed, and what still needs to change to reach a community’s desired health-related results.

What are the key phases of the Community Health Improvement Process?
In the first phase of the cycle, process leaders for the CHA collect and analyze community data – deciding what data they need and making sense of it. They then decide what is most important to act on by clarifying the desired conditions of wellbeing for their population and by then determining local health priorities.

The second phase of the cycle is community health strategic planning. In this phase, process leaders work with partners to understand the root causes of the identified health priorities, both what’s helping and what’s hurting the issues. Together, they make a plan about what works to do better, form workgroups around each strategic area, clarify customers, and determine how they will know people are better-off because of their efforts.

In the third phase of the cycle, process leaders for the CHA take action and evaluate health improvement efforts. They do this by planning how to achieve customer results and putting the plan into action. Workgroups continue to meet, and monitor customer results and make changes to the plan as needed. This phase is vital to helping work groups understand the contribution their efforts are making toward their desired community results.

Definition of Community
Community is defined as "county" for the purposes of the North Carolina Community Health Assessment Process. Yancey County is included in Blue Ridge Regional Hospital’s community for the purposes of community health improvement, and as such they were key partner in this local level assessment.
**WNC Healthy Impact**

WNC Healthy Impact is a partnership and coordinated process between hospitals, public health agencies, and key regional partners in western North Carolina working towards a vision of improved community health. We work together locally and regionally to assess health needs, develop collaborative plans, take action, and evaluate progress and impact.

This regional initiative is designed to support and enhance local efforts by:

- Standardizing and conducting data collection,
- Creating communication and report templates and tools,
- Encouraging collaboration,
- Providing training and technical assistance,
- Addressing regional priorities, and
- Sharing evidence-based and promising practices.

This innovative regional effort is supported by financial and in-kind contributions from hospitals, public health agencies, and partners, and is coordinated by **WNC Health Network**. WNC Health Network, Inc. is an alliance of hospitals working together, and with partners, to improve health and healthcare. Learn more at [www.WNCHN.org](http://www.WNCHN.org).

**Data Collection**

The set of data reviewed for our community health assessment process is comprehensive, though not all of it is presented in this document. Within this community health assessment, we share a general overview of health and influencing factors, then focus more on priority health issues identified through a collaborative process. Our assessment also highlights some of our community strengths and resources available to help address our most pressing issues.

**Core Dataset Collection**

The data reviewed as part of our community’s health assessment came from the WNC Healthy Impact regional core set of data and additional local data compiled and reviewed by our local CHA team. WNC Healthy Impact’s core regional dataset includes secondary (existing) and primary (newly collected) data compiled to reflect a comprehensive look at health. The following data set elements and collection are supported by WNC Healthy Impact data consulting team, a survey vendor, and partner data needs and input:

- A comprehensive set of publicly available secondary data metrics with our county compared to the sixteen county WNC region
- Set of maps accessed from Community Commons and NC Center for Health Statistics
- WNC Healthy Impact Community Health Survey (cell phone, landline and internet-based survey) of a random sample of adults in the county
- Online key informant survey

See Appendix A for details on the regional data collection methodology.

**Health Resources Inventory**
We conducted an inventory of available resources of our community by reviewing a subset of existing resources currently listed in the 2-1-1 database for our county as well as working with partners to include additional information. Where gaps were identified, we partnered with 2-1-1 to fill in or update this information when applicable. See Chapter 7 for more details related to this process.

**Community Input & Engagement**
Including input from the community is a critical element of the community health assessment process. Our county included community input and engagement in a number of ways:

- Partnership on conducting the health assessment process
- Through primary data collection efforts (survey, key informant interviews, listening sessions, etc.)
- By reviewing and making sense of the data to better understand the story behind the numbers in the identification and prioritization of health issues

In addition, community engagement is an ongoing focus for our community and partners as we move forward to the collaborative planning phase of the community health improvement process. Partners and stakeholders with current efforts or interest related to priority health issues will continue to be engaged. We also plan to work together with our partners to help ensure that programs and strategies in our community are developed and implemented with community members and partners.

**At-Risk & Vulnerable Populations**
Throughout our community health assessment process, our team was focused on understanding general health status and related factors for the entire population of our county as well as the groups particularly at risk for health disparities or adverse health outcomes. For the purposes of the overall community health assessment, we aimed to understand differences in health outcomes, correlated variables, and access, particularly among medically underserved, low-income, and/or minority populations, and others experiencing health disparities.

The at-risk and vulnerable populations of focus for our process and product include:

- Youth in the community
- Poverty stricken community members and their families
- Elderly in the community
- Minority groups in the community
- Physically/Mentally handicapped in the community

Public Health Agencies are required to identify and include “at-risk” population groups in their Community Health Assessment, Benchmark 1, Activity 1.1 and a variety of other Accreditation Activities. If a certain relevant population group is not included in your data for some reason, explain why in this section.
If any relevant at risk groups are not included in our process or product it is only because they have not been brought to our attention up to this point. Toe River Health District wishes to help every vulnerable population in the communities we serve. We look to the area frequently to assure that we are reaching every disadvantaged group that exists in our community. Toe River Health District also realizes that reaching everyone in the community is a hard task, but we are always willing to reach more individuals that need help once we learn that they are in our county.

Though there are not universally accepted definitions of the three groups, here are some basic definitions from the Health Department Accreditation Self-Assessment Instrument (in some cases definitions have been slightly altered to better represent our region):

**Underserved populations** relate to those who do not access health care either because there is a lack of services or providers available or because of limitations such as income, literacy/language barriers or understanding on how to access services, cultural competency of clinicians, trust, transportation, etc.

**At-risk populations** are the members of a particular group who are likely to, or have the potential to, get a specified health condition. This could be from engaging in behavior (such as pregnant women who smoke) that could cause a specified health condition, having an indicator or precursor (high blood pressure) that could lead to a specified health condition or having a high ACE score (traumatic experiences), which is correlated with increased risk of specified health conditions.

**A vulnerable population** is one that may be more susceptible than the general population to risk factors that lead to poor health outcomes. Vulnerable populations, a type of at-risk population, can be classified by such factors as race/ethnicity, socio-economic status, cultural factors and age groups.
Location, Geography, and History of Yancey County

Yancey County is located in Western North Carolina, approximately 35 miles northeast of Asheville, North Carolina and 50 miles west of Johnson City, Tennessee. It has a population of 17,818. The County's total land is 313 miles. Burnsville is the county seat. The land was inhabited by the Cherokee prior to European settlement.

The Blue Ridge area of the Appalachian Highlands surrounds Yancey County. The Black Mountain Range crosses the south end of the county, intersected by the Blue Ridge Range and the Unaka Range. Yancey County has the highest average elevation of any county in North Carolina. One of its peaks is Mt. Mitchell with an elevation of 6,684 feet. The town of Burnsville is 2,815 feet. The county has average temperatures of 22 to 47 degrees in the winter and 80 degrees in the summer. Average annual rainfall is 84 inches with an average snowfall of 104 inches. There are textile industries, a bedspring manufacturer and an asphalt plant in the county. Agriculture includes tobacco, Christmas trees, ornamental shrubs, and beef cattle.

As you drive through the back roads of Yancey County, you will find such quaint names as Bee Log, Hardscrabble, Pig Pen, Possum Trot and Rabbit Hop. Old mountain ways mingle with the new. Citizens firmly rooted in the past and growing toward the future; a great way of life and a wonderful place to live.

History

Independent and sturdy Scottish, English, and Scotch-Irish settlers of the Carolina frontier had crossed the Blue Ridge Mountains and settled the Toe River Valley by the mid-18th century. In the year 1796, one of the early land speculators, John Gray Blount, paid for 326,640 acres of land, a portion of which later became Yancey County, N.C.

In December, 1833, the General Assembly established a new western county, named Yancey, from sections of Burke and Buncombe Counties. Yancey County was named in honor of one of
North Carolina’s most distinguished statesmen, Bartlett Yancey, of Caswell County. As a U.S. Congressman (1813–1817) and as speaker of the N.C. Senate (1817–1827), he was instrumental in many accomplishments that benefited the state, including the creation of an education fund that was the beginning of the N.C. Public School System.

He was an advocate of correcting the inequality in representation in the General Assembly by the creation of new western counties; but he died on August 30, 1828, over five years before the General Assembly created a new county named in his honor. On March 6, 1834, "Yellow Jacket" John Bailey conveyed 100 acres of land for the county seat. The town was named Burnsville in honor of Captain Otway Burns, who voted for the creation of the new western county when he was serving in the General Assembly. The grateful people named their county seat for Captain Burns, a naval hero in the War of 1812. A statue of Captain Burns stands on a 40 ton, Mount Airy granite pedestal in the center of the town's public square, which was given the official name of "Bailey Square" by the Yancey County Board of Commissioners on September 1, 1930. The statue of Captain Burns was given to the county on July 5, 1909, by Walter Francis Burns, a grandson of the sea captain.

**Population**

Understanding the growth patterns and age, gender and racial/ethnic distribution of the population in Yancey County will be keys in planning the allocation of health care resources for the county in both the near and long term.

**Current Population (Stratified by Gender, Age, and Race/Ethnicity)**

According to data from the 2010 US Census, the total population of Yancey County is 17,818. In Yancey County, as it is region-wide and statewide, there is a higher proportion of females than males (50.9% vs. 49.1%).

<table>
<thead>
<tr>
<th>Overall Population and Distribution, by Gender</th>
<th>Total Population (2010)</th>
<th># Males</th>
<th>% Males</th>
<th># Females</th>
<th>% Females</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yancey County</td>
<td>15,579</td>
<td>8,744</td>
<td>49.1</td>
<td>9,704</td>
<td>50.9</td>
</tr>
<tr>
<td>Regional Total</td>
<td>759,727</td>
<td>368,826</td>
<td>48.5</td>
<td>390,901</td>
<td>51.5</td>
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<tr>
<td>State Total</td>
<td>9,535,483</td>
<td>4,645,492</td>
<td>48.7</td>
<td>4,889,991</td>
<td>51.3</td>
</tr>
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</table>

In Yancey County 20.6% of the population is in the 65-and-older age group, compared to 19.0% region-wide and 12.9% statewide. The median age in Yancey County is 45.5, while the regional median age is 44.7 years and the state median age is 37.4 years.

<table>
<thead>
<tr>
<th>Median Age and Population Distribution, by Age Group</th>
<th>Median Age</th>
<th>% Under 5 Years Old</th>
<th># Under 5 Years Old</th>
<th>% 5-19 Years Old</th>
<th># 5-19 Years Old</th>
<th>% 20-64 Years Old</th>
<th># 20-64 Years Old</th>
<th>% 65 Years and Older</th>
<th># 65 Years and Older</th>
<th>% 65 Years and Older</th>
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</thead>
<tbody>
<tr>
<td>Yancey County</td>
<td>45.5</td>
<td>4.8</td>
<td>853</td>
<td>17.3</td>
<td>3,077</td>
<td>10,216</td>
<td>57.3</td>
<td>3,672</td>
<td>20.6</td>
<td>19.0</td>
</tr>
<tr>
<td>Regional Total</td>
<td>44.7</td>
<td>5.4</td>
<td>40,927</td>
<td>17.4</td>
<td>132,291</td>
<td>441,901</td>
<td>58.1</td>
<td>144,608</td>
<td>19.0</td>
<td>12.9</td>
</tr>
<tr>
<td>State Total</td>
<td>37.4</td>
<td>6.6</td>
<td>632,040</td>
<td>20.2</td>
<td>1,926,640</td>
<td>5,742,724</td>
<td>60.2</td>
<td>1,234,079</td>
<td>12.9</td>
<td></td>
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In terms of racial and ethnic diversity, Yancey County is less diverse than either WNC or NC as a whole. In Yancey County the population is 95.2% white/Caucasian and 4.8% non-white. Region-wide, the population is 89.3% white/Caucasian and 11.7% non-white. Statewide, the
comparable figures are 68.5% white and 31.5% non-white. The proportion of the population that self-identifies as Hispanic or Latino of any race is 4.6% in Yancey County, 5.4% region-wide, and 8.4% statewide.

<table>
<thead>
<tr>
<th>Population Distribution by Racial/Ethnic Groups</th>
<th>White</th>
<th>Black or African American</th>
<th>American Indian, Alaskan Native</th>
<th>Asian</th>
<th>Native Hawaiian, Other Pacific Islander</th>
<th>Some Other Race</th>
<th>Two or More Races</th>
<th>Hispanic or Latino (of any race)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yancey County</td>
<td>95.2%</td>
<td>0.8%</td>
<td>0.4%</td>
<td>0.2%</td>
<td>0</td>
<td>2.4%</td>
<td>0.9%</td>
<td>4.6%</td>
</tr>
<tr>
<td>Regional Total</td>
<td>89.3%</td>
<td>4.2%</td>
<td>1.5%</td>
<td>0.7%</td>
<td>0.1%</td>
<td>2.5%</td>
<td>1.8%</td>
<td>5.4%</td>
</tr>
<tr>
<td>State Total</td>
<td>68.5%</td>
<td>21.5%</td>
<td>1.3%</td>
<td>2.2%</td>
<td>0.1%</td>
<td>4.3%</td>
<td>2.2%</td>
<td>8.4%</td>
</tr>
</tbody>
</table>

**Population Growth Trend**

Between the 2000 and 2010 US Censuses the population of Yancey County increased by 0.2% while the population of WNC grew by 13%. The rate of population growth in the county is projected to accelerate over the next 10 years; Though Yancey County population is expected to grow over the next few decades, it is expected to grow at a much slower rate than the Western North Carolina Region and the state of NC. Double-digit (or near double-digit) positive population growth figures are projected for WNC and for NC as a whole over the same period.

The growth rate of a population is a function of emigration and death rates on the negative side, and immigration and birth rates on the positive side. As illustrated by the data below, the birth rate in Yancey County, lower than the comparable mean WNC and NC rates, was lower at 9.6 compared to 9.8 and 13 respectively to the WNC and NC rates in 2008-2012. These numbers hovered around similar territory the remaining years from 2009-2013, 2010-2014, 2011-2015, and 2012-2016 never straying by more than 0.8.
Birth Rate, Five 5-Year Aggregate Period by Geography

<table>
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<tbody>
<tr>
<td>Yancey County</td>
<td>9.6</td>
<td>9.2</td>
<td>9.1</td>
<td>9.4</td>
<td>9.4</td>
</tr>
<tr>
<td>Regional</td>
<td>9.8</td>
<td>9.6</td>
<td>9.5</td>
<td>9.6</td>
<td>9.6</td>
</tr>
<tr>
<td>State</td>
<td>13</td>
<td>12.6</td>
<td>12.4</td>
<td>12.2</td>
<td>12.2</td>
</tr>
</tbody>
</table>

Older Adult Population Growth Trend

As noted previously, the age 65-and-older segment of the population represents a larger proportion of the overall population in Yancey County and WNC than in the state as a whole. In terms of future health resource planning, it will be important to understand how this segment of the population, a group that utilizes health care services at a higher rate than other age groups, is going to change in the coming years. The table presents the decadal growth trend for the age 65-and-older population, further stratified into smaller age groups, for the decades from 2010 through 2030. The data illustrate how the population age 65-and-older in the county is going to increase over the coming two decades. The percent increase anticipated for each age group in Yancey County between 2010 and 2030 is 7.0% for the 65-74 age group, 50.0% for the 75-84 age group, and 68.0% for the 85+ age group. In WNC as a whole, the 65-74 age group is projected to grow by 24.0%, the 75-84 age group by 52.5%, and the 85+ age group by 40.0% over the same period of time.

<table>
<thead>
<tr>
<th>Population Age 65 and Older by Geography</th>
<th>2010 Census Date</th>
<th>2020 (Projected)</th>
<th>2030 (Projected)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total % Age 65 and Older</td>
<td>Total % Age 65-74</td>
<td>Total % Age 75-84</td>
<td>Total % Age 85+</td>
</tr>
<tr>
<td>Yancey County</td>
<td>20.6</td>
<td>11.5</td>
<td>6.6</td>
</tr>
<tr>
<td>Regional Total</td>
<td>19</td>
<td>10.4</td>
<td>6.1</td>
</tr>
<tr>
<td>State Total</td>
<td>12.9</td>
<td>7.3</td>
<td>4.1</td>
</tr>
</tbody>
</table>

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</tbody>
</table>
Elements of a Healthy Community

In the online survey, key informants were asked to list characteristics of a healthy community. They were also asked to select the health issues or behaviors that they feel are the most critical to address collaboratively in their own community over the next three years or more. Follow-up questions asked them to describe which contributors to progress and impediments of progress exist for these issues, as well as the likelihood that collaborative effort could make a positive change for these issues.

When key informants were asked to describe what elements they felt contributed to a health community in our county, they reported:

- Access to Care/ Services
- Recreational/ Outdoor Activities
- Awareness / Education
- Access to Healthy Foods/ Healthy Eating

During our collaborative planning efforts and next steps, we will further explore these concepts and the results our community has in mind. In Yancey County, a community health improvement coalition exists called Healthy Yancey a team of citizens and agencies working to improve the health of the people of Yancey County. This coalition exists under the umbrella of Partners Aligned Toward Health.

PATH is a non-profit (501c3) organization founded by local health care providers and concerned citizens who believed that a community is best able to assess and address the needs of its own people. For 15 years, PATH has been working hard to address health needs for children and their families. Whether it is dealing with childhood obesity, mental health/substance abuse or access to care, this longstanding organization has sought to bring the community together and create innovative, community based solutions.

Healthy Yancey is a partnership of concerned citizens working together to improve the quality of health for all people in Yancey County under the leadership of Partners Aligned Toward Health. The goal is to engage community members to identify and initiate changes needed to
improve health in our community. Action teams are formed to address specific needs from Community Health Assessment.

Additionally, Healthy Yancey plays a large role in the CHA process. Members of the Steering Committee acts as the CHA Team by advising the process, providing input, and confirming the identified health priorities. Action Teams are formed around selected health priorities and charged with developing strategies to address each health priority.

**Community Assets**

We also asked key informants to share some of the assets or “gems” they thought were important in our community. They shared the following information and ideas:

• Beautiful land geographically, beautiful country
• Citizens who have lived their whole lived there
• Raising families and generations there
• History and connectedness within the population and communities
• Location/Outdoor spaces and opportunities for recreation (hiking, hunting, fishing, and other recreation for the mountains)
• Willingness to help others
• Agencies come together to network and attempt to address health issues facing the community
• New resources available in the area (such as the dental clinic and community health center)
• Networking of the local churches and faith community
• Tourism opportunities
As described by Healthy People 2020, economic stability, education, health and healthcare, neighborhood and built environment, and social community and context are five important domains of social determinants of health. These factors are strongly correlated with individual health. People with higher incomes, more years of education, and a healthy and safe environment to live in have better health outcomes and generally have longer life expectancies. Although these factors affect health independently, they also have interactive effects on each other and thus on health. For example, people in poverty are more likely to engage in risky health behaviors, and they are also less likely to have affordable housing. In turn, families with difficulties in paying rent and utilities are more likely to report barriers to accessing health care, higher use of the emergency department, and more hospitalizations.

Income & Poverty

“Income provides economic resources that shape choices about housing, education, child care, food, medical care, and more. Wealth, the accumulation of savings and assets, helps cushion and protect us in times of economic distress. As income and wealth increase or decrease, so does health” (County Health Rankings, 2018).

Income

Income provides economic resources that shape a variety of choices – choices about housing, education, childcare, food, medical care, and more. Income allows residents to not only purchase health insurance and medical care but also make choices that support healthy lifestyles. The simplest difference in health is between those in the highest and lowest income brackets, the relationship of income affecting health persists throughout all brackets. There are several income measures that can be used to compare the economic well-being of communities, among them median household income, and median family income.

Median Household and Family income

As calculated from the most recent estimate (2012-2016), the median household income in Yancey County was $36,993, compared to a mean WNC median household income of $40,004, a difference of $3,011 less in Yancey County. The median household income in Yancey County was lower than the comparable state average of $48,256 this is shown to be a difference of $11,263 a relatively large difference in median household income.

As calculated from the most recent estimate (2012-2016), the median family income in Yancey County was $47,924, compared to a mean WNC median family income of $50,507 a difference of $2,583 less in Yancey County. The median family income in Yancey County in 2011-2015 was $45,347 which shows that Yancey County seen an increase of $2,577 from 2011-2015 to 2012-2016.
Population in Poverty
The 100%-level poverty rate in Yancey County was 21.3% in the 2012-2016 period. In the period cited, the poverty rate in Yancey County was higher than the comparable rates in both WNC and NC. The number of individuals as a whole below the poverty level is 3,713 when compared to the region’s mean of 7,798 it seems that Yancey has a much less poverty issue than first notices, however, this can easily be concluded because of the difference in total population where Yancey is the fifth lowest and therefore there aren’t the same number of people in poverty as larger counties.

In much of NC, children suffer disproportionately from poverty. It is apparent that children suffer disproportionately from poverty in our county. The estimated poverty rate among children under age 18 was higher compared to the overall poverty rate in every year cited. In Yancey County the poverty rate for young persons (29.5%) was lower than the overall rate (34.4%) in 2015, but still at an alarmingly high rate. Children under 5 in Yancey County also suffer a higher rate of poverty in Yancey County (33.3%) compared to the state (27.3%) and region (27.4%) as a whole. When comparing our children under 18 to both the state and the region Yancey County also sees an increase as the county sits at 29.5% compared to 24.7% for the region, and 23.9% compared to the state. Our Hispanic children, children living in single-mother families, and children under five are even more likely to be at risk for being poor.

Employment
“Employment provides income and, often, benefits that can support healthy lifestyle choices. Unemployment and under employment limit these choices, and negatively affect both quality of life and health overall. The economic condition of a community and an individual’s level of educational attainment both play important roles in shaping employment opportunities” (County Health Rankings, 2018).

As of 2017, the top five employment sectors in Yancey County with the largest proportions of workers (and average weekly wages) were:

- Retail Trade: 18.38% of workforce ($453.47)
- Healthcare and Social Assistance: 16.55% of workforce ($732.21)
- Manufacturing: 12.8% of workforce ($725.85)
• Public Administration: 11.29% of workforce ($594.69)
• Construction: 10.74% of workforce ($734.73)

The county, WNC and NC lists are quite similar, with variations in WNC stemming from its relative lack of manufacturing jobs and the regionally greater significance of the tourism industry, represented by the Accommodations and Food Service sector. Yancey County falls into this similarity with the main sources of workforce being retail, healthcare, manufacturing, public administration, and construction.

**Unemployment**
Throughout the period cited in the graph below (2007-2014) summarizes the annual unemployment rate in Yancey County. From this data it appears that the unemployment rate in Yancey County was higher than comparable figures for both WNC and NC as a whole throughout the period from 2007-2017. The graph below demonstrates the higher unemployment rate for Yancey County when compared to the state and regional levels, and the data points above the line representing Yancey County is the overall rate of unemployment for Yancey County in that specific year. The highest rate shown is 12% unemployment rate that was in 2010, as with the region and state Yancey County seen a decrease in unemployment rate after that.

It is important to note that a person is defined as unemployed if they:
• Had no employment during the week that includes the 12th of the month but were available at work
• Had made specific efforts to find employment during the four weeks prior
• We’re waiting to be recalled to a job from which they had been laid off
• We’re waiting to report to a new job within 30 days

**Education**
“Better educated individuals live longer, healthier lives than those with less education, and their children are more likely to thrive. This is true even when factors like income are taken into account” (County Health Rankings, 2018).
It is helpful to understand the level of education of the general population, and with what frequency current students stay in school and eventually graduate. Studies show that better educated individuals live longer, healthier lives than those with less education. Further, children of better educated individuals are more likely to thrive as well, even when factors like income are taken into account. More schooling is linked to many important factors that influence health – higher income, better employment options, increased social support, and increased support opportunities for healthier choices.

Higher levels of education can lead to a greater sense of control over one’s life, which is linked to better health, healthier lifestyles decisions, and fewer chronic conditions. Perhaps the greatest evidence for continuing education is connected to lifespan – on average, college graduates live nine more years than high school dropouts. These benefits of education trickle down to children as well; children whose mothers graduate from college are twice as likely to live past their first birthday, have decreased risk of cognitive development, decreased risk of tobacco and drug use, and lower risk of many chronic conditions. (CDC, CDC Community Health Improvement Navigator, 2015)

The first graph below illustrates the high school graduation rate with students entering the school year of 2013-2014 and graduating the school year of 2016-2017. All student’s graduation rate for Yancey County sits at 91.1% which is above the regional average of 88.4% and above the state average of 86.5%. Male graduation rate (91.1%) in Yancey County is lower than that of female graduation rate (>95.0%). Yancey County has an outstanding female graduation rate in the county and sits approximately 5.3% above both the state and regional rate. Males in Yancey County also have a much high graduation rate with a difference of 5%. The worst graduation rate is the economically disadvantaged, because with Yancey County in such a high rate of poverty as a whole it is quite worrisome that economically disadvantaged individuals only graduated high school at 90.5% from 2013-2014 to 2016-2017 which is lower than the total student population, males, and females.
The second graph shows the proficiency in End of Grade testing in Yancey County and compares it to the state and regional levels. The results from this chart are actually quite positive for Yancey County.

When comparing student populations the Hispanic population scores less than both the state and regional average at 42.7% compared to 48.1% and 51.6% respectively. The AI/AN populations actually score higher than the regional and the state average of being proficient on the EOG tests. Overall Yancey County (69.7%) beats out the region (63.2%) and also is better than the state (58.8%). The “White” student population scores higher (75.2%) than both the regional (67.1%) and state (71.1%) average. Overall the positive ratings show that the students in the county who stick with their studies actually do very well when being tested.

The dropout rate graph below shows that Yancey County in general has a lower dropout rate than the region and state average per year, with the only exception being in 2010-2011. The data points on the graph are the specific yearly dropout rates of Yancey County by year. The lowest experienced dropout rate was in the school year 2016-2017 of 1.11% which was below both the state and regional levels. This graph also shows the highest dropout rate experienced by Yancey County was (4.74%) in the school year of 2010-2011. Overall, this graph is encouraging in seeing that Yancey County has lowered its dropout rate every year, and it steadily below the region and state.

**Housing**

“The housing options and transit systems that shape our communities’ built environments affect where we live and how we get from place to place. The choices we make about housing and transportation, and the opportunities underlying these choices, also affect our health” (County Health Rankings, 2018).

Housing options shape our community; the choices we make about housing and the opportunities to make these choices affect our health. Housing structures protect residents
from weather while providing safe environments for families to live, learn, grow, and more. Unfortunately, houses and apartments can also be unhealthy and unsafe. Exposure to lead paint, improper insulation, the growth of mold and other indoor allergens all lead to unhealthy conditions.

Because the cost of housing is a major component of the overall cost of living for individuals and families it merits close examination. The table below presents housing costs as a percent of total household income, specifically the percent of housing units—both rented and mortgaged—for which the cost exceeds 30% of household income.

In Yancey County, the percentage of mortgaged housing units costing more than 30% of household income was 12.9% in the 2016, 32.0% in 2015, 32.3% in 2014, and 31.5% in 2013. This shows a steady decrease, with a significant drop-off in 2016. When comparing these numbers to both the state and the regional between the years of 2013-2016 Yancey County hovered around the same numbers as both the region and state numbers with the region and state also seeing a steep decline in the numbers in 2016. Yancey County has consistently had a higher rate of mortgaged housing that is greater than 30% of household income, until in 2016. The other graph below depicts the rented housing system and the percent of individuals that use greater than 30% of their household income on their rented housing. Yancey County reached a high of 44.9% in 2015-2016 when comparing this to the regional rate (44.2%) there is a 0.7% higher rate in Yancey County, and the state had a 0.9% higher rate than Yancey County at 45.8%. The data labels on the graph below specifically depict the numbers of Yancey County.

Housing is a substantial expense. In fact, a measure of economic burden in a community is the percent of housing units spending more than 30% of household income on housing. In Yancey County, Yancey County is about on par with the regional and state rates of renters spending greater than 30% of their income on housing, which presents a major burden for the state, region, and county.

**Family & Social Support**

“People with greater social support, less isolation, and greater interpersonal trust live longer and healthier lives than those who are socially isolated. Neighborhoods richer in social capital provide residents with greater access to support and resources than those with less social capital” (County Health Rankings, 2018). Social support stems from relationships – relationships with family members, friends, colleagues, neighbors, and acquaintances. All of these relationships protect physical and mental health while facilitating healthy behaviors and choices. Conversely, those without social support are at increased risk for poor health.
outcomes such as increased vulnerability to the effects of stress, cardiovascular disease, overeating, in adults, smoking in adults, and obesity in children. Social associations are a way to measure family and social support. Social associations are the number of membership associations (civic organizations, golf clubs, sports organizations, religious organizations, and more) per 10,000. In Yancey County, the social association rate is 12 for 2015, almost equal to the rate in the state of NC.

Another measure of family and social support is the percentage of children in family households that live in a household headed by a single parent. Adults and children in single-parent households are at risk for adverse health outcomes such as mental health problems (substance abuse, depression, suicide) and unhealthy behaviors smoking, excessive alcohol use). In Yancey County, 25% of children live in single parent households, compared to 36% as the state rate for NC.
**Mortality**

*Life expectancy* is the average number of additional years that someone at a given age would be expected to live if current mortality conditions remained constant throughout their lifetime. The table below presents a fairly recent summary of life expectancy for Yancey County, WNC, and NC as a whole. The overall life expectancy in Yancey County is 77.9 years. This is both slightly lower than that of WNC (77.7 years) and NC (77.4 years). For persons born in 2014-2016, life expectancy among comparator jurisdictions in longest among women (79.7) than men (76.2). From this data it appears that females born in Yancey County in the period cited could expect to live approximately 3.5 more years longer than males born at the same time. Similarly, females born in WNC in the period cited in the table could expect to live approximately 5 years longer on average than males born under the same parameters.

<table>
<thead>
<tr>
<th>Overall</th>
<th>Male</th>
<th>Female</th>
<th>White</th>
<th>African American</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yancey</td>
<td>77.9</td>
<td>77.7</td>
<td>76.275</td>
<td>74.8</td>
</tr>
<tr>
<td>WNC Region</td>
<td>77.4</td>
<td>79.7</td>
<td>80.4</td>
<td>79.9</td>
</tr>
<tr>
<td>North Carolina</td>
<td>74.8</td>
<td>78.1</td>
<td>78.0</td>
<td>78.3</td>
</tr>
<tr>
<td>Overall</td>
<td>76.2</td>
<td>78.0</td>
<td>74.9</td>
<td></td>
</tr>
</tbody>
</table>

The table below compares the mean rank order of the 15 leading causes of death in Yancey County and NC for the five-year aggregate period 2012-2016. (The causes of death are listed in descending rank order for Yancey County.) When looking at the data for Yancey County the top ten leading causes of death read as Cancer, Heart Disease, Chronic Lower Respiratory Diseases, Alzheimer’s Disease, All Other Unintentional Injuries, Cerebrovascular Disease, Diabetes Mellitus, Pneumonia and influenza, Unintentional motor vehicle injuries, and suicide. The bottom five causes of death Chronic Liver Disease and Cirrhosis, Nephritis, Septicemia, Homicide, and Acquired Immune Deficiency Syndrome. Yancey County’s two leading causes of death in Cancer (173.4%) and Heart Disease (169.4%) are both higher than the state’s totals of Cancer (166.5%) and Heart Disease (161.3%) death rates.
When comparing the death rates of Yancey County to the region and state as a whole there are a few things that stick out. First, the Cancer death rate between Yancey (173.4%) and the region (165.5%) / state (166.5%) rates show that Yancey County has approximately an eight percent higher death rate in both comparisons. Yancey County has a lower suicide rate at 17.1% than the regional rate (19.0%) and a higher suicide rate than the state rate (12.9%) with approximately a 2% lower rate from the region and a 4.9% increase than the state rate. Some lower rates for Yancey County when comparing to the region and the state rates were Liver Disease and Cirrhosis where Yancey County had a 9.3% death rate compared to the region’s rate of 13.6% and the state’s rate of 10.3%.
<table>
<thead>
<tr>
<th>Diseases of Heart</th>
<th>235</th>
<th>169.</th>
<th>164.</th>
<th>3.0%</th>
<th>161.</th>
<th>3</th>
<th>5.0%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homicide</td>
<td>3</td>
<td>3.2</td>
<td>4.1</td>
<td>-21.7%</td>
<td>6.2</td>
<td>-48.4%</td>
<td></td>
</tr>
<tr>
<td>Nephritis, Nephrotic Syndrome, and Nephrosis</td>
<td>12</td>
<td>8.6</td>
<td>14.6</td>
<td>-41.0%</td>
<td>16.4</td>
<td>-47.6%</td>
<td></td>
</tr>
<tr>
<td>Pneumonia and Influenza</td>
<td>29</td>
<td>20.3</td>
<td>17.4</td>
<td>16.4%</td>
<td>17.8</td>
<td>14.0%</td>
<td></td>
</tr>
<tr>
<td>Septicemia</td>
<td>10</td>
<td>7.7</td>
<td>9.0</td>
<td>-14.2%</td>
<td>13.1</td>
<td>-41.2%</td>
<td></td>
</tr>
<tr>
<td>Suicide</td>
<td>16</td>
<td>17.1</td>
<td>19.0</td>
<td>-9.9%</td>
<td>12.9</td>
<td>32.6%</td>
<td></td>
</tr>
<tr>
<td>Unintentional Motor Vehicle Injuries</td>
<td>16</td>
<td>18.9</td>
<td>15.5</td>
<td>21.6%</td>
<td>14.1</td>
<td>34.0%</td>
<td></td>
</tr>
<tr>
<td>All Causes (some not listed)</td>
<td>1,114</td>
<td>820.</td>
<td>0</td>
<td>7</td>
<td>2.4%</td>
<td>781.</td>
<td>8</td>
</tr>
</tbody>
</table>

**Health Status & Behaviors**

According to American’s Health Rankings, the state of NC ranked 32nd overall out of 50 United States of America (where #1 is the best). Bringing this closer to home, the 2016 County Health Rankings ranked Yancey County 42nd overall among 100 NC counties. In terms of health outcomes, Yancey County ranked:

- 64th in length of life (includes premature death)
- 28th in quality of life (includes poor or fair health, poor physical health days, poor mental health days, low birthweight)

In terms of health factors, Yancey County ranked:

- 15th in health behaviors (including adult smoking, adult obesity, physical inactivity, access to exercise opportunities, alcohol-impaired driving deaths, and more)
- 51st in clinical care (including uninsured, primary care physicians, dentists, mental health providers, mammography screenings, and more)
- 56th in social and economic factors (includes high school graduation, unemployment, children in poverty, social associations, violent crime, and more)
- 37th in physical environment (includes air pollution-particulate matter, drinking water violations, severe housing problems, and more)

Since Yancey County is ranked 30th of all counties in NC, there is much area to improve upon, especially in terms of health factors.

Much data was collected throughout the CHA process on self-reports health status. Only 13.7% of Yancey County residents that were surveyed stated that this county is a fair/poor place to live. Additionally, only 22.4% of residents stated that they experience “fair” or “poor” overall health. Finally, of those who reported that they were limited in activity in some way due to physical, mental, or emotional problems, most listed Other, back/neck problems, and arthritis as the main limiting factors.
Maternal and Infant Health
The pregnancy rate for Yancey County for women aged 15-44 years appears to have stayed consistently between the rates of 60 and 70 overall since 2012 to 2016 only spiking to 71.2% in 2015; similar to the pattern of WNC. However, the NC rate has consistently dropped every year cited (although it is higher than region and county), being 84.8 in 2006 decreasing to 70.8 in 2013 (falling 14 percent in 7 years) and then rising 2% back to approximately 72% from 2014-2016. The NC SCHS stratifies much of the pregnancy-related data it maintains into two age groups: ages 15-44 (all women of reproductive age) and ages 15-19 (“teens”).

This graph illustrates that the pregnancy rate for women (ages 15-44) in Yancey County was quite consistent, trending both below and above the mean WNC and NC rates over the period cited. The region and the state both remain consistent throughout this time while trending slightly down from the dates of 2006-2016. The WNC rate has relatively remained the same from 2012-2016 hovering around 62.5 percent. The North Carolina rate, although higher, has also relatively remained the same hovering around 72%. Among Yancey County women, in 2016 the data was not available for most pregnancy rates; however, white non-Hispanic pregnancy rate was at 59.3%.

Chronic Disease
Chronic disease is a prominent health concern in Yancey County, especially cardiovascular disease and cancer. The prevalence of heart disease mortality rate is very high in Yancey County in 2012-2016 (169.4%) close with the region (169.7%) and the state (163.7%). Cancer is the leading cause of death in Yancey County. The graph below shows the mortality rate for Cancer from 2012-2016 (173.4). The mortality rate has also been consistently higher or the same in Yancey County than the rates in both the Western North Carolina region and the state as a whole. Even though there has been slight decrease the graph overall represents a problematic area for Yancey County in both heart disease and cancer mortality.
Diabetes and heart disease go hand-in-hand. The prevalence of diabetes has decreased in Yancey County from 2012 to 2015 (11.8% to 6.2%). Once this decrease occurred, Yancey County then saw a rise in the prevalence in 2018 back up to 15.6% (a 9.4 point increase). While it increased in NC and the U.S. The prevalence in Yancey County is higher than Western North Carolina (15.6% vs. 14.4%) and is higher than the state total (15.6% vs. 11.3%).

The incidence rate in Yancey County seen an increase in the early 2000’s before seeing a slight decrease in the 2010’s. This could be due to increased cancer screenings in the county and the fact that we are better able to detect cancer with increased technology. The incidence in the state and region also increased over the years, and then the state and region also seen a slight decrease. Yancey County has hovered above the state and region in incidence rates over the years, however Yancey County is actually above the rate for the state and region between the years 2008-2012 and 2009-2013 before coming back to the region and state average in the years 2011-2015 and 2012-2016.

**Injury and Violence**

The leading causes of death for age group 0-19 was motor vehicle injuries with a death rate of 16.2%, followed by conditions originating in the perinatal period at 10.8%, and finally cancer at 5.4%. The next age group is 20-39 and this group’s leading cause of death is other unintentional injuries at a rate of 50.9%, second is diseases of the heart (22.6%), and third is motor vehicle injuries which is tied with suicide (17.0%). For the age group of 40-64 the leading cause of death matches that of the age group 65-84 with Cancer as the main cause of death. For the age group of 85+ the leading cause of death is heart disease.
## Yancey County

<table>
<thead>
<tr>
<th>Age Group</th>
<th>Rank</th>
<th>Leading Cause of Death</th>
<th># Deaths</th>
<th>Death Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>00-19</td>
<td>1</td>
<td>Motor vehicle injuries</td>
<td>3</td>
<td>16.2</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>Conditions originating in the perinatal period</td>
<td>2</td>
<td>10.8</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>Cancer - All Sites</td>
<td>1</td>
<td>5.4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Congenital anomalies (birth defects)</td>
<td>2</td>
<td>10.8</td>
</tr>
<tr>
<td>20-39</td>
<td>1</td>
<td>Other Unintentional injuries</td>
<td>9</td>
<td>50.9</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>Diseases of the heart</td>
<td>4</td>
<td>22.6</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>Motor vehicle injuries</td>
<td>3</td>
<td>17.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Suicide</td>
<td>3</td>
<td>17.0</td>
</tr>
<tr>
<td>40-64</td>
<td>1</td>
<td>Cancer - All Sites</td>
<td>65</td>
<td>208.2</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>Diseases of the heart</td>
<td>48</td>
<td>153.8</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>Other Unintentional injuries</td>
<td>17</td>
<td>54.5</td>
</tr>
<tr>
<td>65-84</td>
<td>1</td>
<td>Cancer - All Sites</td>
<td>145</td>
<td>784.9</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>Diseases of the heart</td>
<td>93</td>
<td>503.4</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>Chronic lower respiratory diseases</td>
<td>60</td>
<td>324.8</td>
</tr>
<tr>
<td>85+</td>
<td>1</td>
<td>Diseases of the heart</td>
<td>90</td>
<td>4314.5</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>Alzheimer's disease</td>
<td>57</td>
<td>2732.5</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>Cancer - All Sites</td>
<td>41</td>
<td>1965.5</td>
</tr>
</tbody>
</table>

### Mental Health and Substance Abuse

Mental health and substance abuse are key issues in Yancey County.

Findings from the 2018 PRC community health survey showed that 18% of respondents stated that they have had >7 days of poor mental health in the past month, which is a step back from 2015 (7.4%) showing that the rate has increased in that time span. This shows that the rate has varied in the past years with 2012 at 17.5%, 2015 at 7.4%, and then a large increase in 2018 at 18%.
7.4% of Yancey County residents surveyed said that they were unable to get mental health care or counseling in the past year (an increase from 3.0% in 2015).

Yancey County has unstable rates for all 5-year periods and therefore cannot report on the suicide rates for the county in this Community Health Assessment.

Substance abuse is also a major issue in Yancey County. It is identified as one of the three priority health issues.

Recent interviews with the Burnsville Chief of Police, Bakersville Chief of Police, Spruce Pine Chief of Police, Sheriffs Gary Banks and Donald Street, and a focus group of six deputies from Mitchell County and Yancey County confirm that both Mitchell and Yancey counties are experiencing increasing rates of drug related crime that it is compounded by the fact that other crimes (especially burglary) are a result of addicts attempting to get money/things to sell for drugs. Local law enforcement agencies and those from neighboring counties have cautioned “heroin is on our doorstep,” based on the rise in heroin deaths in our community.

**Oral Health**

61.6% of resident in Yancey County have visited a dentist or dental clinic in the past year (a decrease from 65.8% in 2015). This is the same as WNC and lower than NC (61.6% and 63.6%).

**Clinical Care and Access**

The passage and implementation of the Affordable Care Act strived to make insurance more accessible. With North Carolina failing to expand Medicaid, it has still made it difficult for some residents to obtain affordable access to health care. Access to health care increases access to preventive care, such as vaccinations and screenings. Preventative care is extremely
important and contributes greatly to the overall health of a community. As shows in the figure below Yancey County was above the regional rate but has recently gone below the regional rate of people under 65 uninsured, and stays consistently above the state rates. Yancey County seen a consistent decline in uninsured individuals from 2009 to 2015 decreasing from 21.9% to 13.5% in that time span. There was then a slight increase from 2015 to 2016 from 13.5% to 14.4%.

The table below shows the ratio of health care providers in Yancey County per a 10,000 population and compares it to both the regional and state totals. Yancey County has lower ratios of physicians in the county at 9.49 compared to 15.54 in the region, and 23.2 in the state. Primary care physicians are at 7.26 when the region is at 7.95 and the state is at 8.58. Dentists are at 2.23 with the region at 3.43 and state at 4.7. Registered Nurses see a dramatic decrease with 53.05 compared to the region 84.2 and the state 105.48. Pharmacists are also lower at 6.14 compared to 7.74 in the region and 10.6 in the state. This illustrates the narrative that Yancey County is vastly underserved.

Results from the PRC Community Health Survey show that 7.4% of Yancey residents surveyed were unable to get needed medical care in the past year compared to 12.3% in the WNC region. This is an increase from the 2015 survey when 3% of respondents said they were unable to get needed mental health care.
At Risk Populations
At-risk populations in Yancey County include minorities, un- and under-insured low-income residents, and those with unhealthy behaviors or activities.

<table>
<thead>
<tr>
<th>At-risk population</th>
<th>Health Condition/ Consequences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minorities</td>
<td>Diabetes, Substance Abuse, Cancer, Heart Disease</td>
</tr>
<tr>
<td>Un-and under-insured</td>
<td>Poor quality of healthcare, lower rates of preventative care, premature death, uncontrolled chronic disease, lower rates of early stage diagnosis</td>
</tr>
<tr>
<td>Low-income</td>
<td>Premature death, poor nutrition, inadequate preventative care, poor access to medical care, increased death from injuries</td>
</tr>
<tr>
<td>Residents who smoke</td>
<td>Cancer, COPD, Stroke</td>
</tr>
<tr>
<td>Residents who abuse substances</td>
<td>Overdose, Death</td>
</tr>
<tr>
<td>Residents who are obese/ overweight</td>
<td>Diabetes, Heart Disease, Hypertension, Stroke, Cancer</td>
</tr>
<tr>
<td>Residents who do not get enough Physical Activity</td>
<td>Obesity Overweight, Heart Disease, Cancer</td>
</tr>
<tr>
<td>Residents with poor nutrition</td>
<td>Obesity, Overweight</td>
</tr>
<tr>
<td>Elderly</td>
<td>Falls and other accidents</td>
</tr>
</tbody>
</table>
Air & Water Quality

“Clean air and safe water are prerequisites for health. Poor air or water quality can be particularly detrimental to vulnerable populations such as the very young, the elderly, and those with chronic health conditions. Clean air and water support healthy brain and body function, growth, and development. Air pollutants such as fine particulate matter, ground-level ozone, sulfur oxides, nitrogen oxides, carbon monoxide, and greenhouse gases can harm our health and the environment. Excess nitrogen and phosphorus run-off, medicines, chemicals, lead, and pesticides in water also pose threats to well-being and quality of life” (County Health Rankings, 2018).

As displayed in the graphs below, the prevalence of asthma in Yancey County in 2018 was 14.6% 3.2% higher than the regional total of 11.4%.

![Asthma Prevalence, 2018 Graph]

The 2018 prevalence of Chronic Obstructive Pulmonary Disease (COPD) was 12.9% in Yancey County. This is lower than the prevalence in Western North Carolina (13.9%), and higher than the prevalence in the state of North Carolina (7.3%). Issues related to air quality contribute to cases of both asthma and COPD and worsen the symptoms of existing cases.

![Prevalence of Chronic Obstructive Pulmonary Disease (COPD) Graph]

The average daily density of fine particulate matter in Yancey County is 13.1 PM/2.5 compared to the overall average of 12.2 PM/2.5 in North Carolina. (County Health Rankings, 2015) The mean has remained fairly steady with a slight decrease in the past few years.
Toxic Chemical Releases
Over 4 billion pounds of toxic chemicals are released into the nation’s environment each year. The US Toxic Releases Inventory (TRI) program, created in 1986 as part of the Emergency Planning and Community Right to Know Act, is the tool the EPA uses to track these releases. Approximately 20,000 industrial facilities are required to report estimates of their environmental releases and waste generation annually to the TRI program office. These reports do not cover all toxic chemicals, and they omit pollution from motor vehicles and small businesses (US Environmental Protection Agency, 2015). There is no data for the 2012 Toxic Release Inventory for Yancey County.

Radon is a colorless, odorless, radioactive gas that forms naturally from the decay of radioactive elements. (American Cancer Society, 2015) According to EPA estimates, radon exposure is the number one cause of lung cancer among non-smokers. If a smoker is exposed to radon, their chance of getting lung cancer increases (EPA, 2015). The average indoor radon level in Yancey County is 3.6 pCi/L, which is more than double the national average, but lower than the Western North Carolina arithmetic mean (4.1 pCi/L). The EPA’s recommended action level for radon exposure is greater than 4 pCi/L.

Water
Water is a fundamental human need and clean water is vital to human health. Access to clean water is crucial to not only our health, but our community and economy as well. In 2014, 5,055 (28.4%) of Yancey County citizens were served by community water systems with no
contaminate violations as compared to 54.9% of citizens in Western North Carolina. Many people in Yancey County access their water from wells or springs.

**Access to Healthy Food & Places**

“Food security exists when all people, at all times, have physical, social and economic access to sufficient, safe and nutritious food to meet their dietary needs and food preferences for an active and healthy life (Food and Agriculture Organization, 2006). The environments where we live, learn, work, and play affect our access to healthy food and opportunities for physical activity which, along with genetic factors and personal choices, shape our health and our risk of being overweight and obese. As of 2013, 29 million Americans lived in a food desert, without access to affordable, healthy food. Those with lower education levels, already at-risk for poor health outcomes, frequently live in food deserts” (County Health Rankings, 2018).

Healthy diet and physical activity are necessary aspects of a person’s overall health and well-being. Many diseases such as heart disease and diabetes are linked to poor food choices and inadequate physical activity. It is difficult for citizens to stay healthy if they do not have the physical or financial means to access places with healthy food choices and recreational facilities. There are four grocery stores and one farmer’s market that serve Yancey County’s 17,818 people. In 2018, 7.4% of individuals surveyed stated that it was often true for them to have worried in the past year about food running out before having money to buy more. 11.2% said it was sometimes true for them to worry about food running out before they had the money to buy more. Both of these numbers were an increase from 2015 where 5.3% stated it was often true and 8.4% said it was sometimes true.

<table>
<thead>
<tr>
<th></th>
<th>Often True</th>
<th>Sometimes True</th>
<th>Never True</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2015</strong></td>
<td>5.3%</td>
<td>8.4%</td>
<td>86.3%</td>
</tr>
<tr>
<td><strong>2018</strong></td>
<td>7.4%</td>
<td></td>
<td>81.4%</td>
</tr>
</tbody>
</table>

There are two recreational facilities, one fully complete facility and one gym. According to the results from the PRC Community Health Survey 21.7% of residents in Yancey County meet physical activity recommendaiton compared to 21.3% of the region and 18.9% of the state. Yancey is above both the region and state if only by a slight margin which is still a postivie takeaway.
Meets Physical Activity Recommendations, 2018

- Yancey: 21.7%
- WNC: 21.3%
- NC: 18.9%
- US: 22.8%
Health Resources

**Process**
To compile a Health Resource List, the CHA Work Team began by reviewing the Health Resource List developed during the 2015 CHA. Any outdated or incorrect information was edited and saved for future reference. The Team split the list into three categories:
- Health resources
- Supportive services
- Needed resources

Additionally, the CHA Facilitator met with the local community partners to compare our Health Resource List. Further additions and edits were made.

Finally, the CHA Facilitator compared all data gathered to the 2-1-1 dataset provided by WNC Healthy Impact. Further additions and edits were made and sent to the 2-1-1 coordinator so that the 2-1-1 online directory could be updated. In lieu of a printed directory, the CHA Work Team opted to focus on updating the 2-1-1 online directory for a number of reasons. The reasons are as follows:
- 2-1-1 is an easy to remember, three-digit telephone number that connects people with important community services to meet every day needs and the immediate needs of people in crisis.
- 2-1-1 is free, confidential, and available 24 hours a day.
- 2-1-1 can be accessed through the internet (www.nc211.org) or by calling 2-1-1 from any home, office or cell phone or the toll-free number of 1-888-892-1162.
- 2-1-1 can be updated in real-time, by sending updates to the 2-1-1 coordinator out of Asheville, NC.

Online/telephone directories such as 2-1-1 have an advantage over printed directories as they are accessible remotely, can be updated easily, and do not require printing costs.

**Findings**
In working with the 2015 Community Resource List and various community partners, the CHA Work Team updated the 2-1-1 Directory for Yancey County. Resources available to our residents can be found by visiting www.nc211.org or by calling 2-1-1. During this updating process, much was found in terms of available health resources and supportive services.

To begin, Yancey County has many health and supportive services in place for our children and older adults. One example would be our local Department of Social Services works closely
with all ages and demographics across the community, identifying their needs—whether they be housing-, insurance-, medical-, or else related—and assists the older adults in accessing these services.

Our community has access to many support groups (such as English as a Second Language, Weight Watchers, Abused Women Support Groups, etc.). Further, our community provides resources for those who are uninsured or under-insured (East Carolina University Dental Clinic, Bakersville Community Health Clinic (FQHC), Mission Hospital based Specialty Clinics held locally, and more). Finally, Yancey County offers a plethora of county services to its residents (Health Department, Animal Shelter, Senior Center, Recreation Department, Department of Social Services, Emergency Management, and more).

Resource Gaps

Though many resources are available, there are gaps that need to be filled so that Yancey County residents have adequate access to services. The following is a list of gaps identified through reviewing available resources, key stakeholder interviews, and listening sessions:

- **Affordable childcare**: High-quality, affordable childcare is a huge need in the community. Many parents have difficulty balancing work with childcare costs.
- **Affordable housing**: Few affordable housing options are available for residents, especially seniors.
- **Communication channels**: Living in a remote and isolated community, there needs to be more communication channels (newspapers, internet connectivity, radio stations, etc.).
- **Greenway system/sidewalks/fitness opportunities**: An extended, connected greenway would increase physical activity and active living opportunities for residents. Indoor and outdoor recreation facilities are in great need as well in order to increase physical activity among all ages and populations.
- **Healthy food options**: Healthy food options in the form of grocery stores, farm stands, etc. are needed to meet the needs of residents.
- **Medicaid expansion**: A large number of residents would benefit from Medicaid expansion.
- **Mental health services**: Services such as housing and treatment facilities would help those suffering from mental health issues. Helping our residents avoid incarceration or ED admittance is vital.
- **Access to health care (including specialty care)**: Residents have difficulty accessing healthcare due to a lack of providers accepting new patients, financial constraints, and more. Further, many residents travel out of county for subspecialty care (neurology, endocrinology, etc.) Often, residents don’t have the means to travel and go without care.
- **Food Security**: There are people in Yancey County who do not have to imagine or try to understand what it feels like to be without access to good food: this is their reality.
- **Free and Accessible Youth Programs**: Little opportunity exist for our children and youth in the community to keep them busy and steered away from boredom outside of school; to push down every day struggles of life and avoid addictive and destructive behavior. Our children need the community to provide more safe places, enjoyable opportunities, and resourceful services.
CHAPTER 8 – IDENTIFICATION OF HEALTH PRIORITIES

Health Priority Identification

**Process**
Every three years we pause our work to improve community health so that we may step back and take a fresh look at all of the current data from our county that reflects the health of our community. We then use this information to help us assess how well we’re doing, and what actions we need to take moving forward.

Beginning in 2018, our team spent time understanding the data and uncovering what issues were affecting the most people in our community. We also interviewed community leaders to find out what they’re most concerned about. To identify the significant health issues in our community, our key partners (see a full list in the Executive Summary) reviewed data and discussed the facts and circumstances of our community.

We used the following criteria to identify significant health issues:
- Data reflects a concerning trend related to size or severity
- Significant disparities exist
- Issue surfaced as a high community concern
- County data deviates notably from the region, state or benchmark

Once our team made sense of the data, we presented key health issues to a wide range of partners and community members. The participants used the information we presented to score each issue, and then vote for their top areas of concern. Some of the factors they considered were how much the issue impacts our community, how relevant the issue is to multiple health concerns, and how feasible it is for our community to make progress on this issue.

This process, often called health issue prioritization, is an opportunity for various community stakeholders, such as Blue Ridge Regional Hospital and Yancey County Health Department to agree on which health issues and results we can all contribute to, which increases the likelihood that we’ll make a difference in the lives of people in our community.

**Identified Issues**
During the above process, the Healthy Yancey Committee identified the following health issues or indicators:
• **Chronic Disease**: The rates of chronic diseases are elevated in Yancey County. Heart disease, respiratory disease, Alzheimer’s, and hypertension are all diseases that impact many residents in the county. There is also a high prevalence of risk factors that lead to chronic disease in Yancey County.

• **Cancer**: All types of cancer affect residents of various ages throughout the county and incidence of cancer is increasing.

• **Substance Abuse**: Our community is experiencing high prescription and recreational drug use as well as alcohol use. This leads to unhealthy behaviors and lifestyle choices that could result in higher rates of chronic disease and mortality in our community.

• **Health Behavior/ Lifestyles**: Many unhealthy behaviors and lifestyle choices such as obesity, poor nutrition, physical inactivity and tobacco use are leading to diseases and increasing morbidity and mortality rates.

• **Access to Healthcare**: Many residents are un- or underinsured, which makes it difficult to get the healthcare they need, especially regular check-ups and preventative care. Many also lack the transportation needed to get medical care.

• **Mental Health**: Availability of mental health services in sparse in Yancey County. Elevated rates of substance abuse in the community make it necessary for mental health services to be readily available and easy to access without stigma.

• **Positive Activities for Youth/ Teenagers**: Yancey County lacks a sufficient source of positive activities for youth and teenagers to participate in after school or on the weekends.

• **Social Determinants of Health**: Social aspects play a huge role in healthy citizens. Employment, poverty, education, income, and lack of resources are all issues in Yancey County that need improvement in order to improve the health of its citizens.

• **Availability of Employment**: Yancey County has a lack of job opportunities for the citizens that reside in here.

• **Maternal and Infant Health**: It is important that expectant mothers exhibit good nutrition and a healthy lifestyle and that should continue for the mother and infant after birth. Our community needs to improve on providing support for expectant mothers and infants. The teen pregnancy rate in Yancey County is an issue with the rate being higher than WNC and NC.

• **Sexually Transmitted Disease/ Unintended Pregnancy**: Yancey County has a high rate of STD transmission and unintended pregnancy among the community creating a concern for the stakeholders.

• **Injury and Violence**: Yancey County’s stakeholders want to lower the rate of injury and violence that the county sees.
Priority Health Issue Identification

Process
During our group process, the following criteria were applied to the issues listed above to select priority health issues of focus for our community over the next three years:

- Criteria 1 – Relevant – How important is this issue? *(Urgency to solve problem; community concern; Focus on equity; Linked to other important issues)*
  - Size of the problem (number of population affected)
  - Community concern

- Criteria 2 – Impactful – What will we get out of addressing this issue? *(Availability of solutions/proven strategies; Builds on or enhances current work; Significant consequences of not addressing issue now)*
  - Groups of people affected (are all people affected? Specific groups?)
  - Urgency to solve the problem

- Criteria 3 – Feasible – Can we adequately address this issue?
  - Availability of resources (staff, community partners, time, money, equipment) to address the issue; Political capacity/will; Community/social acceptability; Appropriate socio-culturally; Can identify easy, short-term wins
  - Availability of solutions/ proven strategies
  - Support system
  - Ethical
  - Political capacity/ will

Members from the CHA team reviewed data from the top ten identified health issues during a community meeting. They ranked those health issues based on the above criteria (magnitude, seriousness, feasibility) and voted anonymously on which issues should be a top priority.

Identified Priorities
The following priority health issues are the final community-wide priorities for our county that were selected through the process described above:

1. Substance Abuse Prevention- Substance abuse has been an ongoing issue in Yancey County for quite some time. Substance abuse prevention and increasing availability/access of mental health services was listed as a health priority in the 2015, 2013, and the 2009 CHA’s. Although there has been great progress, the CHA committee believes that continuous and expanded efforts need to be made to lower the rates of illicit drug use, prescription drug abuse, increase availability of mental health services, increase positive youth activity, and continue the fight against tobacco.

2. Healthy Living Behaviors- Preventative health measures are extremely important for individual health and community health. Preventative health care measures stop some chronic diseases and reduce healthcare spending costs for the community. Primary prevention is the most effective type of prevention. Health living behaviors and lifestyles was a health priority of the 2015 and 2013 CHA. Yancey County has a high prevalence of heart disease, respiratory disease, cancer, and other chronic diseases. The committee also would like to see improvement be made to unintended pregnancy rates, as well as sexually transmitted infections.
3. **Social Determinants**—Social determinants of health are conditions in the environment 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 (Healthy People 2020). Yancey County’s employment rates, poverty levels, education, income, and lack of resources are all social aspects that can affect the health and wellness of its citizens. One addition the committee wants to see change in is access to healthcare. This is of vital importance because Yancey County as a whole has low access to healthcare and being able to provide this to the community will help their health in multiple ways.
PRIORITY ISSUE #1: SUBSTANCE ABUSE PREVENTION

Substance abuse prevention and increasing availability/access to mental health services is an ongoing issue in Yancey County. Both substance abuse prevention and increasing mental health services were identified as top health priorities in the 2013 and 2015 CHA, while increasing mental health services was a top priority in the 2009 CHA. Substance abuse refers to a set of related conditions associated with the consumption of mind- and behavior-altering substances that have negative behavioral and health outcomes. Social attitudes and political and legal responses to the consumption of alcohol and illicit drugs make substance abuse one of the most complex public health issues. Substance abuse can include a number of substances, including alcohol, prescription drugs, and illicit drugs. Yancey County hosts annual Drug-Take Back Days and has drug drop-boxes placed throughout the county. There is also a part-time Substance Abuse Coordinator for a two-county area (Mitchell and Yancey Counties). Improvement has been made on preventing substance abuse and increasing mental health services, but much more is to be done. This was chosen as a health priority due to the concern about abuse of illegal drugs among residents and misuse of prescription drugs among teens and adults.

What Do the Numbers Say?

Health Indicators
When asked if they have used opioids in the past year with or without a prescription 11.8% of Yancey County residents said that they had. This is compared to 19.6% of the Western North Carolina Rate. This is clearly an important issue regarding the use of opioids in our community, because with 11.8% of the population using with or without a prescription shows how imbedded opioids are in Yancey County.
48% of Yancey County residents stated that their life has been negatively affected by Substance Abuse in some way. This is problematic as the drug problem has lowered the quality of life around the county and the citizens that live in it. This is compared to 47.4% of Western North Carolina and 37.3% in the United States, obviously this is a problem as Yancey County’s rates are higher than that of the region and state.

![Life Has Been Negatively Affected by Substance Abuse (by Self or Someone Else) (2018)](image)

The rate of unintentional medication/drug overdoses is elevated in Yancey County for many substances. The overdose rate for other opioids was 33.3% as compared to 38.2% in the WNC region and 31.4% in the state. The overdose rate for methadone was quite alarming at 41.7% as compared to 22% in the region and 16.8% in the state. The methadone overdose rate for Yancey County is more than twice the state rate. The overdose rate for alcohol in Yancey County (8.3%) is slightly greater than the state total (7.9%). The overdose rate for other drugs such as other synthetics, benzodiazepine, cocaine, and heroine are also worrisome for Yancey County, but less than regional and state rates (Medication and Drug Poisoning 2009-2013).

![Unintentional Medication/Drug Overdoses, by Agent (2009-2013)](image)

The number of current drinkers has been consistent from 2012-2018 from 36.2% (2012) to 36.2% (2015) and a slight decrease to 33.0% (2028) in Yancey County. This 2018 rate is lower than the region (45.8%), state (49.1%), and national (55.0%) rates. It is of positive note to see Yancey County see a consistent rate of current drinkers, with a slight decrease in 2018 and stay below the region, state, and national levels.
What Did the Community Say?
The community was surveyed and 8.4% stated that at some point during the day they breathe someone else’s smoke at work. This is 8.6% lower than the regional rating of 17.0%.

When asked about social/emotional support, Yancey County residents responded that 86.1% of them always or usually get social and emotional support. This has increased slightly since 2015 when 83.1% responded that they always or usually get social/emotional support (Professional Research Consultants, Inc, 2015)

Specific Populations At-Risk
While all residents in Yancey County can benefit from strategies that prevent substance abuse and improve access to mental health services, the counties’ youth could possibly benefit the most. Many young people think that prescription drugs are safer than illegal drugs because they are prescribed by a physician, dispensed by a pharmacist, and manufactured by pharmaceutical companies (SAMHSA 2015). According to results from the 2015 Youth Risk Behavior Survey conducted in Yancey County schools, 142 of 489 (29.04%) respondents said
they had drunk alcohol and 15.29% said they had tried marijuana, and 6.79% said they had taken a prescription drug without a doctor’s permission. (YRBS 2015).

**What is Already Happening?**
- Some resources to address substance abuse and increased availability/access to mental health resources are already in place in our community. Yet there are opportunities to increase these resources to meet the needs of the population. A list of resources is as follows:

<table>
<thead>
<tr>
<th>Organization</th>
<th>Primary Focus or Function</th>
<th>Website or Contact Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Project Lazarus</strong></td>
<td>Believes that communities are ultimately responsible for their own health and that every drug overdose is preventable.</td>
<td><a href="http://www.projectlazarus.org">www.projectlazarus.org</a></td>
</tr>
<tr>
<td><strong>Yancey County Schools</strong></td>
<td>Provides a safe and nurturing environment to empower all students to achieve their full potential as life-long learners and global citizens.</td>
<td><a href="http://www.yanceync.net">www.yanceync.net</a></td>
</tr>
<tr>
<td><strong>Yancey County Sheriff’s Department</strong></td>
<td>Enforcing the laws of North Carolina and Yancey County</td>
<td><a href="http://www.yanceycountync.gov/sheriffs-department">www.yanceycountync.gov/sheriffs-department</a></td>
</tr>
<tr>
<td><strong>Yancey County Cooperative Extension</strong></td>
<td>Partners with communities to deliver education and technology that enrich the lives, land, and economy of North Carolinians</td>
<td><a href="http://www.yancey.ces.ncsu.edu/about/">www.yancey.ces.ncsu.edu/about/</a></td>
</tr>
<tr>
<td><strong>Blue Ridge Regional Hospital</strong></td>
<td>Identify and respond to the health and wellness needs of the region, partnering with patients, families and friends through a comprehensive approach to healing that ministers the mind, body and spirit.</td>
<td><a href="http://www.blueridgehospital.org">www.blueridgehospital.org</a></td>
</tr>
<tr>
<td><strong>Partners Aligned Towards Health</strong></td>
<td>Collaborating effort that involves, educates, and unites the community for the design and implementation of strategies that will improve the health of children now and in the future</td>
<td></td>
</tr>
</tbody>
</table>
| **Local Pharmacies/Pharmacist**     | Plays a key role in helping and assisting concerned citizens understand what can be done to create awareness and prevention in the community.                                                                  | Mechelle Akers  
familyakers@hotmail.com                                                 |
| **AMY Regional Library System**     | To help communities create and maintain a foundation for literacy, economic development and democracy                                                                                                               | www.amyregionallibrary.org                                          |
| **Coalition and Groups**            |                                                                                                                                                                                                                         |                                                                     |
| **Healthy Yancey** | Partnering with concerned citizens working together to improve the quality of health for all people in Yancey County. | [http://healthyyancey.org/healthy-yancey/](http://healthyyancey.org/healthy-yancey/) |
| **Community Volunteers** | To create, nurture, and sustain the well-being of the community on so many levels | n/a |
PRIORITY ISSUE #2:
HEALTHY LIVING BEHAVIORS

Healthy living behaviors/lifestyles and chronic disease prevention go hand in hand. Healthy living behaviors/lifestyles was also a health priority in the 2015 CHA. It is important to adapt healthy behaviors and lifestyles to prevent diseases from occurring. Primary prevention is the most effective form of prevention. Yancey County has a high prevalence and incidence of many chronic diseases such as heart disease, stroke, diabetes, respiratory diseases and cancer. It is important to combat these diseases to promote the health and well-being of the citizens of our County.

What Do the Numbers Say?

Health Indicators
According to the 2018 PRC Community Health Survey, 21.7% of Yancey County residents meet physical activity recommendations. This percentage is higher than the WNC region and the state (21.3%% and 18.9%% respectively). Yancey County seen a steep decline in physical activity recommendations from 2015 when 57.2% stated they meet activity recommendations and in 2018 21.7% of Yancey County stated they meet the recommendations a 35.5% decline. When you are not physically active, you increase your chances of heart disease, type II diabetes, high blood pressure, high blood cholesterol, and stroke (USDA ChooseMyPlate, 2018).

<table>
<thead>
<tr>
<th>Meet Physical Activity Recommendations, 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yancey</td>
</tr>
<tr>
<td>21.7%</td>
</tr>
</tbody>
</table>
3.9% of Yancey County residents stated that they consume five or more servings of fruits and vegetables per day. This is a decrease from 4.9% in the year 2015. Yancey County is 2.6% lower than the regional total that consumes five or more servings of fruits and vegetables per day. Obviously eating healthy is of vital importance when discussing a healthy lifestyle and lowering the risk of high blood pressure, diabetes, and other chronic issues.

According to the 2018 PRC Community Health Survey, the prevalence of heart disease (7.2%) is lower in Yancey County than in WNC (8.0%) and the US (8.0%). Yancey County seen an increase of prevalence of Heart Disease in the county from 2015 to 2018 a rise from 6.5% to 7.2%.
High blood pressure prevalence is also high in Yancey County at 37.6% even though it is lower at 39.2% in WNC and higher than NC at 35.2%. Yancey County seen a 2.8% decrease from 2015 (40.4%) to 2018 (37.6%). High blood pressure is a major risk factor for heart disease (Professional Research Consultants, Inc, 2018).

What Did the Community Say?

Understanding the Issue
As shown in the figures below, cancer incidence and mortality rates differ throughout Yancey County. The incidence rates are higher near Pensacola. The cancer mortality rates in Yancey County are higher near the areas of higher population like the town of Burnsville. Though there is not cure for cancer, it is important to take measures to prevent it.

Specific Populations At-Risk
All residents in Yancey County can benefit from strategies that focus on preventative health care measures. There are many risk behaviors such as inactivity, poor nutrition, and tobacco use that can cause a greater risk of chronic diseases. Other vulnerable populations may include low-income residents and the un- or under-insured. These residents have issues with accessing health care on a regular basis. They are the populations who may not get regular check-ups, screenings and vaccinations, all of which are crucial to preventing chronic diseases.
What is Already Happening?

- Some resources to address substance abuse and increased availability/access to mental health resources are already in place in our community. Yet there are opportunities to increase these resources to meet the needs of the population. A list of resources is as follows:

| Organization                          | Primary Focus or Function                                                                                                                                                                                                                                                                                                                                 | Website or Contact Information                                           |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Yancey County Health Department       | Dedicated to protect and improve health conditions of people and maintaining a healthy environment in Yancey County; enabling them to be healthy by working through an organized community effort focusing on: health promotion, disease prevention, education and awareness, access to and provision of care, and quality and value of life.                                                                                                   | www.toeriverhealth.org                                                   |
| Partners Aligned Towards Health       | Collaborating effort that involves, educates, and unites the community for the design and implementation of strategies that will improve the health of the children now and in the future.                                                                                                                                                                           | www.healthyyancey.org/graheim-childrenens                                |
| Blue Ridge Regional Hospital          | Identify and respond to the health and wellness needs of the region, partnering with patients, families and friends through a comprehensive approach to healing that ministers the mind, body and spirit.                                                                                                                                            | www.blueridgehospital.org                                                |
| MY Healthy-E-Schools Initiative       | Allows school nurses to contact ill students with health care providers. School-based health centers have been shown to improve attendance and reduce barriers to learning. MY Health-e-Schools increases classroom attendance for students and decrease time spent away from work for the parent or caregiver of the student.                                           | http://crhi.org/MY-Health-e-Schools/index.html                           |
| Coalitions/Groups                     |                                                                                                                                                                                                                                                                                                                                                          |
| Health Yancey                         | Partnering with concerned citizens working together to improve the quality of health for all people in Yancey County.                                                                                                                                                                                                                              | www.healthyyancey.org/health-y-yancey/                                  |
PRIORITY ISSUE #3:
SOCIAL DETERMINANTS OF HEALTH

Health is not just physical; social aspects are involved as well. Access and assistance for low-income households to healthcare was a priority on the 2015 CHA with a focus on lack of healthcare, insurance, and everyday items to survive. Access to healthcare has now been a priority on the 2013, 2015, and 2018 Community Health Assessments with social determinants of health being added to the most recent. Employment rate, poverty level, amount of education and income, and lack of resources needed all play a role in the health status of citizens. Availability of resources to meet daily needs such as food and clean water are a necessity to not only surviving, but also having good health. It is also important for citizens to have education job opportunities in order to make livable wages to be able to afford healthcare, food, and transportation.

What Do the Numbers Say?

Health Indicators

Limited in Activities in Some Way Due to a Physical, Mental, or Emotional Problems

<table>
<thead>
<tr>
<th></th>
<th>2012</th>
<th>2015</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yancey</td>
<td>31.5%</td>
<td>26.4%</td>
<td>27.6%</td>
</tr>
<tr>
<td>WNC</td>
<td>28.1%</td>
<td>28.1%</td>
<td>30.7%</td>
</tr>
<tr>
<td>NC</td>
<td>21.2%</td>
<td>21.2%</td>
<td>21.6%</td>
</tr>
<tr>
<td>US</td>
<td>17.0%</td>
<td>21.5%</td>
<td>25.0%</td>
</tr>
</tbody>
</table>

Lack of Healthcare Insurance Coverage

<table>
<thead>
<tr>
<th></th>
<th>2012</th>
<th>2015</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yancey</td>
<td>27.9%</td>
<td>20.1%</td>
<td>19.2%</td>
</tr>
<tr>
<td>WNC</td>
<td>23.7%</td>
<td>19.6%</td>
<td>19.8%</td>
</tr>
<tr>
<td>NC</td>
<td>17.7%</td>
<td>24.2%</td>
<td>17.1%</td>
</tr>
<tr>
<td>US</td>
<td>14.9%</td>
<td>15.1%</td>
<td>13.7%</td>
</tr>
</tbody>
</table>
When asked if they were limited in activities in some way due to a physical, mental, or emotional problem, 27.6% of Yancey County residents responded that they were. This is less than WNC (30.7%) and greater than NC (21.6%). Many citizens in Yancey County are un- or under-insured. In the 2018 PRC Community Health Survey, 19.2% of respondents in Yancey County said that they lack healthcare insurance coverage. This is less than WNC (19.8%) and more than NC (17.1%), but still alarmingly high. The healthy people 2020 target is to have 0% of adults 18-64 lacking healthcare insurance coverage. It is difficult for residents to attain the medical care they need without health insurance (Professional Research Consultants, Inc., 2018)

What Did the Community Say?

Understanding the Issue
Although many citizens of Yancey County regularly see a physician for regular, preventative visits, many do not as well. 86.5% of surveyed citizens in the county responded that they have a specific source of ongoing medical care. The Healthy People 2020 target is 95% or higher. Also, only 76.9% of Yancey County citizens responded that they had visited a physician for a checkup in the past year. This is more than the percentage in both WNC (73.3%) and NC (74.6%). It is very important to maintain regular medical care to prevent chronic disease (Professional Research Consultants, Inc, 2018).
Food insecurity affects many citizens of Yancey County, especially those with no transportation, low-income residents, and the elderly. 11.5% of those surveyed in the PRC Community Health survey said that members of the household cut the size of meals or skipped meals because there wasn’t enough money for food last year.

**Specific Populations At-Risk**
Although social determinants of health, affects all residents, many subgroups are impacted in a more harmful way. Low-income and un- or under-insured residents often have a hard time with keeping up with regular visits to their physician or dentist. If they do not keep up with preventative screening and vaccines, it puts them at a higher risk for developing chronic diseases. Low-income and food insecure residents often have issues accessing places that provide healthy foods due to lack of funds or transportation issues.

**What is Already Happening?**
- Some resources to address substance abuse and increased availability/access to mental health resources are already in place in our community. Yet there are opportunities to increase these resources to meet the needs of the population. A list of resources is as follows:

<table>
<thead>
<tr>
<th>Organization</th>
<th>Primary Focus or Function</th>
<th>Website or Contact Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yancey County DSS</td>
<td>Respectfully assist families and individuals by helping them maintain, and/or enhance their quality of life; to prevent abuse, neglect, and exploitation of vulnerable people in the community</td>
<td><a href="http://yanceycountync.gov/social-services">http://yanceycountync.gov/social-services</a></td>
</tr>
<tr>
<td>Yancey County Health Department</td>
<td>Dedicated to protect and improve health conditions of people and maintaining a healthy environment in Yancey County; enabling them to be healthy by working through an organized community effort focusing on: health promotion, disease prevention, education and awareness, access to and provision of care, and quality and value of life.</td>
<td><a href="http://www.toeriverhealth.org">www.toeriverhealth.org</a></td>
</tr>
<tr>
<td>Yancey County Senior Citizen’s Center</td>
<td>Promote quality of life and successful aging for the senior citizen population of Yancey County.</td>
<td><a href="http://main.nc.us/yancey/ycsc.htm">http://main.nc.us/yancey/ycsc.htm</a></td>
</tr>
<tr>
<td>Yancey County Cooperative Extension</td>
<td>Partners with communities to deliver education and technology that enrich the lives, land, and economy of North Carolinians</td>
<td><a href="http://www.yancey.ces.ncsu.edu/about/">www.yancey.ces.ncsu.edu/about/</a></td>
</tr>
<tr>
<td>MY Health-E-Schools</td>
<td>Allows school nurses to contact ill students with health care providers.</td>
<td><a href="http://crhi.org/MY-Health-E-Schools/index.html">http://crhi.org/MY-Health-E-Schools/index.html</a></td>
</tr>
<tr>
<td><strong>Schools</strong></td>
<td><strong>Mitchell-Yancey Partnership for Children</strong></td>
<td>Enhance the lives of children birth to five and their families, through collaborative efforts that provide expanded and continuing opportunities for optimal growth and development.</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td><strong>Coalitions/Groups</strong></td>
<td><strong>AMY Regional Library System</strong></td>
<td>To help communities create and maintain a foundation for literacy, economic development and democracy</td>
</tr>
<tr>
<td><strong>Healthy Yancey</strong></td>
<td>Partnering with concerned citizens working together to improve the quality of health for all people in Yancey County.</td>
<td><a href="http://www.healthyyancey.org/healthy-yancey/">www.healthyyancey.org/healthy-yancey/</a></td>
</tr>
</tbody>
</table>
Collaborative Planning
Collaborative planning with hospitals and other community partners will result in the creation of a community-wide plan that outlines what will be aligned, supported and/or implemented to address the priority health issues identified through this assessment process.

Sharing Findings
The final Community Health Assessment will be shared specifically with the following stakeholders:
- Present to the Toe River Health District Board of Health
- Present to the Yancey County Board of Commissioners
- Present to the Healthy Yancey Health Partnership
- Distribution to Yancey County School Administration
- Distribution to doctors and nurses at Blue Ridge Regional Hospital
- Distribution to Yancey County Senior Center
- Post on local radio station website www.wkyk.com and www.healthyvancey.org
- Conduct a Public Services Announcement with the local radio station
- Publish on the monthly Health Page and posted on the local newspapers websites: www.yanceytimesjournal.com
- Make available on local agency websites and local libraries in Burnsville

Where to Access this Report
Information here from your dissemination plan about where the report will be located, in person and online.
- WNC Health Network website
- www.toeriverhealth.org
- Local library

For More Information and to Get Involved
Visit www.toeriverhealth.org or contact Yancey County Health Department at (828) 682-6118.
WORKS CITED

Primary Data:
- WNCHN – Online Key Informant Survey, 2018
- WNCHN – WNC Health Impact Community Health Survey, 2018

Secondary Data:


- 2012-2016 Race-Specific and Sex-Specific Age-Adjusted Death Rates by County (CD21B). Retrieved on June 22, 2018, from North Carolina State Center for Health Statistics (NC SCHS), 2018 County Health Data Book website: https://schs.dph.ncdhhs.gov/data/databook/


- 2012-2016 Race-Specific and Sex-Specific Age-Adjusted Death Rates by County (CD21B). Retrieved on June 25, 2018, from North Carolina State Center for Health Statistics (NC SCHS), 2018 County Health Data Book website: https://schs.dph.ncdhhs.gov/data/databook/

2012-2016 Race-Specific and Sex-Specific Age-Adjusted Death Rates by County (CD21B). Retrieved on June 25, 2018, from North Carolina State Center for Health Statistics (NC SCHS), 2018 County Health Data Book website: https://schs.dph.ncdhhs.gov/data/databook/


APPENDICES

Appendix A – Data Collection Methods & Limitations

Appendix B – Data Presentation
  • Data Presentation Slides

Appendix C – County Maps

Appendix D – Survey Findings
  • WNC Healthy Impact Survey Instrument
  • Community Health Survey Results

Appendix E – Key-Informant Survey Findings
APPENDIX A - DATA COLLECTION METHODS & LIMITATIONS

Secondary Data from Regional Core

Secondary Data Methodology
In order to learn about the specific factors affecting the health and quality of life of residents of WNC, the WNC Healthy Impact data workgroup and data consulting team identified and tapped numerous secondary data sources accessible in the public domain. For data on the demographic, economic and social characteristics of the region sources included: the US Census Bureau; Log Into North Carolina (LINC); NC Department of Health and Human Services; NC Office of State Budget and Management; NC Department of Commerce; Employment Security Commission of NC; UNC-CH Jordan Institute for Families; NC Department of Public Instruction; NC Department of Justice; NC Division of Medical Assistance; NC Department of Transportation; and the Cecil B. Sheps Center for Health Services Research. The WNC Healthy Impact data consultant team made every effort to obtain the most current data available at the time the report was prepared. It was not possible to continually update the data past a certain date; in most cases that end-point was August 2018.

The principal source of secondary health data for this report was the NC State Center for Health Statistics (NC SCHS), including its County Health Data Books, Behavioral Risk Factor Surveillance System, Vital Statistics unit, and Cancer Registry. Other health data sources included: NC Division of Public Health (DPH) Epidemiology Section; NC Division of Mental Health, Developmental Disabilities and Substance Abuse Services; the Centers for Disease Control and Prevention; National Center for Health Statistics; NC DPH Nutrition Services Branch; and NC DETECT.

Environmental data was gathered from sources including: US Environmental Protection Agency; US Department of Agriculture; and NC Department of Environment and Natural Resources.

Because in any CHA it is instructive to relate local data to similar data in other jurisdictions, throughout this report representative county data is compared to like data describing the 16-county region and the state of NC as a whole. The WNC regional comparison is used as “peer” for the purposes of this assessment. Where appropriate and available, trend data has been used to show changes in indicators over time.

It is important to note that this report contains data retrieved directly from sources in the public domain. In some cases, the data is very current; in other cases, while it may be the most current available, it may be several years old. Note also that the names of organizations, facilities, geographic places, etc. presented in the tables and graphs in this report are quoted exactly as they appear in the source data. In some cases, these names may not be those in current or local usage; nevertheless, they are used so readers may track a particular piece of information directly back to the source.

WNC Healthy Impact Survey (Primary Data)

Survey Methodology
The 2018 WNC Healthy Impact Community Health Survey was conducted from March to June. The purpose of the survey was to collect primary data to supplement the secondary core dataset, allow individual counties in the region to collect data on specific issues of concern, and hear from community members about their concerns and priorities. The survey was conducted throughout the entire WNC Healthy Impact region, which includes the following 16 counties: Buncombe, Cherokee, Clay, Graham, Haywood, Henderson, Jackson, Macon, Madison, McDowell, Mitchell, Polk, Rutherford, Swain, Transylvania and Yancey.

Professional Research Consultants, Inc. (PRC) designed and implemented the survey methodology, which included a combination of telephone (both landline and cell phone) interviews, as well as an online survey. The survey methodology was designed to achieve a representative sample of the regional
population that would allow for stratification by certain demographic characteristics, while also maximizing data collection timeliness and efficiency. Survey sampling and implementation methodology is described in greater detail below.

**Survey Instrument**
The survey instrument was developed by WNC Healthy Impact’s data workgroup, consulting team, and local partners, with assistance from PRC. Many of the questions were derived from the CDC Behavioral Risk Factor Surveillance System (BRFSS) and other validated public health surveys. Other questions were developed specifically by WNC Healthy Impact, with input from regional and local partners, to address particular issues of interest to communities in western North Carolina. Each county was given the opportunity to include three additional questions of particular interest to their county, which were asked only of their county’s residents.

**Sampling Approach & Design**
PRC designed the survey methodology to minimize sample bias and maximize representativeness by using best practice random-selection sampling techniques. They also used specific data analysis techniques, including post stratification, to further decrease sample bias and account for underrepresented groups or nonresponses in the population. Post stratification involves selecting demographic variables of interest within the population (here, gender, age, race, ethnicity, and poverty status) and then applying “weights” to the data to produce a sample which more closely matches the actual regional population for these characteristics. This technique preserves the integrity of each individual's responses while improving overall representativeness. In order to determine WNC regional estimates, county responses were weighted in proportion to the actual population distribution to appropriately represent Western North Carolina as a whole. Since the sample design and quality control procedures used in the data collection ensure that the sample is representative, the findings may be generalized to the region with a high degree of confidence.

**Survey Administration**
PRC piloted the survey through 30 interviews across the region and consulted with WNC Health Network staff to resolve substantive issues before full implementation. PRC used trained, live interviewers and an automated computer-aided telephone interviewing system to administer the survey region-wide. Survey interviews were conducted primarily during evening and weekend hours, with some daytime weekday attempts. Interviewers made up to five call attempts per telephone number. Interviews were conducted in either English or Spanish, as preferred by respondents. The final sample included 29 percent cell phone-based survey respondents and 71 percent landline-based survey respondents. Including cell phone numbers in the sampling algorithm allowed better representation of demographic segments that might otherwise be under sampled in a landline-only model.

PRC also worked with a third-party provider to identify and invite potential respondents for an online survey for a small proportion (20%) of the sample population. The online survey was identical to the telephone survey instrument and allowed better sampling of younger and more urban demographic segments.

**About Yancey County Sample**

**Size:** The total regional sample size was 3,265 individuals age 18 and older, with from our county. PRC conducted all analysis of the final, raw dataset. 2,602 surveys were completed via telephone (landline [71%] and cell phone [29%]); while 663 were completed online for Yancey County specifically.

**Sampling Error:** For our county-level findings, the maximum error rate at the 95% confidence level is Expected Error Ranges for a Sample of Respondents at the 95 Percent Level of Confidence
Examples:

- If 10% of a sample of 200 respondents answered a certain question with a "yes," it can be asserted that between 5.8% and 14.2% (10% ± 4.2%) of the total population would offer this response.
- If 50% of respondents said "yes," one could be certain with a 95 percent level of confidence that between 43.1% and 56.9% (50% ± 6.9%) of the total population would respond "yes" if asked this question.

Characteristics: The following chart outlines the characteristics of the survey sample for our county by key demographic variables, compared to actual population characteristics from census data. Note that the sample consists solely of area residents age 18 and older.
**Benchmark Data**

**North Carolina Risk Factor Data**
Statewide risk factor data are provided where available as an additional benchmark against which to compare local survey findings; these data are reported in the most recent BRFSS (Behavioral Risk Factor Surveillance System) Prevalence and Trend Data published by the Centers for Disease Control and Prevention and the US Department of Health & Human Services.

**Nationwide Risk Factor Data**
Nationwide risk factor data, which are also provided in comparison charts where available, are taken from the 2017 PRC National Health Survey; the methodological approach for the national study is identical to that employed in this assessment, and these data may be generalized to the US population with a high degree of confidence.

**Healthy People 2020**
Healthy People provides science-based, 10-year national objectives for improving the health of all Americans. The Healthy People initiative is grounded in the principle that setting national objectives and monitoring progress can motivate action. For three decades, Healthy People has established benchmarks and monitored progress over time in order to:
- Encourage collaborations across sectors.
- Guide individuals toward making informed health decisions.
- Measure the impact of prevention activities.

Healthy People 2020 is the product of an extensive stakeholder feedback process that is unparalleled in government and health. It integrates input from public health and prevention experts, a wide range of federal, state and local government officials, a consortium of more than 2,000 organizations, and perhaps most importantly, the public. More than 8,000 comments were considered in drafting a comprehensive set of Healthy People 2020 objectives.

**Information Gaps**
While this assessment is quite comprehensive, it cannot measure all possible aspects of health in the community, nor can it adequately represent all possible populations of interest. It must be recognized that these information gaps might in some ways limit the ability to assess all of the community’s health needs.

For example, certain population groups (such as the homeless, institutionalized persons, or those who only speak a language other than English or Spanish) are not represented in the survey data. Other population groups (for example, pregnant women, lesbian/gay/bisexual/transgender residents, undocumented residents, and members of certain racial/ethnic or immigrant groups) might not be identifiable or might not be represented in numbers sufficient for independent analyses.

In terms of content, this assessment was designed to provide a comprehensive and broad picture of the health of the overall community. However, there are certainly a great number of medical conditions that are not specifically addressed.

**Online Key Informant Survey (Primary Data)**

**Online Survey Methodology**

**Purpose and Survey Administration**
WNC Healthy Impact, with support from PRC, implemented an Online Key Informant Survey to solicit input from local leaders and stakeholders who have a broad interest in the health of the community. WNC Healthy Impact shared with PRC a list of recommended participants, including those from our county. This list included names and contact information for physicians, public health representatives, other health professionals, social service providers, and a variety of other community leaders. Potential
participants were chosen because of their ability to identify primary concerns of the populations with whom they work, as well as of the community overall.

Key informants were contacted through an email that introduced the purpose of the survey and provided a link to take the survey online. Reminder emails were sent as needed to increase participation.

**Online Survey instrument**
The survey provided respondents the opportunity to identify critical health issues in their community, the feasibility of collaborative efforts around health issues, and what is helping/hurting their community’s ability to make progress on health issues.

**Participation**
In all, 18 community stakeholders took part in the Online Key Informant Survey for our county, as outlined below:

- Community Care of WNC
- Higgins Methodist Church
- Intermountain Children’s Services
- Mayland Community College
- Mountain Community Health
- Mountain Community Health Clinics
- Partners Aligned Toward Health
- Pharmacist
- Toe River Health District
- VAYA Health
- Yancey Cooperative Extension
- Yancey County DSS
- Yancey Emergency Management

Through this process, input was gathered from several individuals whose organizations work with low-income, minority populations, or other medically underserved populations.

**Online Survey Limitations**
The Online Key Informant Survey was designed to gather input from participants regarding their opinions and perceptions of the health of the residents in the area. Thus, these findings are based on perceptions, not facts.

To collect this data, purposive sampling (a type of non-probability sampling which targets a specific group of people) was used. Unlike the random sampling technique employed in the telephone survey, the purpose is not to make generalizations or statistical inferences from the sample to the entire population, but to gather in-depth insights into health issues from a group of individuals with a specific perspective.

**Local Survey Data or Listening Sessions**

**Data Definitions**
Reports of this type customarily employ a range of technical terms, some of which may be unfamiliar to many readers. Health data, which composes a large proportion of the information included in this report, employs a series of very specific terms which are important to interpreting the significance of the data. While these technical health data terms are defined in the report at the appropriate time, there are some data caveats that should be applied from the onset.
First, readers should note that there is some error associated with every health data source. Surveillance systems for communicable diseases and cancer diagnoses, for instance, rely on reports submitted by health care facilities across the state and are likely to miss a small number of cases, and mortality statistics are dependent on the primary cause of death listed on death certificates without consideration of co-occurring conditions.

Age-adjusting
Secondly, since much of the information included in this report relies on mortality data, it is important to recognize that many factors can affect the risk of death, including race, gender, occupation, education and income. The most significant factor is age, because an individual’s risk of death inevitably increases with age. As a population ages, its collective risk of death increases; therefore, an older population will automatically have a higher overall death rate just because of its age distribution. At any one time some communities have higher proportions of “young” people, and other communities have a higher proportion of “old” people. In order to compare mortality data from one community with the same kind of data from another, it is necessary first to control for differences in the age composition of the communities being compared. This is accomplished by age-adjusting the data.

Age-adjustment is a statistical manipulation usually performed by the professionals responsible for collecting and cataloging health data, such as the staff of the NC State Center for Health Statistics (NC SCHS). It is not necessary to understand the nuances of age-adjustment to use this report. Suffice it to know that age-adjusted data are preferred for comparing most health data from one population or community to another and have been used in this report whenever available.

Rates
Thirdly, it is most useful to use rates of occurrence to compare data. A rate converts a raw count of events (deaths, births, disease or accident occurrences, etc.) in a target population to a ratio representing the number of same events in a standard population, which removes the variability associated with the size of the sample. Each rate has its own standard denominator that must be specified (e.g., 1,000 women, 100,000 persons, 10,000 people in a particular age group, etc.) for that rate.

While rates help make data comparable, it should be noted that small numbers of events tend to yield rates that are highly unstable, since a small change in the raw count may translate to a large change in rate. To overcome rate instability, another convention typically used in the presentation of health statistics is data aggregation, which involves combining like data gathered over a multi-year period, usually three or five years. The practice of presenting data that are aggregated avoids the instability typically associated with using highly variable year-by-year data, especially for measures consisting of relatively few cases or events. The calculation is performed by dividing the sum number of cases or deaths in a population due to a particular cause over a period of years by the sum of the population size for each of the years in the same period.

Health data for multiple years or multiple aggregate periods is included in this report wherever possible. Sometimes, however, even aggregating data is not sufficient, so the NC SCHS recommends that rates based on fewer than 20 events—whether covering an aggregate period or not—be considered unstable. In fact, in some of its data sets the NC SCHS no longer calculates rates based on fewer than 20 events. To be sure that unstable data do not become the basis for local decision-making, this report will highlight and discuss primarily rates based on 20 or more events in a five-year aggregate period, or 10 or more events in a single year.
Where exceptions occur, the text will highlight the potential instability of the rate being discussed.

**Regional arithmetic mean**

Fourthly, sometimes in order to develop a representative regional composite figure from sixteen separate county measures the consultants calculated a regional arithmetic mean by summing the available individual county measures and dividing by the number of counties providing those measures. It must be noted that when regional arithmetic means are calculated from rates the mean is not the same as a true average rate but rather an approximation of it. This is because most rates used in this report are age adjusted, and the regional mean cannot be properly age-adjusted.

**Describing difference and change**

Fifthly, in describing differences in data of the same type from two populations or locations, or changes over time in the same kind of data from one population or location—both of which appear frequently in this report—it is useful to apply the concept of percent difference or change. While it is always possible to describe difference or change by the simple subtraction of a smaller number from a larger number, the result often is inadequate for describing and understanding the scope or significance of the difference or change. Converting the amount of difference or change to a percent takes into account the relative size of the numbers that are changing in a way that simple subtraction does not, and makes it easier to grasp the meaning of the change.

For example, there may be a rate of for a type of event (e.g., death) that is one number one year and another number five years later. Suppose the earlier figure is 12.0 and the latter figure is 18.0. The simple mathematical difference between these rates is 6.0. Suppose also there is another set of rates that are 212.0 in one year and 218.0 five years later. The simple mathematical difference between these rates also is 6.0. But are these same simple numerical differences really of the same significance in both instances? In the first example, converting the 6 point difference to a percent yields a relative change factor of 50%; that is, the smaller number increased by half, a large fraction. In the second example, converting the 6 point difference to a percent yields a relative change factor of 2.8%; that is, the smaller number increased by a relatively small fraction. In these examples the application of percent makes it very clear that the difference in the first example is of far greater degree than the difference in the second example. This document uses percentage almost exclusively to describe and highlight degrees of difference and change, both positive (e.g., increase, larger than, etc.) and negative (e.g., decrease, smaller than, etc.).

**Data limitations**

Some data that is used in this report may have inherent limitations, due to the sample size, its geographic focus, or its being out-of-date, for example, but it is used nevertheless because there is no better alternative. Whenever this kind of data is used, it will be accompanied by a warning about its limitations.