Yadkin County SotCH Report

- County Data
  - *Leading Causes of Death*
- Continued Health Concerns
- Emerging Health Issues
- CHA Priorities
  - *Action Plans*
  - *Progress*
- Trending Data
- New Initiatives
COUNTY DATA

Yadkin County SotCH Report
### County information: Snap Shot

<table>
<thead>
<tr>
<th>People QuickFacts</th>
<th>Yadkin County</th>
<th>North Carolina</th>
</tr>
</thead>
<tbody>
<tr>
<td>Population, 2016 estimate</td>
<td>37,532</td>
<td>10,273,419</td>
</tr>
<tr>
<td>Persons under 5 years, percent, 2016</td>
<td>5.1%</td>
<td>6%</td>
</tr>
<tr>
<td>Persons under 18 years, percent, 2016</td>
<td>21.3%</td>
<td>22.7%</td>
</tr>
<tr>
<td>Persons 65 years and over, percent, 2016</td>
<td>19%</td>
<td>15.5%</td>
</tr>
<tr>
<td>Female persons, percent, 2016</td>
<td>50.4%</td>
<td>51.3%</td>
</tr>
<tr>
<td>White persons, percent, 2016</td>
<td>94.1%</td>
<td>71%</td>
</tr>
<tr>
<td>Black persons, percent, 2016</td>
<td>3.4%</td>
<td>22.2%</td>
</tr>
<tr>
<td>Persons of Hispanic or Latino Origin, percent, 2016</td>
<td>11%</td>
<td>9.2%</td>
</tr>
<tr>
<td>Language other than English spoken at home, percent age 5+, 2012-2016</td>
<td>8.3%</td>
<td>11.3%</td>
</tr>
<tr>
<td>High school graduate or higher, percent of persons age 25+, 2012-2016</td>
<td>78.1%</td>
<td>86.3%</td>
</tr>
<tr>
<td>Bachelor's degree or higher, percent of persons age 25+, 2012-2016</td>
<td>12.1%</td>
<td>29%</td>
</tr>
<tr>
<td>Median household income, 20120-2016 (in 2016 dollars)</td>
<td>$38,623</td>
<td>$48,256</td>
</tr>
<tr>
<td>Persons in poverty, percent</td>
<td>14.0%</td>
<td>15.4%</td>
</tr>
</tbody>
</table>

(US Census QuickFacts)
Population by Age (2010-2016)

Annual Estimates of the Resident Population for Selected Age Groups by Sex for the United States, States, Counties and Puerto Rico Commonwealth and Municipios: April 1, 2010 to July 1, 2016
Economic Characteristics

- According to the NC Department of Commerce, Access NC data set:\n  - The November 2017 prelim., 2016 unemployment rate is 3.9%\n  - Yadkin County has a Tier 1 designation\n  - 24% of Yadkin County residents reside in rental properties

- In Yadkin County, 2,353 families have children under age 6, and of those, 42.1% have both parents working.\n- The number of families with children between ages 6 and 17 is 5,571, and 55.5% of those families have both parents working.\n- 54.8% of the population is in the workforce.
Other income:
- Social Security income is $16,869
- Retirement income is $17,412
- Supplemental Security income is $8,647
- Cash public Assistance is $3,270
- 2,330 households receive SNAP
### Families in poverty

(past 12 months)

<table>
<thead>
<tr>
<th>Category</th>
<th>No dependents</th>
<th>Children under 18</th>
<th>Children under 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Families</td>
<td>15</td>
<td>24</td>
<td>20</td>
</tr>
<tr>
<td>Married Couples</td>
<td>9</td>
<td>14</td>
<td>9</td>
</tr>
<tr>
<td>Female householder, no husband present</td>
<td>33</td>
<td>42</td>
<td>30</td>
</tr>
<tr>
<td>RANK</td>
<td>CAUSE OF DEATH:</td>
<td># OF DEATHS</td>
<td>DEATH RATE</td>
</tr>
<tr>
<td>------</td>
<td>-----------------------------------------------------</td>
<td>-------------</td>
<td>------------</td>
</tr>
<tr>
<td>0</td>
<td>TOTAL DEATHS - ALL CAUSES</td>
<td>2,125</td>
<td>1124</td>
</tr>
<tr>
<td>1</td>
<td>Diseases of the heart</td>
<td>468</td>
<td>247.5</td>
</tr>
<tr>
<td>2</td>
<td>Cancer – all sites</td>
<td>450</td>
<td>238</td>
</tr>
<tr>
<td>3</td>
<td>Chronic lower respiratory diseases</td>
<td>146</td>
<td>77.2</td>
</tr>
<tr>
<td>4</td>
<td>Cerebrovascular disease</td>
<td>138</td>
<td>73</td>
</tr>
<tr>
<td>5</td>
<td>Other Unintentional injuries</td>
<td>89</td>
<td>47.1</td>
</tr>
<tr>
<td>6</td>
<td>Diabetes mellitus</td>
<td>74</td>
<td>39.1</td>
</tr>
<tr>
<td>7</td>
<td>Alzheimer's disease</td>
<td>73</td>
<td>38.6</td>
</tr>
<tr>
<td>8</td>
<td>Pneumonia &amp; influenza</td>
<td>72</td>
<td>38.1</td>
</tr>
<tr>
<td>9</td>
<td>Septicemia</td>
<td>52</td>
<td>27.5</td>
</tr>
<tr>
<td>10</td>
<td>Nephritis, nephrotic syndrome, &amp; nephrosis</td>
<td>46</td>
<td>24.3</td>
</tr>
</tbody>
</table>

NC State Center for Health Statistics: North Carolina County Health Data Book - 2018
LEADING CAUSES OF DEATH – By Age Group

- **0-19 (30)** year old age group, the leading causes of death are pre-natal related/birth defects (5), conditions originating in the perinatal period (4), motor vehicle injuries (4), other unintentional injuries (4).

- **20-39 (56)** age group, most top causes of death are related to unintended injury (22), suicide (8) and motor vehicle accidents (7).

- **40-64 (445)** age group, the top causes of death are cancer (123), disease of the heart (88), and diabetes (33).

- **65-84 (1,015)** age group (highest incidence of death) these are related to chronic diseases such as cancer (254), disease of the heart (207) and lung disease (94).

*NC State Center for Health Statistics: North Carolina County Health Data Book - 2018*
CONTINUED HEALTH CONCERNS

Yadkin County SotCH Report
Continued Health Concerns

From 2015 CHA Report

■ Prescription drug abuse/overdose
■ Knowledge and use of available physical activity opportunities
■ Chronic disease morbidity and mortality

From 2016 SotCH Report

■ Teen pregnancy
■ Chronic Disease
■ Health care access
■ Birth risk factors
■ Obesity
■ Physical activity/nutrition
■ Poisonings
■ CD/STD
# Continued Health Concerns: Teen Pregnancy

<table>
<thead>
<tr>
<th>2016 Teen Pregnancies (ShiftNC.org)</th>
<th>Yadkin</th>
<th>North Carolina</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of pregnancies among 15-19-year-old girls:</td>
<td>41 ▲</td>
<td></td>
</tr>
<tr>
<td>Teen pregnancy rate per 1,000 15-19-year-old girls:</td>
<td>36.5 ▲</td>
<td>28.1</td>
</tr>
<tr>
<td>Teen pregnancy rates by race/ethnicity: white</td>
<td>36.6</td>
<td>19.4</td>
</tr>
<tr>
<td>Teen pregnancy rates by age: 18-19 year olds</td>
<td>74.7</td>
<td>50.7</td>
</tr>
<tr>
<td>Number of pregnancies among 15-17-year-old girls:</td>
<td>13 ▲</td>
<td></td>
</tr>
<tr>
<td>Number of pregnancies among 18-19-year-old girls:</td>
<td>28 ▲</td>
<td></td>
</tr>
<tr>
<td>Percent of Repeat Pregnancies:</td>
<td>12.2% ▼</td>
<td>22.1%</td>
</tr>
<tr>
<td>Teen birth rate per 1,000 15-19-year-old girls:</td>
<td>32.1</td>
<td>21.8</td>
</tr>
<tr>
<td>NC County Ranking (out of 100 counties):</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>Change since 2015:</td>
<td>+14.1%</td>
<td>-7%</td>
</tr>
</tbody>
</table>
Continued Health Concerns: Chronic Disease

- **Chronic Disease:**
  - According to the State Center for Health Statistics: **1,276 (60%)** of our leading causes of death are caused by chronic conditions such as heart and lung disease, cancer, and diabetes.
  - **Cancer (2012-2016)**
    - Incidence: 1,167 cases; 454.0/100,000 (NC rate is 464.5/100,000)
      - **Yadkin lung cancer incidence is higher than NC:** 73.5/100,000 compared to 66.3/100,000
    - Mortality: 450 deaths; 171.9/100,000 (NC rates is 166.6/100,000)
      - **Yadkin lung cancer mortality is higher than NC:** 58.0/100,000 compared to 47.6/100,000
      - **Yadkin breast cancer mortality is higher than NC:** 24.4/100,000 compared to 20.8/100,000
Continued Health Concerns: Health Insurance Coverage

- With Health Insurance: 85.7%
- No Health Insurance: 14.3%

Source of Coverage:
- Private Coverage: 59.9%
- Public Coverage: 40.5%
Yadkin falls behind the state rate for all health care providers, including physicians, NPs, PAs, RNs, and pharmacists. See the following table for rates. *most recent data

Source: 2014 NC Health Professionals Data Book
Continued
Health
Concerns:

*Birth Risk Factors &
Characteristics – NC
County Health Data
Book 2018*

*(NC State Center for Health
Statistics)*

- 8.9% of infants were born preterm
- 6.1% of infants were born at a low
birth weight, 1.8% were born at a
very low birth rate
- 11 infants were born to women
under 18 years
- 14.8% of mothers had less than a
high school education and 37.5%
were unmarried
- 5.6% of births in 2016 were to a
woman who received very late (third
trimester) or no prenatal care
- 18.1% of babies were born to
women who smoke
- 53.1% were overweight or obese
pre-pregnancy
Continued Health Concerns: Nutrition

- 4900 food insecure people in Yadkin County
- 12.9% of the population is food insecure
- Of food insecure people, 14% are above SNAP, other nutrition programs threshold of 200% poverty
- Average meal cost is $2.88
- The annual food budget shortfall in Yadkin is $2,527,000

USDA: “Food Access Research Atlas”
Low-income census tracts where a significant number or share of residents is more than 1 mile (urban) or 10 miles (rural) from the nearest supermarket.
Nutrition: Food Access

- 2017 North Carolina Food Access Maps (NC Alliance for Health)
  
  The following maps show food access in North Carolina as a state. These maps represent areas in which residents are low income and where there are low supermarket sales and high rates of diet-related deaths.
North Carolina

MAP 6 Areas with Greatest Need

Areas with Greatest Need
- Low Sales, Low Income, High Deaths
- Not Low Sales, Low Income, High Deaths
- Highways
- Counties
- Park, Forest or Non-Residential

Data: Nielsen TDLinx Services, 2016; US Census, ACS 5 Year, 2010-2014; North Carolina Department of Health and Human Services, 2014
Continued Health Concerns: Physical Activity

24% of adults report being physically inactive

Physical inactivity in Yadkin County, NC
County, State and National Trends

No significant trend was found in Yadkin County for this measure.

<table>
<thead>
<tr>
<th>3-year Average</th>
<th>2004</th>
<th>2005</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td>24%</td>
<td>24%</td>
<td>24%</td>
<td>24%</td>
<td>25%</td>
<td>25%</td>
<td>25%</td>
<td>24%</td>
<td>24%</td>
<td>22%</td>
</tr>
<tr>
<td>North Carolina</td>
<td>25%</td>
<td>26%</td>
<td>25%</td>
<td>25%</td>
<td>26%</td>
<td>26%</td>
<td>26%</td>
<td>26%</td>
<td>26%</td>
<td>24%</td>
</tr>
<tr>
<td>Yadkin County</td>
<td>27%</td>
<td>31%</td>
<td>30%</td>
<td>29%</td>
<td>27%</td>
<td>28%</td>
<td>28%</td>
<td>28%</td>
<td>28%</td>
<td>24%</td>
</tr>
</tbody>
</table>

Please see Measuring Progress/Rankings Measures for more information on trends. Trends were measured using all years of data.

County Health Rankings
Continued Health Concerns: Obesity

- **Adults:** 31% were obese
- **Children overweight or obese**
  - ages 2-4: 32.4%
  - ages 5-11: 27.9%
  - ages 2-18: 30.3%

2015 NC-PedNESS
Child Health: SNAP SHOT

- 21% (8,094) of the county’s population are residents under the age of 18.
- 29.6% of children are in poverty.
- 25.6% of children in Yadkin live in food insecure households compared to 24.6% at the state.
- 5.6% of children are considered uninsured compared to the state’s 4.6%.
  - 4,506 are enrolled in Medicaid/Health Choice.
- Rate of children assessed for abuse/neglect per 1,000 in Yadkin is 40.2.
- Rate of children in foster care per 1,000 in Yadkin is 10.1, while the state rate is 6.7.
- The County infant death rate is 7.7 per 1,000 live births.
  - 5 deaths of children 0-17 years (2016)
  - 3 were under 1 year of age
  - Deaths were from congenital malformations, deformations and chromosomal abnormalities.
Overdose: Unintentional Medication or Drug Overdose

- NCDETECT Data reports show 84 instances of unintentional medication or drug overdose in 2017.
- The ages range from 1 to 88 with the average age being 38.
- 55% were male, 98% were white/non-Hispanic.
- 33% were from within the Yadkinville zip code; 26% were East Bend.
Poisoning Deaths (2012-2016)

- 6 total deaths due to poisoning in 2016, 110 from 2009-2016
- The 6 deaths in 2016 were unintentional. Of the 110, 92% were unintentional
- The unintentional poisoning mortality rate for Yadkin is 19.6 per 100,000 residents – More than the state rate, 13.2
- 2016, Yadkin had 3 heroin deaths, 1 synthetic opioid and 1 Benzodiazepine
- Opiate poisoning death rate is 21.2/100,000 compared to the state rate of 10.3
- The opioid prescribing rate in Yadkin is 69.3/100,000 compared to the state rate of 82.2

NC Injury & Violence Prevention Branch
There were 179 confirmed cases of communicable disease.

101 of these, or 56%, were bacterial STDs.

The average age of the confirmed STD patient was 27, with ages ranging from 14 to 57.

19, or 18.8%, were between 15-19 years old.

54 of these were confirmed chronic Hepatitis C.

Includes an active TB case.
EMERGING HEALTH ISSUES

Yadkin County SotCH Report
Emerging Issues

- The following areas are a concern, as the numbers continue to increase over time:
  - *Chronic Diseases*
    - Cardiovascular disease
    - Heart disease
    - Stroke
    - Diabetes deaths
  - *Unintentional injury (including accidental overdose)*
  - *Suicide*

- Graphs showing the trends follow
Heart Disease Deaths

10. Age-Adjusted Heart Disease Death Rates per 100,000 Residents

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>North Carolina</td>
<td>227.6</td>
<td>186.0</td>
<td>163.7</td>
</tr>
<tr>
<td>Yadkin</td>
<td>211.1</td>
<td>186.8</td>
<td>193.4</td>
</tr>
</tbody>
</table>

Stroke Deaths

11. Age-Adjusted Stroke Death Rates per 100,000 Residents

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>North Carolina</td>
<td>65.3</td>
<td>48.3</td>
<td>43.1</td>
</tr>
<tr>
<td>Yadkin</td>
<td>74.3</td>
<td>43.2</td>
<td>53.4</td>
</tr>
</tbody>
</table>
Suicide Deaths

20. Age-Adjusted Suicide Rates per 100,000 Residents (Healthy NC 2020 Target = 8.3)

<table>
<thead>
<tr>
<th>Year</th>
<th>North Carolina</th>
<th>Yadkin</th>
</tr>
</thead>
<tbody>
<tr>
<td>2001-2005</td>
<td>11.6</td>
<td>13.2</td>
</tr>
<tr>
<td>2006-2010</td>
<td>12.0</td>
<td>15.0</td>
</tr>
<tr>
<td>2011-2015</td>
<td>12.7</td>
<td>17.5</td>
</tr>
</tbody>
</table>

Unintentional Injury Deaths

18. Age-Adjusted Unintentional Injury Death Rates per 100,000 Residents (excluding Motor Vehicle Deaths)

<table>
<thead>
<tr>
<th>Year</th>
<th>North Carolina</th>
<th>Yadkin</th>
</tr>
</thead>
<tbody>
<tr>
<td>2001-2005</td>
<td>26.1</td>
<td>36.4</td>
</tr>
<tr>
<td>2006-2010</td>
<td>28.7</td>
<td>41.9</td>
</tr>
<tr>
<td>2011-2015</td>
<td>30.5</td>
<td>45.2</td>
</tr>
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</table>
Trending Data:

<table>
<thead>
<tr>
<th></th>
<th>2012</th>
<th>2014</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Teen Pregnancy: total rate</strong></td>
<td>50.3/1,000</td>
<td>28.2/1,000</td>
<td>29.5/1,000</td>
<td>36.5/1,000</td>
</tr>
<tr>
<td><strong>By age group: 15-17</strong></td>
<td>14</td>
<td>4</td>
<td>10</td>
<td>13</td>
</tr>
<tr>
<td><strong>By age group: 18-19</strong></td>
<td>45</td>
<td>28</td>
<td>24</td>
<td>28</td>
</tr>
<tr>
<td><strong>Repeat pregnancies</strong></td>
<td>22%</td>
<td>21.9%</td>
<td>20.6%</td>
<td>12.2%</td>
</tr>
<tr>
<td><strong>Diabetes: deaths</strong></td>
<td>7</td>
<td>11</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td><strong>Dental Care: dentist ratio</strong></td>
<td>1.65/10,000</td>
<td>1.8/10,000</td>
<td>1.9/10,000</td>
<td>1.85/10,000</td>
</tr>
<tr>
<td><strong>Obesity</strong></td>
<td>30%</td>
<td>30%</td>
<td>32%</td>
<td>32%</td>
</tr>
</tbody>
</table>
Trending Data: Graphs

- Teen Pregnancy

<table>
<thead>
<tr>
<th>Year</th>
<th>15-17 years</th>
<th>18-19 years</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>14</td>
<td>45</td>
</tr>
<tr>
<td>2014</td>
<td>4</td>
<td>28</td>
</tr>
<tr>
<td>2016</td>
<td>10</td>
<td>28</td>
</tr>
<tr>
<td>2017</td>
<td>13</td>
<td>24</td>
</tr>
</tbody>
</table>

Teen Pregnancy Rate

- 2012: 50.3
- 2014: 28.2
- 2016: 29.5
- 2017: 36.5
Trending Data: Graphs

Repeat Pregnancies

Diabetes Deaths

<table>
<thead>
<tr>
<th>Year</th>
<th>2012</th>
<th>2014</th>
<th>2016</th>
<th>2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>22</td>
<td>21.9</td>
<td>20.6</td>
<td>12.2</td>
</tr>
<tr>
<td>2014</td>
<td>7</td>
<td>11</td>
<td>20</td>
<td>20</td>
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<tr>
<td>2016</td>
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<td></td>
</tr>
<tr>
<td>2017</td>
<td></td>
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</tr>
</tbody>
</table>
Trending Data: Graphs

Dentists

Obesity
Lack of physical activity and physical activity opportunities in Yadkin County

Action Plan:

- **WalkWorks**
  - By 2019, increase physical activity among 19-64 year olds by implementing evidence-based strategies that make walking in the community a safe and accessible pursuit. Program will reach 100 residents per year.

Progress:

- The Assistant Director (AD) and the Health Educator (HE) completed a walkability assessment and mapped the current marked walking route in Yadkinville.
- The AD and HE also attended two planning meetings with local town officials.
- Applied for a grant to fund progress, unfortunately was not funded.
- Held a planning/mapping meeting with the County GIS official.
- Courtney Elementary held a school wide Bike & walk to school event by educating students on bicycle safety at the school site, and walking the school grounds to give the students more physical activity.
Prescription medication abuse and accidental overdoses

Priority 2

Action Plan:

- Naloxone dispensing campaign
  - By 2019, establish a working Naloxone dispensing program at the local health department, with an educational component. Evidence will show 6 kits will be dispensed per year over 4 years.

Progress:

- Developed and implemented a method to conduct on-site kit education and marketing
- Advertised in the local newspaper and partnered with local pharmacies to distribute educational rack cards.
- Distributed 2 kits
Health issues related to chronic disease such as heart disease and diabetes

Action Plan:

- Chronic Disease Self-Management
  - 65% of participants will report increased strength and stamina through better fitness within 6 weeks.

Progress

- Have made a connection with another trainer located within the county with hopes to plan another available course in 2018
- The Health Educator is completing blood pressure checks at East Bend Senior Center
- Also provides physical activity at the Yadkinville and East Bend Senior Centers
NEW INITIATIVES

Office of Rural Health MAP Grant
Sources of Information:

1. US Census QuickFacts
3. NC Department of Commerce, AccessNC
4. US Census American Community Survey 2012-2016
5. County Health Rankings
6. Feeding America, “Map the Meal Gap”
8. NC Child, “Yadkin Child Health County Data Card”
9. NC Alliance for Health
10. NCIOM
11. State Center for Health Statistics
12. NC Injury & Violence Prevention Branch
13. NCDETECT data
14. ShiftNC.org
15. 2014 NC Health Professionals Data Book
16. 2015 NC-PedNESS