Key Takeaways – Social Determinants of Health & General Health Status of Yellowstone County

- **Yellowstone County Demographics:**
  - Between the 2000 and 2010 US Censuses, the county population increased by 18,620 persons, or 14.4%.
  - 83.3% of the Yellowstone County’s population is considered urban, a much higher proportion than across Montana (US Census).
  - 10.1% of Yellowstone County residents and 11.9% of children age 2-17 live below the federal poverty level, lower than state and national figures (US Census).
  - 7.1% (about 7,500 people) of residents age 25+ do not have a high school education, well below the national average (US Census).
  - 2.9% of residents are unemployed, below the national figure and representing a decrease since 2010 (US Department of Labor, August 2019).

- **Among Yellowstone County adults:**
  - 27.8% are “sometimes,” “usually,” or “always” worried or stressed about having enough money to pay their rent or mortgage in the past year; most commonly among adults age 40-60 and low-income individuals.
  - 7.0% experienced ongoing problems with water leaks, rodents, insects, mold, or other unsafe/unhealthy housing conditions in the past year; most commonly among adults age 40-64 and low-income households.
  - 53.4% can rely on public transportation if needed for work, errands, or appointments.
  - 22.7% (33,651 residents) have low food access (do not live near a supermarket or large grocery store), favorably lower than in Montana (US Department of Agriculture).
  - 17.1% find it “very” or “somewhat” difficult to access affordable fresh fruits and vegetables, a significant improvement compared to 2014 and the US. Women and low income respondents were more likely to report difficulty.
  - 18.1% of community residents are considered “food insecure,” having run out of food in the past year and/or been worried about running out of food, well below the national figure. Adults under 65 and especially those in low-income households are at greatest risk.
  - 20.4% have low health literacy, especially among men.
  - 19.6% are aware of Montana 2-1-1.
  - 16.7% believe that their overall health is “fair” or “poor”, a significant increase since 2005, and more commonly reported among older adults.
### Total Population

<table>
<thead>
<tr>
<th></th>
<th>Total Population</th>
<th>Total Land Area (Square Miles)</th>
<th>Population Density (Per Square Mile)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yellowstone County</td>
<td>156,332</td>
<td>2,633.50</td>
<td>59.36</td>
</tr>
<tr>
<td>Montana</td>
<td>1,029,862</td>
<td>145,545.42</td>
<td>7.08</td>
</tr>
<tr>
<td>United States</td>
<td>321,004,407</td>
<td>3,532,315.66</td>
<td>90.88</td>
</tr>
</tbody>
</table>

Sources:
- US Census Bureau American Community Survey 5-year estimates.

### Urban and Rural Population
(2010)

<table>
<thead>
<tr>
<th></th>
<th>% Urban</th>
<th>% Rural</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yellowstone County</td>
<td>83.3%</td>
<td>16.7%</td>
</tr>
<tr>
<td>MT</td>
<td>55.9%</td>
<td>44.1%</td>
</tr>
<tr>
<td>US</td>
<td>80.9%</td>
<td>19.1%</td>
</tr>
</tbody>
</table>

Sources:
- US Census Bureau Decennial Census.

Notes:
- This indicator reports the percentage of population living in urban and rural areas. Urban areas are identified using population density, count, and size thresholds. Urban areas also include territory with a high degree of impervious surface (development). Rural areas are all areas that are not urban.
Total Population by Age Groups, Percent

- Age 0-17
- Age 18-64
- Age 65+

Yellowstone County:
- Age 0-17: 23.6%
- Age 18-64: 60.7%
- Age 65+: 15.7%

MT:
- Age 0-17: 22.0%
- Age 18-64: 60.9%
- Age 65+: 17.1%

US:
- Age 0-17: 22.9%
- Age 18-64: 62.2%
- Age 65+: 14.9%

Sources:
- US Census Bureau American Community Survey 5-year estimates.

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Median Age

- Yellowstone County: 38.3
- MT: 39.8
- US: 37.8

Sources:
- US Census Bureau American Community Survey 5-year estimates.
**Total Population by Race Alone, Percent**


<table>
<thead>
<tr>
<th>Race</th>
<th>Yellowstone County</th>
<th>MT</th>
<th>US</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>90.9%</td>
<td>89.0%</td>
<td>73.0%</td>
</tr>
<tr>
<td>Native Am/Alaska Native</td>
<td>4.3%</td>
<td>6.5%</td>
<td>0.8%</td>
</tr>
<tr>
<td>Black</td>
<td>0.7%</td>
<td>0.4%</td>
<td>0.8%</td>
</tr>
<tr>
<td>Asian</td>
<td>0.6%</td>
<td>0.7%</td>
<td>0.8%</td>
</tr>
<tr>
<td>Some Other Race</td>
<td>2.8%</td>
<td>2.8%</td>
<td>2.7%</td>
</tr>
<tr>
<td>Multiple Races</td>
<td>3.1%</td>
<td>5.4%</td>
<td>15.0%</td>
</tr>
</tbody>
</table>

**Hispanic Population**


- The Hispanic population increased by 2,167 persons, or 45.3%, between 2000 and 2010.

<table>
<thead>
<tr>
<th>Location</th>
<th>Growth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yellowstone County</td>
<td>5.4%</td>
</tr>
<tr>
<td>MT</td>
<td>3.6%</td>
</tr>
<tr>
<td>US</td>
<td>17.6%</td>
</tr>
</tbody>
</table>

**Sources:**
- US Census Bureau American Community Survey 5-year estimates.

**Notes:**
- Origin can be viewed as the heritage, nationality group, lineage, or country of birth of the person or the person’s parents or ancestors before their arrival in the United States. People who identify their origin as Hispanic, Latino, or Spanish may be of any race.
Respondent's Sexual Orientation
(Yellowstone County, 2020)

- Straight/Heterosexual: 95.9%
- Gay/Lesbian: 2.4%
- Other/Uncertain: 0.9%
- Bisexual: 0.8%

Sources:
- 2020 FRC Community Health Survey, FRC, Inc. [Item 311]

Notes:
- Asked of all respondents.

Population in Poverty
(Populations Living Below the Poverty Level; 2013-2017)

- Yellowstone County:
  - Total Population: 10.1%
  - Children: 11.9%
  - Total persons: 15,432
  - Children: 4,222

- MT:
  - Total Population: 14.4%
  - Children: 17.6%

- US:
  - Total Population: 14.6%
  - Children: 20.3%

Sources:
- US Census Bureau American Community Survey 5-year estimates.
- Retrieved October 2019 from CARES Engagement Network at https://engagementnetwork.org

Notes:
- Poverty is considered a key driver of health status. This indicator is relevant because poverty creates barriers to access including health services, healthy food, and other necessities that contribute to poor health status.
Unemployment Rate
(Percent of Non-Institutionalized Population Age 16+ Unemployed, Not Seasonally-Adjusted)

Sources:

Notes:
- This indicator is relevant because unemployment creates financial instability and barriers to access including insurance coverage, health services, healthy food, and other necessities that contribute to poor health status.

Population With No High School Diploma

Sources:
- US Census Bureau American Community Survey 5-year estimates.

Notes:
- This indicator is relevant because educational attainment is linked to positive health outcomes.
Additional Community Feedback

Select Key Informant Survey Responses

The social determinants of health are an important measure of a healthy community: access to healthcare, housing, nutritional food, transportation, and employment. – Government Representative

Unhealthy housing. There is no housing code, so renters, in particular, struggle with poor conditions, such as lack of heat, mold, poor ventilation, and pests. – Public Health Representative

Homelessness and access to healthcare on a nonemergency basis. – Community Leader

Housing for homeless when convalescing. – Community Leader
“Always/Usually/Sometimes” Worried About Paying Rent/Mortgage in the Past Year

Yellowstone County

<table>
<thead>
<tr>
<th></th>
<th>2017</th>
<th>2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>US</td>
<td>30.8%</td>
<td>27.8%</td>
</tr>
<tr>
<td>Yellowstone County</td>
<td>27.7%</td>
<td>27.8%</td>
</tr>
</tbody>
</table>

Sources:  
- 2020 PRC Community Health Survey, PRC, Inc. [Item 196]
- 2017 PRC National Health Survey, PRC, Inc.

Notes:  
- Asked of all respondents.

“Always/Usually/Sometimes” Worried About Paying Rent/Mortgage in the Past Year
(Yellowstone County, 2020)

<table>
<thead>
<tr>
<th>Group</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Men</td>
<td>27.9%</td>
</tr>
<tr>
<td>Women</td>
<td>27.7%</td>
</tr>
<tr>
<td>18 to 39</td>
<td>28.4%</td>
</tr>
<tr>
<td>40 to 64</td>
<td>34.8%</td>
</tr>
<tr>
<td>65+</td>
<td>10.6%</td>
</tr>
<tr>
<td>Low Income</td>
<td>51.1%</td>
</tr>
<tr>
<td>Mid/High Income</td>
<td>20.2%</td>
</tr>
<tr>
<td>Yellowstone County</td>
<td>27.8%</td>
</tr>
</tbody>
</table>

Sources:  
- 2020 PRC Community Health Survey, PRC, Inc. [Item 196]

Notes:  
- Asked of all respondents.
- Income categories reflect respondent's household income as a ratio to the federal poverty level (FPL) for their household size. “Low income” includes households with incomes up to 200% of the federal poverty level. “Mid/High income” includes households with incomes at 200% or more of the federal poverty level.
Have Experienced Water Leaks, Rodents, Insects, Mold, or Other Unsafe/Unhealthy Housing Conditions in the Past Year
(Yellowstone County, 2020)

Sources:
- 2020 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 312]
- Asked of all respondents.
- Income categories reflect respondent’s household income as a ratio to the federal poverty level (FPL) for their household size. “Low Income” includes households with incomes up to 200% of the federal poverty level; “Mid/High Income” includes households with incomes at 200% or more of the federal poverty level.

Could Rely on Public Transportation if Needed for Work, Errands, Appointments
(Yellowstone County, 2020)

Sources:
- 2020 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 313]
- Asked of all respondents.
- Income categories reflect respondent’s household income as a ratio to the federal poverty level (FPL) for their household size. “Low Income” includes households with incomes up to 200% of the federal poverty level; “Mid/High Income” includes households with incomes at 200% or more of the federal poverty level.
Level of Difficulty Finding Fresh Produce at an Affordable Price
(Yellowstone County, 2020)

- Not At All Difficult: 56.2%
- Not Too Difficult: 26.6%
- Somewhat Difficult: 14.4%
- Very Difficult: 2.7%

Sources:
- 2020 PRC Community Health Survey, PRC, Inc. [Item 86]

Notes:
- Asked of all respondents.

Find It “Very” or “Somewhat” Difficult to Buy Affordable Fresh Produce

Yellowstone County

- 2014: 23.5%
- 2017: 23.3%
- 2020: 17.1%

Sources:
- 2020 PRC Community Health Survey, PRC, Inc. [Item 189]
- 2017 PRC National Health Survey, PRC, Inc.

Notes:
- Asked of all respondents.
Residents who answer “often” or “sometimes true” for either statement below are considered food insecure:

I worried about whether our food would run out before we got money to buy more.

or

The food that we bought just did not last, and we did not have money to get more.
Food Insecurity
(Yellowstone County, 2020)

Low food access is defined as living more than ½ mile from the nearest supermarket, supercenter, or large grocery store.

Population With Low Food Access
(Percent of Population That Is Far From a Supermarket or Large Grocery Store, 2015)

33,651 individuals have low food access

22.7% Yellowstone County
24.3% MT
22.4% US
Level of Health Literacy
(Yellowstone County, 2020)

- **High**: 15.9%
- **Medium**: 63.7%
- **Low**: 20.4%

Sources:
- 2020 PRC Community Health Survey, PRC, Inc. [Item 172]
- 2017 PRC National Health Survey, PRC, Inc.

Notes:
- Asked of all respondents.
- Respondents with low health literacy are those who “seldom/never” find written or spoken health information easy to understand, and/or who “always/hardly always” need help reading health information, and/or who are “not at all confident” in filling out health forms.

Low Health Literacy

- Yellowstone County: 20.4%
- US: 23.3%
- 2017: 17.3%
- 2020: 20.4%

Sources:
- 2020 PRC Community Health Survey, PRC, Inc. [Item 172]
- 2017 PRC National Health Survey, PRC, Inc.

Notes:
- Asked of all respondents.
- Respondents with low health literacy are those who “seldom/never” find written or spoken health information easy to understand, and/or who “always/hardly always” need help reading health information, and/or who are “not at all confident” in filling out health forms.
Low Health Literacy
(Yellowstone County, 2020)

<table>
<thead>
<tr>
<th>Category</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Men</td>
<td>26.6%</td>
</tr>
<tr>
<td>Women</td>
<td>15.4%</td>
</tr>
<tr>
<td>18 to 39</td>
<td>16.6%</td>
</tr>
<tr>
<td>40 to 64</td>
<td>22.0%</td>
</tr>
<tr>
<td>65+</td>
<td>22.5%</td>
</tr>
<tr>
<td>Low Income</td>
<td>24.2%</td>
</tr>
<tr>
<td>Mid/High Income</td>
<td>16.7%</td>
</tr>
<tr>
<td>Yellowstone County</td>
<td>20.4%</td>
</tr>
</tbody>
</table>

Sources: 2020 FRC Community Health Survey, FRC, Inc. [Item 172]
Notes: Asked of all respondents.
Income categories reflect respondent's household income as a ratio to the federal poverty level (FPL) for their household size. "Low Income" includes households with incomes up to 200% of the federal poverty level. "Mid/High Income" includes households with incomes at 200% or more of the federal poverty level.
Respondents with low health literacy are those who "seldom/never" find written or spoken health information easy to understand, and/or who "always/never always" need help reading health information, and/or who are "not at all confident" in filling out health forms.

Personal Degree of Impact on Making the Community a Better Place to Live
(Yellowstone County, 2020)

- No Impact: 8.8%
- Great Deal of Impact: 32.6%
- Some Impact: 58.6%

Sources: 2020 FRC Community Health Survey, FRC, Inc. [Item 322]
Notes: Asked of all respondents.
Why ask about ability to impact community life?

Volunteerism and social engagement are associated with improved health outcomes.

Awareness of Montana 2-1-1
(Yellowstone County, 2020)

Sources:
- 2020 PRC Community Health Survey, Professional Research Consultants, Inc. [Item 308]
- Asked of all respondents.

Notes:
- Income categories reflect respondent’s household income as a ratio to the federal poverty level (FPL) for their household size. “Low Income” includes households with incomes up to 200% of the federal poverty level. “Mid/High Income” includes households with incomes at 200% or more of the federal poverty level.
**Self-Reported Health Status**
(Yellowstone County, 2020)

- Excellent: 12.9%
- Very Good: 36.3%
- Good: 34.1%
- Fair: 11.0%
- Poor: 5.7%

**Sources:**
- 2020 PRC Community Health Survey, PRC, Inc. [Item 5]

**Notes:**
- Asked of all respondents.

---

**Experience “Fair” or “Poor” Overall Health**

<table>
<thead>
<tr>
<th>Year</th>
<th>Yellowstone County</th>
<th>MT</th>
<th>US</th>
<th>National Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>2005</td>
<td>17.1%</td>
<td>20%</td>
<td>20%</td>
<td>19.5%</td>
</tr>
<tr>
<td>2010</td>
<td>16.3%</td>
<td>20%</td>
<td>20%</td>
<td>18.6%</td>
</tr>
<tr>
<td>2014</td>
<td>15.4%</td>
<td>20%</td>
<td>20%</td>
<td>18.0%</td>
</tr>
<tr>
<td>2017</td>
<td>16.7%</td>
<td>20%</td>
<td>20%</td>
<td>17.5%</td>
</tr>
<tr>
<td>2020</td>
<td>16.7%</td>
<td>20%</td>
<td>20%</td>
<td>17.0%</td>
</tr>
</tbody>
</table>

**Sources:**
- 2020 PRC Community Health Survey, PRC, Inc. [Item 5]
- 2017 PRC National Health Survey, PRC, Inc.

**Notes:**
- Asked of all respondents.
### Experience “Fair” or “Poor” Overall Health
(Yellowstone County, 2020)

<table>
<thead>
<tr>
<th>Category</th>
<th>Men</th>
<th>Women</th>
<th>18 to 39</th>
<th>40 to 64</th>
<th>65+</th>
<th>Low Income</th>
<th>Mid/High Income</th>
<th>Yellowstone County</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Status</td>
<td>15.1%</td>
<td>18.3%</td>
<td>3.4%</td>
<td>21.5%</td>
<td>30.0%</td>
<td>23.5%</td>
<td>12.8%</td>
<td>16.7%</td>
</tr>
</tbody>
</table>

**Sources:**
- 2020 PRC Community Health Survey, PRC, Inc. [Item 5]
- Asked of all respondents.
- Income categories reflect respondent’s household income as a ratio to the federal poverty level (FPL) for their household size. “Low income” includes households with incomes up to 200% of the federal poverty level. “Mid/High Income” includes households with incomes at 200% or more of the federal poverty level.

### Age-Adjusted Death Rates for Selected Causes
(2015-2017 Deaths per 100,000 Population)

<table>
<thead>
<tr>
<th>Cause</th>
<th>Yellowstone County</th>
<th>Montana</th>
<th>US</th>
<th>HP2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Malignant Neoplasms (Cancers)</td>
<td>158.7</td>
<td>151.8</td>
<td>155.6</td>
<td>161.4</td>
</tr>
<tr>
<td>Diseases of the Heart</td>
<td>155.3</td>
<td>155.1</td>
<td>168.3</td>
<td>156.9*</td>
</tr>
<tr>
<td>Chronic Lower Respiratory Disease (CLRD)</td>
<td>63.2</td>
<td>51.9</td>
<td>41.0</td>
<td>n/a</td>
</tr>
<tr>
<td>Unintentional Injuries</td>
<td>48.5</td>
<td>53.5</td>
<td>48.7</td>
<td>36.4</td>
</tr>
<tr>
<td>Cerebrovascular Disease (Stroke)</td>
<td>37.3</td>
<td>34.0</td>
<td>37.5</td>
<td>34.8</td>
</tr>
<tr>
<td>Intentional Self-Harm (Suicide)</td>
<td>25.3</td>
<td>28.7</td>
<td>13.6</td>
<td>10.2</td>
</tr>
<tr>
<td>Alzheimer’s Disease</td>
<td>22.5</td>
<td>21.4</td>
<td>30.2</td>
<td>n/a</td>
</tr>
<tr>
<td>Diabetes</td>
<td>19.9</td>
<td>23.2</td>
<td>21.3</td>
<td>20.5*</td>
</tr>
<tr>
<td>Firearm-Related</td>
<td>18.3</td>
<td>20.2</td>
<td>11.6</td>
<td>9.3</td>
</tr>
<tr>
<td>Cirrhosis/Liver Disease</td>
<td>13.9</td>
<td>15.1</td>
<td>10.8</td>
<td>8.2</td>
</tr>
<tr>
<td>Pneumonia/Influenza</td>
<td>13.0</td>
<td>12.7</td>
<td>14.3</td>
<td>n/a</td>
</tr>
<tr>
<td>Motor Vehicle Deaths</td>
<td>12.7</td>
<td>17.7</td>
<td>11.4</td>
<td>12.4</td>
</tr>
<tr>
<td>Kidney Disease</td>
<td>6.6</td>
<td>9.9</td>
<td>13.2</td>
<td>n/a</td>
</tr>
<tr>
<td>Unintentional Drug-Related Deaths</td>
<td>4.1</td>
<td>8.6</td>
<td>12.3</td>
<td>11.3</td>
</tr>
<tr>
<td>Homicide/Legal Intervention</td>
<td>3.3</td>
<td>3.6</td>
<td>5.6</td>
<td>5.5</td>
</tr>
</tbody>
</table>

**Sources:**
- CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted October 2019.
- Rates are per 100,000 population, age-adjusted to the 2000 US Standard Population and coded using ICD-10 codes.
- *The Healthy People 2020 Heart Disease target is adjusted to account for all diseases of the heart; the Diabetes target is adjusted to reflect only diabetes mellitus-coded deaths.
Community Response
The 2020 CHNA revealed 13 Areas of Opportunity, listed in the image below. These areas have been identified by our consultant as significant health concerns in Yellowstone County. Key informant survey respondents were asked to rate the degree to which each is an issue in our community prior to receiving the most recent data.
<table>
<thead>
<tr>
<th>Social Determinants</th>
<th>Yellowstone County</th>
<th>Yellowstone vs. Benchmarks</th>
<th>Yellowstone County Trends</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>vs. MT vs. US vs. HP2020</td>
<td></td>
</tr>
<tr>
<td>Linguistically Isolated Population (Percent)</td>
<td>0.4</td>
<td>🌞</td>
<td></td>
</tr>
<tr>
<td>Population in Poverty (Percent)</td>
<td>10.1</td>
<td>🌞</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>🌞</td>
<td></td>
</tr>
<tr>
<td>Children in Poverty (Percent)</td>
<td>11.9</td>
<td>🌞</td>
<td></td>
</tr>
<tr>
<td>No High School Diploma (Age 25+, Percent)</td>
<td>7.1</td>
<td>🌞</td>
<td></td>
</tr>
<tr>
<td>Unemployment Rate (Age 18+, Percent)</td>
<td>2.9</td>
<td>🌞</td>
<td></td>
</tr>
<tr>
<td>% Worry/Stress Over Rent/Mortgage in Past Year</td>
<td>27.8</td>
<td>🌞</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>🌞</td>
<td></td>
</tr>
<tr>
<td>% Unsafe/Unhealthy Housing Conditions in the Past Year</td>
<td>7.0</td>
<td>🌞</td>
<td></td>
</tr>
<tr>
<td>% Can Rely on Public Transportation</td>
<td>53.4</td>
<td>🌞</td>
<td></td>
</tr>
<tr>
<td>% Have &quot;No Impact&quot; on Improving Community Life</td>
<td>8.8</td>
<td>🌞</td>
<td></td>
</tr>
<tr>
<td>% Aware of Montana 2-1-1</td>
<td>19.6</td>
<td>🌞</td>
<td></td>
</tr>
<tr>
<td>% &quot;Fair/Poor&quot; Physical Health</td>
<td>16.7</td>
<td>🌞</td>
<td></td>
</tr>
</tbody>
</table>

For survey indicators, this represents baseline findings (earliest year available) vs. 2020 (current findings). For secondary data indicators, the years can vary but typically represent a span of 7 to 10 years.