

# 2022-2023 Yellowstone County Community Health Needs Assessment

## Data Packet: Cancer

Recommended Citation: Professional Research Consultants, Inc.

2023 Community Health Needs Assessment Report: Yellowstone County, Montana

[hbdyc.org/CHNA](https://hbdyc.org/CHNA) – Published January 4, 2023



# How to Use This Data Packet

The graphs, data points, trends, and other insights shared in this data packet can be utilized when seeking:

- Verified local data for data acquisition or utilization purposes such as grant applications, local and non-local trend tracking, etc.
- High resolution slides for use in presentations or educational materials.
- Accessible, accurate data to increase understanding of community health topics and health disparities.
- A condensed, topic-specific alternative to reading 200+ pages of data!

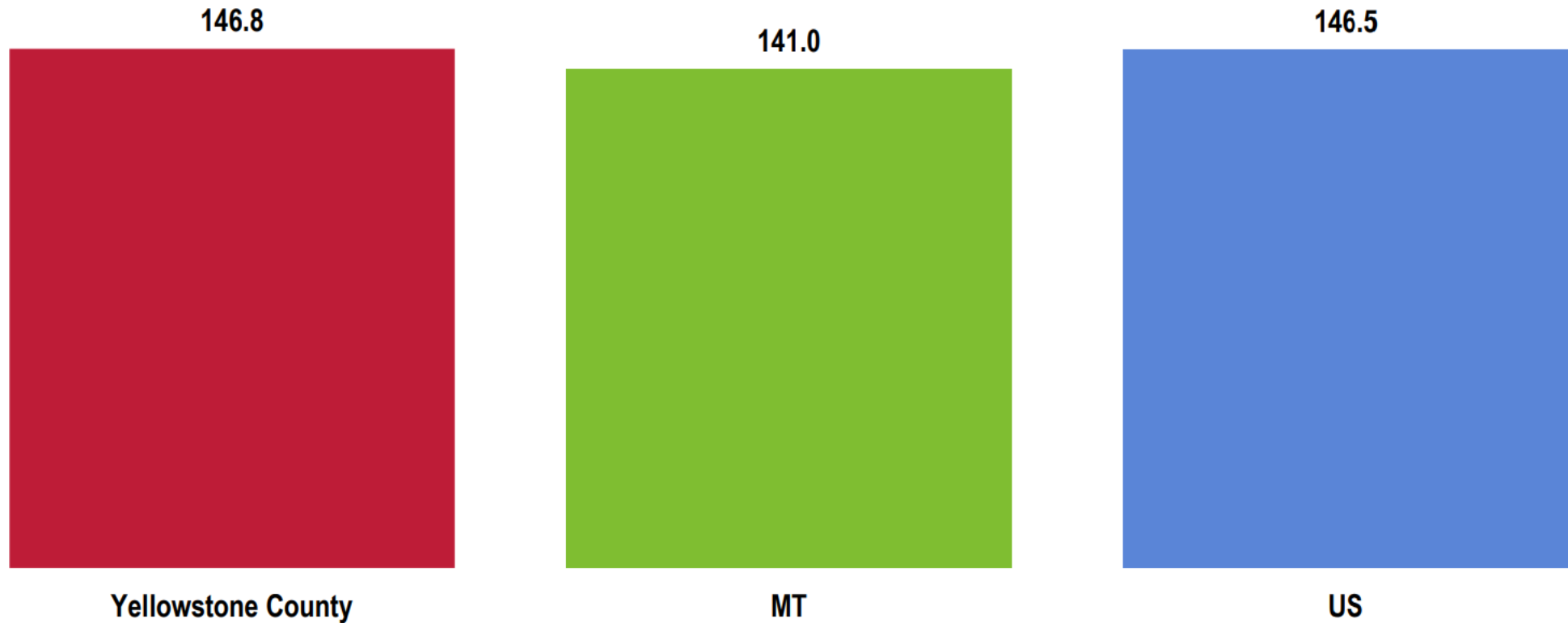
## Key Takeaways – Cancer

- **84.2%** of women aged 50-74 have received **breast cancer screening** within the past 2 years, the highest level since 2005.
- While colorectal cancer screenings have improved significantly since 2014, **cervical cancer screening** in women aged 21-65 has seen an **overall decrease** since 2005.
- Cancer-related deaths have seen an overall decrease since 2011-2013.
- Yellowstone County is more likely to report diagnoses of female breast cancer, prostate cancer, lung cancer, and colon/rectal cancer than state or national figures.

# Cancer: Age-Adjusted Mortality

(2018-2020 Annual Average Deaths per 100,000 Population)

Healthy People 2030 = 122.7 or Lower



- Sources:
- CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted July 2022.
  - US Department of Health and Human Services. Healthy People 2030. August 2020. <http://www.healthypeople.gov>

# Cancer: Age-Adjusted Mortality Trends (Annual Average Deaths per 100,000 Population)

Healthy People 2030 = 122.7 or Lower



	2011-2013	2012-2014	2013-2015	2014-2016	2015-2017	2016-2018	2017-2019	2018-2020
Yellowstone County	167.9	158.1	157.7	151.5	158.7	154.6	152.1	146.8
MT	158.0	155.2	155.8	153.0	151.8	146.4	144.7	141.0
US	171.5	168.0	160.1	157.6	155.6	152.5	149.3	146.5

- Sources:
- CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted July 2022.
  - US Department of Health and Human Services. Healthy People 2030. August 2020. <http://www.healthypeople.gov>

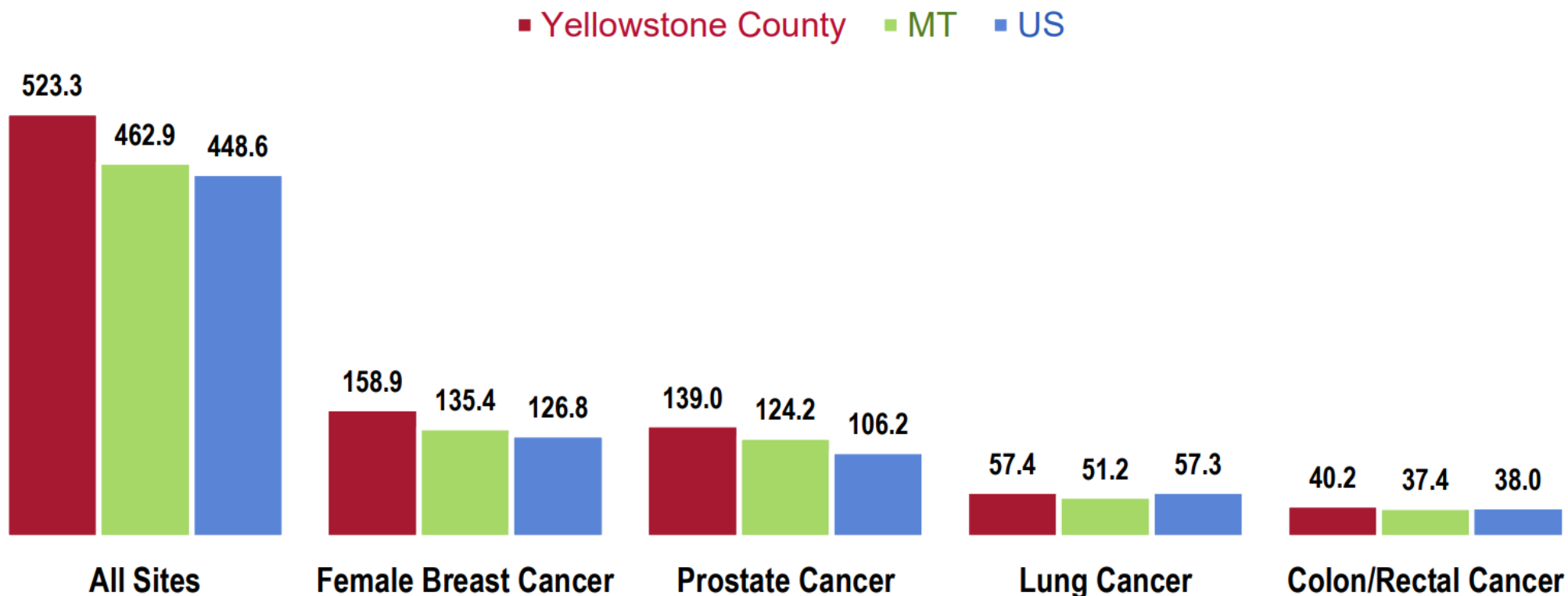
## Age-Adjusted Cancer Death Rates by Site (2018-2020 Annual Average Deaths per 100,000 Population)

	Yellowstone County	MT	US	HP2030
<b>ALL CANCERS</b>	<b>146.8</b>	<b>141.0</b>	<b>146.5</b>	<b>122.7</b>
<b>Lung Cancer</b>	<b>29.7</b>	<b>28.7</b>	<b>33.4</b>	<b>25.1</b>
<b>Prostate Cancer</b>	<b>21.9</b>	<b>20.5</b>	<b>18.5</b>	<b>16.9</b>
<b>Female Breast Cancer</b>	<b>17.1</b>	<b>17.9</b>	<b>19.4</b>	<b>15.3</b>
<b>Colorectal Cancer</b>	<b>11.2</b>	<b>11.9</b>	<b>13.1</b>	<b>8.9</b>

- Sources:
- CDC WONDER Online Query System. Centers for Disease Control and Prevention, Epidemiology Program Office, Division of Public Health Surveillance and Informatics. Data extracted July 2022.
  - US Department of Health and Human Services. Healthy People 2030. August 2020. <http://www.healthypeople.gov>

# Cancer Incidence Rates by Site

(Annual Average Age-Adjusted Incidence per 100,000 Population, 2014-2018)



Sources: ● State Cancer Profiles.

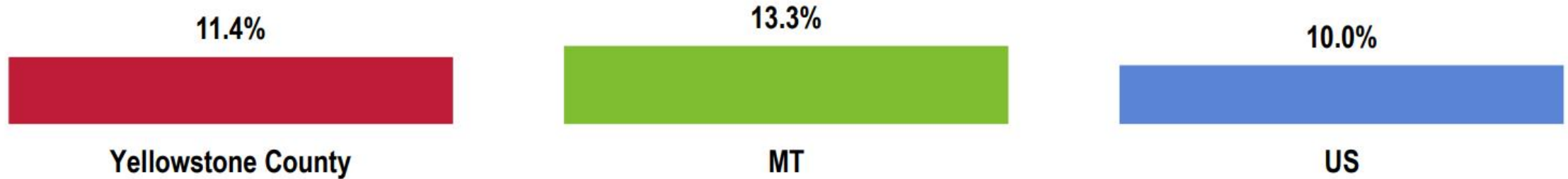
● Center for Applied Research and Engagement Systems (CARES), University of Missouri Extension. Retrieved July 2022 via SparkMap ([sparkmap.org](https://sparkmap.org)).

Notes: ● This indicator reports the age adjusted incidence rate (cases per 100,000 population per year) of cancers, adjusted to 2000 US standard population age groups (under age 1, 1-4, 5-9, ..., 80-84, 85 and older). This indicator is relevant because cancer is a leading cause of death and it is important to identify cancers separately to better target interventions.

# Prevalence of Cancer

The most common types of cancers cited locally include:

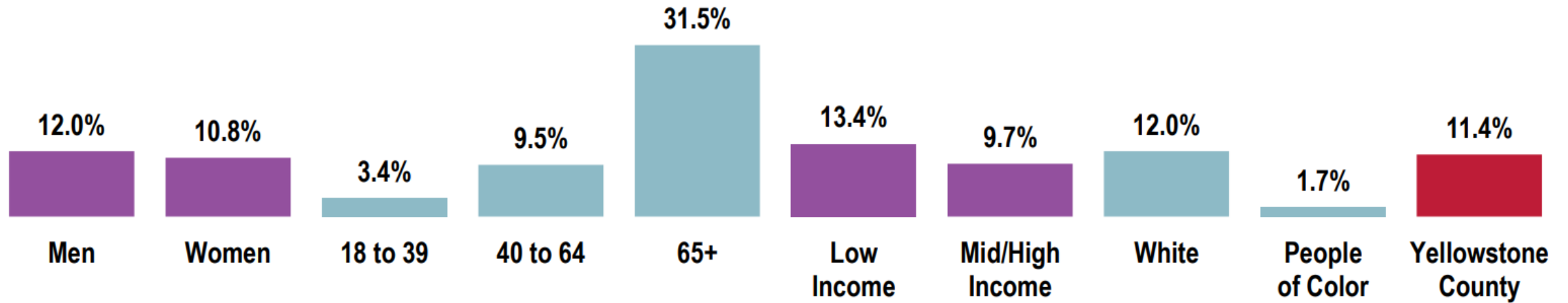
- 1) Skin Cancer 36.3%
- 2) Prostate Cancer 12.5%
- 3) Breast Cancer 11.4%



- Sources:
- 2023 PRC Community Health Survey, PRC, Inc. [Items 25-26]
  - Behavioral Risk Factor Surveillance System Survey Data. Atlanta, Georgia. United States Department of Health and Human Services, Centers for Disease Control and Prevention (CDC): 2020 Montana data.
  - 2020 PRC National Health Survey, PRC, Inc.
- Notes:
- Reflects all respondents.



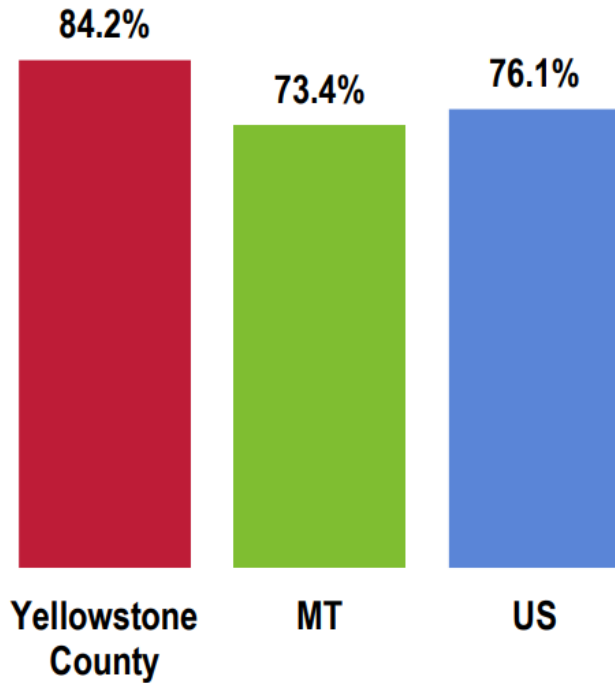
# Prevalence of Cancer (Yellowstone County, 2023)



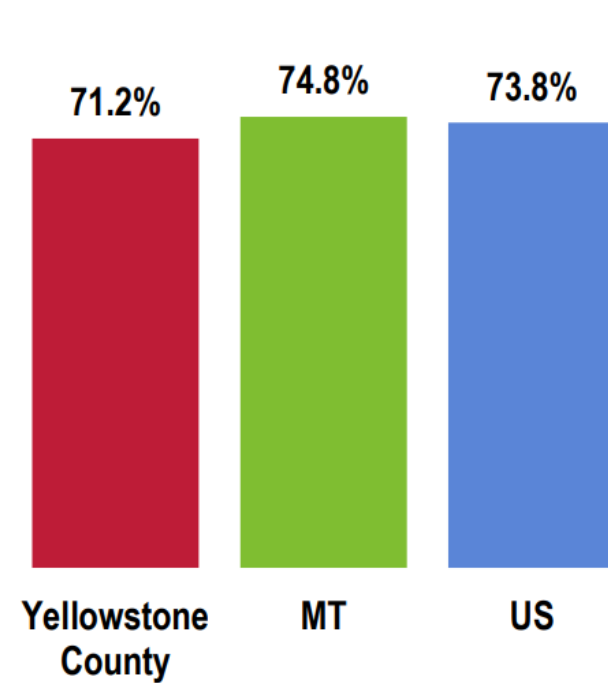
Sources: ● 2023 PRC Community Health Survey, PRC, Inc. [Item 25]

Notes: ● Reflects all respondents.

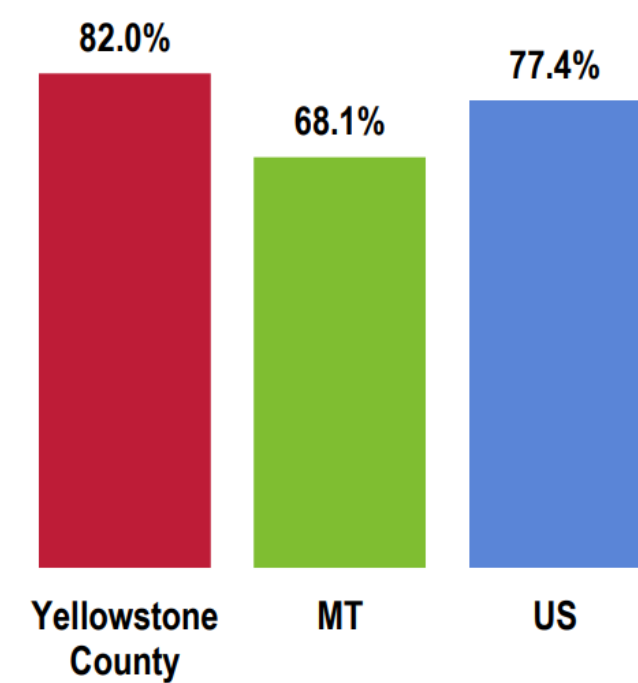
### Breast Cancer Screening (Women Age 50-74) Healthy People 2030 = 77.1% or Higher



### Cervical Cancer Screening (Women Age 21-65) Healthy People 2030 = 84.3% or Higher



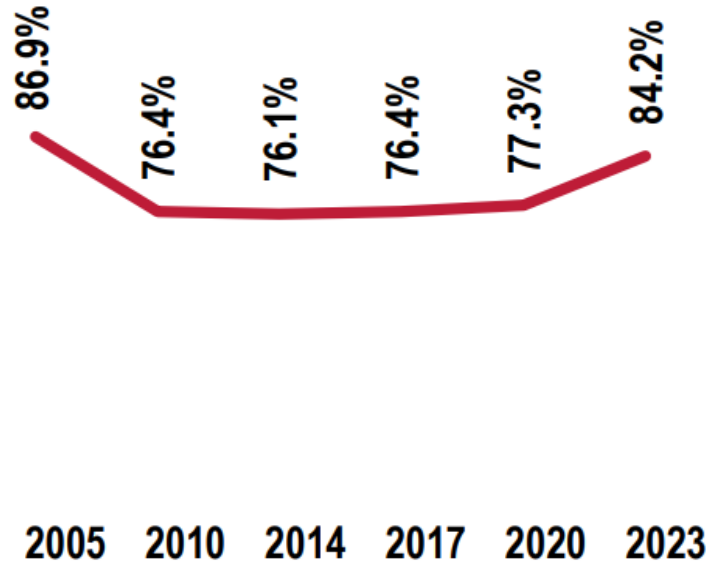
### Colorectal Cancer Screening (All Adults Age 50-75) Healthy People 2030 = 74.4% or Higher



- Sources:
- 2023 PRC Community Health Survey, PRC, Inc. [Items 116-118]
  - Behavioral Risk Factor Surveillance System Survey Data. Atlanta, Georgia. United States Department of Health and Human Services, Centers for Disease Control and Prevention (CDC): 2020 Montana data.
  - 2020 PRC National Health Survey, PRC, Inc.
  - US Department of Health and Human Services. Healthy People 2030. August 2020. <http://www.healthypeople.gov>
- Notes:
- Each indicator is shown among the gender and/or age group specified.

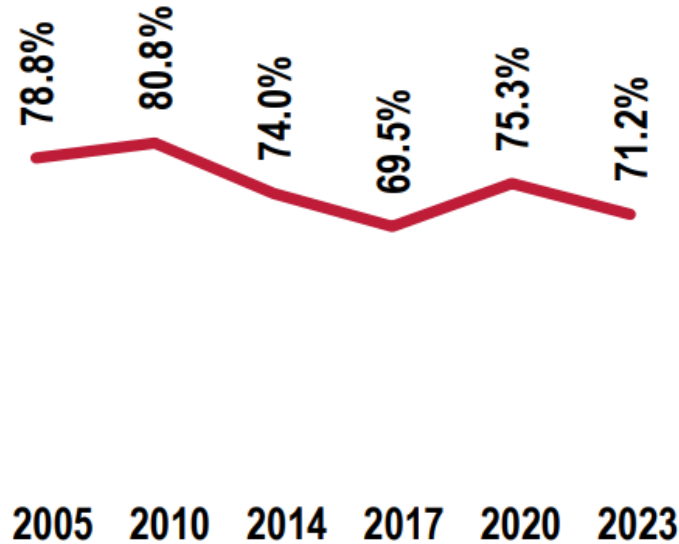
## Breast Cancer Screening (Women Age 50-74)

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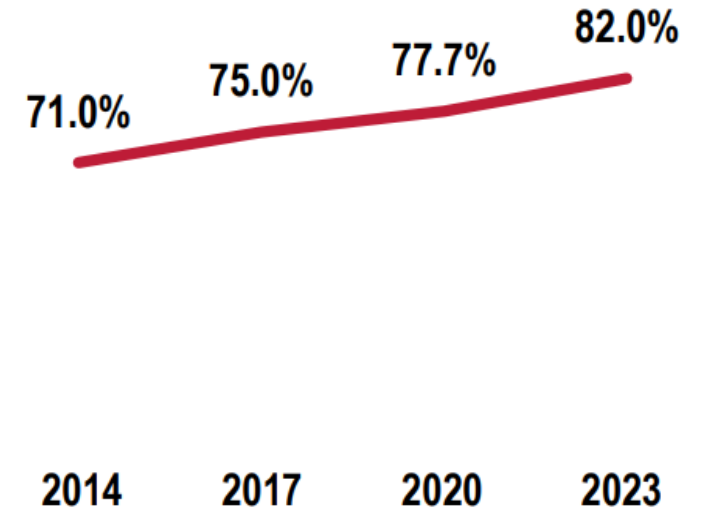
## Cervical Cancer Screening (Women Age 21-65)

Healthy People 2030 = 84.3% or Higher



## Colorectal Cancer Screening (All Adults Age 50-75)

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- Sources:
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- Notes:
- Each indicator is shown among the gender and/or age group specified.

# Key Informant Input

## Perceptions of Cancer as a Problem in the Community (Key Informants, 2023)

■ Major Problem

■ Moderate Problem

■ Minor Problem

■ No Problem At All



Sources: ● PRC Online Key Informant Survey, PRC, Inc.

Notes: ● Asked of all respondents.

# Key Informant Input



















Key informants highlighted topics such as:























- Incidence/Prevalence
- (Lack of) Access to Care/Services
- Environmental Contributors

**“Cancer is a major problem because of environmental, social, and nutritional factors that can lead to a cancer diagnosis. For example, air quality, smoking, drinking, and poor nutrition, and diet. Pesticides, toxins – present in the land and in our food contribute as well. Cancer is (a) major problem in our community, especially with marginalized groups.”** – Community Leader

“It may just be my age, but I feel like I know more and more people who are battling cancer.” – Community Leader

# Cancer Health Forecast

CANCER	Yellowstone County	vs. MT	vs. US	vs. HP2030	TREND
Cancer (Age-Adjusted Death Rate)	146.8	 141.0	 146.5	 122.7	 167.9
Lung Cancer (Age-Adjusted Death Rate)	29.7	 28.7	 33.4	 25.1	
Prostate Cancer (Age-Adjusted Death Rate)	21.9	 20.5	 18.5	 16.9	
Female Breast Cancer (Age-Adjusted Death Rate)	17.1	 17.9	 19.4	 15.3	
Colorectal Cancer (Age-Adjusted Death Rate)	11.2	 11.9	 13.1	 8.9	
Cancer Incidence Rate (All Sites)	523.3	 462.9	 448.6		

Female Breast Cancer Incidence Rate	158.9	 135.4	 126.8		
Prostate Cancer Incidence Rate	139.0	 124.2	 106.2		
Lung Cancer Incidence Rate	57.4	 51.2	 57.3		
Colorectal Cancer Incidence Rate	40.2	 37.4	 38.0		
% Cancer	11.4	 13.3	 10.0		
% [Women 50-74] Mammogram in Past 2 Years	84.2	 73.4	 76.1	 77.1	 86.9
% [Women 21-65] Cervical Cancer Screening	71.2	 74.8	 73.8	 84.3	 78.8
% [Age 50-75] Colorectal Cancer Screening	82.0	 68.1	 77.4	 74.4	 71.0

# Published Community Health Needs Assessment at: [www.hbdyc.org](http://www.hbdyc.org)

*Visit the website to contact Healthy By Design  
for additional information regarding the coalition or next steps*

Contact: Amy Queen, Community Health Improvement Manager  
406.247.3223 [amy@hbdyc.org](mailto:amy@hbdyc.org)

