

TECHNICAL DOCUMENTATION

Overview

This report contains details about the development of the 2023 Wyoming Healthy Aging Data report. This includes technical definitions, data sources, years of data used, and definitions of the geographic units employed for indicators. Our general approach is hierarchical reporting. We report indicators at the county level when data allow, and report in larger geographic units (i.e., public health districts) when necessary.

1. Healthy Aging Indicator Definitions

Most indicators are derived from secondary data sources and limited to those indicators for which data are available at the county-level or larger geographic subareas within Wyoming. Table A-1 contains technical definitions for the indicators reported in this study.

2. Data Sources

Multiple data sources are used in this study. Table A-2 contains a summary of all data sources, and the specific years of data used for each reported indicator. Estimates of county-level indicators of population characteristics, living with disability, caregiving, transportation, housing, and economic indicators were mainly derived from the Five-Year American Community Survey (2016-2020) produced by the U.S. Census Bureau. Wellness, falls, preventive health practices, nutrition/diet, and oral health indicators were mainly derived from the State of Wyoming Behavioral Risk Factor Surveillance System (BRFSS) (2011-2020). The chronic condition indicators and access to care indicators were derived from the Centers for Medicare and Medicaid Services (CMS) Select Chronic Conditions Dataset (2018) and Medicare.gov.

U.S. Census Bureau

Data on population composition were downloaded from the U.S. Census Bureau (<https://data.census.gov/cedsci/>). All census population estimates reported in the community profiles were derived from the 5-year detailed tables from the *American Community Survey* (2016-2020). Each indicator was downloaded for all N=23 counties in Wyoming. Each downloaded data table from the ACS is described below in Table A1.

Behavioral Risk Factor Surveillance System

The Behavioral Risk Factor Surveillance System (BRFSS) is a state-based system of annual health surveys established by the Centers for Disease Control and Prevention (CDC) that collects information on health risk behaviors, preventive health practices, and health care access, primarily related to chronic disease and injury. The BRFSS provides a rich source of information about individual health behaviors such as smoking, excessive drinking, obesity, preventive health service use, which are relevant for the development of healthy aging indicators. A core set of questions about such health behaviors are included every year.

The BRFSS survey is carried out under a complex survey design intended to enhance the efficiency of using limited population samples to produce reliable state-level estimates of health indicators. Respondents are oversampled in larger cities in the state under the BRFSS complex survey design to increase the representation of racial/ethnic minority respondents. Before 2008, BRFSS data were obtained entirely through land-line telephone surveys. Because of the rising

prevalence of households with only cellphones, the BRFSS survey design was modified in 2011 to include both landline and cell phone samples. Furthermore, the method used to derive post-stratification factors was changed in 2011 to a raking procedure that permits finer adjustments to population weights based on multiple population attributes. These changes in the 2011 BRFSS survey design introduce some complexities when data from 2010 or earlier are pooled with more recent data.

A major strength of the BRFSS data is its rich information on health behaviors. To our knowledge, no other secondary dataset has the range of variables on health behaviors of older Mississippi residents. However, the BRFSS has several limitations for small area analyses. The BRFSS survey design was developed for obtaining the state-level estimates. Accordingly, the respondent sample sizes for many individual counties in Wyoming in any year are far too small to produce reliable estimates for many counties. Because of the small sample size of annual BRFSS surveys, multiple years of survey data were pooled together, and multiple counties were aggregated together to create larger geographic areas containing multiple counties. While most estimates were derived from pooling the four most recent years of BRFSS survey data (2017-2020), some questions used for indicator estimates are not asked every year. Table A-2 shows the specific years of data used to derive estimates for each BRFSS indicator. Details about estimation methods are provided in the section describing BRFSS estimation methods.

Centers for Medicare and Medicaid Services (CMS) Data Sources

CMS Chronic Conditions Data Warehouse

The Select Chronic Conditions dataset reports on the prevalence of 21 selected chronic conditions of Medicare fee-for-service beneficiaries. Chronic condition prevalence of each county is reported for the year 2018.

Medicare Provider Data

Data on Medicare service providers were obtained from the data dashboard on the Medicare website (<http://www.medicare.gov/>). The geographic location of each provider was obtained from the data sources listed below. The addresses of the providers were then geocoded into latitude and longitudinal points to be mapped in ArcMap 10.8. The number, or count, of providers were then aggregated to the county level in ArcMap.

Primary care providers (PCPs) were obtained from the Doctors and Clinicians national downloadable file (<https://data.cms.gov/provider-data/dataset/mj5m-pzi6>). Primary care providers were defined as physicians with the following main specialties listed in the provider file: family practice, general practice, geriatric medicine, internal medicine. In addition, physician assistants and nurse practitioners in the above specialties were also considered as PCPs. Number of hospitals per county was obtained from the Hospital General Information data table (<https://data.cms.gov/provider-data/dataset/xubh-q36u>). Number of home health agencies per county was obtained from the Home Health Care Agencies data table (<https://data.cms.gov/provider-data/dataset/6jpm-sxkc>). Number of nursing homes per county was obtained from the Provider Information data table (<https://data.cms.gov/provider-data/dataset/4pg5-n9py>). Number of hospice agencies per county was obtained from the Hospice – Provider Data table (<https://data.cms.gov/provider-data/dataset/xubh-q36u>).

Other Data Sources

Although most of the indicators in this data report were obtained from the U.S. Census Bureau's ACS, the WY BRFSS, and the CMS additional county level data sources were utilized.

1. Life expectancy at birth was obtained from the Robert Wood Johnson Foundation *Life Expectancy: Could Where You Live Influence How Long You Live?* Data was accessed May 2023. (<https://www.rwjf.org/en/library/interactives/whereyouliveaffectshowlongyoulive.html>).
2. Data on COVID-19 cases and deaths were obtained from the Wyoming Department of Health COVID-19 dashboard. Data was assessed February 3rd, 2023. (<https://sites.google.com/wyo.gov/covid-19/home>).
3. Data on COVID-19 vaccinations were obtained from the Centers for Disease Control and Prevention (CDC) COVID Data Tracker. Data were accessed February 23rd, 2023. (https://covid.cdc.gov/covid-data-tracker/#county-view?list_select_state=Wyoming&data-type=Vaccinations).
4. The number of dentists per 100,000 persons (all ages) was obtained from the Health Resources and Services Administration (HRSA) Area Health Resources Files (AHRF). Data were assessed February 2023. (<https://data.hrsa.gov/topics/health-workforce/ahrf>).
5. The CDC Wonder website was used to access the Multiple Cause of Death, 2016-2020 dataset. Mortality data are coded by each state and given to the National Center for Health Statistics through the Vital Statistics Cooperative Program. See (<https://wonder.cdc.gov/wonder/help/mcd.html>) for additional information. County-level data for drug overdose deaths, homicide rate per 100,000 people, 65+ deaths by suicide, and number of firearm fatalities were accessed using (<https://wonder.cdc.gov/mcd.html>).
6. The number of community health centers were downloaded from the "Find a Health Center Tool" from the HRSA Data Warehouse. Data were accessed in July 2022. (<https://findahealthcenter.hrsa.gov/?zip=Wyoming%252C%2BUSA&radius=250&incrementalsearch=false>).
7. The number of adult day health centers were downloaded from the Aging Care website. Data was accessed in July 2022. (<https://www.agingcare.com/local/adult-day-care/wy>).
8. Particulate matter (PM2.5) and ozone annual averages were obtained from United States Environmental Protection Agency, Outdoor Air Quality Data. Data was assessed July 2022. (<https://www.epa.gov/outdoor-air-quality-data/download-daily-data>).
9. The AirNow website of the U.S. Environmental Protection Agency provides measures air quality with the Air Quality Index (AQI) with scores ranging from 0 to 500. *AirCompare* provides county-level comparisons of the number of days in a year that AQI values are between 101 and 150 (code orange) and/or exceed 150 (code red) for specific subpopulations. For the subpopulation that includes older persons without specific health concerns, the total count of days includes code red days for any pollutant and code orange days for ozone and particulate matter. Data on annual number of unhealthy days for persons age 65 and older were obtained from (<https://www3.epa.gov/aircompare/#trends>). The number of unhealthy days were obtained by clicking each county on the map.
10. Age-friendly efforts were collected from the AARP livable community network. Data was accessed in March 2023. (<https://www.aarp.org/livable-communities/network-age-friendly-communities/info-2014/member-list.html>).
11. Senior centers per county were obtained from the Wyoming Department of Health website. Data was assessed March 2023. (<https://health.wyo.gov/aging/communityliving/service-area-maps/>)

12. Voter participation rate for voters 18 years and older for the 2020 election were obtained at the county level by the State of Wyoming. Data was obtained in August 2022.
13. Data on fatality related with motor vehicle crash were downloaded from the National Highway Traffic Safety Administration (NHTSA) website (<http://www.nhtsa.gov/FARS>). The Fatality Analysis Reporting System (FARS) is annual data on traffic crashes resulting in at least one fatality occurring within 30 days of the crash. The FARS contains data derived from a census of fatal traffic crashes within 50 states, the District of Columbia, and Puerto Rico. We selected fatal crashes with at least one death of vehicle occupants (e.g. driver or passenger) or non-motorist (e.g. pedestrian) occurring in Wyoming only from 2016 to 2020.
14. Four measures of geographic comparative cost of living are reported at the county level using the Elder Index. This index contains county estimates of the minimum income needed by older households to attain a modest standard of living in the community that reflects economic security. "The Elder Index defines economic security as the financial status where elders have sufficient income (from Social Security, pensions, retirement savings, and other sources) to cover basic and necessary living expenses" (Gerontology Institute, 2012). While Elder Index estimates are available at the county-level for 18 different types of community-resident households with a head 65 years or older defined by health status (excellent, good, poor), living situation (alone, couple), housing costs (owner with mortgage, owner without mortgage, renter), we report Elder Index estimates for four types of households in good health (single renters, single owners without mortgages, couple renters, and couple owners without mortgages). Elder indices for 2018 were downloaded for all counties in Wyoming from the Elder Index Database (<https://elderindex.org/>).

3. Geographic Area Definitions of Communities

Data availability limited the geographic specificity of the community definitions for which some healthy aging indicators could be measured. There are two major factors that constrained how finely geographic communities could be defined. The first factor is the relatively small sample size of the WY BRFSS data. The second factor is the sparse actual populations of older persons residing in some WY counties. Even if data were available for all older persons in some of these counties, some populations are too small for public reporting of county-level estimates due to privacy concerns.

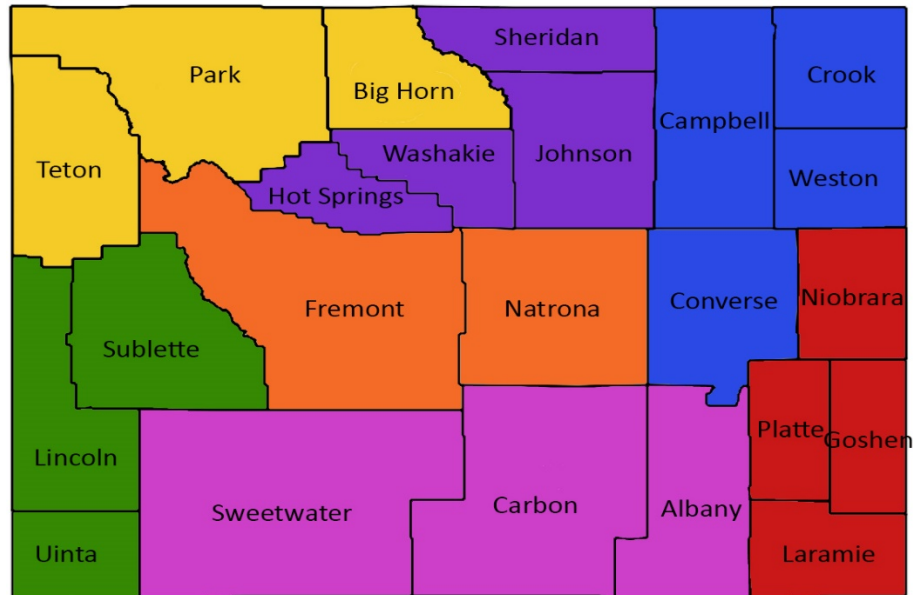
In this study we addressed the problems associated with sparsely populated populations by selectively aggregating some smaller counties together into larger geographic areas to increase the sample size used for estimation. The estimates derived for the larger aggregated geographic area are then reported for all individual constituent counties. This is an acknowledged limitation of this study.

Geographic Areas for BRFSS Indicators

We estimated BRFSS indicators for 23 counties in Wyoming. When needed, we used 7 subareas (combined counties) for estimation when sample sizes were low.

In the next step we evaluated whether the preliminary BRFSS areas defined in the first step satisfied the minimum threshold for numerator counts according to data use agreement with the Wyoming Department of Health (WDOH). For any percentage BRFSS indicator derived from a respondent-level binary (yes/no) variable we required that there be least 10 respondents with the smaller count of yes versus no responses. All denominator sample sizes satisfied the

requirement of N=50 or more respondents. This process produced a preliminary set of N=7 geographic areas for estimating indicators from BRFSS data. Map 1 showcases the N=7 unique geographic areas. However, we found that five indicators (current smoking, using E-Cigarette, using Marijuana, delayed care due to cost, and 15 or more days with poor mental health) had too much missing data. Upon the advice of our Wyoming partners, it was decided that these indicators would be reported by N=7 areas of public health districts defined by the Wyoming Department of Health.



Map 1. *The N=7 BRFSS Area County Assignments as defined by the Wyoming Department of Health.* Map source: WDOH

Geographic Level of Indicators

The Wyoming Healthy Aging Data Reports aim to report indicators at the county level, but some indicators are reported at a larger geographic area when needed. As described above, the BRFSS indicators are organized by geographic area of individual or grouped counties by public health district. Below, the indicators are organized by the geographic unit they are reported.

County level

Population characteristics

All population characteristics are reported at the county level.

COVID-19

All COVID-19 indicators were reported at the county level: the number of total COVID-19 cases, mortality rate, and 65+ vaccination rates from March 2020 through January 2023.

Chronic Disease

All chronic disease indicators are reported at the county level. The HADR reports the % of 65+ with the following chronic diseases: Alzheimer’s disease or related dementias, arthritis, asthma,

atrial fibrillation, cancer (breast, colorectal, lung, prostate), chronic kidney disease, chronic obstructive pulmonary disease, diabetes, high cholesterol, heart failure, hypertension, ischemic heart disease, osteoporosis, and stroke.

Oral Health

All oral health indicators are reported at the county level.

Behavioral Health

The following behavioral health indicators are reported at the county level: number of drug overdose deaths of all ages, % 65+ with alcohol abuse disorder, and drug abuse/substance abuse, and % 60+ reporting excessive drinking.

Mental Health

The following mental health indicators are reported at the county level: the % of 65+ with depression and schizophrenia and other psychotic disorders.

Living with disability

All living with disability indicators were reported at the county level: the % of 65+ with self-reported hearing, vision, cognition, ambulatory, self-care, and independent living difficulty.

Caregiving

All caregiving indicators are reported at the county level: the % of grandparents raising grandchildren, and who live with grandchildren.

Access to Care

The following access to care indicators are reported at the county level and represent the number of providers in the county for: primary care providers, home health agencies, nursing homes, community health centers, adult day health centers, and hospice agencies. In addition, the % of 60+ with a regular doctor was also reported at the county level.

Community

All community indicators are reported at the county level: average annual rates of particulate matter, and ozone at the county level, annual number of unhealthy days for 65+, number of age friendly efforts, and senior centers in county; and voter participation rates in 2020 election among 18+. In addition, the percentage of households with smartphones, access to internet and broadband, and without access to a computer or internet are reported at the county level.

Safety and Crime

All safety and crime indicators are reported at the county level: the homicide rate per 100,000 persons, the number of firearm fatalities, and number of 65+ deaths by suicide.

Transportation

All transportation indicators were reported at the county level: the % of 65+ who own a motor vehicle, the % of 60+ who always drive or ride wearing a seatbelt, and the number of fatal crashes involving an adult age 60+ per county.

Housing

All housing indicators were reported at the county level: average household size, median house value, the % 60+ who own a home, have a mortgage, and the % of 65+ population living alone, renter households who spend >35% of income on housing, and owner households who spend >35% of income on housing.

Economic

All economic indicators are reported at the county level: the % 60+ receiving food stamps in past year; % of 65+ employed last year, with income below the poverty level in last year, 65+ median household income, and % of 65+ households with annual income below \$20,000; between \$20,000-\$49,999; between \$50,000-\$99,999; and above \$100,000.

Cost of Living

All cost-of-living indicators are reported at the county level: the cost of living for a single homeowner without a mortgage in good health, the cost of living for a single renter in good health, the cost of living for a couple who are homeowners without a mortgage in good health, and the cost of living for a couple who are renters and in good health.

BRFSS area

Behavioral Health

The following behavioral health indicators were reported at the BRFSS level: the % of 60+ who were current smokers, ever used E-cigarettes, marijuana.

Mental Health

The following mental health indicator is reported at the BRFSS level: the % of 60+ with 15 days poor mental health last month.

Access to Care

The following access to care indicators were reported at the BRFSS level: the % 60+ who did not see a doctor when needed due to cost.

4. Estimation Methods for Wyoming BRFSS Indicators

Sample Selection Criteria

The selection criteria for the estimation samples used to estimate BRFSS indicators were straightforward. The estimation samples included all BRFSS respondents who were 60 years or

older with a valid county code. These selection criteria were applied to BRFSS data from 2011 through 2020.

Assignment of Respondents to Geographic Areas

As noted earlier, there were N=23 BRFSS geographic areas or regions defined for estimation of BRFSS indicators. Over the nine-year period 2011-2020, there were N=31,336 BRFSS respondents.

After assigning individual BRFSS respondents to specific counties, they were subsequently assigned to the 23 geographic BRFSS areas via a cross-walk file.

Estimation Samples

The estimation samples for specific BRFSS indicators varied depending upon whether the questions were asked of all respondents every year, to all respondents every other year, to all respondents in some years but to fewer respondents in other years, to a subset of respondents based on gender (e.g., use of mammograms). Due to occasional missing data for individual respondents, the sample sizes of the estimation samples also varied among indicators when the same years of BRSS data were used for estimation. For BRFSS indicators based on five years of data (2016-2020) most of the sample sizes exceeded 11,000 respondents. Sample sizes ranged from 11,517 for the HIV testing to 12,606 for having a regular doctor. Sample sizes for indicators estimated with five years (2012, 2014, 2016, 2018, and 2020) of BRFSS data were as follows: mammography only for women (8,166) and a dentist visit within a year (14,426). Sample sizes for indicators estimated with five years (2011, 2013, 2015, 2017, and 2019) of BRFSS data were as follows: aerobic exercise (12,613) and cholesterol screening (13,799). Table A-2 contains information about the specific years of data used to estimate each of the BRFSS indicators.

Survey Design and Post-Stratification Weights

The BRFSS data are derived from telephone surveys of the non-institutionalized adult population in Wyoming. Since the BRFSS has a complex survey design in with unequal probabilities of respondent selection, statistical analyses of BRFSS data require the application of design weights to account for different probabilities of selection. The BRFSS uses disproportionate stratified sampling in its landline telephone surveys where the sampling rate differs depending on telephone density. There is also geographic stratification in the Wyoming BRFSS sampling where some geographic areas are sampled at a higher rate than other ones. The probabilities of selection differ among BRFSS respondents due to this stratification, telephone availability, type of phone (cell versus landline since 2011), the number of adults in the household, the number of telephones in the household, and rates of nonresponse by households. Since these factors can affect the representativeness of the sample data, survey design weights are produced to adjust for these factors in statistical analyses of BRFSS survey data.

In addition to these survey design weights, raking weights are computed so that summed counts of weighted BRFSS respondents match known state population totals along population characteristics, including age, sex, and race/ethnicity, telephone source, education level, marital status, and renter/owner status. Since these “ready-to-use” raking weights provided with BRFSS data are only suitable for state-level estimates we had to compute our own post-stratification weights to derive estimates for BRFSS geographic areas within the state.

County-level population estimates for 12 age-sex classes (males 60-64, males 65-69, males 70-74, males 75-79, males 80-84, males 85+, females 60-64, females 65-69, females 70-74, females 75-79, females 80-84, females 85+) were obtained from the 2016-2020 American Community Survey for all counties within Wyoming (<https://data.census.gov/cedsci/>). Data for individual counties was aggregated into the 23 BRFSS geographic areas described earlier. These BRFSS area age-sex population distributions served as the target population matrix for computation of raked post-stratification weights. Post-stratification weights were computed using an iterative raking procedure in which inflation weights were computed to match by sex and then recomputed to match by age group. This process was repeated until stable post-stratification was obtained. Individual respondents in age-sex groups that were under-represented (over-represented) in the estimation sample relative to the BRFSS area census population distribution was assigned weights greater than (less than 1) so that when these post-stratification weights are applied, the weighted age-sex distribution of the estimation sample matched the 2016-2020 ACS age-sex distribution of each BRFSS area.

Different post-stratification weights are computed for groups of indicators depending upon how many years and which years of BRFSS data were pooled together for the estimation sample. As noted earlier depending upon the health indicator, different years of BRFSS data were pooled together. For state-level BRFSS estimates another set of post-stratification weights were computed at the state level to ensure that the sum of weighted age-sex counts of the entire estimation sample matched the 2016-2020 ACS age-sex distribution for the state of Wyoming. These state-level post-stratification weights did not ensure that the age-sex distribution of the estimation sample for each BRFSS area matched the ACS age-sex population distribution for BRFSS area. In other words, the target population for these latter adjustments was the entire state rather than individual BRFSS geographic areas. The final population weights for individual BRFSS respondents are computed by multiplying the BRFSS survey design weights by our own computed raked post-stratification weights.

Fixed Effects Estimation of Rates

Geographic residence dummy variables were constructed for each respondent in the various sample populations used to estimate the set of BRFSS indicators. Because of the complex survey design of the BRFSS, a survey design effect regression procedure in Stata 17.0 “regress” was used for parameter estimation. Separate fixed effects dummy variable ordinary least squares regressions with a suppressed constant are estimated on appropriate estimation samples for all BRFSS indicators shown in Tables A-1 and A-2. Respondent cases were weighted with individual population weights equal to the BRFSS survey design weight multiplied by our computed raked post-stratification weights described above.¹ The estimated coefficients for the geographic dummy variables from the regression models are the estimated rates for BRFSS geographic areas. The same estimated rates are reported for all individual counties comprising the BRFSS geographic areas. The 95% confidence intervals for these estimates reflect the margins of error of the estimates. State-level estimates for each BRFSS indicator along with their 95% confidence intervals were similarly estimated using weighted data from the full state estimation samples.

¹ Weighted ordinary least squares regression was also used to obtain estimates with robust standard errors without the standard Stata regress procedure. These estimates were virtually identical to those obtained with the Stata svy procedure.

The estimates for health indicators derived from BRFSS data and their confidence intervals are reported for all counties on the community profiles with confidence intervals available for download. We take a conservative approach in distinguishing those indicators where the difference between the BRFSS geographic area rate and the state rate is statistically significant at the 5% level. We only distinguish those indicators as significant where the BRFSS area 95% confidence interval does not overlap with the state 95% confidence interval as ones where there the difference between the BRFSS area and state estimates is unlikely to be due to chance associated with sampling variation. We note that fewer BRFSS indicator estimates are distinguished as differing significantly from the state estimates than was found for Medicare MBSF county-level estimates. This is a consequence of the much smaller sample populations used to estimate the BRFSS indicators.

Some caution should be exercised in interpreting differences between the BRFSS indicators reported for individual counties for several reasons. First, rates for which there is no distinction made regarding the statistical significance of the difference between the county and the state rate may be due to sampling variation. Second, data from multiple counties was pooled together to obtain estimates for the larger BRFSS geographic areas and the same estimates are reported for all counties within the geographic area. Actual BRFSS indicators are likely vary among individual counties that constitute the BRFSS areas.

5. Note on Data Availability

Throughout the data report, some counties report data not available, *NA* or *0%* (*data not available*), for some indicators derived from the ACS or CMS. Data for a county is not available or suppressed for these indicators because the sample size or population of that county is too small to report. Data is generally suppressed to ensure anonymity of the data reported.

Table A1: Wyoming Healthy Aging Indicator Definitions

INDICATORS	DEFINITION
POPULATION CHARACTERISTICS	
Total population all ages	The number of all persons in the state or county.
Population 60 years or older as % of total population	The percentage of persons 60 years or older among the total population.
Total population 60 years or older	The number of persons 60 years or older.
Population 65 years or older as % of total population	The percentage of persons 65 years or older among the total population.
Total population 65 years or older	The number of persons 65 years or older.
% 65-74 years	The percentage of persons 65-74 years among population aged 65 year or older.
% 75-84 years	The percentage of persons 75-84 years among population aged 65 year or older.
% 85 years or older	The percentage of persons 85+ years among population aged 65 year or older.
% 65+ population who are female	The percentage of females 65 years or older among population aged 65 year or older.
% 85+ population who are female	The percentage of females 85 years or older among population aged 65 year or older.
% 65+ White	The percentage of persons 65 years or older reporting their race as “White” or reporting entries such as Irish, German, Italian, Lebanese, Arab, Moroccan, or Caucasian.
% 65+ African American	The percentage of persons 65 years or older reporting their race as “Black or African American” or reporting entries such as African American, Kenyan, Nigerian, or Haitian.
% 65+ Other race	The percentage of persons 65 years or older reporting their race as any of the following: “Asian Indian,” “Chinese,” Filipino,” “Korean,” “Japanese,” Vietnamese,” “Other Asian”, “Native Hawaiian or other Pacific Islander”, or reporting entries such as Navajo, Blackfeet, Inupiat, Yup’ik, or Central American Indian groups, or South, American Indian groups.
% 65+ Hispanic/Latino	The percentage of persons 65 years or older reporting their origin as “Hispanic or Latino”.
# 55+ who are Native American / Alaskan	The number of persons 55 years or older reporting their race as “American Indian or Alaska Native”.
% 65+ married	The percentage of persons 65 years or older reporting that they are currently married with spouse present or with spouse absent due to employment, living away from home, institutionalization, or serving away from home in the Armed Forces.
% 65+ divorced/separated	The percentage of persons 65 years or older reporting that they are legally divorced and who have not remarried, or they are legally separated or otherwise absent from their spouse because of marital discord.

% 65+ widowed	The percentage of persons 65 years or older reporting they are widows and widowers who have not remarried.
% 65+ never married	The percentage of persons 65 years or older reporting they have never been married, including people whose only marriage(s) was annulled.
% 65+ with less than high school education	The percentage of persons 65 years or older reporting they have completed less than 9th grade, or 9th grade to 12th grade with no diploma.
% 65+ with high school or some college	The percentage of persons 65 years or older reporting they have graduated from high school, attended a college but did not receive a degree, or received an associate's degree.
% 65+ with college degree	The percentage of persons 65 years or older reporting they received a bachelor's degree.
% 65+ with graduate or professional degree	The percentage of persons 65 years or older reporting they received a master's, or professional or doctorate degree.
% 65+ population who speak only English at home	The percentage of persons 65 years or older reporting that no language other than English is spoken at home.
% 65+ population who are veterans of military service	The percentage of persons 65 years or older reporting to have served in the military forces for the United States (Army, Navy, Air Force, Marine Corps, or Coast Guard) in time of war or peace.
Life expectancy at birth	The number of years a person can expect to live at birth.
COVID-19	
Total COVID-19 cases March 2020 – January 2023	Count of cases of COVID-19 in county from March 2020 through January 2023.
COVID-19 mortality rate per 100,000 people	Rate of deaths from COVID-19 per 100,000 in county from March 2020 through January 2023.
% 65+ had one dose of COVID-19 vaccine	The percentage of 65+ residents of a county with one dose of a COVID-19 vaccine.
% 65+ had two doses of COVID-19 vaccine	The percentage of 65+ residents of a county with two doses of a COVID-19 vaccine.
% 65+ had bivalent booster of COVID-19 vaccine	The percentage of 65+ residents of a county who received the bivalent COVID-19 vaccine booster.
WELLNESS	
% 60+ getting recommended hours of sleep	The percentage of persons 60 years or older reporting the recommended amount (7 or 8 hours for age 60-64 years and 7, 8, or 9 hours for age 65 years or older) of sleeping in a 24-hour period.
% 60+ with any physical activity within last month	The percentage of persons 60 years or older who performed some form of physical activity (such as running, calisthenics, golf, gardening or walking for exercise) outside of their regular job in the past month.
% 60+ met CDC guidelines for muscle-strengthening activity	The percentage of persons 60 years or older who met CDC guidelines for muscle-strengthening activity.
% 60+ met CDC guidelines for aerobic physical activity	The percentage of persons 60 years or older who met CDC guidelines for aerobic physical activity.

% 60+ with fair or poor health status	The percentage of persons 60 years or older reporting fair or poor to question: “Would you say that in general your health is: excellent, very good, fair, or poor?”
% 60+ with 15+ physically unhealthy days last month	The percentage of persons 60 years or older reporting at least 15 days to the question: “Now thinking about your physical health, which includes physical illness and injury, for how many days during the past 30 days was your physical health not good?”
FALLS	
% 60+ who fell within last year	The percentage of persons 60 years or older reporting to have fallen at least once in the past 12 months.
% 60+ who were injured in a fall within last year	The percentage of persons 60 years or older reporting to have fallen at least once in the past 12 months resulting in injury (defined as causing one to limit regular activities for at least a day or to go see a doctor).
PREVENTION	
% 60+ with physical exam/check-up in last year	The percentage of persons aged 60 years or older who report seeing a doctor for a regular check-up within the past year.
% 60+ flu shot in last year	The percentage of persons aged 60 years or older who answered yes to the question: “During the past 12 months, have you had a seasonal flu shot (or seasonal flu vaccine that was sprayed in your nose [added in 2010])?”
% 60+ with pneumonia vaccine	The percentage of persons aged 60 years or older who reported ever having a pneumonia vaccination.
% 60+ with shingles vaccine	The percentage of persons aged 60 years or older who reported ever having a shingles vaccination
% 60+ women with a mammogram within last 2 years	The percentage of women 60 years or older whose last mammogram was two years ago or less.
% 60+ with colorectal cancer screening	The percentage of persons aged 60 years or older whose last proctoscopy exam was five years ago or less.
% 60+ with HIV test	The percentage of persons aged 60 years or older who answered yes to the question: “Have you ever been tested for HIV?”
% 60+ met CDC preventive health screening goals	The percentage of persons aged 60 or older who were up to date on CDC health screening goals for flu shot, colorectal cancer screening, pneumonia vaccine, and mammograms (women only).
CHRONIC DISEASE	
% 65+ with Alzheimer’s disease or related dementias	The percentage of Medicare fee-for-service beneficiaries enrolled in Part A and B who ever met criteria for Alzheimer’s disease or related dementias from 2007-2018. Prevalence estimates are calculated by CMS as the beneficiaries with a condition divided by total fee-for-service beneficiaries. Data for a county was suppressed if fewer than 11 beneficiaries have a condition.
% 65+ with arthritis	The percentage of Medicare fee-for-service beneficiaries enrolled in Part A and B who ever met criteria for arthritis from 2007-2018. Prevalence estimates are calculated by

	<p>CMS as the beneficiaries with a condition divided by total fee-for-service beneficiaries. Data for a county was suppressed if fewer than 11 beneficiaries have a condition.</p>
% 65+ with asthma	<p>The percentage of Medicare fee-for-service beneficiaries enrolled in Part A and B who ever met criteria for asthma from 2007-2018. Prevalence estimates are calculated by CMS as the beneficiaries with a condition divided by total fee-for-service beneficiaries. Data for a county was suppressed if fewer than 11 beneficiaries have a condition.</p>
% 65+ with atrial fibrillation	<p>The percentage of Medicare fee-for-service beneficiaries enrolled in Part A and B who ever met criteria for atrial fibrillation from 2007-2018. Prevalence estimates are calculated by CMS as the beneficiaries with a condition divided by total fee-for-service beneficiaries. Data for a county was suppressed if fewer than 11 beneficiaries have a condition.</p>
% 65+ with cancer (breast, colorectal, lung, and prostate)	<p>The percentage of Medicare fee-for-service beneficiaries enrolled in Part A and B who ever met criteria for cancer (breast, colorectal, lung, or prostate) from 2007-2018. Prevalence estimates are calculated by CMS as the beneficiaries with a condition divided by total fee-for-service beneficiaries. Data for a county was suppressed if fewer than 11 beneficiaries have a condition.</p>
% 65+ with chronic kidney disease	<p>The percentage of Medicare fee-for-service beneficiaries enrolled in Part A and B who ever met criteria for chronic kidney disease from 2007-2018. Prevalence estimates are calculated by CMS as the beneficiaries with a condition divided by total fee-for-service beneficiaries. Data for a county was suppressed if fewer than 11 beneficiaries have a condition.</p>
% 65+ with chronic obstructive pulmonary disease (COPD)	<p>The percentage of Medicare fee-for-service beneficiaries enrolled in Part A and B who ever met criteria for COPD from 2007-2018. Prevalence estimates are calculated by CMS as the beneficiaries with a condition divided by total fee-for-service beneficiaries. Data for a county was suppressed if fewer than 11 beneficiaries have a condition.</p>
% 65+ with diabetes	<p>The percentage of Medicare fee-for-service beneficiaries enrolled in Part A and B who ever met criteria for diabetes from 2007-2018. Prevalence estimates are calculated by CMS as the beneficiaries with a condition divided by total fee-for-service beneficiaries. Data for a county was suppressed if fewer than 11 beneficiaries have a condition.</p>
% 65+ with high cholesterol	<p>The percentage of Medicare fee-for-service beneficiaries enrolled in Part A and B who ever met criteria for high cholesterol from 2007-2018. Prevalence estimates are calculated by CMS as the beneficiaries with a condition divided by total fee-for-service beneficiaries. Data for a county was suppressed if fewer than 11 beneficiaries have a condition.</p>

% 65+ with heart failure	The percentage of Medicare fee-for-service beneficiaries enrolled in Part A and B who ever met criteria for heart failure from 2007-2018. Prevalence estimates are calculated by CMS as the beneficiaries with a condition divided by total fee-for-service beneficiaries. Data for a county was suppressed if fewer than 11 beneficiaries have a condition.
% 65+ with hypertension	The percentage of Medicare fee-for-service beneficiaries enrolled in Part A and B who ever met criteria for hypertension from 2007-2018. Prevalence estimates are calculated by CMS as the beneficiaries with a condition divided by total fee-for-service beneficiaries. Data for a county was suppressed if fewer than 11 beneficiaries have a condition.
% 65+ with ischemic heart disease	The percentage of Medicare fee-for-service beneficiaries enrolled in Part A and B who ever met criteria for ischemic heart disease from 2007-2018. Prevalence estimates are calculated by CMS as the beneficiaries with a condition divided by total fee-for-service beneficiaries. Data for a county was suppressed if fewer than 11 beneficiaries have a condition.
% 65+ with osteoporosis	The percentage of Medicare fee-for-service beneficiaries enrolled in Part A and B who ever met criteria for osteoporosis from 2007-2018. Prevalence estimates are calculated by CMS as the beneficiaries with a condition divided by total fee-for-service beneficiaries. Data for a county was suppressed if fewer than 11 beneficiaries have a condition.
% 65+ with stroke	The percentage of Medicare fee-for-service beneficiaries enrolled in Part A and B who ever met criteria for stroke from 2007-2018. Prevalence estimates are calculated by CMS as the beneficiaries with a condition divided by total fee-for-service beneficiaries. Data for a county was suppressed if fewer than 11 beneficiaries have a condition.
NUTRITION/DIET	
% 60+ with 5 or more servings of fruit or vegetables per day	The percentage of persons 60 years or older reporting to have eaten five or more servings of fruit or vegetables per day in the last month.
% 60+ self-reported obese	The percentage of persons 60 years or older with a body mass index of 30 or higher.
% 60+ with cholesterol screening	The percentage of persons aged 60 years or older who had their cholesterol checked within the past 5 years.
ORAL HEALTH	
% 60+ with annual dental exam	The percentage of persons aged 60 years or older reporting visiting a dentist or dental clinic within the past year.
# dentists per 100,000 persons (all ages)	The number of professionally active dentists per 100,000 persons in a county.

% 60+ with loss of 6 or more teeth	The percentage of persons 60 years or older reporting to have had 6 or more teeth removed because of tooth decay or gum disease.
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BEHAVIORAL HEALTH

# of drug overdose deaths (all ages)	Number of confirmed drug overdose deaths by county from 2016 to 2020.
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% 60+ current smokers	The percentage of persons 60 years or older reporting to have ever smoked at least 100 cigarettes and who now smoke on some or all days.
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% 60+ ever used E-Cigarettes in last Month	The percentage of persons age 60 years or older who answered yes to the question- "Have you ever used an e-cigarette or other electronic "vaping" product, even just one time, in your entire life?"
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% 60+ who used marijuana in last month	The percentage of persons age 60 years or older who answered yes to the question- "During the past 30 days, on how many days did you use marijuana or hashish?"
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% 60+ excessive drinking	The percentage of persons 60 years or older reporting excessive alcoholic drinking during the past month. For men excessive drinking is defined as consuming 60 or more alcoholic drinks in the past month or consuming 5 or more alcoholic drinks on at least one occasion during the past month. For women excessive drinking is defined as consuming 30 or more alcoholic drinks in the past month or consuming 4 or more alcoholic drinks on at least one occasion during the past month. One drink is equivalent to a 12-ounce beer, a 5-ounce glass of wine, or a drink with one shot of liquor.
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% 65+ with alcohol abuse disorder	The percentage of Medicare fee-for-service beneficiaries enrolled in Part A and B who ever met criteria for alcohol use disorder from 2007-2018. Prevalence estimates are calculated by CMS as the beneficiaries with a condition divided by total fee-for-service beneficiaries. Data for a county was suppressed if fewer than 11 beneficiaries have a condition.
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% 65+ with drug abuse/substance abuse	The percentage of Medicare fee-for-service beneficiaries enrolled in Part A and B who ever met criteria for drug or substance abuse from 2007-2018. Prevalence estimates are calculated by CMS as the beneficiaries with a condition divided by total fee-for-service beneficiaries. Data for a county was suppressed if fewer than 11 beneficiaries have a condition.
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MENTAL HEALTH

% 60+ with 15+ days poor mental health in last month	The percentage of persons 60 years or older reporting at least 15 days to the question- "Now thinking about your mental health, which includes stress, depression, and problems with emotions, for how many days during the past 30 days was your mental health not good?"
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% 65+ with depression	The percentage of Medicare fee-for-service beneficiaries enrolled in Part A and B who ever met criteria for
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	depression from 2007-2018. Prevalence estimates are calculated by CMS as the beneficiaries with a condition divided by total fee-for-service beneficiaries. Data for a county was suppressed if fewer than 11 beneficiaries have a condition.
% 65+ with schizophrenia & other psychotic disorders	The percentage of Medicare fee-for-service beneficiaries enrolled in Part A and B who ever met criteria for schizophrenia and other psychotic disorders from 2007-2018. Prevalence estimates are calculated by CMS as the beneficiaries with a condition divided by total fee-for-service beneficiaries. Data for a county was suppressed if fewer than 11 beneficiaries have a condition.
LIVING WITH DISABILITY	
% 65+ with self-reported hearing difficulty	The percentage of persons aged 65 or older reporting to be deaf or has serious difficulty hearing.
% 65+ with self-reported vision difficulty	The percentage of persons aged 65 or older reporting to be blind or has serious difficulty seeing even with corrective lenses.
% 65+ with self-reported cognition difficulty	The percentage of persons aged 65 or older reporting cognitive difficulties (such as learning, remembering, concentrating, or making decisions) because of a physical, mental, or emotional condition.
% 65+ with self-reported ambulatory difficulty	The percentage of persons aged 65 or older reporting to have a condition that substantially limits one or more basic activities, such as walking, climbing stairs, reaching, lifting, or carrying.
% 65+ with self-reported self-care difficulty	The percentage of persons aged 65 or older reporting to have a physical or mental health condition that has lasted at least 6 months and makes it difficult for them to take care of their own personal need, such as bathing, dressing, or getting around inside the home.
% 65+ with self-reported independent living difficulty	The percentage of persons aged 65 or older reporting to have a physical, mental, or emotional condition lasting six months or more that makes it difficult or impossible to perform basic activities outside the home alone.
CAREGIVING	
% of grandparents raising grandchildren	The percentage of grandparents who are financially responsible for any or all grandchildren living in the household.
% of grandparents who live with grandchildren	The percentage of grandparents who are living with a grandchild in the household.
ACCESS TO CARE	
% 60+ with a regular doctor	The percentage of persons 60 years or older reporting to have a personal doctor or health care provider.
% 60+ who did not see a doctor when needed due to cost	The percentage of persons 60 years or older responding yes to the question: "Was there a time during the last 12 months when you needed to see a doctor but could not due to the cost?"

# of primary care providers	A count of Medicare-certified primary care providers, defined as physicians with specialties of family practice, general practice, geriatric medicine, and internal medicine, physician assistants, nurse practitioners; in the county.
# of hospitals	A count of Medicare-certified hospitals within a county.
# of home health agencies	A count of Medicare-certified home health agencies within a county.
# of nursing homes	A count of Medicare-certified nursing homes within a county.
# of community health centers	A count of community health centers within a county.
# of adult day health centers	A count of adult day health centers within a county.
# of hospice agencies	A count of Medicare-certified hospice agencies within a county.
COMMUNITY	
Particulate matter PM2.5	The average detection of PM2.5 in the county annually.
Ozone	The average detection of ozone in the county annually.
Air pollution: annual # of unhealthy days for 65+ (county)	The number of days in 2020 where there was an Air Quality Index score classified as “code red” or “code orange” for ozone or particulate matter in the county.
Age-friendly efforts in county	A county, or communities in that county, that is or that is making efforts to become age-friendly.
# of senior centers in county	The number of senior centers in the county.
% 60+ who used Internet in last month	The percentage of persons age 60 years or older who answered yes to the question- “Have you used the internet in the past 30 days?”
% household with having smartphone (all ages)	The percentage of households in county with smartphones.
% household without computer (all ages)	The percentage of households in county without a computer.
% household with access to broadband (all ages)	The percentage of households in county with access to broadband.
% household without access to internet (all ages)	The percentage of households in county without access to internet.
Voter participation rate in 2020 presidential election (age 18+)	The % of registered voters aged 18 and older who voted in the 2020 election.
SAFETY & CRIME	
Homicide rate /100,000 persons (county)	The number of deaths due to homicide per 100,000 persons from 2016 to 2020.
# firearm fatalities (county)	The number of deaths due to firearms per 100,000 persons from 2016 to 2020.
# 65+ deaths by suicide (county)	The number of deaths by suicide from 2016 to 2020 among people aged 65 and older.
TRANSPORTATION	
% 65+ who own a motor vehicle	The percentage of households with a householder aged 65 years or older who own one or more vehicles.
% 60+ who always drive or ride wearing a seatbelt	The percentage of persons aged 60 years or older reporting to use seat belt always while driving a car.

# of fatal crashes involving adult age 60+/county	The number of motor vehicle fatalities in county involving an adult age 60 or older (driver, passenger, or pedestrian) from 2016 to 2020.
HOUSING	
% 65+ population living alone	The percentage of persons 65 years or older reporting that they live alone.
Average household size (all ages)	Average number of persons in the household.
Median house value	The average median value of houses.
% 60+ own home	The percentage of households with a householder aged 60 years or older who are homeowners.
% 60+ homeowners who have mortgage	The percentage of households with a householder aged 60 years or older who have mortgage on home.
% 65+ households (renter) spend >35% of income on housing	The percentage of households with a householder aged 65 years or older who spend more than 35% of income on renting a house.
% 65+ households (owner) spend >35% of income on housing	The percentage of households with a householder aged 65 years or older who own the house and spend more than 35% of income on housing expense.
ECONOMIC	
% 60+ receiving food stamps past year	The percentage of the households with a householder aged 60 years or older received food stamps/Supplemental Nutrition Assistance Program (SNAP) benefits in the past 12 months.
% 65+ employed past year	The percentage of persons 60 years or older employed in the past year.
% 65+ with income below the poverty level in last year	The percentage of households with a householder (i.e., the person (or one of the people) in whose name the housing unit is owned or rented (maintained)) age 65 years or older with an annual family income below the appropriate official poverty threshold.
65+ median household income	The median value income of households with a householder aged 65 years or older.
% 65+ households with annual income < \$20,000	The percentage of households with a householder (i.e., the person (or one of the people) in whose name the housing unit is owned or rented (maintained)) age 65 years or older with an annual income less than \$20,000.
% 65+ households with annual income \$20,000-\$49,999	The percentage of households with a householder aged 65 years or older with an annual income between \$20,000 and \$49,000.
% 65+ households with annual income \$50,000-\$99,999	The percentage of households with a householder aged 65 years or older with an annual income between \$50,000-\$99,999.
% 65+ households with annual income \$100,000+	The percentage of households with a householder aged 65 years or older with an annual income more than \$100,000.
COST OF LIVING	
Elder Index	

Single, homeowner without mortgage, good health	Annual income needed for a single homeowner with no mortgage in good health to attain a modest standard of living in the county.
Single, renter, good health	Annual income needed for a single renter in good health to attain a modest standard of living in the county.
Couple, homeowner without mortgage, good health	Annual income needed for a couple who are homeowners with no mortgage in good health to attain a modest standard of living in the county.
Couple, renter, good health	Annual income needed for a couple who are renters in good health to attain a modest standard of living in the county.

Table A2: Years and Data Sources for Community Profile Indicators

INDICATORS	DEFINITION
POPULATION CHARACTERISTICS	
Total population all ages, Population 60 years or older as a % of total population, Total population 60 years or older, Population 65 years or older as a % of total population, Total population 65 years or older, % 65-74 years, 75-84 years, 85 years or older, % 65+ female, % 85+ female	United States Census Bureau. "B01001: SEX BY AGE." <i>2016-2020 American Community Survey</i> . Accessed June 2022. (https://data.census.gov/cedsci/).
<i>Race/Ethnicity:</i> % White, % African American, % Other race, % Hispanic/Latino, # 55+ who are Native American / Alaskan	United States Census Bureau. "B01001A, B01001B, B01001C, B01001D, B01001E, B01001F, B0100G, B01001I: SEX BY AGE." <i>2016-2020 American Community Survey</i> . Accessed June 2022. (https://data.census.gov/cedsci/).
<i>Marital status:</i> % married, divorced/separated, widowed, never married	United States Census Bureau. "B12002: SEX BY MARITAL STATUS BY AGE FOR THE POPULATION 15 YEARS AND OVER." <i>2016-2020 American Community Survey</i> . Accessed June 2022. (https://data.census.gov/cedsci/).
<i>Education:</i> % with less than a high school education, high school or some college, college degree, graduate or professional degree	United States Census Bureau. "B15001: SEX BY AGE BY EDUCATIONAL ATTAINMENT FOR THE POPULATION 18 YEARS AND OVER." <i>2016-2020 American Community Survey</i> . Accessed June 2022. (https://data.census.gov/cedsci/).
% 65+ population who speak only English at home	United States Census Bureau. "B16007: AGE BY LANGUAGE SPOKEN AT HOME BY ABILITY TO SPEAK ENGLISH FOR THE POPULATION 5 YEARS AND OVER". <i>2016-2020 American Community Survey</i> . Accessed June 2022. (https://data.census.gov/cedsci/).
% 65+ population who are veterans of military service	United States Census Bureau. "B21001: SEX BY AGE BY VETERAN STATUS FOR THE CIVILIAN POPULATION 18 YEARS AND OVER". <i>2016-2020 American Community Survey</i> . Accessed June 2022. (https://data.census.gov/cedsci/).
Life expectancy at birth	Robert Wood Johnson Foundation. Life Expectancy: Could Where You Live Influence How Long You Live? Accessed May 2023. (https://www.rwjf.org/en/library/interactives/whereliveaffectshowlongyoulive.html).
COVID-19	
COVID-19 cases from March 2020 – January 2023 COVID-19 mortality rate per 100,000 people	Wyoming Department of Health. COVID-19 dashboard. Data last updated January 31, 2023. Data assessed February 2 nd , 2023. (https://sites.google.com/wyo.gov/covid-19/home).

% 65+ had one dose of COVID-19 vaccine	Centers for Disease Control and Prevention (CDC). COVID-19 Data Tracker. Data last updated February 15th, 2023. Data assessed February 23, 2023. (https://covid.cdc.gov/covid-data-tracker/#county-view?list_select_state=Wyoming&data-type=Vaccinations).
% 65+ had two doses of COVID-19 vaccine	
% 65+ had bivalent booster of COVID-19 vaccine	

WELLNESS

% 60+ getting recommended hours of sleep	Wyoming Department of Health. 2013, 2014, 2016, 2018, & 2020 Behavioral Risk Factor Surveillance Survey. Accessed February 2023. (https://health.wyo.gov/publichealth/chronic-disease-and-maternal-child-health-epidemiology-unit/wyoming-behavior-risk-factor-surveillance-system-2/).
% 60+ with any physical activity within last month	Wyoming Department of Health. 2016-2020 Behavioral Risk Factor Surveillance Survey. Accessed February 2023. (https://health.wyo.gov/publichealth/chronic-disease-and-maternal-child-health-epidemiology-unit/wyoming-behavior-risk-factor-surveillance-system-2/).
% 60+ met CDC guidelines for muscle-strengthening activity	Wyoming Department of Health. 2011, 2013, 2015, 2017, & 2019 Behavioral Risk Factor Surveillance Survey. Accessed February 2023. (https://health.wyo.gov/publichealth/chronic-disease-and-maternal-child-health-epidemiology-unit/wyoming-behavior-risk-factor-surveillance-system-2/).
% 60+ met CDC guidelines for aerobic physical activity	
% 60+ with fair or poor health status	Wyoming Department of Health. 2016-2020 Behavioral Risk Factor Surveillance Survey. Accessed February 2023. (https://health.wyo.gov/publichealth/chronic-disease-and-maternal-child-health-epidemiology-unit/wyoming-behavior-risk-factor-surveillance-system-2/).
% 60+ with 15+ physically unhealthy days last month	

FALLS

% 60+ who fell within last year	Wyoming Department of Health. 2012, 2014, 2016, 2018, & 2020 Behavioral Risk Factor Surveillance Survey. Accessed February 2023. (https://health.wyo.gov/publichealth/chronic-disease-and-maternal-child-health-epidemiology-unit/wyoming-behavior-risk-factor-surveillance-system-2/).
% 60+ who were injured in a fall within last year	

PREVENTION

% 60+ with physical exam/check-up in last year	Wyoming Department of Health. 2016-2020 Behavioral Risk Factor Surveillance Survey. Accessed February 2023. (https://health.wyo.gov/publichealth/chronic-disease-and-maternal-child-health-epidemiology-unit/wyoming-behavior-risk-factor-surveillance-system-2/).
% 60+ flu shot in last year	
% 60+ with pneumonia vaccine	
% 60+ with shingles vaccine	Wyoming Department of Health. 2014, 2017, & 2020 Behavioral Risk Factor Surveillance Survey. Accessed February 2023. (https://health.wyo.gov/publichealth/chronic-disease-and-maternal-child-health-epidemiology-unit/wyoming-behavior-risk-factor-surveillance-system-2/).

% 60+ women with a mammogram within last 2 years	Wyoming Department of Health. 2012, 2014, 2016, 2018, & 2020 Behavioral Risk Factor Surveillance Survey. Accessed February 2023.
% 60+ with colorectal cancer screening	(https://health.wyo.gov/publichealth/chronic-disease-and-maternal-child-health-epidemiology-unit/wyoming-behavior-risk-factor-surveillance-system-2/).
% 60+ with HIV test	Wyoming Department of Health. 2016-2020 Behavioral Risk Factor Surveillance Survey. Accessed February 2023. (https://health.wyo.gov/publichealth/chronic-disease-and-maternal-child-health-epidemiology-unit/wyoming-behavior-risk-factor-surveillance-system-2/).
% 60+ met CDC preventive health screening goals	Wyoming Department of Health. 2012, 2014, 2016, 2018, & 2020 Behavioral Risk Factor Surveillance Survey. Accessed February 2023. (https://health.wyo.gov/publichealth/chronic-disease-and-maternal-child-health-epidemiology-unit/wyoming-behavior-risk-factor-surveillance-system-2/).
Chronic diseases:	
% 65+ with Alzheimer's disease or related dementias; arthritis; asthma; atrial fibrillation; cancer (breast, colorectal, lung, and prostate); chronic kidney disease; COPD; diabetes; heart failure; high cholesterol; hypertension; ischemic heart disease; osteoporosis; stroke	Centers for Medicare and Medicaid Services. Multiple Chronic Conditions, 2018. Accessed July 2022. (https://www.cms.gov/Research-Statistics-Data-and-Systems/Statistics-Trends-and-Reports/Chronic-Conditions/CC_Main).
NUTRITION/DIET	
% 60+ with 5 or more servings of fruit or vegetables per day	Wyoming Department of Health. 2011, 2013, 2015, 2017, & 2019 Behavioral Risk Factor Surveillance Survey. Accessed February 2023. (https://health.wyo.gov/publichealth/chronic-disease-and-maternal-child-health-epidemiology-unit/wyoming-behavior-risk-factor-surveillance-system-2/).
% 60+ self-reported obese	Wyoming Department of Health. 2016-2020 Behavioral Risk Factor Surveillance Survey. Accessed February 2023. (https://health.wyo.gov/publichealth/chronic-disease-and-maternal-child-health-epidemiology-unit/wyoming-behavior-risk-factor-surveillance-system-2/).
% 60+ with cholesterol screening	Wyoming Department of Health. 2011, 2013, 2015, 2017, & 2019 Behavioral Risk Factor Surveillance Survey. Accessed February 2023. (https://health.wyo.gov/publichealth/chronic-disease-and-maternal-child-health-epidemiology-unit/wyoming-behavior-risk-factor-surveillance-system-2/).
% 60+ with annual dental exam	Wyoming Department of Health. 2012, 2014, 2016, 2018, & 2020 Behavioral Risk Factor Surveillance Survey. Accessed February 2023.

	(https://health.wyo.gov/publichealth/chronic-disease-and-maternal-child-health-epidemiology-unit/wyoming-behavior-risk-factor-surveillance-system-2/) .
# dentists per 100,000 persons (all ages)	Health Resources and Services Administration (HRSA). Area Health Resources Files (AHRF). Data assessed February 2023. (https://data.hrsa.gov/topics/health-workforce/ahrf).
% 60+ with loss of 6 or more teeth	Wyoming Department of Health. 2012, 2014, 2016, 2018, & 2020 Behavioral Risk Factor Surveillance Survey. Accessed February 2023. (https://health.wyo.gov/publichealth/chronic-disease-and-maternal-child-health-epidemiology-unit/wyoming-behavior-risk-factor-surveillance-system-2/).

BEHAVIORAL HEALTH

# of drug overdose deaths (all ages)	CDC Wonder, Multiple Cause of Death, 2016-2020. Accessed June 2022. (https://wonder.cdc.gov/controller/datarequest/D77.jsessionid=3AC202E57AC0BFE77BAEFB8769E8148D?stage=results&action=toggle&p=O_show_suppressed&v=true).
% 60+ current smokers	Wyoming Department of Health. 2016-2020 Behavioral Risk Factor Surveillance Survey. Accessed February 2023. (https://health.wyo.gov/publichealth/chronic-disease-and-maternal-child-health-epidemiology-unit/wyoming-behavior-risk-factor-surveillance-system-2/).
% 60+ ever used E-Cigarettes in last Month	
% 60+ who used marijuana in last month	
% 60+ excessive drinking	
% 65+ with alcohol abuse disorder	Centers for Medicare and Medicaid Services. Multiple Chronic Conditions, 2018. Accessed July 2022. (https://www.cms.gov/Research-Statistics-Data-and-Systems/Statistics-Trends-and-Reports/Chronic-Conditions/CC_Main).
% 65+ with drug abuse/substance abuse	

MENTAL HEALTH

% 60+ with 15+ days poor mental health in last month	Wyoming Department of Health. 2016-2020 Behavioral Risk Factor Surveillance Survey. Accessed February 2023. (https://health.wyo.gov/publichealth/chronic-disease-and-maternal-child-health-epidemiology-unit/wyoming-behavior-risk-factor-surveillance-system-2/).
% 65+ with depression	Centers for Medicare and Medicaid Services. Multiple Chronic Conditions, 2018. Accessed July 2022. (https://www.cms.gov/Research-Statistics-Data-and-Systems/Statistics-Trends-and-Reports/Chronic-Conditions/CC_Main).
% 65+ with schizophrenia & other psychotic disorders	

LIVING WITH DISABILITY

% 65+ with self-reported hearing difficulty	United States Census Bureau. "B18102: SEX BY AGE BY HEARING DIFFICULTY". <i>2016-2020 American Community Survey</i> . Accessed May 2022. (https://data.census.gov/cedsci/).
% 65+ with self-reported vision difficulty	United States Census Bureau. "B18103: SEX BY AGE BY VISION DIFFICULTY". <i>2016-2020 American Community Survey</i> .

	Survey. Accessed May 2022. (https://data.census.gov/cedsci/).
% 65+ with self-reported cognition difficulty	United States Census Bureau. "B18104: SEX BY AGE BY COGNITION DIFFICULTY". <i>2016-2020 American Community Survey</i> . Accessed May 2022. (https://data.census.gov/cedsci/).
% 65+ with self-reported ambulatory difficulty	United States Census Bureau. "B18105: SEX BY AGE BY AMBULATORY DIFFICULTY". <i>2016-2020 American Community Survey</i> . Accessed May 2022. (https://data.census.gov/cedsci/).
% 65+ with self-reported self-care difficulty	United States Census Bureau. "B18106: SEX BY AGE BY SELF-CARE DIFFICULTY". <i>2016-2020 American Community Survey</i> . Accessed May 2022. (https://data.census.gov/cedsci/).
% 65+ with self-reported independent living difficulty	United States Census Bureau. "B18107: SEX BY AGE BY INDEPENDENT LIVING DIFFICULTY". <i>2016-2020 American Community Survey</i> . Accessed May 2022. (https://data.census.gov/cedsci/).
CAREGIVING	
% of grandparents raising grandchildren	United States Census Bureau. "B10050: GRANDPARENTS LIVING WITH OWN GRANDCHILDREN UNDER 18 YEARS BY RESPONSIBILITY FOR OWN GRANDCHILDREN BY LENGTH OF TIME RESPONSIBLE FOR OWN GRANDCHILDREN FOR THE POPULATION 30 YEARS AND OVER". <i>2016-2020 American Community Survey</i> . Accessed May 2022. (https://data.census.gov/cedsci/).
% of grandparents who live with grandchildren	United States Census Bureau. "B10050: GRANDPARENTS LIVING WITH OWN GRANDCHILDREN UNDER 18 YEARS BY RESPONSIBILITY FOR OWN GRANDCHILDREN BY LENGTH OF TIME RESPONSIBLE FOR OWN GRANDCHILDREN FOR THE POPULATION 30 YEARS AND OVER". <i>2016-2020 American Community Survey</i> . Accessed May 2022. (https://data.census.gov/cedsci/).
ACCESS TO CARE	
% 60+ with a regular doctor	Wyoming Department of Health. 2016-2020 Behavioral Risk Factor Surveillance Survey. Accessed February 2023. (https://health.wyo.gov/publichealth/chronic-disease-and-maternal-child-health-epidemiology-unit/wyoming-behavior-risk-factor-surveillance-system-2/).
% 60+ who did not see a doctor when needed due to cost	Wyoming Department of Health. 2016-2020 Behavioral Risk Factor Surveillance Survey. Accessed February 2023. (https://health.wyo.gov/publichealth/chronic-disease-and-maternal-child-health-epidemiology-unit/wyoming-behavior-risk-factor-surveillance-system-2/).
# of primary care providers	Center for Medicare and Medicaid Services. National Provider File. Accessed April 2022. (https://data.cms.gov/provider-data/dataset/mj5m-pzi6).
# of hospitals	Center for Medicare and Medicaid Services. Hospital General Information. Accessed April 2022. (https://data.cms.gov/provider-data/dataset/xubh-q36u).

# of home health agencies	Center for Medicare and Medicaid Services. Home Health Care Agencies. Accessed April 2022. (https://data.cms.gov/provider-data/dataset/6jpm-sxkc).
# of nursing homes	Center for Medicare and Medicaid Services. Provider Information. Accessed April 2022. (https://data.cms.gov/provider-data/dataset/4pq5-n9py).
# of community health centers	U.S. Department of Health and Human Services. HRSA Data Warehouse: Find a Health Center. Data assessed July 2022. (https://findahealthcenter.hrsa.gov/?zip=Wyoming%252C%2BUSA&radius=250&incrementalsearch=false).
# of adult day health centers	Aging Care. Adult day care in Wyoming. Data was assessed July 2022. (https://www.agingcare.com/local/adult-day-care/wy).
# of hospice agencies	Center for Medicare and Medicaid Services. Hospice - Provider Data. Accessed April 2022. (https://data.cms.gov/provider-data/dataset/252m-zfp9).
Particulate matter PM2.5	United States Environmental Protection Agency. Outdoor Air Quality Data. Accessed June 2022. (https://www.epa.gov/outdoor-air-quality-data/download-daily-data).
Ozone	United States Environmental Protection Agency. Air Compare, 2022. Accessed June 2022. (https://www3.epa.gov/aircompare/#trends).
Air pollution: annual # of unhealthy days for 65+ (county)	AARP. AARP livable community network. Accessed March 2023. (https://www.aarp.org/livable-communities/network-age-friendly-communities/info-2014/member-list.html).
Age-friendly efforts in county	Wyoming Department of Health. Services by County. Data assessed March 2023. (https://health.wyo.gov/aging/communityliving/service-area-maps/)
# of senior centers in county	Wyoming Department of Health. 2015-2018, & 2020 Behavioral Risk Factor Surveillance Survey. Accessed February 2023. (https://health.wyo.gov/publichealth/chronic-disease-and-maternal-child-health-epidemiology-unit/wyoming-behavior-risk-factor-surveillance-system-2/).
% 60+ who used Internet in last month	United States Census Bureau. "B28001, B28003, S2801: TYPES OF COMPUTERS AND INTERNET SUBSCRIPTIONS". <i>2016-2020 American Community Survey</i> . Accessed May 2022. (https://data.census.gov/cedsci/).
% household with having smartphone (all ages)	
% household without computer (all ages)	
% household with access to broadband (all ages)	
% household without access to internet (all ages)	
Voter participation rate in 2020 presidential election (age 18+)	State of Wyoming. Voter participation in 2020 election. Accessed August 2022.

SAFETY & CRIME

Homicide rate /100,000 persons (county)	<p>CDC Wonder, Multiple Cause of Death, 2016-2020. Accessed June 2022. (https://wonder.cdc.gov/controller/datarequest/D77.jsessionid=3AC202E57AC0BFE77BAEFB8769E8148D?stage=results&action=toggle&p=O_show_suppressed&v=true).</p>
# firearm fatalities (county)	
# 65+ deaths by suicide (county)	
TRANSPORTATION	
% 65+ who own a motor vehicle	<p>United States Census Bureau. "B25045: TENURE BY VEHICLES AVAILABLE BY AGE OF HOUSEHOLDER". 2016-2020 American Community Survey. Accessed May 2022. (https://data.census.gov/cedsci/).</p>
% 60+ who always drive or ride wearing a seatbelt	<p>Wyoming Department of Health. 2013-2017 Behavioral Risk Factor Surveillance Survey. Accessed February 2023. (https://health.wyo.gov/publichealth/chronic-disease-and-maternal-child-health-epidemiology-unit/wyoming-behavior-risk-factor-surveillance-system-2/).</p>
# of fatal crashes involving adult age 60+/county	<p>National Highway Traffic Safety Administration, Fatal Accident Reporting System (FARS) representing data for years 2016-2020. Downloaded from (http://www.nhtsa.gov/FARS). in May 2022.</p>
HOUSING	
% 65+ population living alone	<p>United States Census Bureau. "B09020: RELATIONSHIP BY HOUSEHOLD TYPE (INCLUDING LIVING ALONE) FOR THE POPULATION 65 YEARS AND OVER". 2016-2020 American Community Survey. Accessed May 2022. (https://data.census.gov/cedsci/).</p>
Average household size (all ages)	<p>United States Census Bureau. "B11016: HOUSEHOLD TYPE BY HOUSEHOLD SIZE". 2016-2020 American Community Survey. Accessed May 2022. (https://data.census.gov/cedsci/).</p>
Median house value	<p>United States Census Bureau. "B25077: Median House Value". 2016-2020 American Community Survey. Accessed May 2022. (https://data.census.gov/cedsci/).</p>
% 60+ own home	<p>United States Census Bureau. "B25007: TENURE BY AGE HOUSEHOLDER". 2016-2020 American Community Survey. Accessed May 2022. (https://data.census.gov/cedsci/).</p>
% 60+ homeowners who have mortgage	<p>United States Census Bureau. "B25027: MORTGAGE STATUS BY AGE HOUSEHOLDER". 2016-2020 American Community Survey. Accessed May 2022. (https://data.census.gov/cedsci/).</p>
% 65+ households (renter) spend >35% of income on housing	<p>United States Census Bureau. "B25072: AGE OF HOUSEHOLDER BY GROSS RENT AS A PERCENTAGE OF HOUSEHOLD INCOME IN THE PAST 12 MONTHS". 2016-2020 American Community Survey. Accessed May 2022. (https://data.census.gov/cedsci/).</p>
% 65+ households (owner) spend >35% of income on housing	<p>United States Census Bureau. "B25093: AGE OF HOUSEHOLDER BY SELECTED MONTHLY OWNER COSTS AS A PERCENTAGE OF HOUSEHOLD INCOME</p>

IN THE PAST 12 MONTHS”. *2016-2020 American Community Survey*. Accessed May 2022. (<https://data.census.gov/cedsci/>).

ECONOMIC

% 60+ receiving food stamps past year	United States Census Bureau. “B22001: RECEIPT OF FOOD STAMPS/SNAP IN THE PAST 12 MONTHS BY PRESENCE PEOPLE 60 YEARS AND OVER FOR HOUSEHOLDS”. <i>2016-2020 American Community Survey</i> . Accessed May 2022. (https://data.census.gov/cedsci/).
% 65+ employed past year	United States Census Bureau. “B23004: WORK STATUS IN THE PAST 12 MONTHS BY AGE BY EMPLOYMENT STATUS FOR THE CIVILIAN POPULATION 65 YEARS AND OVER”. <i>2016-2020 American Community Survey</i> . Accessed May 2022. (https://data.census.gov/cedsci/).
% 65+ with income below the poverty level in last year	United States Census Bureau. “B17001: “POVERTY STATUS IN THE PAST 12 MONTHS BY SEX BY AGE”. <i>2016-2020 American Community Survey</i> . Accessed May 2022. (https://data.census.gov/cedsci/).
65+ median household income	
% 65+ households with annual income < \$20,000	United States Census Bureau. “B19037: AGE OF HOUSEHOLDER BY HOUSEHOLD INCOME IN THE PAST 12 MONTHS (IN 2013 INFLATION-ADJUSTED DOLLARS)”. <i>2016-2020 American Community Survey</i> . Accessed May 2022. (https://data.census.gov/cedsci/).
% 65+ households with annual income \$20,000-\$49,999	
% 65+ households with annual income \$50,000-\$99,999	
% 65+ households with annual income \$100,000+	

COST OF LIVING

Elder Index

Single, homeowner without mortgage, good health

Single, renter, good health

Couple, homeowner without mortgage, good health

Couple, renter, good health

Elder Economic Security Index data from the University of Massachusetts Boston Center for Social and Demographic Research on Aging, 2022. Accessed June 2022. (<https://elderindex.org/>).