# Rural Pennsylvania's Aging Population 

## Introduction

The recently released age cohort data from the 2020 Census show that rural Pennsylvania is aging faster than urban Pennsylvania. This is not a new trend. Since 1990, rural Pennsylvania's population has aged faster than the urban population. To better understand the implications of an aging population, the Center for Rural Pennsylvania examined historic age cohort data and found that:

- 24 of Pennsylvania's 67 counties have more senior citizens ( 65 years old and older) than youth (under 20 years old).
- Rural Pennsylvania has a higher age dependency ratio, which is a rough approximation of economic dependency in a population, than urban Pennsylvania.
- Pennsylvania is not alone in having a high number of senior citizens.
- The aging rural population has implications for education, the workforce, housing, households and families, and local government finances.


## Average Age ${ }^{1}$

According to Center for Rural Pennsylvania estimates, rural residents are 42.5 years old, on average, which is an increase of 2.1 years from the 2010 average of 40.4 years old. The average age of urban residents increased as well, from 38.9 in 2010 to 40.5 in 2020, which is an increase of 1.6 years.

This aging trend is not unique to rural and urban Pennsylvania. In 2010, the average age of a rural American was 38.2 years old, and in 2020, was 40.3. Similarly, in 2010, the average age of an urban American was 38.2, and 38.8 in 2020.

Figure 1: Average Age of Rural and Urban Pennsylvanians, 1990 to 2020


Data source: Decennial Censuses, U.S. Census Bureau.

## Increase in Senior Citizens

One reason why rural Pennsylvania's population is aging is due to an increase in senior citizens (aged 65 years old and older) and a decrease in youth (under 20 years old). From 2010 to 2020, rural Pennsylvania

[^0]had a 23 percent increase in the number of senior citizens and an 11 percent decrease in the number of youth. During the same period, urban Pennsylvania had a 28 percent increase in senior citizens and a 4 percent decrease in youth. The decrease in rural youth has been ongoing since 1970 (See Figure 2). In 2020, 24 Pennsylvania counties had more senior citizens than youth (See Figure 3).

Figure 2: Percent of Rural Pennsylvania's Population Under Age 20 and Age 65 and Older, 1950 to 2020


Data source: Decennial Censuses, U.S. Census Bureau.
Figure 3: Pennsylvania Counties with More Senior Citizens than Youth, 2020


Data source: 2020 Census, U.S. Census Bureau.

## Comparing Pennsylvania Senior Citizens to Those in Other States

The five states with the largest number of senior citizens ( 65 years old and older) in 2020 were: California ( 6.02 million), Florida ( 4.57 million), Texas ( 3.92 million), New York ( 3.41 million), and Pennsylvania ( 2.48 million). Another way to compare states is to look at the percent of the population
that is 65 years old and older. The five states with the highest percentages were: Maine ( 22 percent), Florida ( 21 percent), Vermont ( 21 percent), West Virginia ( 20 percent), and Montana ( 20 percent). Pennsylvania had the ninth highest ratio at 19 percent.

## Age Dependency Ratio

Another way to understand population is to look at dependency ratios. According to the Census Bureau, this ratio provides a rough approximation of economic dependency in a population by dividing the dependent-age populations (children under 15 years old and adults 65 and older, who are not generally expected to work) by the working-age population ( 15 to 64 years old). The higher the ratio the more dependent the population.

In 2020, the age dependency ratio in rural Pennsylvania was 59.3 and in urban Pennsylvania, it was 54.7. At the country level, Philadelphia (45.6), Forest (39.3), and Centre (37.9) had the lowest age dependency ratios. The three counties with the highest ratios were Sullivan (73.8), Cameron (72.6), and Potter (71.0).

The U.S. age dependency ratio was 53.8 in 2020 . The three states with the lowest ratios were Massachusetts (50.0), California (49.9), and Colorado (49.9). The three states with the highest ratios were South Dakota (61.8), Montana (60.8), and Idaho (60.3). Among all 50 states, Pennsylvania had the $23^{\text {rd }}$ highest with 55.9 .

## Generational Cohorts

A popular way to understand a population's age structure is to look at generational cohorts. These cohorts can be thought of as groups of people who were born in the same period and grew up sharing similar experiences. Pew Research has identified six generational cohorts. The two largest groups are Baby Boomers (born 1946 to 1964) and Generation Z (born after 1996). The first Baby Boomer turned 65 years old in 2011. From 2021 to 2028, approximately 44,000 rural Pennsylvanians will turn 65 years old every year. In urban Pennsylvania, more than 119,000 people will turn 65 years old every year. The growth of Generation $Z$ is primarily driven by the fact that the end year for this cohort has not yet been determined (See Figure 4).

## Implications

There are many implications of an aging population. The Center has identified five for more consideration.

## Education

From 2010-11 to 2021-22, the number of children enrolled in rural school districts decreased 16 percent. Enrollment projections from the Pennsylvania Department of Education indicate that this trend will continue. The likely cause of this trend is a decrease in the number of births. Perhaps because of enrollment decreases, 38 percent of rural school districts had a net decrease in the number of school buildings. The decrease in enrollment is not just limited to $\mathrm{K}-12$ public schools. Colleges and universities throughout Pennsylvania have seen a 12 percent decrease in enrollment between fall of 2010 and 2021.

## Economic Development

In 2010, rural Pennsylvania had a labor force participation rate of 49 percent. This number means that almost one-half of the working age rural residents were employed. By 2021, this rate dropped to 47 percent. The decrease is driven by several factors, including an increase in retirement, increase in working age adults with a disability, and overall population decline. In addition, those in the labor force

Figure 4: Generational Cohorts in Rural and Urban Pennsylvania, 2020

*According to Pew Research, no chronological endpoint has been set for Generation Z. Data sources: 2020 Census, U.S. Census Bureau, and the Pew Research.
are getting older. In 2010, 21 percent of rural workers were 55 years old and older. In 2021, 27 percent of workers were over age 55 . With an aging population, labor shortages will likely continue; at the same time, the demand for certain aging services, especially health care, will likely increase.

## Housing

As people age, there may be a shift in housing demand from large family homes to smaller homes, which are easier to maintain and offer more accessibility. In addition, interest in revitalizing older housing units in boroughs and cities is likely to continue. One of the challenges many areas will face is how to keep senior citizens in their homes longer.

## Families/Households

Over the past 30 years, the average number of people in rural households has steadily decreased. The trend is largely being driven by a decrease in households with children under age 18 and an increase in people living alone.

## Local Government Implications

Echoing the decrease in the labor force, many rural municipalities may experience a decrease in earned income tax (EIT) revenues. From 2010 to 2021 , 21 percent of reporting rural municipalities had a decrease in EIT revenues, after adjusting for inflation. During this time, EIT went from 48 percent of rural municipal tax revenues to 46 percent.

Recreation is another local government implication. As the population ages, the demand for children's playground equipment will likely be eclipsed by the need for facilities suited to older adults, such as walking trails and various athletic courts.

These are just some of the many implications of aging rural and urban population. It is important for decision makers to explore and understand how these changes will potentially affect their communities and make necessary future plans.

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```



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625 Forster St., Room 902, Harrisburg, PA 17120
717-787-9555 | www.rural.pa.gov
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Pennsylvania County Age Cohorts, 2020
Data source: 2020 Census, U.S. Census Bureau



[^0]:    ${ }^{1}$ Average age was calculated by multiplying single-year age cohorts by their age. This product was then divided by the total population. For people under 1 year old, their age was assumed to be 0.5 years old. For people 100 years old and older, their age was assumed to be 102.

