

# PROFILE & PROJECTIONS OF THE 60+ POPULATION

ATHENS COUNTY

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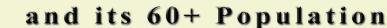
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All county reports as well as a state report are downloadable at: <a href="http://www.scripps.muohio.edu/scripps/research/countyreports.html">http://www.scripps.muohio.edu/scripps/research/countyreports.html</a>

## FAST FACTS

## Athens County





#### WWW.SCRIPPS.MUOHIO.EDU

- Almost 13% of Athens County's population is age 60+ (or 7,798 individuals)
- By 2020, there will be 12,000 individuals age 60+ in Athens County (This is a 52% increase in the 60+ population)
- More than 7 in 10 individuals age 85+ are female
- Disability increases with age: Only 3% of 60-69 year olds have a severe disability, compared to 44% of those 90+
- Nearly 45% of individuals age 60+ have at least one disability
- By 2020, almost 900 individuals age 60+ with a severe disability will reside in Athens County
- Over 18% of the age 60+ population live in poverty
- Just over 3% of individuals age 60+ are racial or ethnic minorities
- Of men age 60+, 77% are married, compared to only 48% of women
- Nearly 8 in 10 individuals age 60+ have 12 or fewer years of education
- Of women age 60+, 43% live alone, compared to 18% of men







#### **Preface**

During the next 20 years, the national population, as well as the population in Ohio, will grow older. In anticipation of this impending change, we have created this series of reports to help Ohio area agencies on aging, service providers, and other organizations that are not directly involved in aging services to better plan for the needs of the aging population.

The purpose of these reports is to present the unique profile of the **older population** (60+) in each of Ohio's 88 counties and to project the number of older people and the prevalence of disability among this population. Trends and projections are provided for ages 60 and above, because this is the eligibility age for some state and local home care programs. Specific topics explored include disability, poverty, marital status, living alone, and educational attainment among the older population. Throughout the reports, trends are compared according to gender and age group for each county. To provide a better understanding of the county's standing in relation to the rest of the state, population characteristics from each county are compared with corresponding measures of Ohio's older population. In order to provide insight into the direction the county is moving some population trends are also presented.

In preparing this report, we used data from the Census short form, which is available for all residents within each county, and the Census long-form, which is available for a representative sample of county residents. The actual Census count from the Census short-form and the weighted sample counts from the long-form may be slightly different. To preserve privacy and confidentially of the respondents, the census long-form data is available for geographic units with a minimum population of 100,000. In some cases a large county encompasses several such geographic units while in other cases a few neighboring counties are bundled together to form a geographic unit with 100,000 population. In large counties, the data for education, poverty threshold, living arrangement, marital status and disability rates are for the county alone, while smaller neighboring counties will show identical data, for the above indicators of need for assistance, for the bundled counties. The data in this report combine Athens, Hocking, Meigs, and Vinton Counties.

Sources used to create all tables and figures are specified.



#### PROFILE & PROJECTIONS OF THE 60+ POPULATION:

#### ATHENS COUNTY, OHIO

#### **Background**

This report illustrates the demographic changes that occurred in Athens County between 1990 and 2000, and presents projections of the older population including the number of older adults with disabilities. The report also covers other population characteristics that have been shown to be associated with the need for long-term care services among older adults, such as the prevalence of poverty, living alone, lack of education, and being unmarried. County-level data are compared to data on Ohio as a whole in order to show differences or similarities in population characteristics. By examining both demographic patterns and informed projections, counties will be better prepared to address the needs of their aging and disabled populations.

#### **County Overview**

Athens County is located in the southeast portion of Ohio, encompassing the city of Athens. In 2000, the county population was 62,223. Athens County is somewhat rural, with 40.7% of the population living in rural areas in 2000, compared to 52.2% in 1990. This represents a decrease of 22.6% in rural population over the ten-year period. With 7,798 individuals age 60 and over, Athens County has the 53<sup>rd</sup> largest 60+ population in the state, yet it ranks 87<sup>th</sup> in proportion of total population that is 60+ (out of 88 counties in Ohio). As shown in the Summary Table, the 60+ population represents 12.5% of the total population in Athens County.

#### Summary Table Athens County, 2000

Total Population Age 60+	7,798
% Population Age 60+	12.5
Population Age 40+	20,695
% Population Age 40+	33.3
% Population 60+ at or Below Poverty Level*	18.0
% Population Age 60+ with Self-Care Disabilities*	12.1
% Population Age 60+ with at Least one Physical, Mental, Sensory or Self-Care Disability*	43.1
% Population 60+ who are White	96.8
% Population Age 60+ who are Married*	60.1
% Population Age 60+ who are Living Alone*	32.2
% Population Age 60+ who Have Less Than a High School Diploma*	39.0

<sup>\*</sup>These data categories reflect combined data from Athens, Hocking, Meigs and Vinton counties.

In some instances in this report, data are presented for the population age 40+. This cohort is important to consider when developing projections, because the population age 40+ in 2000 will be age 60+ in 2020. The population that is currently 40+ is also significant because it contains the baby boom generation. As shown in the summary table, 33.3% of the population in Athens County is currently over the age of 40.

In the remainder of this report, we explore variables (touched on in the Summary Table) that are related to long-term care needs. Factors related to one's need for long-term care include disability, income, race and ethnicity, marital and educational status, and living arrangements. The following sections provide detailed analyses of these risk factors according to gender, age group, county/state standing, and ten-year trends.

#### **Population Profile**

The total population of Athens County increased by 4.5% between 1990 (59,549 residents) and 2000 (62,223 residents). The entire population of Ohio increased 4.7% in the same time. In 2000, 12.5% of the county population was 60+. Table 1 provides a detailed breakdown of the older population in Athens County in 2000 by age group and gender.

Table 1
Population Age 60+, by Gender and Age Group
Athens County, 2000

	Men		Wome	en	
Age Group	Number	Percent	Number	Percent	Total
60-64	965	48.1	1,040	51.9	2,005
65-69	730	45.3	882	54.7	1,612
70-74	663	45.3	802	54.7	1,465
75-79	477	37.9	781	62.1	1,258
80-84	286	37.8	470	62.2	756
85-89	148	32.5	307	67.5	455
90-94	41	21.2	152	78.8	193
95+	9	16.7	45	83.3	54
Total 60+	3,319	42.6	4,479	57.4	7,798
Ohio 60+	823,200	41.9	1,140,289	58.1	1,963,489

Source: U.S. Census Bureau, 2000 Census of Population: Table P12. SEX BY AGE [49] -

Universe: Total Population

**Gender Distribution -** The gender distribution of the older population in Athens County is similar to that of the state of Ohio. Of the entire county population age 60+, women comprise 57.4% (compared to 58.1% in the state). As shown in Table 1, women outnumber men at all ages over 60; a disparity that increases with each advancing age group. Of particular interest is the gender ratio among the oldest age group. Of the population over the age of 84 in Athens County, 71.8% are women. The higher proportion of women among the oldest age group suggests that the population potentially eligible for, and in need of, long-term care services is largely female.

Growth in the Older Population - As shown in Figure 1, there are significant differences in the population distribution across age groups in the county compared to the state. Because the County is home to the Ohio State University, there is a disproportionately large population that is under the age of 40. Off-campus students (non-residence hall) are counted in the census as residents, which accounts for the difference in Athens' older population compared to the state. Although the majority of Ohioans are under the age of 60, the proportion of older adults in Athens County (and Ohio) will grow substantially over the next several decades. This growth in the older population is largely a result of the aging baby boomers. Currently ranging from 40 to 59 years of age, this cohort will dramatically impact the age distribution of the older population as they age. The influence of the baby boomers on both county and state populations is evident in Figure 1.

Athens County & Ohio, 2000 9% 8% 8.1 Athens County Percent of Total Population □ Ohio \* Reflects percent of 6.4 TOTAL population 5.9 5.8 5.2 4.9 4.0 3.8 3.5 3.2 2.9 2.6 2.4 1% 1.2 0% 40-44 45-49 50-54 55-59 65-69 70-74 75-79 80-84 85+ Age Group

Figure 1
Population Distribution\* by Age Group (40-85+)
Athens County & Ohio, 2000

Source: U.S.Census Bureau, 2000 Census of Population: P12. SEX BY AGE [49].

The impact of the baby boomers on the age distribution of the 40+ population is also evident when population data from 2000 are compared to data from 1990. As shown in Figure 2, 20.7% of the county population was age 40-59 in 2000, compared to 16.9% in 1990.

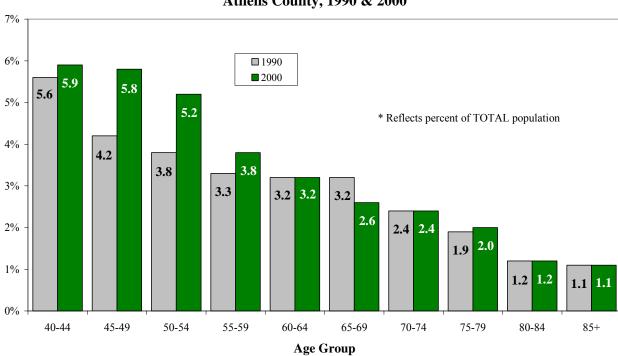


Figure 2
Population Distribution\* by Age Group (40-85+)
Athens County, 1990 & 2000

Source: U.S. Census Bureau, 1990 Summary Tape File 1 (STF1) P011 & 2000 Census of Population: P12. SEX BY AGE [49].

Another indication that the population in Athens County is aging is the increase in median age<sup>1</sup>. Between 1990 and 2000, median age increased from 25 years (1990) to 26 years (2000). This increase closely reflects that of the state, where the median age rose from 33 to 36 years in the same period. An increase in median age suggests that the proportion of older adults in Athens County is growing. As these segments of the county population reach advanced age, the need for long-term care services may increase.

<sup>&</sup>lt;sup>1</sup> The **median age** of a population is that age that divides a population into two groups of the same size, such that half the total population is younger, and the other half is older.

#### **Population Projections**

This section of the report focuses on the expected growth of the overall older population, and on the growth of the older population who will experience some limitation in their ability to perform basic *activities of daily living* (ADLs) such as bathing, dressing, and preparing meals.

To project the size of the population age 60 and older for the years 2005 to 2020, we began with the population (already born) that has reached at least the age of 40. Using the *cohort component* methodology of population projection (Shryock & Siegel, 1996), we made the following assumptions about both survival and migration rates:

*Survival Rate*: Ohio's survival rates are based on national projected survival rates. These rates include improvements in national mortality rates, while maintaining deviation from the national rates observed in Ohio in the 2000 Vital Statistics.

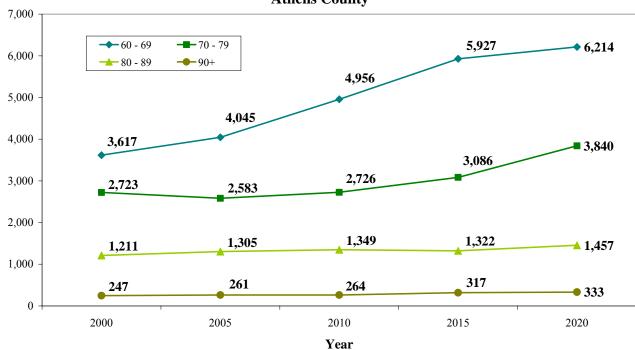
Migration Rate: The 10-year net migration rates were estimated using age-sex counts of each county's population in the 1990 and 2000 Censuses adjusted for the deaths occurring to the age-sex group from April 1, 1990 through March 31, 2000. Of course, in calculating the deaths occurring to an age group, adjustment was made for the group's aging during the decade. The age-sex specific rates of net migration for each county during 1995-2000 are assumed to hold for that county during the period 2000-2005 and 2005-2020. For a more detailed explanation of the procedures used for determining survival or migration rates see the Methodology section.

A beneficial feature of these population projections is the detailed presentation of the 85-89, 90-94, and 95+ age groups (when possible) for the following reasons:

- 1.) The high rate of growth of the population 85 years and over;
- 2.) Rates of disability vary considerably among these age groups;
- 3.) The Federal Interagency Forum on Aging-Related Statistics now recommends that data be presented for ages 85-89, 90-94, and 95+ (<a href="http://www.agingstats.gov/chartbook2000/dataneeds.html">http://www.agingstats.gov/chartbook2000/dataneeds.html</a>).

The number of Athens County residents age 60 and over is expected to increase from a total of 7,798 in 2000 to a projected 11,844 in 2020. As Figure 3 (and Table 1a in the Appendix) illustrates, the greatest increase is expected among the 60-69 year age group (those currently age 40-49). In 2000, there were 3,617 older adults age 60-69 in Athens County. By the year 2020, when the bulk of the baby boomers move into this age group, it is expected that there will be approximately 6,214 individuals age 60-69 in Athens County. This projection suggests a 71.8% increase in the County population in this age group. The 90+ age group is also expected to increase, from 247 in 2000, to 333 in 2020 (an increase of 34.8%).

Figure 3
Projections of Population Age 60+, by Year\* and Age Group,
Athens County



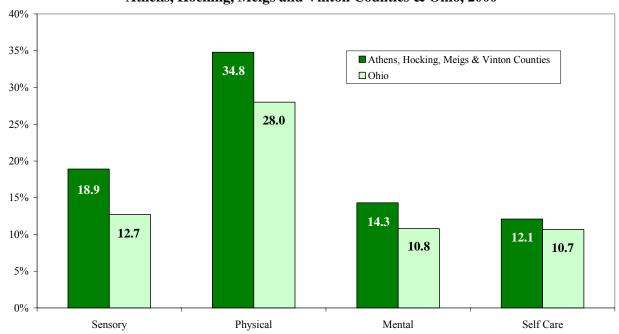
Source: Authors' projections.

<sup>\*</sup>Year 2000 data are actual population counts.

#### Prevalence of Disability among the 60+ Population

The rate of disability among the 60+ population in Athens, Hocking, Meigs and Vinton Counties<sup>2</sup> closely mirrors the state of Ohio. In 2000, the most common type of disability reported was physical, followed by sensory, mental, and self-care impairments, respectively (see Figure 4). According to the Census, a physical impairment is defined as a long-lasting condition that substantially limits one or more basic physical activities such as walking, climbing stairs, reaching, lifting or carrying. Sensory impairments include blindness, deafness, or any severe and long-lasting vision or hearing impairment. Mental health impairment is defined as having difficulty learning, remembering or concentrating because of a physical, mental, or emotional condition that lasts 6 months or more. Self-care impairments include difficulty dressing, bathing, or getting around the house as a result of a long-lasting condition (6 months or more). It should be noted that these categories are not mutually exclusive. Respondents could have multiple impairments, which may span more than one disability category. In 2000, 43.1% of the 60+ population in Athens, Hocking, Meigs and Vinton Counties had at least one disability.

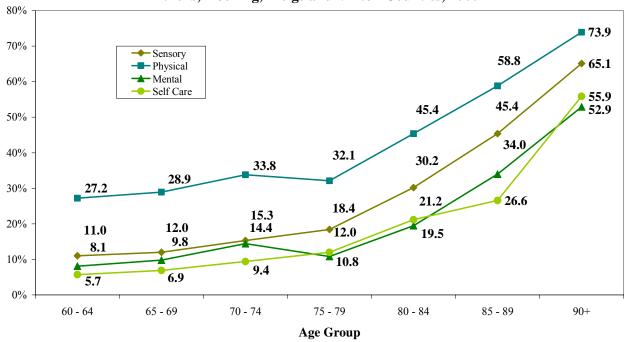
Figure 4
Proportion of Population Age 60+, with Sensory,
Physical, Mental and Self-Care Disabilities,
Athens, Hocking, Meigs and Vinton Counties & Ohio, 2000



<sup>&</sup>lt;sup>2</sup> As explained in the Preface, Figures 4-6, 9-12, & 14-20 present data for Athens, Hocking, Meigs and Vinton Counties.

As illustrated in Figure 5, the percentage of individuals reporting sensory, physical, mental and self-care disabilities in Athens, Hocking, Meigs and Vinton Counties steadily increases with age, not surprisingly, with the oldest age group reporting the highest levels in all four types of disability. For example, the proportion of people with physical disabilities increases from 27.2% of the population age 60-64, to 73.9% of the population age 90+.

Figure 5
Disability Among Population Age 60+
by Type of Disability and Age Group,
Athens, Hocking, Meigs and Vinton Counties, 2000



#### **Projections of Population with Disability**

In this study, disability is defined as a measure of impairment in Activities of Daily Living (ADLs) and Instrumental Activities of Daily Living (IADLs). Three levels are assigned to this measure: Severe Disability, Moderate Disability, and Little or No Disability. Individuals are classified as moderately disabled if they received assistance in one of the following ADLs: eating, transferring in or out of bed or chair, getting to the toilet, dressing, bathing, or remaining continent; or in at least one of the following instrumental tasks of daily living: walking, shopping, meal preparation, housekeeping, or using transportation or telephone. Severe disability refers to receiving assistance in at least two of the following ADLs: eating, bathing, transferring in or out of bed or chair, getting to the toilet, dressing, or remaining continent, or to having cognitive impairment. The disability rates by sex and age group are assumed to remain the same from 2000 to 2020 as they were in 1995.

The prevalence of disability increases with age. As Figure 6 shows, only 3% of the population age 60-64 have a severe disability, compared to more than half (53%) of the people age 95 and older. Women experience higher rates of severe and moderate disability at every age compared to men of the same age. For more information on the prevalence of disability among men and women by age group, see the Methodology section.

100% 15 90% 26 ■ No Disability 80% 44 ☐ Moderate Disability 70% 62 32 ■ Severe Disability 71 60% 80 84 33 86 50% 29 40% 30% 53 23 41 20% 20 27 15 10% 13 11 15 9 5 0% 80-84 90-94 95+ 60-64 65-69 70-74 75-79 85-89 Age Group

Figure 6 **Estimated Percentage Distribution of Total Population** by Disability Status and Age Group, 1995

Source: Mehdizadeh, S.A., Kunkel, S.R., Ritchey, P.N. (2001). Projections of Ohio's Older Disabled Population: 2015 to 2050. Oxford, OH: Scripps Gerontology Center, Miami University.

Since the rate of disability by gender and age group was held constant throughout the timeline (see the Methodology section for a more detailed explanation), any fluctuations in the number of persons with disabilities across time are attributed to projected changes in the number of people in each age-gender group. As was discussed in the population projections section (see Figure 3), the greatest increases in the 60+ population are expected in the 60-69 and 90+ age groups, while more modest increases are expected in the 70-79 and 80-89 age groups. Because increases are expected in all segments of the 60+ population, the projected number of persons with disabilities is expected to increase from 2000-2020 in Athens County (see Table 2 below, and Table 1a in the Appendix). When broken down by age group, projections suggest the greatest increases in both moderate and severe disability among the 60-69 and 90+ age groups because of projected increases in these populations. Table 1a in the Appendix provides a breakdown of the projected number of disabled persons for each age group for Athens County.

Table 2
Projections of Disability Among Population Age 60+
Athens County, 2000\*-2020

Year	Total Population	No Disability	Moderate Disability	Severe Disability
2000	7,798	5,869	1,284	645
2005	8,194	6,196	1,336	662
2010	9,295	7,112	1,468	715
2015	10,652	8,214	1,655	783
2020	11,844	9,133	1,846	865

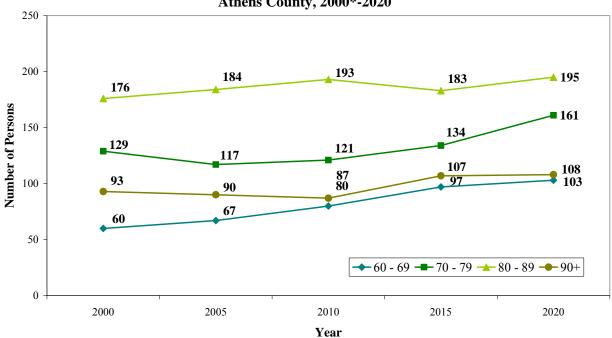
**Source**: Authors' Projections

<sup>\*</sup> Year 2000 data are actual population counts, years 2005-2020 are projections.

Figures 7 and 8 (and Tables 2a and 3a in the Appendix) show the projected number of disabled women and men (respectively) in Athens County according to age group. Because the rates of disability are assumed to be constant over the future time horizon, projected changes in the number of people with disabilities reflect changes in population composition.

With regard to the older female population, 458 were severely disabled in 2000, compared to a projected 567 in 2020. Changes in the number of disabled older adults are expected only in age groups where population changes are expected. Figure 7 shows that between 2000 and 2020, an increase in numbers of severely disabled women age 60+ is expected among all age groups in Athens County, as these populations are expected to increase.

Figure 7
Projections of the Number of Women Age 60+
with Severe Disability, by Age Group,
Athens County, 2000\*-2020

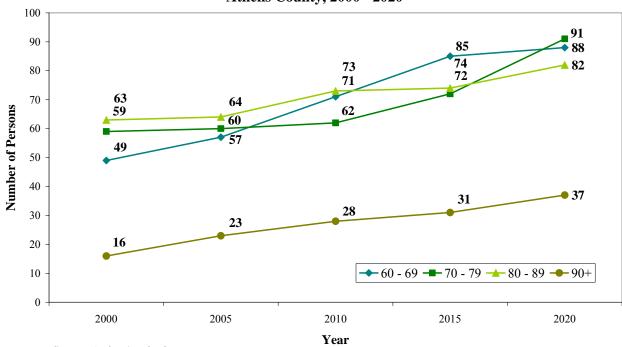


Source: Authors' projections.

<sup>\*</sup>Year 2000 data are actual disability counts.

The population with severe disabilities in Athens County is largely female. In 2000, a total of 187 males age 60 and over were severely disabled (compared to 458 females). By the year 2020, it is expected that the number of disabled older men will increase to 298 (compared to 567 older women). Figure 8 shows that the largest increase in the number of severely disabled men is expected among the 60-69 age group. Smaller increases in the number of severely disabled men are expected among the 70-79, 80-89, and 90+ age groups in Athens County.

Figure 8
Projections of the Number of Men Age 60+
with Severe Disability, by Age Group,
Athens County, 2000\*-2020



**Source**: Authors' projections. \*Year 2000 data are actual disability counts.

#### Population Characteristics that Could Affect Need for Care

Several variables have been found to be related to the prevalence of disability and the need for long-term care services as one ages. These variables include poverty, racial and ethnic background, marital status, living alone, and educational attainment (<a href="http://www.aoa.gov/prof/statistics/future\_growth/aging21/Program.asp">http://www.aoa.gov/prof/statistics/future\_growth/aging21/Program.asp</a>). In the following sections, these issues are explored in the context of the older population in Athens, Hocking, Meigs and Vinton Counties.

**Poverty -** Standards for gauging poverty levels are set by the Federal Poverty Threshold<sup>3</sup>, which delineates income levels (or thresholds) that vary by family size, age of householder, and number of related children under 18 years of age. Rates of poverty are typically discussed as percentages of the Federal Poverty Threshold (FPT), for which those with incomes below 100% of the FPT are the most impoverished, and those with incomes above 400% of the FPT are the most economically advantaged. In the following discussion, data regarding individuals with incomes greater than 400% of the poverty level are included for comparison, although these individuals are not considered impoverished. As shown in Figure 9, a significant number of older adults in Athens, Hocking, Meigs and Vinton Counties are potential candidates for state and federal assistance based on income eligibility. In 2000, 66.2% of the 60+ population had incomes below 300% of the federal poverty level. Of this population, 18.0% were living at or below 100% of the poverty level.

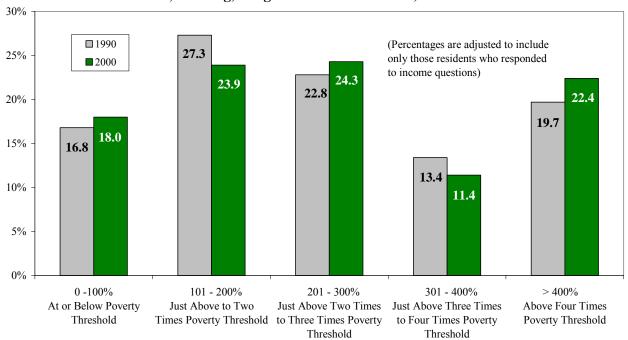
35% 33.0 Athens, Hocking, Meigs & Vinton Counties 30% □ Ohio \*Individuals with incomes at or above 400% of FPT are considered financially well-off. 25% 24.3 23.9 20% 22.4 20.0 18.7 18.0 15% 15.9 10% 12.4 11.4 5% 0 -100% 101 - 200% 201 - 300% 301 - 400% > 400% At or Below Poverty Just Above to Two Just Above Two Times Just Above Three Times Above Four Times Threshold Times Poverty Threshold to Three Times Poverty to Four Times Poverty Poverty Threshold Threshold Threshold

Figure 9
Proportion of Population Age 60+ by Poverty Threshold Ratio,
Athens, Hocking, Meigs and Vinton Counties & Ohio, 2000

<sup>&</sup>lt;sup>3</sup> **Federal Poverty Threshold** - In 2000, the poverty level was \$8,959 for one person under the age of 65, and \$8,259 for an individual over 65. For two person households, the poverty level was \$11,590 if the householder was under 65 and \$10,419 when the householder was 65+. In 1990, the poverty threshold was \$6,800 (annual income) for one person under the age of 65, and \$6,268 for an individual over 65. For two person households, where the householder was under the age of 65, the poverty threshold was \$8,794, and \$7,905 when the householder was 65+. For more information about poverty thresholds, see: <a href="http://www.census.gov/hhes/poverty/threshld.html">http://www.census.gov/hhes/poverty/threshld.html</a> **Scripps Gerontology Center Page 13** 

Compared to 1990, there were a higher percentage of older adults at both ends of the poverty scale in Athens, Hocking, Meigs and Vinton Counties in 2000. Figure 10 shows that the percent of adults 60+ living below the poverty level increased from 16.8% in 1990 to 18.0% in 2000. At the other end of the scale, the percent of older adults with incomes over 400% of the poverty level (the most economically advantaged) also increased in this period, from 19.7% in 1990, to 22.4% in 2000. A considerable number of people did not complete income related questions properly in the 1990 Census. As a result, the wide gap in the percentage of people at or below poverty from 1990 to 2000 may be partially due to this responding pattern.

Figure 10
Proportion of Population Age 60+ by Poverty Threshold Ratio,
Athens, Hocking, Meigs and Vinton Counties, 1990 & 2000



A closer examination of poverty rates in Athens, Hocking, Meigs and Vinton Counties reveals striking trends in relation to age. As shown in Figure 11, the percentage of people at or below the poverty level increases dramatically with advancing age. To illustrate, nearly one-third (29.0%) of 60-64 year olds reported incomes above four times the poverty threshold (the highest income category), compared to only 17.6% of those in the oldest age group (90+). In contrast, 17.9% of 60-64 year olds fall in the lowest income category, while 46.7% of the 90+ population reported incomes at or below the poverty threshold.

Figure 11
Proportion of 60+ Population in Poverty Compared to Those with Incomes
Above Four Times Poverty Threshold, by Age Group,
Athens, Hocking, Meigs and Vinton Counties, 2000

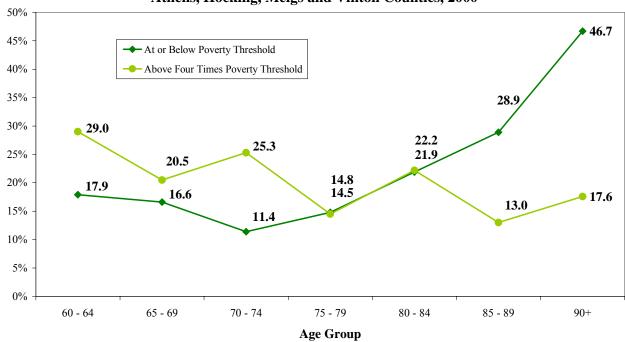
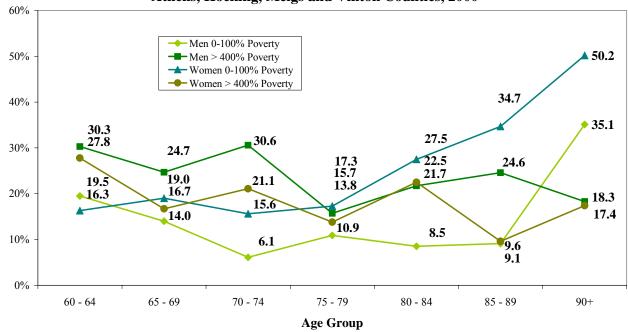


Figure 12 shows a comparison of the most economically disadvantaged income category ( $\leq$  100% FPT) and the most economically advantaged income category (> 400% FPT) by gender and age group. In order to show the contrast between the lowest and the highest income groups, the middle income categories have been intentionally left out.

In 2000, 30.3% of men age 60-64 were in the highest income category, while only 18.3% of men age 90+ had this level of income. In contrast, only 16.3% of men age 60-64 were in the lowest income category, compared to 35.1% of men age 90+. Figure 12 shows that a fairly stable percentage of older men were classified as having incomes at or below 100% of the FPT from ages 60-84, with an increase in the proportion of men in this income category as they approach the 90+ age group. It appears that age 85-89 is a pivotal point for men, where average incomes drop sharply as they near the 90+ age group.

The pattern of income distribution among older women in Athens, Hocking, Meigs and Vinton Counties is similar to that of older men. One important distinction is that there is a higher proportion of women in the lowest income category ( $\leq 100\%$  FPT), and a lower proportion of women in the highest income category ( $\geq 400\%$  FPT) at nearly all ages.

Figure 12
Proportion of Population Age 60+,
by Poverty Threshold Ratio\*, Age Group, and Gender,
Athens, Hocking, Meigs and Vinton Counties, 2000



<sup>\*</sup>Middle income groups have been removed in order to show the contrast between the lowest and highest income groups.

#### **Race and Ethnicity**

Athens County's older population is less racially and ethnically diverse than the older population in Ohio as a whole. Figure 13 shows that in 2000, 96.8% of the county population (60+) identified themselves as white non-Hispanic, compared to 89.7% of the state population. In the same year, 1.0% of the county population self-identified as black non-Hispanic, compared to 8.4% of the state population.

Athens County & Ohio, 2000 120% ■ Athens County 100% 96.8 □Ohio 89.7 80% 60% 40% 20% 8.4 1.0 1.9 0.7 0.4 0% White Non-Hispanic Black Non-Hispanic Other Races Non-Hispanic Hispanic

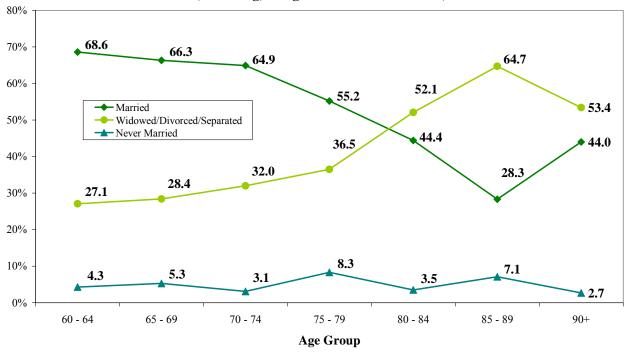
Figure 13
Race and Ethnic Distribution Among Population Age 60+,
Athens County & Ohio, 2000

Source: U.S. Census Bureau, 2000 Census of Population: PCT12I, PCT12J, & PCT12H SEX BY AGE.

#### **Marital Status**

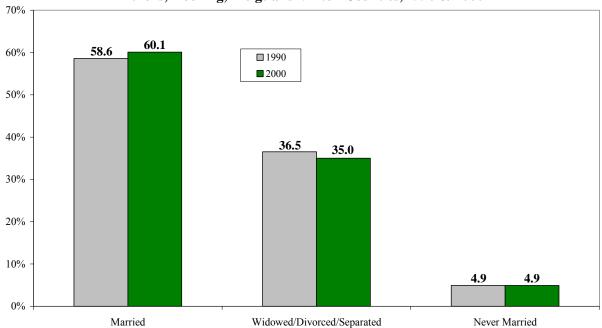
According to Census data, the percentage of married older adults decreases steadily after age 60. As illustrated in Figure 14, the majority (68.6%) of 60-64 year olds were married in 2000, while 31.4% were single (defined as widowed, divorced, separated or never married). In contrast to 60-64 year olds, the marital status of the 90+ population is nearly the inverse. Among this age group, 56.1% were single in 2000, while 44.0% were married.

Figure 14
Marital Status of Population Age 60+, by Age Group Athens, Hocking, Meigs and Vinton Counties, 2000



Between 1990 and 2000, the percentage of married older adults (60+) in Athens, Hocking, Meigs and Vinton Counties remained fairly stable. In 2000, 60.1% of older residents were married compared to 58.6% in 1990. Similarly, no major changes occurred among the single population (people who were widowed, divorced, separated, or never married). In 2000, 39.9% of the 60+ population was single, compared to 41.4% in 1990 (see Figure 15).

Figure 15
Marital Status Among Population Age 60+,
Athens, Hocking, Meigs and Vinton Counties, 1990 & 2000



Women above the age of 60 are more likely to be widowed, divorced, or separated than men. Figure 16 shows that 76.9% of men age 60+ in Athens, Hocking, Meigs and Vinton Counties were married in 2000, compared to only 47.8% of women. Because single older adults are more likely than married couples to need outside help or institutional care, the population in Athens, Hocking, Meigs and Vinton Counties that is potentially in need of such assistance is largely female.

90% 80% 76.9 ■ Men 70% ■ Women 60% 50% 47.8 47.6 40% 30% 17.9 10% 5.2 4.6 Married Never Married Widowed/Divorced/Separated

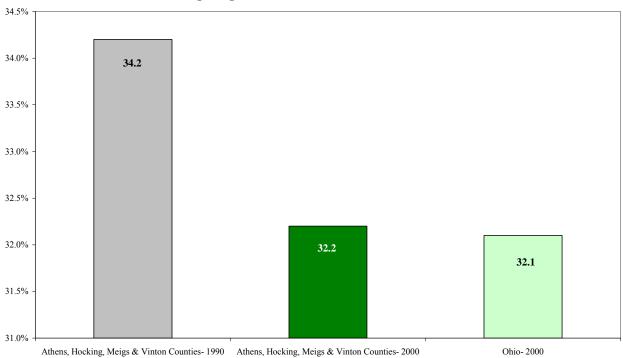
Figure 16
Marital Status Among Population Age 60+, by Gender Athens, Hocking, Meigs and Vinton Counties, 2000

#### **Living Alone**

Figure 17 compares the proportion of Athens, Hocking, Meigs and Vinton County residents age 60+ who were living alone in 2000 to Ohio, and illustrates the changes that occurred in the county population (60+) living alone between 1990 and 2000.

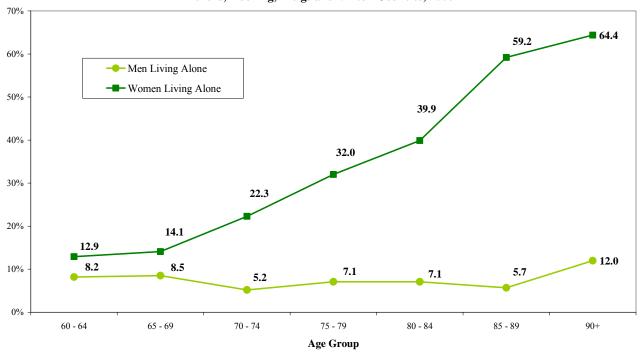
In 2000, 32.2% of Athens, Hocking, Meigs and Vinton County residents age 60+ were living alone, compared to 32.1% of the state population age 60+. The percentage of older adults living alone in Athens, Hocking, Meigs and Vinton Counties has decreased since 1990, from 34.2% of the 60+ population to 32.2% in 2000.

Figure 17
Proportion of Population Age 60+ Living Alone,
Athens, Hocking, Meigs and Vinton Counties, 1990 & 2000, and Ohio, 2000



Older women are more likely than older men to be living alone in Athens, Hocking, Meigs and Vinton Counties. Figure 18 shows that a higher percentage of women than men are living alone at all ages above 60. While the percentage of men living alone increases only slightly with age, the percent of women living alone increases dramatically with age. Among the 60-64 year age group in 2000, 12.9% of women were living alone, compared to 8.2% of men. Among the oldest age group (90+), 64.4% of women were living alone, compared to only 12.0%

Figure 18
Proportion of Population Age 60+ Living Alone,
by Gender, and Age Group,
Athens, Hocking, Meigs and Vinton Counties, 2000



Source: U.S. Census Bureau, 2000: Public Use Microdata Sample: 5-Percent.

of their male counterparts.

#### **Education**

Studies suggest that there is a strong relationship between educational attainment and the prevalence of poverty and disability in old age. Figure 19 shows that the majority of older adults (60+) in Athens, Hocking, Meigs and Vinton Counties have completed 12 or fewer years of school. Over one third (39.7%) of older adults have completed high school, and 39.1% have completed less than 12 years. This suggests that a significant proportion of the older population may be economically vulnerable.

Figure 19
Highest Level of Educational Attainment
Among Population Age 60+
Athens, Hocking, Meigs and Vinton Counties & Ohio, 2000

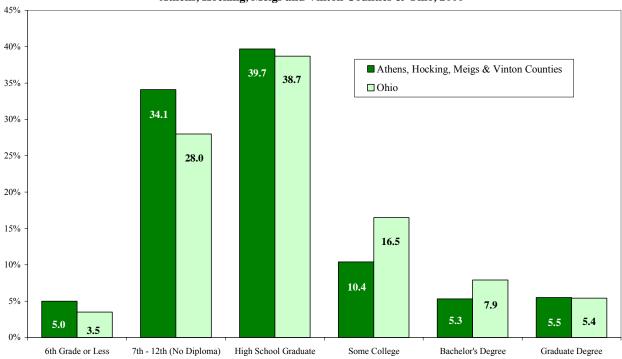
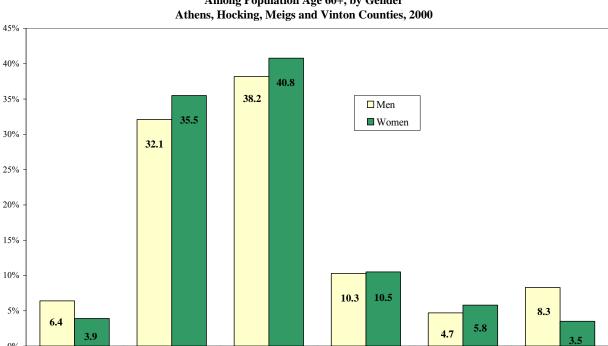


Figure 20 contrasts the educational attainment of older adults in Athens, Hocking, Meigs and Vinton Counties by gender. Older women are more likely to have only completed high school, while older men are more likely to have pursued and obtained higher degrees. As a whole, the older female population in Athens, Hocking, Meigs and Vinton Counties is less educated than the older male population.



Some College

Bachelor's Degree

Graduate Degree

High School Graduate

Figure 20
Highest Level of Educational Attainment
Among Population Age 60+, by Gender
Athens, Hocking, Meios and Vinton Counties, 2000

Source: U.S. Census Bureau, 2000: Public Use Microdata Sample: 5-Percent.

7th - 12th (No Diploma)

#### **Summary**

6th Grade or Less

This analysis of population trends and projections in Athens County, Ohio reveals several important issues with regard to the prevalence of poverty and disability among the older population. Primarily, it is evident that the County population is aging, and the population age 60+ will continue to grow over the next twenty years. More specifically, the so-called "oldest old" (85+) are the fastest growing age group in the County (as well as the state of Ohio). The unprecedented growth in the older population will present the County (and the state) with a number of challenges in the coming years. Among the older population in Athens County, levels of disability and poverty increase with age, with the oldest old experiencing the highest rates of both. Also of concern is the preponderance of older women among the oldest age groups, who comprise a majority of the impoverished, disabled and single populations. These women, who are highly economically vulnerable, and are potentially in need of significant personal care assistance, are frequently living alone; a trend that is expected to become increasingly common over the next several decades.

#### Methodology

Projections of the disabled older population in Athens County were calculated in three steps. We developed projections of the county's older population by gender and age groups from 2000 to 2020. We also made estimates of disability rates for the older population by gender and age groups. And, we applied these disability rates to the projected population to project the number of persons with a disability in Athens County.

**Projection Method -** We developed population projections using the "cohort component method" (Shryock & Siegel, 1996). This method involves beginning with actual population counts in gender and age groups, and applying specific rates of change (births, deaths, and migration) to estimate the future population. We projected the population in cycles of 5-year periods through the year 2020. We applied projected survival rates to the beginning population in order to calculate the surviving population for a 5-year period (see following section for an explanation of survival rates). Next, we applied gender and age group specific migration rates to calculate the number of survivors leaving and joining the county population during the five years. The final projected population equals the survived population plus the difference between the number of migrants leaving and joining the county. The projected population at the end of each 5-year period becomes the beginning population for the next 5-year period, and the procedure is repeated over the desired time horizon. We used 5-year age groupings of men and women to make the projections. In order to project the population that will be 60+ in 2020, we began with the population that was 40+ in 2000 (these cohorts, of course, age as they are projected forward).

**Survival Rates -** To calculate survival rates for the older population in Ohio, we combined projected national mortality rates from the Census with actual mortality rates for the state to develop a trended set of survival rates for 2005-2020. All calculations were done for each gender in 5-year age groups. Using Census projected life tables for 2000, 2005, 2010, 2015, and 2020, we developed 5-year survival rates for the nation (for life tables, see <a href="http://www.census.gov/population/www/projections/natdet.html">http://www.census.gov/population/www/projections/natdet.html</a>). Using Ohio counts of death and counts of population for 2000, we developed survival rates for Ohio for 2000. We then projected the County's survival rates to pattern the expected change for the Nation while maintaining the difference between the County and the Nation that occurred in 2000.

**Migration Rates -** We computed net migration estimates (i.e., the difference in the number of migrants joining and leaving the county) for the County for each gender in 5-year age groups (beginning with ages 40-44 years old, through 95+). We calculated migration estimates using Census data for 1990 and 2000 and counts of County death from Ohio public use mortality files (Ohio Department of Health, 1990-2000). We "survived" the 1990 County population of each gender and age group by subtracting the deaths from those residing in the county from April 1, 1990 through March 31, 2000. In calculating the deaths occurring to an age group, we adjusted for the group's getting older, or aging, during the decade. We calculated net migration by subtracting this survived population from the 2000 count of the age population (the age group that was 10 years older in 2000 than in 1990). Thus, net migration equals the actual 2000 count minus the survived population (or minus the number of people that would have been in the county had no migration taken place during the decade). The aforementioned set of assumptions, which guided our projection methodology, garnered specific results. If these assumptions were

changed, it would yield different results. In 2003, the Ohio Department of Development produced a series of population projections for each of Ohio's 88 counties. As their research was based on a different set of assumptions, their numbers differ from ours slightly (http://www.odod.state.oh.us/research/).

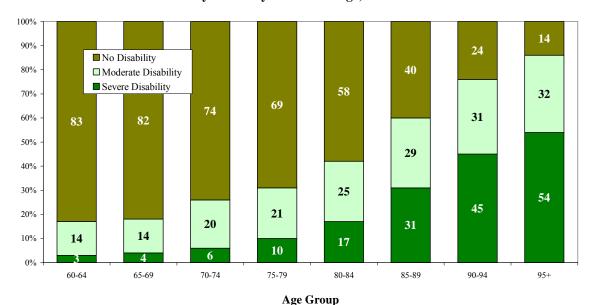
Estimation of Age and Sex Specific Disability Rates for Gender and Age Groups - Disability in this study is defined as a measure of impairment in activities of Daily Living (ADL) and Instrumental Activities of Daily Living (IADL). Three levels were assigned to this measure: Severe Disability, Moderate Disability, and Little or No Disability. Disability rates for the institutionalized and community based older population were calculated separately, weighted by their respective proportions in the population, and then combined.

The community disability rates were calculated using the community portion of the 1994 National Long Term Care Survey (NLTCS). Institutional disability rates were calculated using the 1995 National Nursing Home Survey (NNHS). These surveys provided information to calculate the disability rate for the 65+ population. As we defined disability, we relied on individual ADL-IADL item scores. Sample participants were identified as either dependent in performing Activities of Daily Living or independent in order to assign disability status to each individual. Two criteria were used in selecting individual ADL or IADL items to include in the disability scale: 1) items must have similar wording, content, and time span in both surveys; and 2) the scale, and the items used in creating the scale, must be as similar as possible to the items used in calculating the disability measure that we created in our earlier studies of projecting disabled older population of Ohio.

We used 2000 Census data on self-care disabilities and the National Health Interview Survey on Disability, 1995: Phase II Adult Followback as a guide to extend the disability rates established for the 65+ population to the 60-64 age group. We are assuming that the proportion of the population that will become disabled in each gender and age group will remain constant from 1995 (the survey dates) to the year 2020. We acknowledge that there are studies that suggest it could be otherwise.

Figures 21 and 22 show the higher rates of severe disability among women of all ages, and the consistent increase in the prevalence of disability with advancing age for both men and women.

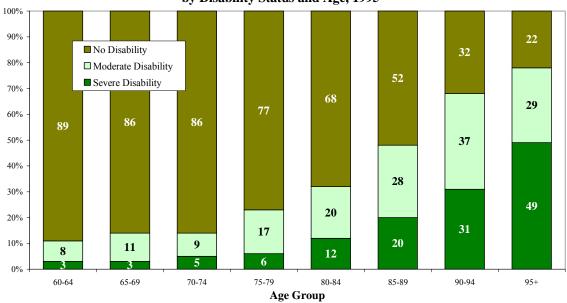
Figure 21
Estimated Percentage Distribution of Women
by Disability Status and Age, 1995



Source: Mehdizadeh, S.A., Kunkel, S.R., Ritchey, P.N. (2001). Projections of Ohio's Older Disabled Population: 2015 to 2050.

Oxford, OH: Scripps Gerontology Center, Miami University.

Figure 22
Estimated Percentage Distribution of Men
by Disability Status and Age, 1995



Source: Mehdizadeh, S.A., Kunkel, S.R., Ritchey, P.N. (2001). Projections of Ohio's Older Disabled Population: 2015 to 2050.

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Mehdizadeh, S.A., Kunkel, S.R., & Ritchey, P.N. (2001). Projections of Ohio's older disabled population: 2015 to 2050. Oxford, OH: Scripps Gerontology Center, Miami University.

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### **Appendix**

Table 1a
Projections of Total Older Population by Age and Levels of Disability
Athens County, 2000, 2005, 2010, 2015, 2020

Year         Age Group         Population         No Disability         Disability         Disability           2000*         60 - 69         3,617         3,077         431         109           70 - 79         2,723         2,066         469         188           80 - 89         1,211         668         304         239           90+         247         58         80         109           Total Age 60+         7,798         5,869         1,284         645           2005         60 - 69         4,045         3,441         480         124           70 - 79         2,583         1,963         443         177           80 - 89         1,305         730         327         248           90+         261         62         86         113           Total Age 60+         8,194         6,196         1,336         662           2010         60 - 69         4,956         4,221         584         151           70 - 79         2,726         2,083         460         183           80 - 89         1,349         745         338         266           90+         264         63         86 <th></th> <th></th> <th>Total</th> <th>00, 2003, 2010, 2</th> <th>Moderate</th> <th>Severe</th>			Total	00, 2003, 2010, 2	Moderate	Severe
2000*         60 - 69         3,617         3,077         431         109           70 - 79         2,723         2,066         469         188           80 - 89         1,211         668         304         239           90+         247         58         80         109           Total Age 60+         7,798         5,869         1,284         645           2005         60 - 69         4,045         3,441         480         124           70 - 79         2,583         1,963         443         177           80 - 89         1,305         730         327         248           90+         261         62         86         113           Total Age 60+         8,194         6,196         1,336         662           2010         60 - 69         4,956         4,221         584         151           70 - 79         2,726         2,083         460         183           80 - 89         1,349         745         338         266           90+         264         63         86         115           Total Age 60+         9,295         7,112         1,468         715	Voor	Age Group		No Disability		
70 - 79         2,723         2,066         469         188           80 - 89         1,211         668         304         239           90+         247         58         80         109           Total Age 60+         7,798         5,869         1,284         645           2005         60 - 69         4,045         3,441         480         124           70 - 79         2,583         1,963         443         177           80 - 89         1,305         730         327         248           90+         261         62         86         113           Total Age 60+         8,194         6,196         1,336         662           2010         60 - 69         4,956         4,221         584         151           70 - 79         2,726         2,083         460         183           80 - 89         1,349         745         338         266           90+         264         63         86         115           Total Age 60+         9,295         7,112         1,468         715           2015         60 - 69         5,927         5,044         701         182		Age Group	1 opulation	140 Disability	Disability	Disability
80 - 89         1,211         668         304         239           90+         247         58         80         109           Total Age 60+         7,798         5,869         1,284         645           2005         60 - 69         4,045         3,441         480         124           70 - 79         2,583         1,963         443         177           80 - 89         1,305         730         327         248           90+         261         62         86         113           Total Age 60+         8,194         6,196         1,336         662           2010         60 - 69         4,956         4,221         584         151           70 - 79         2,726         2,083         460         183           80 - 89         1,349         745         338         266           90+         264         63         86         115           Total Age 60+         9,295         7,112         1,468         715           2015         60 - 69         5,927         5,044         701         182           70 - 79         3,086         2,360         520         206	2000* 6	60 - 69	3,617	3,077	431	109
90+         247         58         80         109           Total Age 60+         7,798         5,869         1,284         645           2005         60 - 69         4,045         3,441         480         124           70 - 79         2,583         1,963         443         177           80 - 89         1,305         730         327         248           90+         261         62         86         113           Total Age 60+         8,194         6,196         1,336         662           2010         60 - 69         4,956         4,221         584         151           70 - 79         2,726         2,083         460         183           80 - 89         1,349         745         338         266           90+         264         63         86         115           Total Age 60+         9,295         7,112         1,468         715           2015         60 - 69         5,927         5,044         701         182           70 - 79         3,086         2,360         520         206           80 - 89         1,322         733         332         257	70	70 - 79	2,723	2,066	469	188
Total Age 60+         7,798         5,869         1,284         645           2005         60 - 69         4,045         3,441         480         124           70 - 79         2,583         1,963         443         177           80 - 89         1,305         730         327         248           90+         261         62         86         113           Total Age 60+         8,194         6,196         1,336         662           2010         60 - 69         4,956         4,221         584         151           70 - 79         2,726         2,083         460         183           80 - 89         1,349         745         338         266           90+         264         63         86         115           Total Age 60+         9,295         7,112         1,468         715           2015         60 - 69         5,927         5,044         701         182           70 - 79         3,086         2,360         520         206           80 - 89         1,322         733         332         257           90+         317         77         102         138	86	80 - 89	1,211	668	304	239
2005         60 - 69         4,045         3,441         480         124           70 - 79         2,583         1,963         443         177           80 - 89         1,305         730         327         248           90+         261         62         86         113           Total Age 60+         8,194         6,196         1,336         662           2010         60 - 69         4,956         4,221         584         151           70 - 79         2,726         2,083         460         183           80 - 89         1,349         745         338         266           90+         264         63         86         115           Total Age 60+         9,295         7,112         1,468         715           2015         60 - 69         5,927         5,044         701         182           70 - 79         3,086         2,360         520         206           80 - 89         1,322         733         332         257           90+         317         77         102         138	90	90+	247	58	80	109
70 - 79       2,583       1,963       443       177         80 - 89       1,305       730       327       248         90+       261       62       86       113         Total Age 60+       8,194       6,196       1,336       662         2010       60 - 69       4,956       4,221       584       151         70 - 79       2,726       2,083       460       183         80 - 89       1,349       745       338       266         90+       264       63       86       115         Total Age 60+       9,295       7,112       1,468       715         2015       60 - 69       5,927       5,044       701       182         70 - 79       3,086       2,360       520       206         80 - 89       1,322       733       332       257         90+       317       77       102       138	Т	Total Age 60+	7,798	5,869	1,284	645
70 - 79         2,583         1,963         443         177           80 - 89         1,305         730         327         248           90+         261         62         86         113           Total Age 60+         8,194         6,196         1,336         662           2010         60 - 69         4,956         4,221         584         151           70 - 79         2,726         2,083         460         183           80 - 89         1,349         745         338         266           90+         264         63         86         115           Total Age 60+         9,295         7,112         1,468         715           2015         60 - 69         5,927         5,044         701         182           70 - 79         3,086         2,360         520         206           80 - 89         1,322         733         332         257           90+         317         77         102         138	2005	60 60	4.045	2 441	190	124
80 - 89       1,305       730       327       248         90+       261       62       86       113         Total Age 60+       8,194       6,196       1,336       662         2010       60 - 69       4,956       4,221       584       151         70 - 79       2,726       2,083       460       183         80 - 89       1,349       745       338       266         90+       264       63       86       115         Total Age 60+       9,295       7,112       1,468       715         2015       60 - 69       5,927       5,044       701       182         70 - 79       3,086       2,360       520       206         80 - 89       1,322       733       332       257         90+       317       77       102       138			-			
90+         261         62         86         113           2010         60 - 69         4,956         4,221         584         151           70 - 79         2,726         2,083         460         183           80 - 89         1,349         745         338         266           90+         264         63         86         115           Total Age 60+         9,295         7,112         1,468         715           2015         60 - 69         5,927         5,044         701         182           70 - 79         3,086         2,360         520         206           80 - 89         1,322         733         332         257           90+         317         77         102         138				· ·		
Total Age 60+         8,194         6,196         1,336         662           2010         60 - 69         4,956         4,221         584         151           70 - 79         2,726         2,083         460         183           80 - 89         1,349         745         338         266           90+         264         63         86         115           Total Age 60+         9,295         7,112         1,468         715           2015         60 - 69         5,927         5,044         701         182           70 - 79         3,086         2,360         520         206           80 - 89         1,322         733         332         257           90+         317         77         102         138			-			
2010       60 - 69       4,956       4,221       584       151         70 - 79       2,726       2,083       460       183         80 - 89       1,349       745       338       266         90+       264       63       86       115         Total Age 60+       9,295       7,112       1,468       715         2015       60 - 69       5,927       5,044       701       182         70 - 79       3,086       2,360       520       206         80 - 89       1,322       733       332       257         90+       317       77       102       138						
70 - 79       2,726       2,083       460       183         80 - 89       1,349       745       338       266         90+       264       63       86       115         Total Age 60+       9,295       7,112       1,468       715         2015       60 - 69       5,927       5,044       701       182         70 - 79       3,086       2,360       520       206         80 - 89       1,322       733       332       257         90+       317       77       102       138	<del> 1</del>	Total Age ou+	8,194	0,190	1,330	002
80 - 89       1,349       745       338       266         90+       264       63       86       115         Total Age 60+       9,295       7,112       1,468       715         2015       60 - 69       5,927       5,044       701       182         70 - 79       3,086       2,360       520       206         80 - 89       1,322       733       332       257         90+       317       77       102       138	2010 60	60 - 69	4,956	4,221	584	151
90+         264         63         86         115           Total Age 60+         9,295         7,112         1,468         715           2015         60 - 69         5,927         5,044         701         182           70 - 79         3,086         2,360         520         206           80 - 89         1,322         733         332         257           90+         317         77         102         138	70	70 - 79	2,726	2,083	460	183
Total Age 60+         9,295         7,112         1,468         715           2015         60 - 69         5,927         5,044         701         182           70 - 79         3,086         2,360         520         206           80 - 89         1,322         733         332         257           90+         317         77         102         138	80	80 - 89	1,349	745	338	266
2015     60 - 69     5,927     5,044     701     182       70 - 79     3,086     2,360     520     206       80 - 89     1,322     733     332     257       90+     317     77     102     138	90	90+	264	63	86	115
70 - 79     3,086     2,360     520     206       80 - 89     1,322     733     332     257       90+     317     77     102     138	T	Total Age 60+	9,295	7,112	1,468	715
70 - 79     3,086     2,360     520     206       80 - 89     1,322     733     332     257       90+     317     77     102     138	2015 6	60 - 69	5,927	5,044	701	182
80 - 89     1,322     733     332     257       90+     317     77     102     138	70	70 - 79	-			206
<b>90</b> + 317 77 102 138	80	80 - 89			332	257
m + 1 4 co   10 cc   2014   1 cc   700	90	90+		77	102	138
[1 otal Age 60+   10,652   8,214   1,655   /83	T	Total Age 60+	10,652	8,214	1,655	783
<b>2020 60 - 69</b> 6,214 5,285 738 191	2020 60	60 - 69	6.214	5 285	738	191
				·		252
						277
						145
						865

<sup>\*</sup> Year 2000 data are actual population counts, years 2005-2020 are

Table 2a
Projections of the 60+ Female Population by Age Group and Level of Disability
Athens County

<u>Year</u>	Age <u>Group</u>	Total <u>Population</u>	Population with No Disability	Populati <u>Disa</u> l	
				<b>Moderate</b> <sup>a</sup>	Severe <sup>b</sup>
2000	60-64	1,040	864	148	28
	65-69	882	727	123	32
	70-74	802	597	157	48
	75-79	781	532	168	81
	80-84	470	271	117	82
	85-89	307	124	89	94
	90 +	197	43	61	93
	Total	4,479	3,158	863	458
<u>Year</u>	Age <u>Group</u>	Total <u>Population</u>	Population with No Disability	Populati <u>Disal</u>	
				Moderate <sup>a</sup>	Severeb
2005	60-64	1,147	952	163	32
	65-69	962	793	134	35
	70-74	783	583	153	47
	75-79	674	459	145	70
	80-84	569	328	142	99
	85-89	281	114	82	85
	90 +	193	42	61	90
	Total	4,609	3,271	880	458
<u>Year</u>	Age <u>Group</u>	Total <u>Population</u>	Population with No Disability	Population with <u>Disability</u>	
				<b>Moderate</b> <sup>a</sup>	Severe <sup>b</sup>
2010	60-64	1,478	1,227	210	41
	65-69	1,065	877	149	39
	70-74	859	640	168	51
	75-79	664	452	142	70
	80-84	499	288	124	87
	85-89	350	142	102	106
	90 +	187	41	59	87
	Total	5,102	3,667	954	481

Table 2a Continued
Projections of 60+ Female Population by Age Group and Level of Disability
Athens County

Year	Age <u>Group</u>	Total <u>Population</u>	Population with No Disability	Population with Disability	
				<b>Moderate</b> <sup>a</sup>	$Severe^{b}$
2015	60-64	1,664	1,382	236	46
	65-69	1,377	1,134	192	51
	70-74	957	712	187	58
	75-79	735	501	158	76
	80-84	500	289	125	86
	85-89	315	127	91	97
	90 +	229	51	71	107
	Total	5,777	4,196	1,060	521
<u>Year</u>	Age <u>Group</u>	Total <u>Population</u>	Population with No Disability	Populati <u>Disal</u>	
				<b>Moderate</b> <sup>a</sup>	Severeb
2020	60-64	1,651	1,371	234	46
	65-69	1,556	1,282	217	57
	70-74	1,244	926	243	75
	75-79	825	562	177	86
	80-84	561	324	140	97
	85-89	323	131	94	98
	90 +	229	49	72	108
	Total	6,389	4,645	1,177	567

**Source:** Authors' projections.

<sup>&</sup>lt;sup>a</sup> Moderate disability is defined as received help in at least one of the following activities of daily living: eating, transferring in or out of bed or chair, getting to the toilet, dressing, bathing, remaining continent; or in at least two of the following instrumental activities of daily living: walking, shopping, meal preparation, housekeeping, or using transportation.

<sup>&</sup>lt;sup>b</sup> Severe disability is defined as received help in at least two of the following activities of daily living: eating, transferring in or out of bed or chair, getting to the toilet, dressing, remaining continent, or having cognitive impairment.

Table 3a
Projections of the 60+ Male Population by Age Group and Level of Disability
Athens County

<u>Year</u>	Age <u>Group</u>	Total <u>Population</u>	Population with No Disability	Populati <u>Disa</u> l	
				<b>Moderate</b> <sup>a</sup>	Severe <sup>b</sup>
2000	60-64	965	857	81	27
	65-69	730	629	79	22
	70-74	663	572	61	30
	75-79	477	365	83	29
	80-84	286	195	57	34
	85-89	148	78	41	29
	90 +	50	15	19	16
	Total	3,319	2,711	421	187
<u>Year</u>	Age <u>Group</u>	Total <u>Population</u>	Population with No Disability	Populati <u>Disal</u>	
				Moderate <sup>a</sup>	Severeb
2005	60-64	1,087	965	91	31
	65-69	849	731	92	26
	70-74	617	532	57	28
	75-79	509	389	88	32
	80-84	309	211	62	36
	85-89	146	77	41	28
	90 +	68	20	25	23
	Total	3,585	2,925	456	204
<u>Year</u>	Age <u>Group</u>	Total <u>Population</u>	Population with No Disability	Populati <u>Disal</u>	
				<b>Moderate</b> <sup>a</sup>	Severe <sup>b</sup>
2010	60-64	1,452	1,289	121	42
	65-69	961	828	104	29
	70-74	723	624	67	32
	75-79	480	367	83	30
	80-84	337	230	67	40
	85-89	163	85	45	33
	90 +	77	22	27	28
	Total	4,193	3,445	514	234

Table 3a Continued
Projections of 60+ Male Population by Age Group and Level of Disability
Athens County

<u>Year</u>	Age <u>Group</u>	Total <u>Population</u>	Population with No Disability	Population with <u>Disability</u>	
				<b>Moderate</b> <sup>a</sup>	$Severe^{b}$
2015	60-64	1,596	1,417	133	46
	65-69	1,290	1,111	140	39
	70-74	825	712	76	37
	75-79	569	435	99	35
	80-84	324	221	65	38
	85-89	183	96	51	36
	90 +	88	26	31	31
	Total	4,875	4,018	595	262
<u>Year</u>	Age <u>Group</u>	Total <u>Population</u>	Population with No Disability	Populati Disal	
				Moderate <sup>a</sup>	Severe <sup>b</sup>
2020	60-64	1,582	1,404	132	46
	65-69	1,425	1,228	155	42
	70-74	1,115	962	103	50
	75-79	656	501	114	41
	80-84	392	268	78	46
	85-89	181	95	50	36
	90 +	104	30	37	37
	Total	5,455	4,488	669	298

**Source:** Authors' projections.

<sup>&</sup>lt;sup>a</sup> Moderate disability is defined as received help in at least one of the following activities of daily living: eating, transferring in or out of bed or chair, getting to the toilet, dressing, bathing, remaining continent; or in at least two of the following instrumental activities of daily living: walking, shopping, meal preparation, housekeeping, or using transportation.

<sup>&</sup>lt;sup>b</sup> Severe disability is defined as received help in at least two of the following activities of daily living: eating, transferring in or out of bed or chair, getting to the toilet, dressing, remaining continent, or having cognitive impairment.