

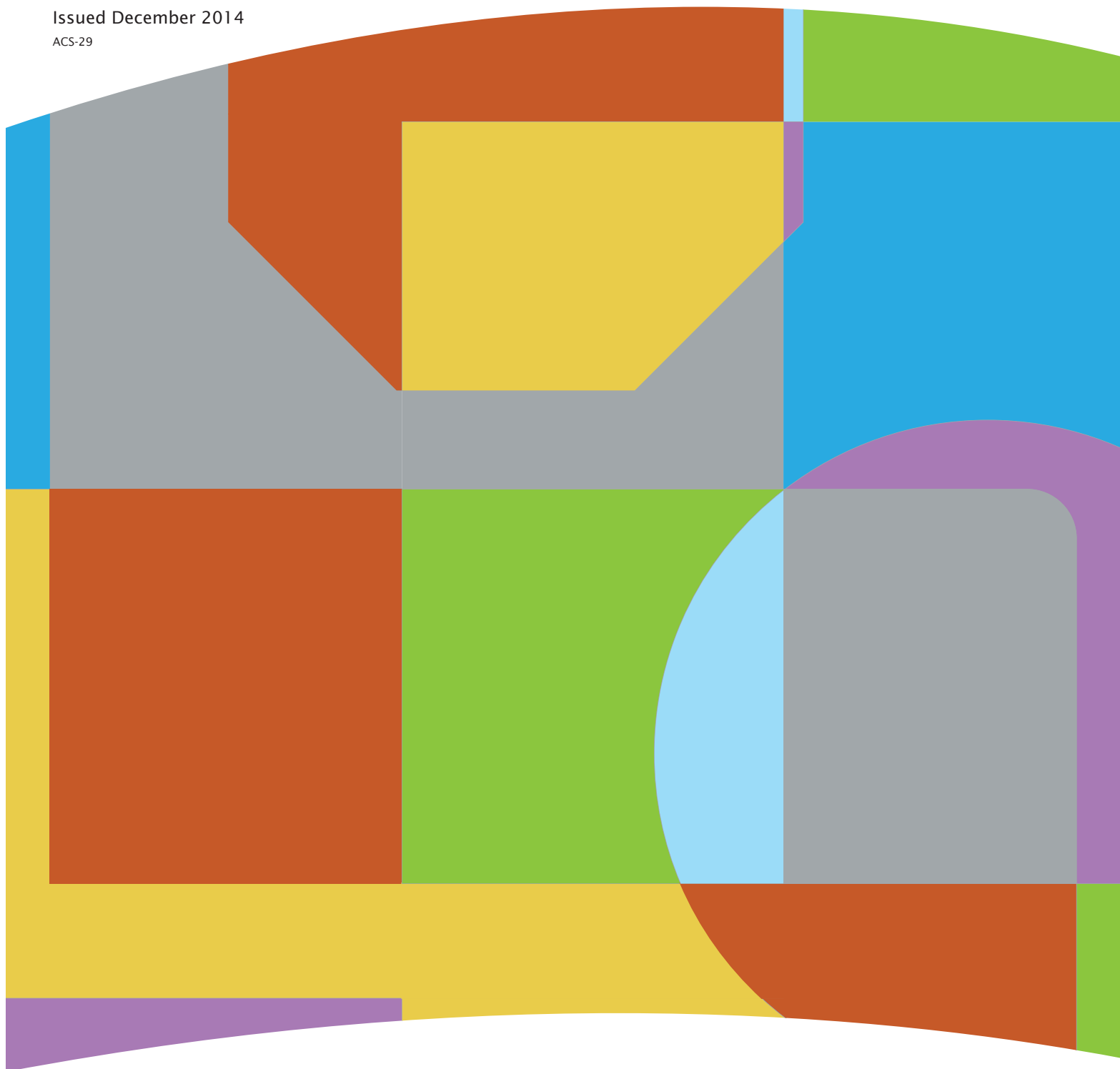
Older Americans With a Disability: 2008–2012

American Community Survey Reports

Wan He and Luke J. Larsen

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INTRODUCTION

Disability, as defined by the Americans With Disabilities Act, is an individual's physical or mental impairment that substantially limits one or more major life activities of that individual.¹ Studies consistently find that disability rates rise with age (Altman and Bernstein, 2008; Brault, 2012). Beyond age 65, the oldest old (aged 85 and over) are at highest risk for disease and disability (National Institutes of Health, 2010), and among them, disability prevalence increases rapidly with age (He and Muenchrath, 2011).

Changes in population age structure are contributing to a growing number of older people with a disability. In the past several decades, the U.S. older population itself has been aging—the proportion of the oldest-old segment (aged 85 and over) of the older population has increased from 8.8 percent in 1980 to 13.6 percent in 2010 (West et al., 2014). Given higher prevalence rates among the oldest old, this changing composition of the older population has increased the number with a disability.

Baby Boomers started to enter the older age ranks in 2011, and they will swell the size of the older population in the next 2 decades.² The number of older people with a disability could also expand rapidly. Thus, it is important to identify those among the older population most at risk for disability in order to help older people with a disability and their families plan

strategies to deal with daily activity difficulties.

In recent decades, the concept of disability has shifted from an individual, medical perspective to a social model in which disability is viewed as the result of social and physical barriers (World Health Organization and the World Bank, 2011). The *International Classification of Functioning, Disability, and Health* recognizes the value of both models and views disability as arising from the interaction of health conditions and environmental and personal factors (Leonardi et al., 2006). The U.S. Census Bureau modified the American Community Survey (ACS) questions on disability starting in 2008 to better reflect this new paradigm.

This report presents an overview of the older population with a disability during 2008–2012. Data for this report come from the ACS 5-year estimates with interviews conducted in 2008 to 2012 pooled together. The 5-year estimates are ideal for conducting meaningful and statistically reliable analyses of special population groups, such as the older population with a disability, not only for the entire nation, but also for states and counties. The report examines the demographic and socioeconomic characteristics, as well as the geographic distribution of the older population with a disability, with a focus on those in poverty or living alone.

STATUS, NUMBER, AND TYPE OF DISABILITY

Disability status

In 2008–2012, there were 40.7 million people aged 65 and over in the United States, representing 13.2 percent of the total population. Among this older population, about 15.7 million, or 38.7 percent,

HOW THE ACS MEASURES DISABILITY

The ACS questions cover six disability types:

Hearing difficulty—deaf or having serious difficulty hearing.

Vision difficulty—blind or having serious difficulty seeing, even when wearing glasses.

Cognitive difficulty—because of a physical, mental, or emotional problem, having difficulty remembering, concentrating, or making decisions.

Ambulatory difficulty—having serious difficulty walking or climbing stairs.

Self-care difficulty—having difficulty bathing or dressing.

Independent living difficulty—because of a physical, mental, or emotional problem, having difficulty doing errands alone, such as visiting a doctor's office or shopping.

Respondents who report any one of the six disability types are considered to have a disability.

The ACS identifies serious difficulty with four basic areas of functioning—hearing, vision, cognition, and ambulation. The ACS supplements the functional limitations with questions about selected activities from the Katz Activities of Daily Living (ADL)—difficulty dressing and bathing; and from the Lawton Instrumental Activities of Daily Living (IADL) scales—difficulty performing errands, such as visiting a doctor's office or shopping. However, the ACS does not gather information on the severity or timing of onset of the disability, or on the use of technology or assistance.

¹ This definition is from the 2008 Amendment Act to the Americans With Disabilities Act of 1990 (ADA). For more information, see <www.ada.gov/pubs/adastatute08.htm#12102note>.

² The Baby Boom includes people born from mid-1946 to 1964. The Baby Boom is distinguished by a dramatic increase in birth rates following World War II and comprises one of the largest generations in U.S. history.

reported having one or more disabilities. The older population with a disability was disproportionately concentrated among the oldest old—those aged 85 and older represented 13.6 percent of the total older population, but accounted for 25.4 percent of the older population with a disability, with 65- to 74-year-olds and 75- to 84-year-olds about evenly split for the remainder (37.0 percent and 37.6 percent, respectively). Furthermore, women composed 59.0 percent of the older population experiencing disabilities (higher than their 56.8 percent share of the total older population). This translates into a sex ratio of 69 men per 100 women for the older population with a disability.

Number of disabilities

Among the older population, 61.3 percent reported having no disabilities among the six types defined on the ACS questionnaire, 15.9 percent reported having only one type of disability, 8.0 percent reported two types of disabilities, and 14.7 percent reported three or more types of disabilities (Figure 1). The patterns of the number of disabilities differed by age. When this percentage distribution was examined by three broad age groups, the share without a disability declined as age rose, while the shares with one, two, and three or more disabilities generally rose with age. The contrast is particularly salient when it comes to three or more types of disabilities. For the youngest age group (65 to 74),

only 7.0 percent reported three or more types of disabilities, the proportion more than doubled to 16.5 percent for those aged 75 to 84, and reached 41.5 percent for those aged 85 and older.

Type of disability

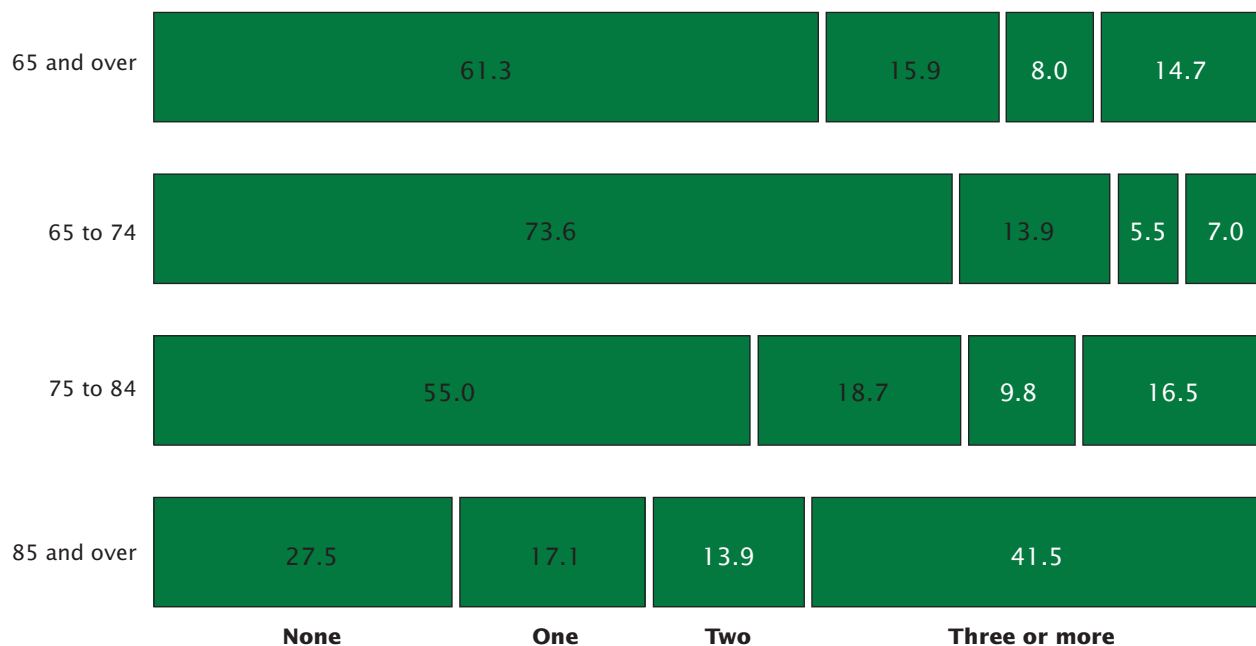
Of the six ACS disability items, ambulatory difficulty was the most frequently reported by the older population in 2008–2012.³ About 10 million people, or two-thirds (66.5 percent) of the total older population with a disability, reported having serious difficulty walking or climbing stairs (Table 1). Difficulty with independent living, such as visiting a doctor's office or shopping, was a distant second

³ This analysis does not include combinations of types of disabilities.

Figure 1.

Population Aged 65 and Over by Number of Disabilities and Age: 2008–2012

(Percentage distribution. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see www.census.gov/acs/www)



Source: U.S. Census Bureau, American Community Survey, 5-year estimates, 2008–2012.

(47.8 percent), followed by serious difficulty hearing (40.4 percent). The order for these top three types of disability was consistent across age groups, except for those aged 65 to 74, where the prevalence of hearing difficulty (34.9 percent) was higher than that of independent living (34.0 percent).

The prevalence rate for all disability types increased with age as expected, but interesting contrasts existed between men and women. Older women were more likely than older men to have five of the six types of disability included in the ACS, especially that of ambulatory difficulty (73.1 percent for women versus 57.1 percent for men). Older women's higher prevalence rates for disability may partly be a function of their age composition compared with that of older men.

Older men, however, stood out with a higher proportion reporting serious difficulty hearing (52.0 percent, compared with 32.3 percent for women). Men's higher likelihood for having a hearing disability may reflect the life-long occupational differentials between men and women, that men may be more likely to have worked in industries such as mining, manufacturing,

or construction—industries documented to cause noise-induced hearing loss (Agrawal, Platz, and Niparko, 2008; Zhan et al., 2010). Some of these studies also pointed to smoking as having a possible correlation with hearing impairment at older ages (also see Cruickshanks et al., 1998).

GEOGRAPHIC DISTRIBUTION

Health statistics show wide disparities in the health of the older population across states. According to the Centers for Disease Control and Prevention (CDC), where one lives in the United States affects how long and how healthfully one lives (CDC, 2013). Residents in the South, regardless of race or sex, had lower healthy life expectancy (HLE) at age 65 than residents in other regions.⁴

⁴ Healthy life expectancy (HLE) is a population health measure which estimates expected years of life in good health or free from disability. The CDC calculated state-specific HLE at age 65 using mortality data from the National Vital Statistics System, population estimates from the Census Bureau, and self-reported health status from the Behavioral Risk Factor Surveillance System. For more information, see <www.cdc.gov/mmwr/pdf/wk/mm6228.pdf>.

The South region was home to 6.1 million older people with a disability (Table 2), equivalent to 38.7 percent of the total older population with a disability living in the United States.⁵ The other three regions each contained approximately one-fifth of the total—the Midwest, 3.5 million; the West, 3.3 million; and the Northeast, 2.9 million. The regional distribution of the older population with a disability is similar to that for the total older population reported in the 2010 Census, where 37 percent resided in the South, and the remaining 63 percent were split fairly equally among the Northeast, the Midwest, and the West regions (West et al., 2014).

⁵ The four regions of the United States as defined by the Census Bureau—Northeast: Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont; Midwest: Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin; South: Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia; and West: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming. In this report, the District of Columbia is treated as a state equivalent.

Table 1.

Population Aged 65 and Over With a Disability by Type of Disability, Age, and Sex: 2008–2012

(Numbers in thousands. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see www.census.gov/acs/www)

Type of disability ¹	Total		Age						Sex			
			65 to 74		75 to 84		85 and over		Male		Female	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Vision	3,028	19.2	959	16.5	1,075	18.2	994	24.9	1,137	17.6	1,891	20.4
Hearing	6,354	40.4	2,030	34.9	2,400	40.6	1,924	48.1	3,352	52.0	3,001	32.3
Cognitive	4,529	28.8	1,311	22.6	1,655	28.0	1,562	39.1	1,668	25.9	2,861	30.8
Ambulatory	10,467	66.5	3,696	63.6	3,861	65.2	2,911	72.8	3,681	57.1	6,786	73.1
Self-care	4,468	28.4	1,177	20.2	1,595	26.9	1,697	42.4	1,502	23.3	2,966	31.9
Independent living	7,523	47.8	1,978	34.0	2,796	47.2	2,749	68.7	2,381	37.0	5,142	55.4

¹ Percentages for type of disability are the proportion of each type of disability among the total population aged 65 and over with a disability. A person may have one or more types of disability and, as such, the percentages add to more than 100.

Source: U.S. Census Bureau, American Community Survey, 5-year estimates, 2008–2012.

Table 2.

State Population Aged 65 and Over With a Disability by Selected Characteristics: 2008–2012—Con.

(Numbers in thousands. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see www.census.gov/acs/www)

Region and state	Total 65 and over	With a disability		Percentage of population with a disability				
				Number of disabilities		Living arrangement ¹		Group quarters
		Number	Percentage of total	One disability	Two or more disabilities	Household		
Living alone	Living with others							
United States.	40,671	15,729	38.7	41.1	58.9	29.9	60.9	9.2
Region								
Northeast.	7,869	2,906	36.9	40.5	59.5	32.0	56.3	11.7
Midwest.	9,090	3,474	38.2	42.4	57.6	32.3	56.2	11.5
South.	15,057	6,080	40.4	40.4	59.6	28.8	63.5	7.8
West.	8,655	3,269	37.8	41.8	58.2	27.5	65.3	7.1
State								
Alabama.	663	300	45.2	37.8	62.2	30.4	62.7	6.9
Alaska.	56	24	42.5	44.0	56.0	27.1	65.5	7.4
Arizona.	895	310	34.6	46.2	53.8	26.8	68.4	4.8
Arkansas.	422	191	45.1	40.2	59.8	29.7	61.7	8.6
California.	4,301	1,649	38.4	38.9	61.1	26.3	66.3	7.5
Colorado.	558	198	35.4	45.3	54.7	30.8	60.5	8.7
Connecticut.	510	181	35.6	41.2	58.8	31.4	55.5	13.1
Delaware.	131	47	35.8	44.4	55.6	27.6	63.8	8.6
District of Columbia.	69	26	37.1	40.4	59.6	40.3	50.7	9.0
Florida.	3,298	1,167	35.4	43.6	56.4	27.3	66.5	6.2
Georgia.	1,047	429	41.0	39.0	61.0	27.9	64.4	7.7
Hawaii.	197	72	36.4	40.1	59.9	18.6	72.8	8.6
Idaho.	197	77	39.2	45.0	55.0	28.4	65.5	6.1
Illinois.	1,622	614	37.8	41.0	59.0	32.5	56.8	10.8
Indiana.	847	338	39.9	42.4	57.6	31.2	57.8	11.1
Iowa.	455	167	36.6	44.4	55.6	32.5	52.1	15.4
Kansas.	378	152	40.1	42.2	57.8	33.0	54.0	13.0
Kentucky.	583	262	44.9	38.8	61.2	31.7	58.9	9.4
Louisiana.	562	254	45.2	38.7	61.3	29.0	62.4	8.6
Maine.	213	85	40.0	45.7	54.3	33.1	57.6	9.3
Maryland.	716	252	35.2	41.1	58.9	29.3	60.5	10.2
Massachusetts.	911	333	36.6	40.7	59.3	33.8	53.9	12.3
Michigan.	1,372	529	38.6	42.6	57.4	31.9	59.6	8.5
Minnesota.	689	241	34.9	44.6	55.4	34.4	51.8	13.7
Mississippi.	384	184	48.0	35.9	64.1	30.0	62.0	8.0
Missouri.	843	347	41.1	41.6	58.4	30.9	57.7	11.4
Montana.	148	58	39.0	47.4	52.6	33.5	57.4	9.2
Nebraska.	248	94	37.9	45.5	54.5	33.6	52.9	13.6
Nevada.	329	116	35.2	46.3	53.7	24.9	70.8	4.3
New Hampshire.	181	64	35.6	46.1	53.9	28.6	59.1	12.3
New Jersey.	1,196	421	35.2	40.0	60.0	30.4	59.9	9.6
New Mexico.	275	116	42.1	41.4	58.6	28.4	66.2	5.4
New York.	2,641	976	37.0	38.9	61.1	32.2	55.6	12.2
North Carolina.	1,248	502	40.3	40.5	59.5	30.6	60.8	8.7
North Dakota.	98	38	39.0	44.4	55.6	32.8	50.3	16.9
Ohio.	1,635	634	38.8	41.5	58.5	32.2	56.7	11.2
Oklahoma.	510	227	44.6	41.3	58.7	30.6	60.5	8.9
Oregon.	541	210	38.8	43.7	56.3	31.3	61.9	6.8
Pennsylvania.	1,972	753	38.2	41.2	58.8	31.7	56.6	11.7
Rhode Island.	153	58	37.9	42.4	57.6	34.6	52.1	13.3

See footnote at end of table.

Table 2.

State Population Aged 65 and Over With a Disability by Selected Characteristics: 2008–2012—Con.

(Numbers in thousands. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see www.census.gov/acs/www)

Region and state	Total 65 and over	With a disability		Percentage of population with a disability				
				Number of disabilities		Living arrangement ¹		Group quarters
		Number	Percentage of total	One disability	Two or more disabilities	Household		
						Living alone	Living with others	
State—Con.								
South Carolina	640	256	40.0	40.5	59.5	28.8	63.8	7.4
South Dakota	117	46	38.8	43.6	56.4	32.1	52.5	15.5
Tennessee	861	370	43.0	38.8	61.2	30.0	61.9	8.1
Texas	2,635	1,113	42.2	39.2	60.8	26.5	65.7	7.8
Utah	252	90	35.8	46.0	54.0	27.8	67.3	5.0
Vermont	92	34	36.8	42.5	57.5	33.0	54.9	12.0
Virginia	989	362	36.6	41.8	58.2	29.4	62.8	7.8
Washington	837	323	38.6	43.8	56.2	31.0	60.3	8.6
West Virginia	299	137	45.9	39.1	60.9	32.2	60.9	6.9
Wisconsin	784	275	35.1	43.7	56.3	33.8	53.7	12.5
Wyoming	70	27	38.4	47.0	53.0	31.0	60.1	9.0

¹ The percentages may not add to 100.0 due to rounding.

Source: U.S. Census Bureau, American Community Survey, 5-year estimates, 2008–2012.

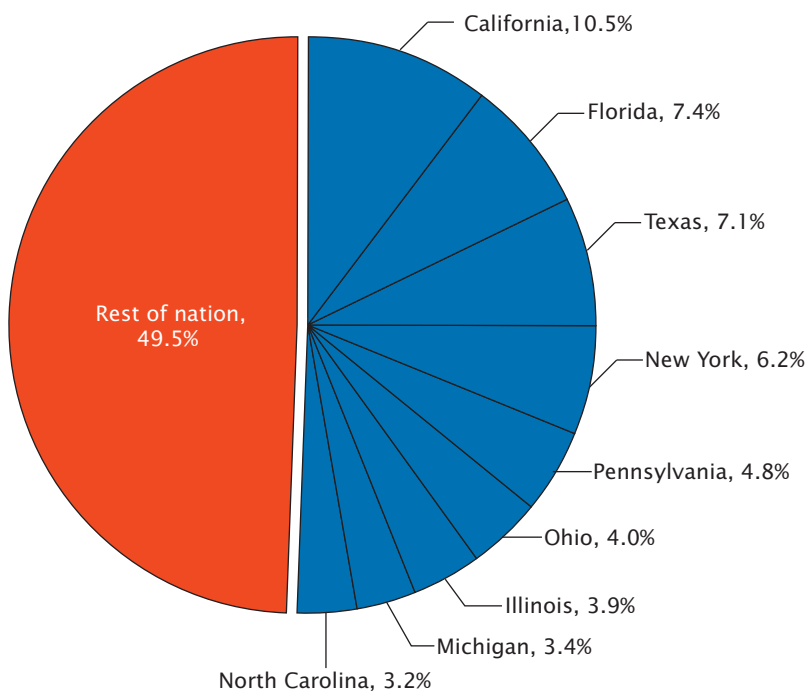
About half (50.5 percent) of older Americans with a disability resided in nine states (Figure 2). Three states each had more than 1 million older people with a disability (Table 2)—California (1.6 million), Florida (1.2 million), and Texas (1.1 million). Another six states housed 500,000 or more each—New York (976,000), Pennsylvania (753,000), Ohio (634,000), Illinois (614,000), Michigan (529,000), and North Carolina (502,000). These top states were also among the largest states in size of the total population and the older population.⁶

Not surprisingly, states with the fewest people aged 65 and over with a disability were also the states with a small overall and older population size (Table 2). Alaska had the fewest older people with a disability (24,000), followed by the District of Columbia (26,000), Wyoming (27,000),

Figure 2.

Share of Top Nine States Among Total Population Aged 65 and Over With a Disability: 2008–2012

(For information on confidentiality protection, sampling error, nonsampling error, and definitions, see www.census.gov/acs/www)



Source: U.S. Census Bureau, American Community Survey, 5-year estimates, 2008–2012.

⁶ See West et al., 2014 for more information on state population size and ranking for population of all ages and 65 and older from the 2010 Census.

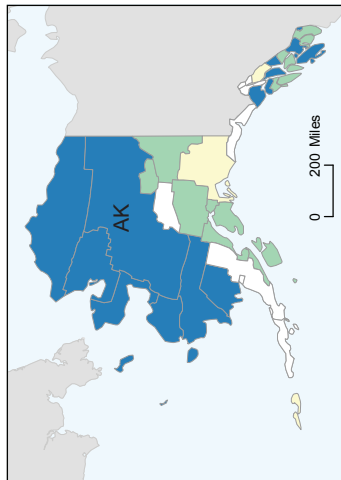
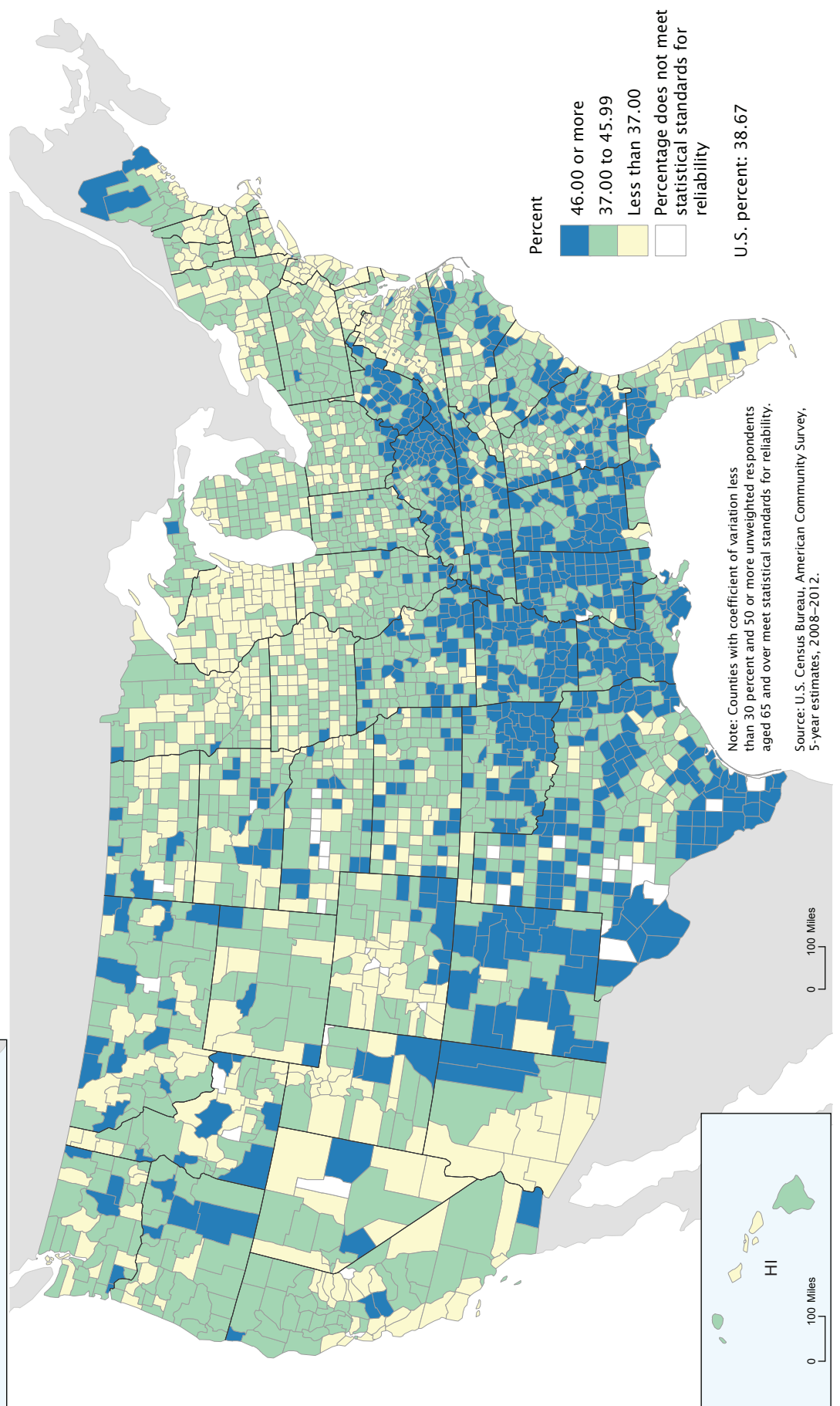


Figure 3.

Percentage With a Disability Among County Population Aged 65 and Over: 2008–2012

(For information on confidentiality protection, sampling error, nonsampling error, and definitions, see www.census.gov/acs/www)



Vermont (34,000), North Dakota (38,000), South Dakota (46,000), and Delaware (47,000).⁷

However, a different pattern emerges when proportion, not population size, is examined. California's 1.6 million older people with a disability represented 38.4 percent of the state's population aged 65 and older, close to the national average (38.7 percent). In comparison, at 184,000, Mississippi's older population with a disability was equivalent to 48.0 percent of the state's total older population, the highest disability prevalence rate in the nation (Table 2). Arizona (34.6 percent) had one of the lowest disability rates.

Figure 3 displays the percentage with a disability among the population aged 65 and over for each county. Most of the nine top states in the size of older population with a disability, including Michigan, New York, and Pennsylvania, contained few counties with a high proportion of people with a disability. On the other hand, clusters of counties with high concentrations can be seen in central and north central Appalachia, the Mississippi Delta, some counties in the coastal plain from southern Virginia to the Florida Panhandle, eastern Oklahoma, along the Texas-Mexico border, and in a number of American Indian reservations in Arizona and New Mexico. These patterns are consistent with CDC's estimates of state-level HLE at age 65. HLE was estimated to be the lowest in Mississippi (10.8 years), followed by West Virginia (11.0 years), Kentucky (11.0 years), Alabama (11.1 years), and Tennessee (11.9 years; CDC, 2013).

⁷ The estimates for South Dakota and Delaware are not statistically different from each other.

DEMOGRAPHIC AND SOCIOECONOMIC CHARACTERISTICS

Educational attainment

Higher educational attainment has been linked to better health, as people with higher education are shown to be more likely to have a better understanding or willingness to use assistive technology or have home modification to mitigate functional difficulties in their daily lives (Melzer et al., 2001; Agree, Freedman, and Sengupta, 2004). Examination of the percentage of the population aged 65 and over with a disability by educational attainment (Table 3) supports the positive role education plays in the health conditions of older people and their ability to deal with environmental factors affecting disability.

Table 3 shows disability prevalence for each of three broad categories of educational attainment by selected characteristics. More than half (54.4 percent) of the older population who had not graduated from high school had a disability, twice the rate of those with a bachelor's degree or higher (26.0 percent). This inverse relationship between educational attainment and likelihood of having a disability can be found across age, sex, race, and Hispanic origin.

While the general pattern holds true for all characteristics examined, there are variations within the subgroups. Regardless of educational attainment level, disability prevalence rates rose with age. For example, among those with a college degree, just 16 percent of the youngest group (aged 65 to 74) reported having a disability; in contrast, the disability rate of

the oldest old was four times this level. Similarly, for those with less than a high school education, 41.5 percent of those aged 65 to 74 had a disability, while the share increased to nearly 8 out of 10 for the oldest old.

Disability rates were higher for women than men at all education levels. Among the race groups, older Asians had the lowest disability prevalence across all three educational categories. Older Blacks who had not completed high school had the highest disability rate at 57.9 percent.⁸

Marital status

Marital status can have an impact on people's wellbeing; this is especially true at older ages when the likelihood of widowhood rises (Moon et al., 2011; DiGiacomo et al., 2013). In 2008–2012, disability rates were lower for the married older population as compared to those who were widowed or in other categories of marital status (Table 3).⁹ For example, among the population aged 65 to 74, about one in five who were married had a disability, while about one in three who were widowed or in other marital categories had a disability.

Disability prevalence rates rise with age for all categories of marital status. For example, for both married and widowed, the percentage with a disability increased continuously across the older age groups, with the rate for the age group 85 and

⁸ Race groups in this report refer to single race groups, or race alone, not in combination. For more information on the concepts of race and Hispanic origin, see Humes, Jones, and Ramirez, 2011.

⁹ "Married" refers to respondents who were married (excluding separated) at the time the survey was administered.

over more than twice the rate for ages 65 to 74.

Thus, the combination of being widowed and being among the 85 and older age group dramatically increases the likelihood of having a disability (76.0 percent), as compared with those who are married and aged 65 to 74 (22.3 percent). The 2008–2012 ACS recorded 2.6 million oldest-old widows or widowers with a disability.

Disability prevalence differences between older men and older women by marital status showed interesting contrasts. While married older men were more likely than married older women to have a disability (33.0 percent and 26.7 percent, respectively), older widowers had a lower likelihood than older widows (52.3 percent and 53.6 percent, respectively).

Differences in percentages with a disability can also be found among the race and Hispanic origin groups. Older Asians had the lowest disability rates among both the married and widowed.

Living arrangement

The living arrangements of the older population are closely related to their age and marital status. Widowhood increases the likelihood of living alone or living in a nursing home (Russell, 2009; Noël-Miller, 2010). While living alone might be preferable to some older people, living alone may present difficulties for people unable to perform everyday activities independently.

During 2008–2012, 29.9 percent of the older population with a disability lived alone, 9.2 percent lived in group quarters, such as a nursing

home, and the rest lived with others in households (Table 2 and Figure 4).¹⁰ As age increases, the proportion of the population living alone or living in group quarters also increases. Among the older population with a disability, 24.4 percent of the youngest age group (65 to 74) lived alone in a household, and this proportion increased to 30.0 percent for those aged 75 to 84, and 37.7 percent for the oldest old. Older women with a disability were nearly twice as likely to live alone as older men with a disability (36.6 percent compared with 20.2 percent).

Living arrangements varied by race and Hispanic origin—almost

¹⁰ Nursing homes, a part of the category referred to as “institutional group quarters” by the Census Bureau, provide skilled care including 24-hour access to aides and skilled nurses.

Table 3.

Percentage of Population Aged 65 and Over With a Disability by Educational Attainment, Marital Status, and Selected Characteristics: 2008–2012

(For information on confidentiality protection, sampling error, nonsampling error, and definitions, see www.census.gov/acs/www)

Age, sex, race, and Hispanic origin	Total	Educational attainment			Marital status		
		Less than high school	High school graduate/some college	Bachelor's degree or above	Married	Widowed	Other ¹
Total	38.7	54.4	37.3	26.0	30.3	53.4	40.8
Age							
65 to 74	26.4	41.5	26.1	16.0	22.3	33.9	33.4
75 to 84	45.0	57.3	43.2	34.1	39.6	51.0	49.4
85 and over	72.5	79.3	71.0	64.7	64.5	76.0	72.7
Sex							
Male	36.7	51.2	36.9	25.2	33.0	52.3	40.3
Female	40.2	56.6	37.6	27.1	26.7	53.6	41.1
Race							
White alone	37.9	54.5	37.1	26.0	30.0	53.0	39.6
Black alone	45.7	57.9	40.8	29.2	34.4	56.6	46.4
Asian alone	33.2	46.2	32.2	21.6	25.8	49.7	33.5
Other ²	45.9	51.9	42.0	32.8	38.2	57.4	47.4
Hispanic origin							
Hispanic	42.4	49.1	35.4	28.3	35.0	55.0	43.5
Not Hispanic	38.4	55.5	37.4	26.0	30.0	53.2	40.5

¹ “Other” in marital status includes the categories of divorced, separated, and never married.

² “Other” in race includes the categories of American Indian or Alaska Native, Native Hawaiian or Other Pacific Islander, Some Other Race, and Two or More Races. Note: Percentages derived by the number of people aged 65 and over with a disability divided by the total population aged 65 and over in each category. Source: U.S. Census Bureau, American Community Survey, 5-year estimates, 2008–2012.

one-third of older Whites and Blacks with a disability lived alone, whereas just one in seven older Asians lived alone (Figure 4). Older Hispanics with a disability also had a low proportion living alone, about one in five, compared with almost one in three living alone among non-Hispanics. Research has shown that Asians and Hispanics are more likely than Whites, Blacks, or non-Hispanics to live with families and less likely to live alone. In part, this is because a larger share of Asians and Hispanics are immigrants and immigrants are more likely to live with extended families out of economic need or for cultural reasons

(Kritz, Gurak, and Chen, 2000; Zhou, 2006; Van Hook and Glick, 2007).

Among the older population with a disability, Rhode Island and Minnesota had among the highest proportions living alone in a household among the 50 states, with a similar proportion of about 34 percent (Table 2). Older people with a disability living in the District of Columbia had a higher proportion living alone in a household than any state (40.3 percent). On the other end of the spectrum, Hawaii had the lowest proportion living alone among all states (18.6 percent), followed by Nevada (24.9 percent).

Figure 5 shows the percentage of people with a disability and living alone among the county population aged 65 and over. Counties with a low percentage were observed in parts of Arizona, California, Hawaii, Nevada, and Utah in the West, as well as Florida, Maryland, and Virginia in the South.

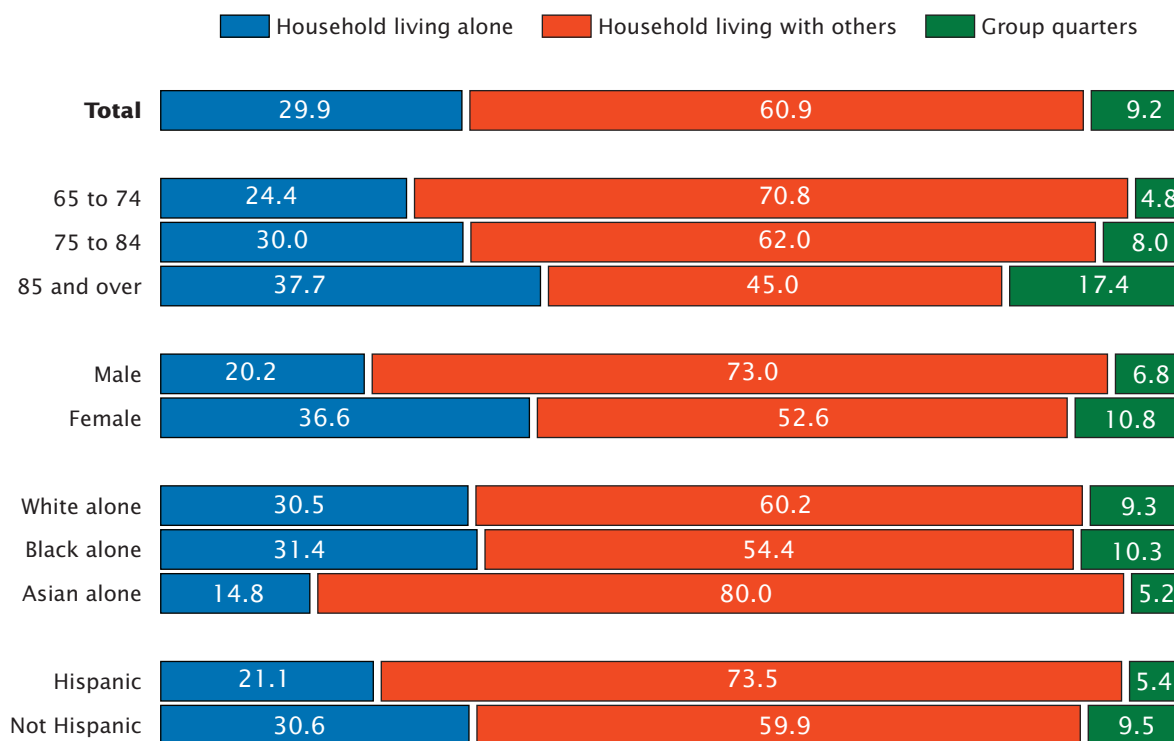
Poverty status

People living in poverty are disadvantaged and challenged socio-economically and may have fewer options than those with financial resources to obtain human or technology assistance for the needs of everyday functioning. In

Figure 4.

Living Arrangements of Population Aged 65 and Over With a Disability by Selected Characteristics: 2008–2012

(Percentage distribution. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see www.census.gov/acs/www)



Source: U.S. Census Bureau, American Community Survey, 5-year estimates, 2008–2012.

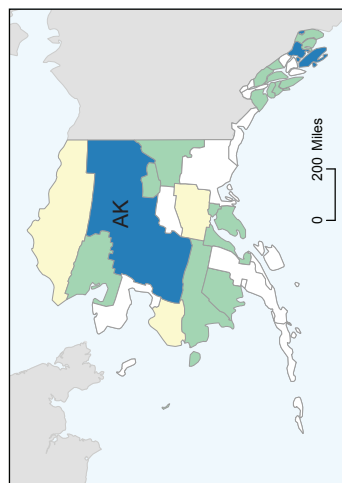
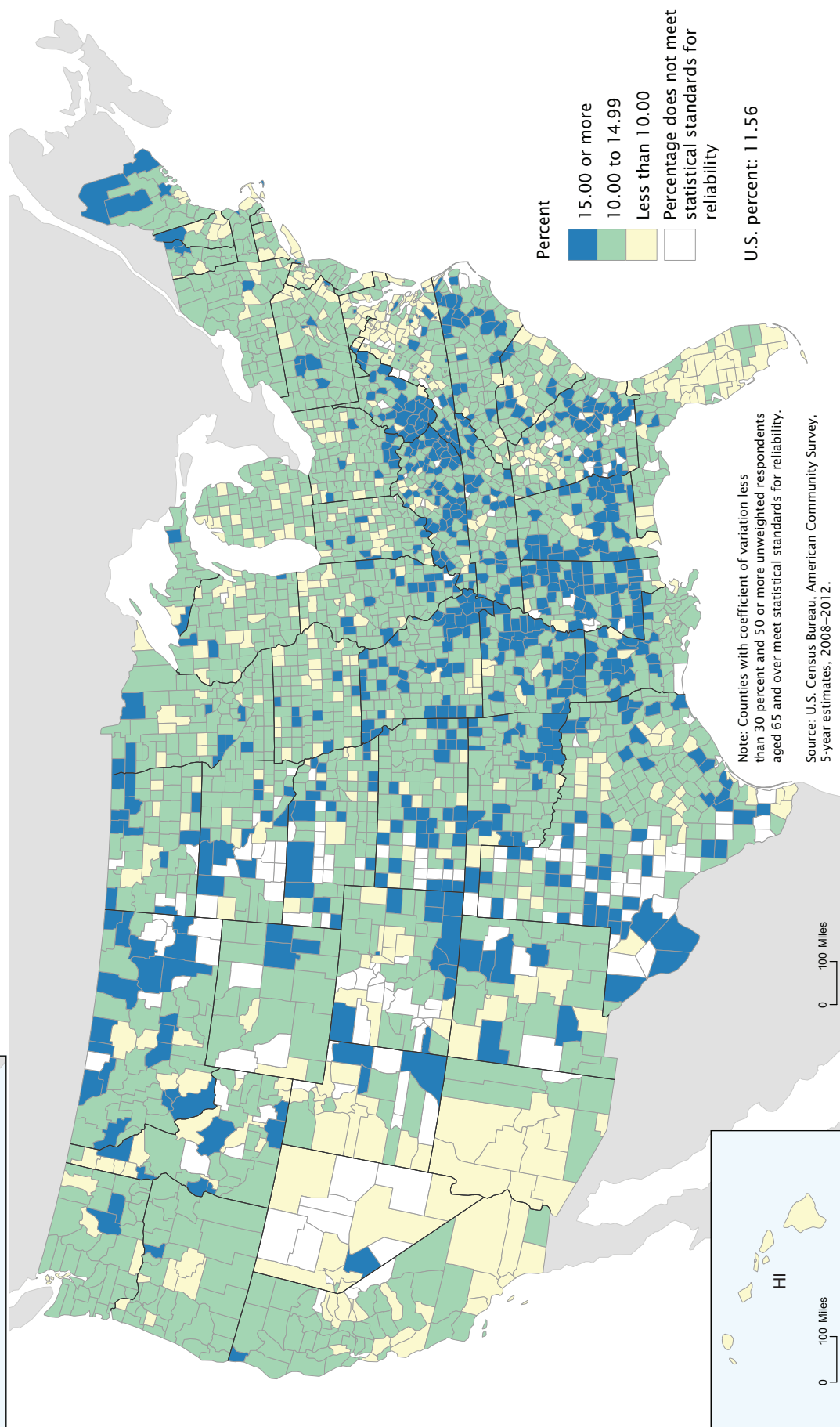


Figure 5.
Percentage With a Disability and Living Alone Among County Population Aged 65 and Over: 2008–2012
 (For information on confidentiality protection, sampling error, nonsampling error, and definitions, see www.census.gov/acs/www)



2008–2012, 12.6 percent of the older household population with a disability were living in poverty (Figure 6); in comparison, 7.2 percent of the older household population without a disability were in poverty.¹¹

¹¹ The poverty status of people living in group quarters such as nursing homes is not available. For information on how the Census Bureau measures poverty, poverty thresholds, people whose poverty status cannot be determined, and how poverty is calculated in the ACS, see <www.census.gov/hhes/www/poverty/methods/definitions.html>.

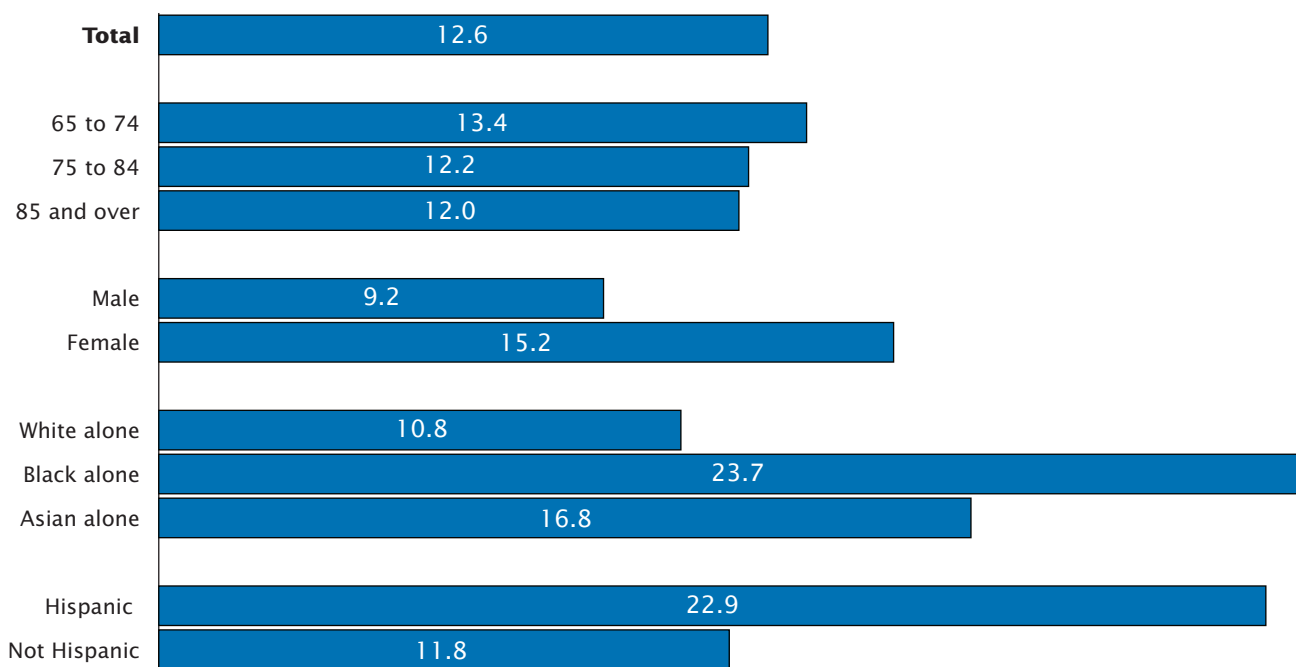
Among older adults with a disability, poverty rates were relatively stable across age groups. The older age groups with a disability had lower proportions in poverty than the youngest age group (12.2 percent for ages 75 to 84, 12.0 percent for ages 85 and older, compared with 13.4 percent for ages 65 to 74). Older women with a disability were more likely than their male counterparts to be in poverty (15.2 percent for women and 9.2 percent for men).

While older Asians and Hispanics are much less likely than Whites to live alone, poverty status by race and Hispanic origin shows that older Asians and Hispanics are more economically disadvantaged than Whites. Among the older population with a disability, Blacks had the highest poverty rate (23.7 percent), followed by Asians (16.8 percent), and then Whites (10.8 percent). At 22.9 percent, older Hispanics with a disability were almost twice as likely as their non-Hispanic counterparts to live in poverty.

Figure 6.

Percentage in Poverty Among Household Population Aged 65 and Over With a Disability, by Selected Characteristics: 2008–2012

(For information on confidentiality protection, sampling error, nonsampling error, and definitions, see www.census.gov/acs/www)



Source: U.S. Census Bureau, American Community Survey, 5-year estimates, 2008–2012.

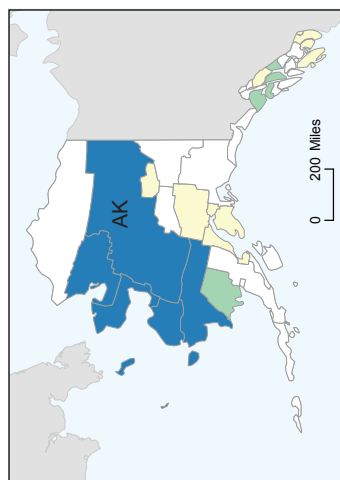


Figure 7.

Percentage With a Disability and Living Below 150 Percent of Poverty Threshold Among County Household Population Aged 65 and Over: 2008–2012

(For information on confidentiality protection, sampling error, nonsampling error, and definitions, see www.census.gov/acs/www)

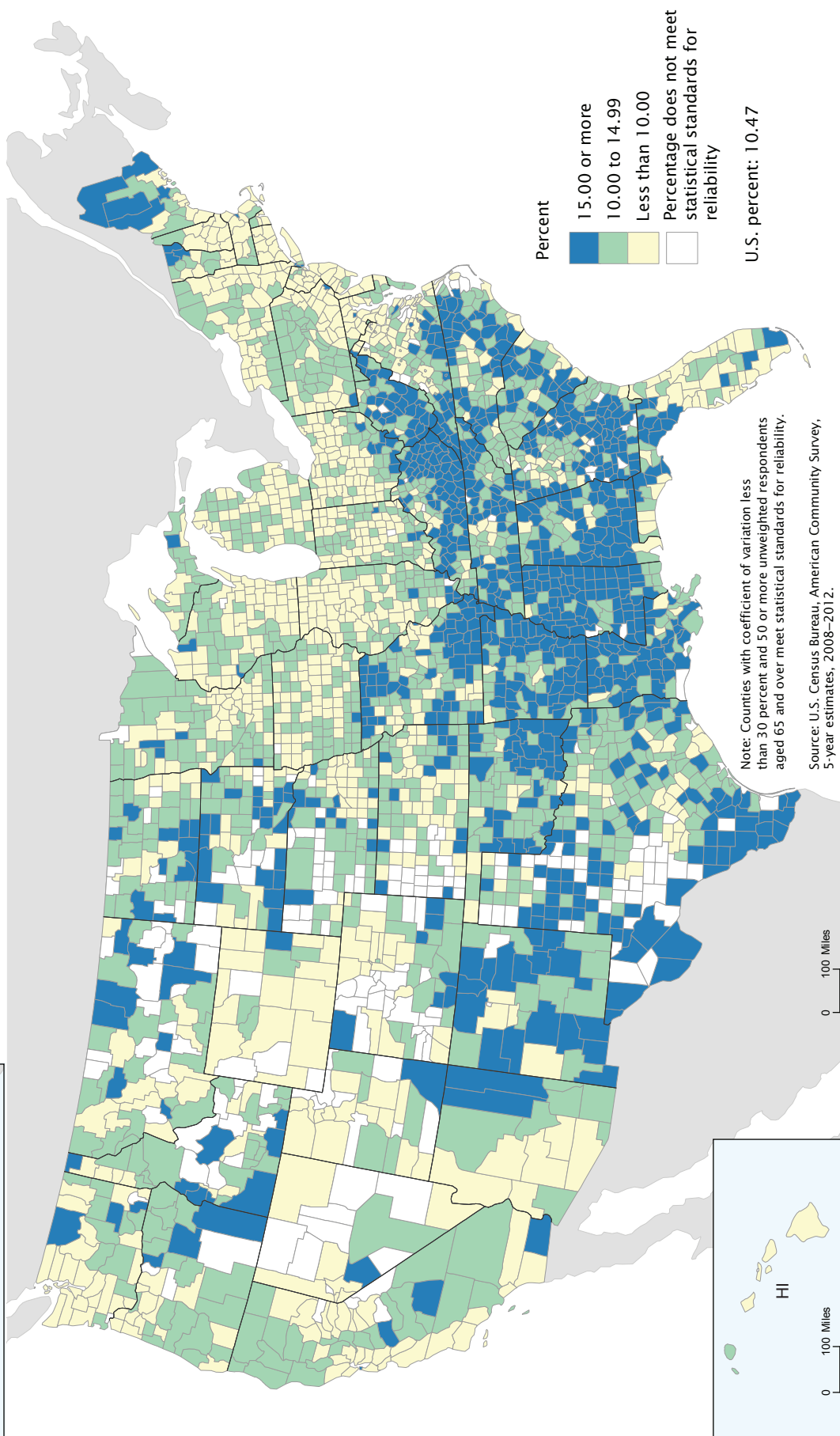


Figure 7 provides the distribution by county for the percentage of the older population with a disability living below 150 percent of poverty among the household population aged 65 and over. It can be observed that some counties with high proportions of older people with a disability and living in or near poverty were concentrated in the coastal plain areas from southern Virginia to the Florida Panhandle, in central and north central Appalachia, along the Texas-Mexico border, in a number of American Indian reservations in Arizona and New Mexico, and in states along the Middle and Lower Mississippi River. Some of these concentrations may reflect local economic conditions. For example, the Appalachian Regional Commission (ARC) has consistently classified some counties in Kentucky, Mississippi, Ohio, Tennessee, and West Virginia as economically distressed from 2002 to 2013 (ARC, 2014).¹²

CONCLUSION

This report provides data on older Americans with disabilities. In 2008–2012, most older people with a disability had more than one type of disability, and they were likely to

be women, aged 85 and over, with less than high school education, widowed, living alone, or living in or near poverty. There were also differences by race and Hispanic origin; older Blacks and Hispanics with a disability had higher rates of poverty, and older Blacks and Whites with a disability had higher rates of living alone. Populous states such as California, Florida, New York, and Texas had the largest number of older people with a disability. Southern counties, especially in central Appalachia or the Mississippi Delta, tended to have higher prevalence rates of disability.

With the improvements in life expectancy, the focus of population aging in the United States has now moved to quality of life for the older population in their late life. Increases in both total life expectancy and disability-free life expectancy have been linked to delays in the onset of disability and increases in the rates of recovery from disability (Crimmins et al., 2009). Disability can be reduced with improved medical treatment, positive behavioral changes, wider use of assistive technologies, rising education levels, and improvements in socioeconomic status (National Institutes of Health, 2010).

With the first Baby Boomers having entered the 65-and-older ranks in

2011, the United States may experience a rapid expansion in the number of older people with a disability in the next 2 decades. The future of disability among older Americans will be affected by how this country prepares for and manages a complex array of demographic, fiscal, medical, technological, and other developments that will unfold in the next several decades (National Research Council, 2007).

The ACS allows comprehensive analyses of the demographic and socioeconomic characteristics of the total U.S. older population with a disability, including both the noninstitutionalized population and those living in nursing homes. The ACS also facilitates analysis on geographic details that few other surveys permit; it enables examinations of the characteristics of this special population at state and county levels. With this ACS report on older population with a disability as a baseline, future studies can use ACS data for trend analysis on subnational levels.

The data provided in this report can help anticipate future disability prevalence in the older population. In addition, the data can help those with a disability, their families, and society at large prepare for daily life tasks and old-age care.

¹² For more information on economically distressed counties in the Appalachian Region, see <www.arc.gov/research/RegionalDataandResearch.asp>.

SOURCE AND ACCURACY

The data presented in this report are based on the ACS sample interviewed from January 2008 through December 2012. The estimates based on this sample describe the average values of person, household, and housing unit characteristics over this period of collection. Sampling error is the uncertainty between an estimate based on a sample and the corresponding value that would be obtained if the estimate were based on the entire population (as from a census). Measures of sampling error are provided in the form of margins of error for key estimates included in this report. All comparative statements in this report have undergone statistical testing and comparisons are significant at the 90 percent level, unless otherwise noted. In addition to sampling error, nonsampling error may be introduced during any of the operations used to collect and process survey data such as editing, reviewing, or keying data from questionnaires. For more information on sampling and estimation methods, confidentiality protection, and sampling and nonsampling errors, please see the ACS Multiyear Accuracy of the Data document located at www.census.gov/acs/www/Downloads/data_documentation/Accuracy/MultiyearACSAccuracyofData2012.pdf.

WHAT IS THE AMERICAN COMMUNITY SURVEY?

The American Community Survey (ACS) is a nationwide survey designed to provide communities with reliable and timely demographic, social, economic, and housing data for congressional districts, counties, places, and other localities every year. It has an annual sample size of about 3.5 million addresses across the United States and includes both housing units and group quarters (e.g., nursing homes and prisons). The ACS is conducted in every county throughout the nation. Single-year, 3-year, and 5-year estimates from the ACS are all “period” estimates that represent data collected within particular intervals of time—12 months, 36 months, and 60 months, respectively. For information on the ACS sample design and other topics, visit www.census.gov/acs/www.

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Appendix Table 1.

Margin of Error for Population Aged 65 and Over With a Disability by Type of Disability, Age, and Sex: 2008–2012

(Numbers in thousands. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see www.census.gov/acs/www)

Type of disability	Total		Age						Sex			
			65 to 74		75 to 84		85 and over		Male		Female	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Vision.....	16	0.1	8	0.1	8	0.1	7	0.1	9	0.1	11	0.1
Hearing.....	16	0.1	9	0.1	9	0.1	9	0.2	9	0.1	11	0.1
Cognitive.....	21	0.1	7	0.1	10	0.2	10	0.2	8	0.1	16	0.1
Ambulatory.....	21	0.1	10	0.1	12	0.1	11	0.1	11	0.1	16	0.1
Self-care.....	17	0.1	7	0.1	9	0.1	10	0.2	7	0.1	13	0.1
Independent living.....	21	0.1	10	0.1	12	0.1	11	0.2	9	0.1	16	0.1

Note: Data are based on a sample and are subject to sampling variability. A margin of error is a measure of an estimate's variability. The larger the margin of error is in relation to the size of the estimate, the less reliable the estimate. When added to and subtracted from the estimate, the margin of error forms the 90 percent confidence interval.

Source: U.S. Census Bureau, American Community Survey, 5-year estimates, 2008–2012.

Appendix Table 2.

Margin of Error for State Population Aged 65 and Over With a Disability by Selected Characteristics: 2008–2012

(Numbers in thousands. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see www.census.gov/acs/www)

Region and state	Total 65 and over	With a disability		Percentage of population with a disability				
		Number	Percentage of total	Number of disabilities		Living arrangement		
				One disability	Two or more disabilities	Household		Group quarters
						Living alone	Living with others	
United States.	4	21	0.1	0.1	0.1	0.3	0.3	Z
Region								
Northeast.	1	8	0.1	0.2	0.2	0.3	0.3	0.1
Midwest.	2	9	0.1	0.2	0.2	0.3	0.4	0.1
South.	3	12	0.1	0.1	0.1	0.3	0.3	Z
West.	1	8	0.1	0.2	0.2	0.3	0.3	0.1
State								
Alabama.	1	2	0.3	0.5	0.5	0.5	0.6	0.2
Alaska.	Z	1	0.9	1.9	1.9	1.8	1.8	1.1
Arizona.	Z	3	0.3	0.7	0.7	0.6	0.6	0.2
Arkansas.	1	2	0.5	0.6	0.6	0.8	0.8	0.3
California.	Z	6	0.1	0.2	0.2	0.3	0.3	0.1
Colorado.	Z	2	0.4	0.7	0.7	0.7	0.8	0.3
Connecticut.	Z	2	0.4	0.7	0.7	0.7	0.7	0.3
Delaware.	Z	1	0.7	1.5	1.5	1.2	1.3	0.5
District of Columbia.	Z	1	1.1	2.2	2.2	2.4	2.3	1.0
Florida.	1	6	0.2	0.4	0.4	0.3	0.4	0.1
Georgia.	1	3	0.3	0.5	0.5	0.6	0.6	0.1
Hawaii.	Z	1	0.7	1.3	1.3	0.9	1.0	0.5
Idaho.	Z	1	0.7	1.1	1.1	1.1	1.2	0.3
Illinois.	1	3	0.2	0.4	0.4	0.5	0.5	0.2
Indiana.	1	3	0.3	0.6	0.6	0.6	0.7	0.2
Iowa.	Z	2	0.4	0.6	0.6	0.7	0.7	0.3
Kansas.	Z	2	0.4	0.6	0.6	0.7	0.7	0.2
Kentucky.	1	2	0.4	0.6	0.6	0.6	0.7	0.2
Louisiana.	1	2	0.4	0.6	0.6	0.6	0.7	0.3
Maine.	Z	1	0.6	0.9	0.9	1.0	1.1	0.4
Maryland.	Z	3	0.4	0.6	0.6	0.7	0.7	0.3
Massachusetts.	Z	3	0.3	0.6	0.6	0.5	0.5	0.2
Michigan.	Z	3	0.2	0.4	0.4	0.5	0.5	0.2
Minnesota.	Z	2	0.3	0.5	0.5	0.5	0.5	0.2
Mississippi.	1	2	0.5	0.7	0.7	0.8	0.8	0.2
Missouri.	1	3	0.4	0.4	0.4	0.6	0.6	0.2
Montana.	Z	1	0.8	1.3	1.3	1.2	1.3	0.5
Nebraska.	Z	1	0.5	0.9	0.9	0.8	0.9	0.3
Nevada.	Z	2	0.5	1.0	1.0	0.8	0.9	0.3
New Hampshire.	Z	1	0.6	1.2	1.2	1.0	1.1	0.4
New Jersey.	Z	4	0.3	0.5	0.5	0.5	0.5	0.2
New Mexico.	Z	2	0.6	1.0	1.0	0.9	1.0	0.3
New York.	1	4	0.2	0.3	0.3	0.3	0.4	0.2
North Carolina.	1	3	0.3	0.5	0.5	0.6	0.5	0.2
North Dakota.	Z	1	0.8	1.3	1.3	1.2	1.3	0.7
Ohio.	1	4	0.2	0.4	0.4	0.5	0.6	0.1
Oklahoma.	Z	2	0.4	0.6	0.6	0.5	0.6	0.2
Oregon.	Z	2	0.5	0.8	0.8	0.6	0.7	0.3
Pennsylvania.	Z	4	0.2	0.3	0.3	0.4	0.5	0.2
Rhode Island.	Z	1	0.6	1.1	1.1	1.3	1.2	0.5

See notes at end of table.

Appendix Table 2.

Margin of Error for State Population Aged 65 and Over With a Disability by Selected Characteristics: 2008–2012—Con.

(Numbers in thousands. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see www.census.gov/acs/www)

Region and state	Total 65 and over	With a disability		Percentage of population with a disability				
		Number	Percentage of total	Number of disabilities		Living arrangement		
				One disability	Two or more disabilities	Household		Group quarters
						Living alone	Living with others	
State—Con.								
South Carolina	Z	3	0.4	0.6	0.6	0.6	0.6	0.2
South Dakota	Z	1	0.7	1.2	1.2	1.2	1.2	0.6
Tennessee	1	3	0.4	0.5	0.5	0.6	0.6	0.2
Texas	1	5	0.2	0.3	0.3	0.4	0.4	0.1
Utah	Z	1	0.5	1.1	1.1	1.0	1.0	0.3
Vermont	Z	1	0.6	1.3	1.3	1.6	1.7	0.7
Virginia	1	3	0.3	0.5	0.5	0.6	0.6	0.2
Washington	Z	2	0.3	0.5	0.5	0.5	0.5	0.3
West Virginia	Z	2	0.6	0.8	0.8	1.0	1.0	0.2
Wisconsin	Z	2	0.3	0.5	0.5	0.6	0.7	0.2
Wyoming	Z	1	1.2	1.7	1.7	1.8	1.8	0.6

Z Rounds to zero.

Note: Data are based on a sample and are subject to sampling variability. A margin of error is a measure of an estimate's variability. The larger the margin of error is in relation to the size of the estimate, the less reliable the estimate. When added to and subtracted from the estimate, the margin of error forms the 90 percent confidence interval.

Source: U.S. Census Bureau, American Community Survey, 5-year estimates, 2008–2012.

Appendix Table 3.

Margin of Error for Percentage of Population Aged 65 and Over With a Disability by Educational Attainment, Marital Status, and Selected Characteristics: 2008–2012

(For information on confidentiality protection, sampling error, nonsampling error, and definitions, see www.census.gov/acs/www)

Age, sex, race, and Hispanic origin	Total	Educational attainment			Marital status		
		Less than high school	High school graduate/ some college	Bachelor's degree or above	Married	Widowed	Other ¹
Total	0.1	0.1	0.1	0.1	0.1	0.2	0.1
Age							
65 to 74	0.1	0.1	0.1	0.1	0.1	0.2	0.2
75 to 84	0.1	0.2	0.1	0.2	0.1	0.2	0.2
85 and over	0.1	0.2	0.2	0.4	0.3	0.2	0.4
Sex							
Male	0.1	0.2	0.1	0.1	0.1	0.2	0.2
Female	0.1	0.2	0.1	0.2	0.1	0.2	0.2
Race							
White alone	0.1	0.1	0.1	0.1	0.1	0.2	0.2
Black alone	0.2	0.3	0.2	0.5	0.3	0.3	0.4
Asian alone	0.3	0.6	0.5	0.4	0.3	0.6	0.8
Other ²	0.3	0.5	0.5	1.0	0.4	0.6	0.6
Hispanic origin							
Hispanic	0.2	0.3	0.4	0.6	0.3	0.4	0.4
Not Hispanic	0.1	0.1	0.1	0.1	0.1	0.2	0.2

¹ "Other" in marital status includes the categories of divorced, separated, and never married.

² "Other" in race includes the categories of American Indian or Alaska Native, Native Hawaiian or Other Pacific Islander, Some Other Race, and Two or More Races.

Note: Data are based on a sample and are subject to sampling variability. A margin of error is a measure of an estimate's variability. The larger the margin of error is in relation to the size of the estimate, the less reliable the estimate. When added to and subtracted from the estimate, the margin of error forms the 90 percent confidence interval.

Source: U.S. Census Bureau, American Community Survey, 5-year estimates, 2008–2012.

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