



**How Economic Security Changes
during Retirement**

**Barbara A. Butrica
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The Retirement Project

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A crosscutting team of Urban Institute experts in Social Security, Medicare, Medicaid, tax and budget policy, and micro-simulation modeling ponder the aging of American society.

The aging of America raises many questions about what's in store for future and current retirees and whether society can sustain current systems that support the retired population. Who will prosper? Who won't? Many good things are happening too, like longer life and better health. Although much of the baby boom generation will be better off than those retiring today, many face uncertain prospects. Especially vulnerable are divorced women, single mothers, never-married men, high school dropouts, and Hispanics. Even Social Security—which tends to equalize the distribution of retirement income by paying low-income people more than they put in and wealthier contributors less—may not make them financially secure.

Uncertainty about whether workers today are saving enough for retirement further complicates the outlook. New trends in employment, employer-sponsored pensions, and health insurance influence retirement decisions and financial security at older ages. And, the sheer number of reform proposals, such as personal retirement accounts to augment traditional Social Security or changes in the Medicare eligibility age, makes solid analyses imperative.

Urban Institute researchers assess how current retirement policies, demographic trends, and private sector practices influence older Americans' security and decision-making. Numerous studies and reports provide objective, nonpartisan guidance for policymakers.

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Abstract

Most studies of retirement well-being have focused on outcomes for relatively young retirees. Few studies have considered how retirement security changes as older Americans age. Following older adults from age 67 (when most have stopped working) to age 80, this study uses projections of wealth and income to assess how their economic security changes during retirement. Results indicate that typical older adults experience a decline in retirement wealth and income between ages 67 and 80. More than two-fifths of retirees will have significantly less income at age 80 than they did at age 67, with the median decline in income being \$16,000 for current retirees and \$23,000 for boomers. Some older adults, however, will be better off later in retirement. Approximately two-fifths of retirees will have significantly more income at age 80 than they did at age 67, with the median increase in income being \$14,000 for current retirees and \$17,000 for boomers. At least some of the change in economic well-being during retirement is related to changes in marital status, health status, living arrangements, and work status.

Executive Summary

A number of studies have analyzed the economic security of retirees at various ages. Fewer studies have followed older adults throughout their retirement to see how their economic resources change as they grow older. Although the wealth accumulated at retirement may be sufficient to maintain living standards initially, it may not be enough to support consumption throughout retirement. Life-changing events during retirement, such as the onset of poor health or the death of a spouse, can cause unexpected shocks to wealth and income. In addition, private pension income can erode over time with inflation, because most plans (unlike Social Security) do not peg benefits to changes in the cost of living. As workers plan for retirement and policymakers debate Social Security, health insurance, and long-term care insurance, it is important to recognize the factors associated with changes in economic security during retirement and their potential impact on retirees' economic well-being.

This study uses projections of the major sources of retirement wealth and income from the Social Security Administration's Model of Income in the Near Term (MINT) to analyze how economic security is expected to change for current and future retirees between age 67 (when most have stopped working) and age 80. The analysis examines how the level and composition of their wealth and income change during this time period. It also identifies older adults whose economic situations have improved and those whose situations have worsened using a number of different thresholds for what is considered sufficient for living a comfortable retirement. The study concludes by measuring the extent to which changes in retirement well-being between ages 67 and 80 relate to key life-changing events.

Main findings include the following:

- Typical older adults experience a decline in retirement wealth and income between ages 67 and 80. Counting only financial wealth, housing wealth, and retirement accounts, family wealth is projected to decline by 6–8 percent and family income is projected to decline by 8–12 percent over this period. As a result, median replacement rates are projected to decline and the share of older adults with incomes less than 45 percent of the national average wage is projected to increase.
- Between 42 and 44 percent of retirees will have significantly less income at age 80 than they did at age 67, with the median decrease in income being \$16,000 for current retirees and \$23,000 for boomers. Older adults who are married or working at 67 are most likely to experience declines in income between ages 67 and 80. In contrast, retirees in the lowest income quintile at age 67 are least likely to be worse off 13 years later.
- Some older adults, however, will be better off later in retirement. Between 41 and 43 percent of retirees will have significantly more income at age 80 than they did at age 67, with the median increase in income being \$14,000 for current retirees and

\$17,000 for boomers. Older adults who are male or not working at age 67 are most likely to experience increases in income between ages 67 and 80.

- At least some of the change in economic well-being during retirement is related to changes in marital status, health status, living arrangements, and work status. For example, the median income of current retirees is projected to decline from \$52,000 to \$33,000 for married adults who become widowed or divorced. In contrast, the median income of current retirees is projected to increase from \$30,000 to \$49,000 for single adults (a small share of the population) who marry.

Finally, boomer retirees are projected to have higher wealth and income than current retirees at both ages 67 and 80. Although the magnitude of change in resources between ages 67 and 80 is generally larger for boomers than for current retirees, many of the observed relationships are similar across cohorts.

I. Introduction

As workers retire at increasingly younger ages and life expectancies continue to rise, older Americans are spending more time in retirement than ever before. For this reason, much attention has been placed on the importance of saving for retirement. In many cases, however, the context for evaluating retirement preparedness is at retirement—a point in time—rather than throughout retirement—which may be years or even decades. That is, most studies of retirement well-being have focused on outcomes at relatively young ages (Butrica, Iams, and Smith 2003; Butrica and Uccello 2004; Moore and Mitchell 2000; Gustman and Steinmeier 1999). Few studies have considered how economic security changes as retirees grow older. Although the wealth accumulated at retirement may be sufficient to maintain living standards initially, it may not be enough to support consumption throughout retirement. Life-changing events during retirement, such as the onset of poor health or the death of a spouse, can cause unexpected shocks to wealth and income. In addition, private pension income can erode over time with inflation, because most plans (unlike Social Security) do not peg benefits to changes in the cost of living.

This study examines how economic security is expected to change for current and future retirees as they grow older. The analysis uses the Social Security Administration’s Model of Income in the Near Term (MINT) to follow older adults from age 67 (when most have stopped working) to age 80. It considers how the level and composition of their wealth and income change during this time period. It also identifies older adults whose economic situations have improved and those whose situations have worsened using a number of different thresholds for what is considered sufficient for living a comfortable retirement. The study concludes by measuring the extent to which changes in retirement well-being between ages 67 and 80 relate to key life-changing events.

The results show that typical older adults experience a decline in retirement wealth and income between ages 67 and 80. As a result, their standard of living in retirement—as measured by income replacement rates—is projected to fall. Also, the proportion with retirement incomes less than 45 percent of the national average wage (the definition of low-wage workers used by Social Security actuaries) is projected to increase. More than two-fifths of retirees will have significantly less income at age 80 than they did at age 67. However, another two-fifths of retirees will receive significantly more income at age 80 than at age 67. At least some of the change in economic well-being during retirement is related to changes in marital status, health status, living arrangements, and work status.

II. Previous Literature

A number of studies have analyzed the economic security of retirees. Many of them suggest that most current retirees are doing well (Gustman and Steinmeier 1999; Haveman et al. 2003) and future retirees are likely to receive at least as much income as previous generations (Butrica and Uccello 2004; Butrica, Iams, and Smith 2003; Smith 2002). These studies have generally focused on outcomes at relatively young retirement ages.

Perhaps due to data limitations, relatively fewer studies have followed older adults throughout their retirement to see how their economic resources change as they grow older. One study by Haveman, Holden, Wolfe, and Romanov (2004), uses the Social Security Administration's New Beneficiary Data System to examine changes in the adequacy of retirement savings during the first 10 years of retirement. The authors generally find that retirees have adequate resources both at the time they first began collecting Social Security benefits and 10 years later. However, their conclusions are based on a sample of adults born between 1910 and 1920 who retired in 1982. Given important ongoing changes in the demographics, educational attainment, and economic resources of older adults, as well as rapid increases in the labor supply of married women, these findings may not generalize to current and future generations of retired Americans.

A more recent study by Coile and Milligan (2006) uses the Health and Retirement Study (HRS) to examine how asset holdings change after retirement. The authors find that health shocks and widowhood play a large role in explaining why the share of wealth in housing declines and the share of wealth in bank accounts and Certificates of Deposit increase as retirees age. While the results of this study shed light on how older households make their portfolio decisions and reallocate their assets during retirement, they say less about how economic security changes during retirement.

Also using the HRS, a study by Johnson, Mermin, and Uccello (2006) finds that 87 percent of adults ages 51–61 and 75 percent of adults age 70 and older experience or have a spouse that experiences at least one negative event over about 10 years. Even after controlling for demographic characteristics and baseline health conditions, the authors find that adults ages 51–61 who developed work disabilities or were laid off and adults age 70 or older who entered a nursing home or became divorced experienced significant declines in wealth over the period. The focus of their study is on shocks experienced during retirement and how they impact household wealth. For that reason, the authors did not consider how the importance of various wealth and income sources changes over time, nor did they examine how the adequacy of retirement resources changes over time.

This study builds on previous research in a number of ways. First, it analyzes economic security throughout retirement, rather than just at the start of retirement. Second, it presents results for more recent retirees and future retirees. Third, it uses a comprehensive measure of retirement resources to capture total family wealth and income, to examine how each component's share of income changes over time, and to assess the adequacy of retirement resources.

III. Methodology

The analysis is based on projections of the major sources of retirement wealth and income from the Social Security Administration's Model of Income in the Near Term (MINT). MINT starts with data from the U.S. Census Bureau's Survey of Income and Program Participation (SIPP) matched to the Social Security Administration's administrative records on earnings, benefits, and mortality. MINT then projects each individual's marital status changes, mortality, entry to and exit from Social Security disability insurance (DI) rolls, and age of first

receipt of Social Security retirement benefits. It also projects sources of family wealth and income.¹ (For more information see Smith, Cashin, and Favreault 2005).

This study assesses the long-term economic prospects of retirees by comparing their retirement resources and well-being at age 67, when most have stopped working, with their outcomes at age 80. It uses several measures to assess retirement security, including retirement wealth, income, replacement rates, and poverty rates. The measure of family wealth includes financial assets and housing equity, as well as Social Security and private pensions. Social Security and pension wealth are computed as the present discounted value (PDV) of the future stream of Social Security and pension benefits from ages 67 or 80 until the projected age of death. The computations assume a real interest rate of 2 percent. Measuring household wealth broadly to include pension wealth and Social Security wealth is particularly important for retirees.

In addition to the income that could be generated from wealth at retirement, the analysis includes other income resources at ages 67 and 80 such as earnings, Supplemental Security Income (SSI), and income from co-resident family members. These sources of retirement income are likely to be especially important to retirees. Thus the measure of family income includes income from assets, imputed rental income, Social Security benefits, pension income, earnings, SSI, and co-resident income.²

This study evaluates the adequacy of retirement resources using a number of different benchmarks. First, it analyzes income replacement rates to compare the standard of living obtainable in retirement to the level achieved during the working years. Replacement rates are the ratio of per capita family income at ages 67 or 80 to average shared earnings between ages 22 and 62, where shared earnings is half the total earnings of the couple in the years when the individual is married and his or her own earnings in years when not married. Replacement rates do not account for imputed rent and co-resident income since these income flows, unlike Social Security and pensions (for example), are not derived from pre-retirement earnings.

¹ The projections in this study are based on MINTEX, which includes a number of improvements over previous versions of MINT. First, MINTEX extends the MINT data file to capture additional birth cohorts and their retirement prospects. MINT was originally designed to project the distribution of retirement income in 2020 and therefore included only individuals born between 1926 and 1965. MINTEX projects retirement income out to 2099 and includes individuals born between 1926 and 2017. Second, MINTEX adjusts the baseline wealth in the MINT data file to more closely match wealth in the Survey of Consumer Finances (SCF)—commonly regarded as one of the best sources of wealth data. Third, MINTEX updates the MINT macroeconomic assumptions. MINT uses the Social Security Administration’s Office of the Chief Actuary (OACT) projections from the intermediate cost scenario in the 2002 OASDI Trustees Report of disability prevalence, mortality through age 65, the growth of average economy-wide wages, and the consumer price index (CPI). MINTEX uses economic assumptions from the 2004 OASDI Trustees Report. MINTEX also includes updates to the defined contribution thresholds.

² Imputed rental income is 3.0 percent of the difference between the house value and the remaining mortgage principal. There is debate over whether to include housing in income measures and replacement rates. Proponents argue that homeowners with identical financial resources as renters are better off because they do not have to pay additional income for housing. Critics argue that only actual income flows should be included. Although imputed rent is included in the income measure used to describe the overall levels and composition of family income, it is not included in the income measure used to determine replacement rates and poverty rates.

Financial planners often recommend that retirees have enough income to replace 70 to 80 percent of their pre-retirement earnings. For this reason, this study also considers the share of retirees whose replacement rates are less than 75 and 50 percent. Based on the financial planning literature, a 50 percent replacement rate represents a serious shortfall that could create economic challenges and necessitate lifestyle adjustments.

Second, this study examines poverty rates to assess whether retirees' incomes will be high enough to support a basic standard of living. It calculates poverty rates using the official poverty thresholds of the U.S. Census Bureau. These thresholds vary with family size and age and increase annually with increases in prices as measured by the Consumer Price Index (CPI). The analysis uses the 65-and-over poverty threshold, which assumes that married couples need about 1.26 times the income that single adults need to live equally well. Like the U.S. Census Bureau, it does not include imputed rent in the income measure used to determine poverty rates.

Poverty is an absolute concept because individuals are considered poor if they have family incomes below an absolute minimum level—the official poverty threshold. Alternatively, one might think it important to preserve the relative economic position of individuals. To this end, this study also examines the share of retirees with per capita income less than 45 percent of the national average wage—the definition of low-wage earners used by the Social Security Administration's Office of the Chief Actuary (OCACT).

Finally, this study calculates the share of retirees whose retirement resources increase and decrease as they age. Those who are “better off” experience an increase in wealth, income, or replacement rates of more than 5 percent between ages 67 and 80. In contrast, retirees are “worse off” if their wealth, income, or replacement rates decline by more than 5 percent over the same period. Focusing on income, this study then compares the characteristics and income changes of retirees who are better and worse off.

For each measure of interest, most of the tables report the mean value between the 40th and 60th percentiles of the distribution. This statistic approximates the median, and better describes outcomes for typical people than the mean because it is less sensitive to extreme values. It is also a better statistic than the median, because the median value gives the breakdown for a single observation, which may not be representative of people in the center of the distribution. By using 20 percent of the sample, this statistic better describes the composition of wealth and income for typical cases. Unless otherwise noted, this statistic is referred to as the median throughout the paper.

The analytic sample includes noninstitutionalized adults who survive until at least age 80. This study compares differences in economic resources by personal characteristics, including gender, marital status, race/ethnicity, education, health status, living arrangements, housing tenure, work status, labor force experience, and income level. It also measures the extent to which changes in retirement well-being between ages 67 and 80 relate to changes in marital status, health status, living arrangements, and work status. Results are reported at the individual level, separately for current retirees and boomers. Current retirees include those born between 1926 and 1939 and boomers include those born between 1945 and 1965. All wealth and income projections are expressed in 2005 dollars.

IV. Results

First the paper describes how the characteristics of retirees are expected to change as they age. Next it examines the level and composition of family resources, namely retirement wealth and income, by personal and economic characteristics. Then it assesses the adequacy of retirement income by analyzing replacement rates, poverty rates, and the share of retirees with income below 45 percent of the national average wage. It then considers the characteristics of retirees whose situations are projected to be better off or worse off at age 80 compared with their circumstances at age 67. Finally, it considers how changes in retirement resources and the adequacy of these resources relate to changes in marital status, health, living arrangements, and work status.

Characteristics of Older Adults at Ages 67 and 80

At baseline, age 67, the characteristics of retirees are projected to differ across birth cohorts in ways that are well documented (Butrica, Iams, and Smith 2003; Butrica and Uccello 2004). Boomer retirees are significantly less likely than current retirees to be non-Hispanic white and high-school dropouts, and significantly more likely to have college degrees and many years of work experience (table 1).

Thirteen years later, at age 80, both current and boomer retirees are significantly less likely to be married, in good health, or working (table 2). However, boomers are slightly less likely than current retirees to be married or working and slightly more likely to be healthy. Between 65 and 70 percent of retirees in both cohorts are projected to be married at age 67, but just over 50 percent will be married at age 80. Due to age, most of these marriages will likely end in widowhood. For most retirees, health also declines with age. MINT projects that between 70 and 73 percent of retirees in both cohorts will be healthy at age 67, but that only 56–60 percent will be healthy at age 80. As retirees become widows and widowers, one might expect them to start living with adult children or friends. However, MINT projects that the proportion of retirees living alone (with only a spouse if married) will remain relatively constant between ages 67 and 80. Finally, about half of retirees (or their spouses) are likely to be working at age 67. As expected, the share still working at age 80 is expected to decline substantially to only 7–11 percent.

Changes in Family Resources as Retirees Age

Family Wealth

As documented by Butrica and Uccello (2004), boomers are expected to start their retirement with considerably more wealth than current retirees (table 3). Between ages 67 and 80, family wealth is projected to decline by more than one-third for both cohorts of retirees—from \$672,000 to \$430,000 for current retirees, and from \$898,000 to \$591,000 for boomers.

Table 1. Characteristics of Older Adults at Age 67

	Age 67	
	Current Retirees	Boomers
All	100 %	100 %
Gender		
Female	62	62
Male	38	38
Marital Status		
Married	70	65
Single	30	35
Race/Ethnicity		
Non-Hispanic white	83	76
Non-Hispanic black	8	9
Hispanic	6	9
Asian & Native American	3	6
Education		
High school dropout	21	9
High school graduate	59	60
College graduate	20	31
Health Status		
Healthy	70	73
Unhealthy	30	27
Living Arrangements		
Alone	84	86
Shared	16	14
Housing Tenure		
Rent	18	13
Own	82	87
Work Status		
Not Working	53	51
Working	47	50
Labor Force Experience		
Less than 20 years	30	14
20 to 29 years	21	14
30 or more year	49	72

Notes: Current retirees are born between 1926-39. Boomers are born between 1946-65.

Source: Authors' tabulations of MINT (see text for details).

Table 2. Characteristics of Older Adults at Ages 67 and 80

	Current Retirees		Boomers	
	Age 67	Age 80	Age 67	Age 80
All	100%	100%	100%	100%
Marital Status				
Married	70	55	65	51
Single	30	45	35	49
Health Status				
Healthy	70	56	73	60
Unhealthy	30	44	27	40
Living Arrangements				
Alone	84	86	86	87
Shared	16	14	14	13
Work Status				
Not Working	53	89	51	93
Working	47	11	50	7

Notes: Current retirees are born between 1926-39. Boomers are born between 1946-65.

Source: Authors' tabulations of MINT (see text for details).

**Table 3. Median Family Wealth of Older Adults at Ages 67 and 80
(in thousands, \$2005)**

Age 67 Status	Current Retirees		Boomers	
	Age 67	Age 80	Age 67	Age 80
All	\$672	\$430	\$898	\$591
Gender				
Female	625	411	852	570
Male	745	465	976	629
Marital Status				
Married	815	517	1,109	717
Single	416	277	602	426
Race/Ethnicity				
Non-Hispanic white	741	486	1,026	698
Non-Hispanic black	360	184	542	300
Hispanic	351	193	536	316
Asian & Native American	426	266	670	452
Education				
High school dropout	366	202	359	192
High school graduate	684	441	782	500
College graduate	1,143	808	1,565	1,137
Health Status				
Healthy	727	473	971	649
Unhealthy	552	337	714	453
Living Arrangements				
Alone	710	459	945	625
Shared	483	296	631	407
Housing Tenure				
Rent	280	146	338	209
Own	767	499	1,009	667
Work Status				
Not Working	587	415	772	582
Working	770	553	1,019	717
Labor Force Experience				
Less than 20 years	524	340	383	242
20 to 29 years	651	430	699	456
30 or more year	758	483	1,032	690
Income Quintile				
1st Quintile	254	143	343	202
2nd Quintile	501	308	675	421
3rd Quintile	730	459	962	607
4th Quintile	990	644	1,361	916
5th Quintile	1,748	1,320	3,012	2,373

Notes: Current retirees are born between 1926-39. Boomers are born between 1946-65. Marital status, health status, living arrangements, housing tenure, work status, and income quintile are as of age 67. The median value is measured as the mean value between the 40th and 60th percentiles of the distribution.

Source: Authors' tabulations of MINT (see text for details).

Declines are largest for the most economically vulnerable populations, namely non-Hispanic blacks, high-school dropouts, renters, and those with the lowest incomes. For example, the family wealth of non-Hispanic blacks is projected to decline over time by 49 percent for current retirees and by 45 percent for boomer retirees. Additionally, those in the lowest income quintile are expected to experience a decline in wealth of 44 percent among current retirees and 41 percent among boomers. In contrast, the wealth of those in the highest income quintile is projected to decline over time by only 24 percent for current retirees and 21 percent for boomers. In general, boomer retirees are projected to experience smaller percentage declines in family wealth between ages 67 and 80 than current retirees.

The decline in wealth is driven in large part by the decline in Social Security and DB pension wealth, which are computed based on life expectancies at ages 67 or 80 (table 4). Average life expectancy is 17 years at age 67, but only 9 years at age 80 (Arias 2006). Since Social Security and DB benefits are paid out fewer years at age 80 than at age 67, Social Security and DB pension wealth are lower at age 80 than at age 67. For example, Social Security wealth of the typical current retiree is \$315,000 at age 67, but only \$159,000 at age 80. Similarly, DB pension wealth of the typical current retiree is \$121,000 at age 67, but only \$49,000 at age 80. Unlike Social Security wealth, DB pension wealth may also decline as people age because most private pension plans do not peg benefits to changes in the cost of living.

Even excluding Social Security and DB pension wealth, family wealth is projected to decline between ages 67 and 80, though much less dramatically—only 6–8 percent for the typical retiree. Current retirees are projected to consume their wealth (excluding Social Security and DB pensions) at an average of \$1,000 per year between ages 67 and 80. Boomer retirees, in contrast, are projected to spend their wealth nearly twice as fast—averaging \$1,900 per year. This decline in wealth largely reflects declines in financial wealth and retirement accounts, and may result for a number of reasons. For example, Johnson, Mermin, and Uccello (2006) found that median household-size-adjusted wealth declined over time for adults ages 70 and older who experienced the onset of a severe disability or whose spouses experienced a major medical condition.

Family Income

Given their projections of higher wealth at age 67, it is not surprising to find in table 5 that the typical boomer is also projected to have higher income at age 67 (\$66,000) than the typical current retiree (\$50,000). Family income is projected to decline between ages 67 and 80 by 8 percent for current retirees and 12 percent for boomers. Despite a larger percentage drop in income over time, however, boomers are expected to have higher incomes at age 80 (\$58,000) than current retirees (\$46,000).

Retirees who were married, co-residing, or working at age 67 are expected to experience the largest percentage decreases in family income between ages 67 and 80. Family income is projected to decline by 13–15 percent for female retirees, but by only 4–7 percent for male retirees. Also interesting is that family income is projected to increase slightly at older ages for

Table 4. Family Wealth of Older Adults at Ages 67 and 80

	Current Retirees		Boomers	
	Age 67	Age 80	Age 67	Age 80
A. Percent with Wealth				
Total Wealth	99 %	99 %	99 %	99 %
Non-Retirement Wealth	95	95	98	98
Financial Wealth	90	90	94	94
Housing Wealth	82	82	87	87
Retirement Wealth	98	98	98	98
Social Security	97	97	97	97
DB Pensions	59	55	49	46
Retirement Accounts	49	49	59	59
B. Median Family Wealth (in thousands, \$2005)				
Total Wealth	\$672	\$430	\$898	\$591
Non-Retirement Wealth	207	196	262	245
Financial Wealth	110	98	154	138
Housing Wealth	98	98	108	106
Retirement Wealth	464	234	636	347
Social Security	315	159	470	243
DB Pensions	121	49	96	41
Retirement Accounts	28	26	71	62
C. Share of Family Wealth				
Total Wealth	100 %	100 %	100 %	100 %
Non-Retirement Wealth	31	46	29	41
Financial Wealth	16	23	17	23
Housing Wealth	15	23	12	18
Retirement Wealth	69	54	71	59
Social Security	47	37	52	41
DB Pensions	18	11	11	7
Retirement Accounts	4	6	8	10

Notes: Current retirees are born between 1926-39. Boomers are born between 1946-65. The median value is measured as the mean value between the 40th and 60th percentiles of the distribution.

Source: Authors' tabulations of MINT (see text for details).

**Table 5. Median Family Income of Older Adults at Ages 67 and 80
(in thousands, \$2005)**

Age 67 Status	Current Retirees		Boomers	
	Age 67	Age 80	Age 67	Age 80
All	\$50	\$46	\$66	\$58
Gender				
Female	46	40	60	51
Male	57	55	75	70
Marital Status				
Married	59	54	80	69
Single	30	29	41	39
Race/Ethnicity				
Non-Hispanic white	53	50	71	64
Non-Hispanic black	31	25	42	35
Hispanic	35	29	50	40
Asian & Native American	47	41	70	63
Education				
High school dropout	31	28	33	29
High school graduate	50	45	58	50
College graduate	79	75	106	95
Health Status				
Healthy	54	50	70	62
Unhealthy	43	39	55	48
Living Arrangements				
Alone	47	45	62	56
Shared	63	56	85	70
Housing Tenure				
Rent	26	23	29	28
Own	56	52	72	64
Work Status				
Not Working	38	39	46	49
Working	64	53	85	67
Labor Force Experience				
Less than 20 years	40	35	37	32
20 to 29 years	49	44	53	45
30 or more year	56	52	73	65
Income Quintile				
1st Quintile	16	17	19	21
2nd Quintile	32	31	41	39
3rd Quintile	50	49	65	59
4th Quintile	72	68	100	89
5th Quintile	125	123	198	194

Notes: Current retirees are born between 1926-39. Boomers are born between 1946-65. Marital status, health status, living arrangements, housing tenure, work status, and income quintile are as of age 67. The median value is measured as the mean value between the 40th and 60th percentiles of the distribution.

Source: Authors' tabulations of MINT (see text for details).

low-income retirees in both cohorts. In general, boomer retirees are projected to experience larger percentage declines in family income between ages 67 and 80 than current retirees.

Except for earnings, the sources of retirement income are similar at ages 67 and 80 (table 6). As people age, they are less likely to work. As a result, 47 percent of current retirees have earnings at age 67 (their own or their spouses'), but only 11 percent have earnings at age 80. Boomer retirees are slightly more likely than current retirees to have earnings at age 67, and slightly less likely to have earnings at age 80. Between ages 67 and 80, family earnings decline by \$6,000 for current retirees and \$11,000 for boomer retirees. In fact, the drop in family income between ages 67 and 80 is driven largely by the decline in earnings as people leave the labor force.

Although financial wealth and retirement account balances are projected to decline as people age (table 4), the income generated from this wealth is projected to increase slightly. This is because the decline in wealth is not large enough to offset the impact of shorter life spans at age 80 than at age 67, which will increase annuity payments for similar wealth balances. For example, a current retiree with \$110,000 in financial wealth at age 67 could expect to receive an annuity of about \$6,500 per year ($\$110,000/17$). For their annuity payment to be lower at age 80, when their life expectancy is only 9 years, their financial wealth would have to be less than \$59,000 ($\$6,500 \times 9$). In actuality, MINT projects that the typical current retiree will have \$98,000 in financial wealth—not \$59,000.

Earnings account for 14–18 percent of total family income for 67 year-old retirees. Due to the large number of workers exiting the labor force, earnings represent only 2 percent of family income for all 80 year-old retirees—both current retirees and boomers. As retirees age, earnings decrease in importance, while Social Security increases in importance. At age 67, Social Security benefits represent about 34 percent of total family income for all retirees. At age 80, Social Security benefits account for 39–43 percent of total family income for current and boomer retirees.

Low-income retirees are likely to rely heavily on Social Security benefits to finance their retirement. Because Social Security benefits are inflation-projected, they do not decline over time. As a result, low-income retirees are more likely than other retirees to see their incomes remain constant or slightly increase as they age, unless they experience a life-changing event.

How Does the Adequacy of Family Resources Change as Retirees Age?

Replacement Rates

Replacement rates are the ratio of per capita income (excluding imputed rent and co-resident income) at ages 67 or 80 to average shared earnings between ages 22 and 62. As Butrica, Iams, and Smith (2003) and Butrica and Uccello (2004) have already documented, despite having higher retirement incomes, boomers are less likely than current retirees to be able to maintain their pre-retirement living standards. That is, boomers are projected to have lower replacement rates than current retirees. At age 67, the typical current retiree is projected to have enough retirement income to replace 105 percent of his pre-retirement earnings. In contrast, the

Table 6. Family Income of Older Adults at Ages 67 and 80

	Current Retirees		Boomers	
	Age 67	Age 80	Age 67	Age 80
A. Percent with Income				
Total Income	100 %	100 %	100 %	100 %
Non-Retirement Income	98	97	99	99
Financial Income	90	90	94	94
Earnings	47	11	50	7
SSI Benefits	4	4	2	2
Imputed Rental Income	82	82	87	87
Co-resident Income	16	14	13	12
Retirement Income	96	98	97	98
Social Security Benefits	92	97	94	97
DB Pension Benefits	54	56	43	48
Retirement Accounts	49	49	59	59
B. Median Family Income (in thousands,\$2005)				
Total Income	\$50	\$46	\$66	\$58
Non-Retirement Income	22	17	32	21
Financial Income	8	11	10	13
Earnings	7	1	12	1
SSI Benefits	0	0	0	0
Imputed Rental Income	3	3	4	4
Co-resident Income	4	2	6	4
Retirement Income	28	29	34	37
Social Security Benefits	17	18	23	25
DB Pension Benefits	9	8	6	6
Retirement Accounts	2	3	5	6
C. Share of Family Income				
Total Income	100 %	100 %	100 %	100 %
Non-Retirement Income	44	37	48	36
Financial Income	16	24	15	22
Earnings	14	2	18	2
SSI Benefits	0	0	0	0
Imputed Rental Income	6	7	6	7
Co-resident Income	8	4	9	7
Retirement Income	56	63	52	64
Social Security Benefits	34	39	35	43
DB Pension Benefits	18	17	9	10
Retirement Accounts	4	7	8	10

Notes: Current retirees are born between 1926-39. Boomers are born between 1946-65. The median value is measured as the mean value between the 40th and 60th percentiles of the distribution.

Source: Authors' tabulations of MINT (see text for details).

typical boomer is projected to have enough retirement income to replace only 93 percent of his pre-retirement earnings.

Since the incomes of typical retirees are projected to decline as they age (table 5), it follows that their replacement rates are also projected to decline (table 7).³ Current retirees are expected to experience declines in replacement rates from 105 percent at age 67 to 90 percent at age 80. In contrast, boomer retirees are expected to experience declines in replacement rates from 93 percent at age 67 to 79 percent at age 80. As a result, the share with replacement rates below 75 percent is expected to increase from 29 to 40 percent for current retirees and from 35 to 47 percent for boomer retirees (table 8).

Poverty

Except for high school dropouts and older adults with little work experience, boomers are projected to have slightly lower poverty rates than current retirees (table 9). However, MINT projects very little change in poverty between ages 67 and 80. Overall poverty rates are projected to remain steady at 5 percent for current retirees and 3 percent for boomers. Current retirees who are single, renters, and in the lowest income quintile at age 67 will experience declines in poverty rates ranging from 3 to 6 percentage points. Boomers in the lowest income quintile at age 67 will experience about a 3 percentage point decrease in poverty rates. Older adults in both cohorts who are in shared living arrangements at age 67 are projected to have a 3 percentage point increase in poverty rates between ages 67 and 80.

The analysis also computes the projected share of retirees with incomes less than twice the federal poverty level (table 10). These are individuals who are at risk of not being able to meet their consumption needs. Doubling the consumption need threshold from one to two times the federal poverty level would quadruple the share of retirees who could not meet their consumption needs. MINT projects very little change between ages 67 and 80 overall; however, there is quite a bit of variation by subgroup. For example, the share of non-Hispanic blacks who are near poor is projected to increase from 39 percent at age 67 to 44 percent at age 80 among current retirees. Among boomers, the share of non-Hispanic blacks who are near poor is projected to increase from 23 to 28 percent. In both cohorts, Hispanics are projected to have similar poverty rates as non-Hispanic blacks at ages 67 and 80. Near poverty rates are also expected to increase substantially for older adults who at age 67 are in shared living arrangements, working, or in the second and third income quintiles. In contrast, near poverty rates are expected to decline by 18 percentage points for current retirees and 10 percentage points for boomer retirees in the first income quintile.

Even though overall incomes are projected to decline substantially between ages 67 and 80, overall poverty rates are projected to remain fairly constant, in large part, because poverty thresholds are not adjusted to reflect real-wage increases. For this reason, the analysis also examines the share of retirees with income less than 45 percent of the national average wage (table 11). Using this measure of retirement adequacy reveals two main findings. First, boomers are slightly more likely than current retirees to have income below 45 percent of the national

³ Only the numerator of the replacement rate, which is per capita family income, differs between ages 67 and 80. The denominator, average lifetime shared earnings, is the same at either age.

Table 7. Median Replacement Rates of Older Adults at Ages 67 and 80

Age 67 Status	Current Retirees		Boomers	
	Age 67	Age 80	Age 67	Age 80
All	105 %	90 %	93 %	79 %
Gender				
Female	106	92	92	79
Male	103	86	95	78
Marital Status				
Married	104	91	93	79
Single	106	86	95	78
Race/Ethnicity				
Non-Hispanic white	105	90	93	79
Non-Hispanic black	100	79	83	68
Hispanic	102	81	91	74
Asian & Native American	148	122	123	105
Education				
High school dropout	95	81	97	84
High school graduate	102	87	89	75
College graduate	129	110	103	86
Health Status				
Healthy	106	91	93	79
Unhealthy	102	86	93	79
Living Arrangements				
Alone	105	90	93	79
Shared	104	86	94	78
Housing Tenure				
Rent	101	88	113	105
Own	106	90	91	76
Work Status				
Not Working	91	86	78	76
Working	120	125	110	119
Labor Force Experience				
Less than 20 years	127	117	135	129
20 to 29 years	112	94	100	85
30 or more year	94	77	88	72
Income Quintile				
1st Quintile	72	71	69	69
2nd Quintile	81	71	73	65
3rd Quintile	92	82	85	70
4th Quintile	115	95	103	82
5th Quintile	186	157	160	137

Notes: Current retirees are born between 1926-39. Boomers are born between 1946-65. Marital status, health status, living arrangements, housing tenure, work status, and income quintile are as of age 67. Replacement rates are calculated as the ratio of per capita income (excluding imputed rent and co-resident income) at ages 67 or 80 to shared lifetime earnings. Shared lifetime earnings is the average of wage-indexed shared earnings between ages 22 and 62, where shared earnings are computed by assigning each individual half the total earnings of the couple in the years when the individual is married and his or her own earnings in years when not married. The median value is measured as the mean value between the 40th and 60th percentiles of the distribution.

Source: Authors' tabulations of MINT (see text for details).

Table 8. Distribution of Replacement Rates of Older Adults at Ages 67 and 80

Replacement Rate	Current Retirees		Boomers	
	Age 67	Age 80	Age 67	Age 80
< 25%	2%	1%	2%	1%
< 50%	10%	16%	13%	19%
< 75%	29%	40%	35%	47%
< 100%	47%	57%	55%	65%
< 200%	82%	84%	85%	87%

Notes: Current retirees are born between 1926-39. Boomers are born between 1946-65. Replacement rates are calculated as the ratio of per capita income (excluding imputed rent and co-resident income) at ages 67 or 80 to shared lifetime earnings. Shared lifetime earnings is the average of wage-indexed shared earnings between ages 22 and 62, where shared earnings are computed by assigning each individual half the total earnings of the couple in the years when the individual is married and his or her own earnings in years when not married.

Source: Authors' tabulations of MINT (see text for details).

Table 9. Poverty Rates of Older Adults at Ages 67 and 80

Age 67 Status	Current Retirees		Boomers	
	Age 67	Age 80	Age 67	Age 80
All	5 %	5 %	3 %	3 %
Gender				
Female	7	6	4	4
Male	4	3	2	2
Marital Status				
Married	3	3	2	2
Single	11	8	6	5
Race/Ethnicity				
Non-Hispanic white	4	3	2	2
Non-Hispanic black	13	13	7	7
Hispanic	13	12	6	5
Asian & Native American	14	13	8	8
Education				
High school dropout	13	12	15	13
High school graduate	4	4	3	3
College graduate	2	2	1	2
Health Status				
Healthy	4	4	3	3
Unhealthy	8	7	5	4
Living Arrangements				
Alone	6	5	4	3
Shared	2	5	0	3
Housing Tenure				
Rent	17	14	15	15
Own	3	3	2	2
Work Status				
Not Working	9	8	7	5
Working	1	2	0	1
Labor Force Experience				
Less than 20 years	12	11	18	17
20 to 29 years	6	4	4	4
30 or more year	1	1	1	1
Income Quintile				
1st Quintile	27	21	17	14
2nd Quintile	1	2	0	1
3rd Quintile	0	1	0	1
4th Quintile	0	1	0	1
5th Quintile	0	0	0	0

Notes: Current retirees are born between 1926-39. Boomers are born between 1946-65. Marital status, health status, living arrangements, housing tenure, work status, and income quintile are as of age 67.

Source: Authors' tabulations of MINT (see text for details).

Table 10. Near Poverty Rates of Older Adults at Ages 67 and 80

Age 67 Status	Current Retirees		Boomers	
	Age 67	Age 80	Age 67	Age 80
All	20 %	21 %	13 %	14 %
Gender				
Female	23	26	15	16
Male	14	14	9	9
Marital Status				
Married	13	15	8	10
Single	36	35	22	22
Race/Ethnicity				
Non-Hispanic white	16	17	10	10
Non-Hispanic black	39	44	23	28
Hispanic	38	44	21	25
Asian & Native American	33	37	20	22
Education				
High school dropout	40	42	38	41
High school graduate	17	19	13	14
College graduate	8	8	4	6
Health Status				
Healthy	17	18	11	12
Unhealthy	26	28	18	19
Living Arrangements				
Alone	21	21	14	14
Shared	15	21	6	14
Housing Tenure				
Rent	45	47	37	36
Own	14	16	9	10
Work Status				
Not Working	31	28	22	19
Working	7	14	3	8
Labor Force Experience				
Less than 20 years	33	35	39	40
20 to 29 years	21	23	19	21
30 or more year	11	13	6	7
Income Quintile				
1st Quintile	90	72	61	51
2nd Quintile	8	23	2	10
3rd Quintile	1	7	0	5
4th Quintile	0	4	0	2
5th Quintile	0	1	0	0

Notes: Current retirees are born between 1926-39. Boomers are born between 1946-65. Marital status, health status, living arrangements, housing tenure, work status, and income quintile are as of age 67. Near poverty thresholds are twice the federal poverty thresholds.

Source: Authors' tabulations of MINT (see text for details).

**Table 11. Percent of Older Adults with Per Capita Income
Below 45 Percent of the National Average Wage**

Age 67 Status	Current Retirees		Boomers	
	Age 67	Age 80	Age 67	Age 80
All	22 %	30 %	24 %	31 %
Gender				
Female	25	32	26	33
Male	18	28	20	28
Marital Status				
Married	21	28	22	29
Single	27	36	27	35
Race/Ethnicity				
Non-Hispanic white	19	26	20	26
Non-Hispanic black	40	53	37	47
Hispanic	40	53	37	50
Asian & Native American	32	43	30	36
Education				
High school dropout	42	52	54	63
High school graduate	20	29	26	35
College graduate	9	13	10	14
Health Status				
Healthy	20	28	21	28
Unhealthy	29	37	31	39
Living Arrangements				
Alone	25	32	26	32
Shared	7	22	6	24
Housing Tenure				
Rent	41	50	44	50
Own	19	26	20	28
Work Status				
Not Working	33	36	36	36
Working	11	25	11	26
Labor Force Experience				
Less than 20 years	35	41	51	56
20 to 29 years	22	30	33	41
30 or more year	15	24	16	24
Income Quintile				
1st Quintile	77	76	80	77
2nd Quintile	35	46	37	46
3rd Quintile	0	18	1	22
4th Quintile	0	10	0	9
5th Quintile	0	2	0	1

Notes: Current retirees are born between 1926-39. Boomers are born between 1946-65. Marital status, health status, living arrangements, housing tenure, work status, and income quintile are as of age 67.

Source: Authors' tabulations of MINT (see text for details).

average wage. Second, unlike poverty rates which remain fairly constant and even decrease as retirees grow older, the share of retirees with per capita income less than 45 percent of the national average wage is projected to increase by 7-8 percentage points between ages 67 and 80 for both current retirees and boomers. Demographic and economic subgroups who are likely to experience the largest increases in near poverty rates between ages 67 and 80 will also experience the largest increases in the share with per capita income below 45 percent of the national average wage.

These findings reflect that poverty thresholds increase with inflation, but wages increase faster than inflation. For instance, in 1993, \$8,740 was the poverty threshold for married couples ages 65 or older and \$10,410 was 45 percent of the national average wage. By 2020, the gap between these amounts is projected to increase considerably—the poverty threshold will increase to \$17,035 and 45 percent of the national average wage will increase to \$29,322.⁴

Who Is Better or Worse Off at Age 80 than at Age 67?

This section considers who is better or worse off at age 80 than at age 67 along a number of dimensions. Someone is better off if their wealth, income, or replacement rates at age 67 increase by more than 5 percent at age 80. Likewise, they are worse off if these measures decrease by more than 5 percent between ages 67 and 80. They are better off with regard to poverty, near poverty, 45 percent of the national average wage, 75 percent replacement rate, and 50 percent replacement rate if they were below these thresholds at age 67 and above these thresholds at age 80. Likewise, they are worse off if they were above these thresholds at age 67 and below these thresholds at age 80.

Given the expected decline between ages 67 and 80 in Social Security wealth and DB pension wealth, it is somewhat surprising to find any retirees who experience an increase in their overall wealth during retirement (table 12). But 4 percent of current retirees and 2 percent of boomers are projected to have family wealth at age 80 that is more than 5 percent higher than their family wealth at age 67. Although this result is not explored further, it may reflect retirees who married between ages 67 and 80 to a much wealthier partner. Finally, more than 90 percent of all retirees are projected to experience more than a 5 percent decline in family wealth between ages 67 and 80.

The findings with regard to family income are much different. Close to an equal percentage of all retirees are expected to have more than a 5 percent increase in income and more than a 5 percent decrease in income between ages 67 and 80. Forty-three percent of current retirees are projected to have higher income and 42 percent are projected to have lower income at age 80 than at age 67. The results are very similar for boomer retirees.

The majority of retirees do not experience a large enough change in income between ages 67 and 80 to put them into or move them out of poverty—regardless of how poverty is measured. Among current retirees, 2 percent will be poor at age 67 but not at age 80 (better off). Another 2 percent will not be poor at age 67 but poor at age 80 (worse off). The movement in and out of

⁴ Based on the intermediate assumptions in Table V.B1 of the 2004 OASDI Trustees Report (Board of Trustees 2004).

Table 12. Share of Older Adults Better and Worse Off between Ages 67 and 80 on Different Indicators of Economic Well-Being

	Current Retirees		Boomers	
	Better Off	Worse Off	Better Off	Worse Off
Family Wealth	4 %	92 %	2 %	94 %
Family Income	43	42	41	44
Poverty	2	2	1	1
Near Poverty	5	6	3	5
45% Average Wage	4	12	4	11
Replacement Rate	30	59	31	57
75% Replacement Rate	5	16	5	17
50% Replacement Rate	3	9	3	10

Notes: Current retirees are born between 1926-39. Boomers are born between 1946-65. Replacement rates are calculated as the ratio of per capita income (excluding imputed rent and co-resident income) at ages 67 or 80 to shared lifetime earnings. Shared lifetime earnings is the average of wage-indexed shared earnings between ages 22 and 62, where shared earnings are computed by assigning each individual half the total earnings of the couple in the years when the individual is married and his or her own earnings in years when not married.

Individuals are better off (worse off) if their wealth, income, or replacement rates at age 67 increase (decrease) by more than 5 percent at age 80. And they are better off (worse off) with regard to poverty, near poverty, 45 percent of the national average wage, 75 percent replacement rate, and 50 percent replacement rate if they were below (above) these thresholds at age 67 and above (below) these thresholds at age 80.

Source: Authors' tabulations of MINT (see text for details).

poverty is greater using different definitions of poverty. Based on the near poverty rates of current retirees, 5 percent will be better off and 6 percent will be worse off later in retirement. This pattern is expected to be similar for boomer retirees, although boomers are less likely than current retirees to be better or worse off with regard to either poverty or near poverty. Using a relative measure of adequacy, 45 percent of the national average wage, the results are similar for current and boomer retirees. That is, 4 percent of retirees will be better off and about 12 percent of retirees will be worse off later in retirement.

The results are also similar for current retirees and boomers with regard to replacement rates. About 30 percent of all retirees are expected to be better off because their replacement rates will increase by more than 5 percent between ages 67 and 80. However, replacement rates will increase to above 75 percent for only 5 percent of retirees and to above 50 percent for only 3 percent of retirees. About 57 to 59 percent of retirees are expected to be worse off because their replacement rates will decrease by more than 5 percent between ages 67 and 80. Replacement rates will decrease to below 75 percent for about 16–17 percent retirees and to below 50 percent for about 9–10 percent of retirees.

Focusing on retirees who are better or worse off with regard to income, the analysis considers their characteristics and median change in income between ages 67 and 80. Table 13 looks at those whose incomes increased by more than 5 percent during this period. Compared with the entire cohort, current retirees who are better off are significantly more likely to be male (42 versus 38 percent) and not working at age 67 (65 versus 53 percent). In all other ways documented, those who are better off are very similar to the overall cohort. The median increase in income for current retirees who are better off is \$14,000; however, there is a lot of variation by subgroup. For example, the median increase in income is only \$8,000 for non-Hispanic blacks compared with \$15,000 for non-Hispanic whites. Also, the median increase in income is \$9,000 for high-school dropouts compared with \$23,000 for college graduates. Finally, those in the lowest income quintile have a median increase in income of only \$6,000. In contrast, those in the highest income quintile have a median increase in income of \$47,000. In general, those who tend to be economically advantaged, such as non-Hispanic whites, college graduates, and high-income holders, are projected to have the largest increases in income because they start with higher incomes at age 67.

Like current retirees, boomers who are better off are significantly more likely to be male (43 versus 38 percent) and not working at age 67 (69 versus 51 percent) compared with the entire cohort. They are also more likely to be single at age 67 (40 versus 35 percent). The median increase in income for boomer retirees is projected to be larger (\$17,000) than that for current retirees (\$14,000). Across most subgroups of retirees who are expected to be better off, particularly the economically advantaged, boomers will likely experience larger increases in income than current retirees. For example, the median increase in income among retirees in the highest income quintile is projected to be \$73,000 for boomers, but only \$47,000 for current retirees.

Table 14 considers those whose incomes decreased by more than 5 percent between ages 67 and 80. Compared with the entire cohort, current retirees who are worse off are significantly more likely to be married (78 versus 70 percent) and working at age 67 (65 versus 47 percent),

**Table 13. Characteristics and Median Change in Income (in thousands, \$2005)
among Older Adults Who Are Better Off between Ages 67 and 80**

Age 67 Status	Current Retirees			Boomers		
	Percent of All	Percent of Better Off	Median Change in Income	Percent of All	Percent of Better Off	Median Change in Income
All	100 %	100 %	\$14	100 %	100 %	\$17
Gender						
Female	62	58	13	62	57	15
Male	38	42	17	38	43	20
Marital Status						
Married	70	68	17	65	60	22
Single	30	32	10	35	40	12
Race/Ethnicity						
Non-Hispanic white	83	86	15	76	78	19
Non-Hispanic black	8	6	8	9	7	9
Hispanic	6	5	9	9	8	10
Asian & Native American	3	3	12	6	7	18
Education						
High school dropout	21	19	9	9	8	9
High school graduate	59	59	14	60	59	14
College graduate	20	22	23	31	33	29
Health Status						
Healthy	70	71	15	73	73	18
Unhealthy	30	29	11	27	27	13
Living Arrangements						
Alone	84	84	15	86	87	18
Shared	16	16	11	14	13	12
Housing Tenure						
Rent	18	18	9	13	17	9
Own	82	82	16	87	83	19
Work Status						
Not Working	53	65	12	51	69	14
Working	47	35	20	50	31	24
Labor Force Experience						
Less than 20 years	30	31	12	14	15	12
20 to 29 years	21	21	13	14	14	14
30 or more year	49	49	16	72	71	19
Income Quintile						
1st Quintile	20	22	6	20	24	5
2nd Quintile	20	19	9	20	20	10
3rd Quintile	20	20	13	20	18	15
4th Quintile	20	18	17	20	17	21
5th Quintile	20	21	47	20	21	73

Notes: Current retirees are born between 1926-39. Boomers are born between 1946-65. Marital status, health status, living arrangements, housing tenure, work status, and income quintile are as of age 67. Individuals are better off if their income at age 67 increases by more than 5 percent at age 80.

Source: Authors' tabulations of MINT (see text for details).

**Table 14. Characteristics and Median Change in Income (in thousands, \$2005)
among Older Adults Who Are Worse Off between Ages 67 and 80**

Age 67 Status	Current Retirees			Boomers		
	Percent of All	Percent of Worse Off	Median Change in Income	Percent of All	Percent of Worse Off	Median Change in Income
All	100 %	100 %	-\$16	100 %	100 %	-\$23
Gender						
Female	62	64	-16	62	65	-22
Male	38	36	-16	38	35	-24
Marital Status						
Married	70	78	-17	65	76	-25
Single	30	22	-11	35	24	-17
Race/Ethnicity						
Non-Hispanic white	83	81	-17	76	75	-23
Non-Hispanic black	8	9	-12	9	9	-19
Hispanic	6	7	-13	9	10	-22
Asian & Native American	3	4	-18	6	6	-26
Education						
High school dropout	21	21	-11	9	8	-14
High school graduate	59	59	-16	60	60	-21
College graduate	20	20	-24	31	31	-32
Health Status						
Healthy	70	70	-17	73	74	-24
Unhealthy	30	30	-14	27	26	-21
Living Arrangements						
Alone	84	81	-15	86	83	-21
Shared	16	19	-22	14	17	-35
Housing Tenure						
Rent	18	16	-12	13	11	-12
Own	82	84	-17	87	89	-25
Work Status						
Not Working	53	35	-11	51	28	-13
Working	47	65	-19	50	73	-27
Labor Force Experience						
Less than 20 years	30	28	-15	14	13	-17
20 to 29 years	21	21	-17	14	14	-20
30 or more year	49	50	-17	72	73	-25
Income Quintile						
1st Quintile	20	12	-4	20	10	-5
2nd Quintile	20	21	-10	20	20	-13
3rd Quintile	20	21	-16	20	24	-22
4th Quintile	20	24	-24	20	25	-35
5th Quintile	20	22	-42	20	22	-62

Notes: Current retirees are born between 1926-39. Boomers are born between 1946-65. Marital status, health status, living arrangements, housing tenure, work status, and income quintile are as of age 67. Individuals are worse off if their income at age 67 decreases by more than 5 percent at age 80.

Source: Authors' tabulations of MINT (see text for details).

and significantly less likely to be in the lowest income quintile at age 67 (12 versus 20 percent). The median decrease in income for current retirees who are worse off is \$16,000. Perhaps because they tend to have more to lose, the most economically advantaged groups generally have the largest declines in income as they age. For example, the median decrease in income is only \$11,000 for high-school dropouts compared with \$24,000 for college graduates. And those in the lowest income quintile have a median decrease in income of only \$4,000 compared with \$42,000 among those in the highest income quintile. Although the magnitude of change is generally larger for boomers than for current retirees, many of the observed relationships are similar across cohorts.

Factors Related to Changes in Family Resources as Retirees Age

Economic status is highly correlated with changes in life events such as marriage, health, living arrangements, and work. For example, Johnson, Mermin, and Uccello (2006) find that job layoffs, divorce, and the onset of health related work limitations reduced household wealth by as much as 50 percent for some adults ages 51 to 61. This section explores how changes in family resources and economic well-being during retirement relate to life-changing events.

Marital Status

This section begins by considering the relationship between economic well-being and marriage over time (table 15). Married adults who become widowed or divorced between ages 67 and 80 are projected to have the largest decline in wealth and income and the largest increase in poverty. This category describes 17 percent of current retirees. Median wealth is projected to decline by 44 percent from \$673,000 when married to only \$380,000 when single. Likewise, median income is projected to fall by 37 percent from \$52,000 to \$33,000. The percent poor will increase from 4 to 6 percent and the percent near poor will increase from 19 to 27 percent. Replacement rates increase even though income decreases because they are measured on a per capita basis. On a family basis, incomes are higher when married than when single; however, on a per capita basis, incomes are lower when married than when single. As a result, median replacement rates are projected to increase slightly from 101 to 105 percent. Note that the share with income below 45 percent of the national average wage is projected to remain at about 29 percent.

Although only 2 percent of current retirees are expected to marry between ages 67 and 80, they are projected to have the smallest decrease in wealth, largest increase in income, and largest decrease in poverty during retirement. Median wealth is projected to decline by 20 percent, while median income is projected to increase by 63 percent (from \$30,000 to \$49,000). The percent poor will decrease from 10 to 3 percent and the percent near poor will decline from 31 to 19 percent. Median replacement rates decline from 104 percent to 80 percent because median income actually declines on per capita basis (from \$30,000 to \$24,500), which is the metric used in the replacement rates. For the same reason, the share with per capita income below 45 percent of the national average wage is projected to increase from 22 percent to 38 percent.

Table 15. Summary Measures of Economic Well-Being for Older Adults at Ages 67 and 80, by Marital Status

Age 67 Status Age 80 Status	Current Retirees				Boomers			
	Married		Single		Married		Single	
	Married	Single	Married	Single	Married	Single	Married	Single
Percent of Sample	54 %	17 %	2 %	28 %	49 %	16 %	2 %	33 %
Age 67								
Median Wealth (in thousands, \$2005)	\$857	\$673	\$462	\$406	\$1,177	\$922	\$671	\$583
Median Income (in thousands, \$2005)	\$61	\$52	\$30	\$29	\$84	\$68	\$45	\$40
Percent in Poverty	3 %	4 %	10 %	11 %	2 %	3 %	4 %	6 %
Percent in Near Poverty	11 %	19 %	31 %	36 %	6 %	11 %	16 %	23 %
Percent Below 45% Average Wage	18 %	29 %	22 %	27 %	19 %	30 %	20 %	27 %
Median Replacement Rate	105 %	101 %	104 %	106 %	94 %	86 %	95 %	94 %
Percent Below 75% Replacement Rate	28 %	31 %	30 %	29 %	34 %	39 %	33 %	36 %
Percent Below 50% Replacement Rate	8 %	11 %	9 %	11 %	12 %	15 %	11 %	14 %
Age 80								
Median Wealth (in thousands, \$2005)	\$570	\$380	\$371	\$267	\$802	\$510	\$556	\$409
Median Income (in thousands, \$2005)	\$60	\$33	\$49	\$28	\$77	\$44	\$64	\$37
Percent in Poverty	3 %	6 %	3 %	9 %	2 %	4 %	1 %	5 %
Percent in Near Poverty	12 %	27 %	19 %	36 %	7 %	17 %	6 %	22 %
Percent Below 45% Average Wage	28 %	28 %	38 %	36 %	30 %	27 %	36 %	34 %
Median Replacement Rate	87 %	105 %	80 %	87 %	75 %	89 %	67 %	78 %
Percent Below 75% Replacement Rate	42 %	32 %	44 %	41 %	50 %	38 %	58 %	47 %
Percent Below 50% Replacement Rate	18 %	9 %	19 %	16 %	22 %	11 %	28 %	20 %

Notes: Current retirees are born between 1926-39. Boomers are born between 1946-65. Replacement rates are calculated as the ratio of per capita income (excluding imputed rent and co-resident income) at ages 67 or 80 to shared lifetime earnings. Shared lifetime earnings is the average of wage-indexed shared earnings between ages 22 and 62, where shared earnings are computed by assigning each individual half the total earnings of the couple in the years when the individual is married and his or her own earnings in years when not married. The median value is measured as the mean value between the 40th and 60th percentiles of the distribution.

Source: Authors' tabulations of MINT (see text for details).

Health Status

The worsening of health normally associated with age can have severe consequences for economic well-being. Among current retirees, nearly 30 percent are projected to experience the onset of poor health between ages 67 and 80 (table 16). Their median wealth is expected to decline by 38 percent from \$601,000 to \$372,000, and their median income is expected to decline by 13 percent (more than any other health status) from \$46,000 to \$40,000. The share with income below 45 percent of the national average wage is projected to increase from 25 to 35 percent.

Another 15 percent of current retirees are projected to improve in health between ages 67 and 80. Their median wealth is expected to decline by 35 percent from \$649,000 to \$419,000, and their median income is expected to decline by only 6 percent from \$49,000 to \$46,000. The share with income below 45 percent of the national average wage is projected to increase from 25 to 32 percent. Only current retirees who remain healthy throughout the period have better outcomes.

Living Arrangements

Unlike the measure of family wealth, the measure of family income captures the economic resources that co-residents contribute to the family unit. That is why family wealth declines between ages 67 and 80 regardless of living arrangements, while family income increases for those who begin cohabiting (with someone in addition to a spouse if married) at age 80 (table 17). Only 5 percent of current retirees are expected to fall into this category. They have the lowest income of retirees in any other living arrangement at age 67 (\$42,000), and the highest income of all other retirees at age 80 (\$76,000). As a result, poverty rates are projected to decline from 7 percent to virtually zero, and near poverty rates are expected to decline from 25 to 7 percent. The share with income less than 45 percent of the national average wage is expected to fall from 27 to 4 percent, and replacement rates are expected to decline from 106 percent to 89 percent.

About 7 percent of current retirees will begin living alone at age 80. They have the highest income of retirees in any other living arrangement at age 67 (\$64,000), and the lowest income of all other retirees at age 80 (\$31,000). As a result, poverty rates are projected to nearly quadruple from 3 to 11 percent, and near poverty rates will more than double from 14 to 36 percent. The share with income less than 45 percent of the national average wage is expected to increase from 9 to 45 percent, while replacement rates are expected to decline from 103 percent to 87 percent.

Work Status

Older adults who switch between working and not working are projected to experience the largest change in their retirement resources (table 18). Nearly two-fifths of current retirees are projected to retire or have a spouse who retires between ages 67 and 80. Their median income is projected to decline by 24 percent from \$63,000 to \$48,000. Poverty and near poverty rates are projected to double and the share with income below 45 percent of the national average

Table 16. Summary Measures of Economic Well-Being for Older Adults at Ages 67 and 80, by Health Status

Age 67 Status	Current Retirees				Boomers			
	Healthy		Unhealthy		Healthy		Unhealthy	
Age 80 Status	Healthy	Unhealthy	Healthy	Unhealthy	Healthy	Unhealthy	Healthy	Unhealthy
Percent of Sample	41 %	29 %	15 %	15 %	45 %	28 %	15 %	12 %
Age 67								
Median Wealth (in thousands, \$2005)	\$838	\$601	\$649	\$478	\$1,129	\$788	\$852	\$586
Median Income (in thousands, \$2005)	\$60	\$46	\$49	\$37	\$58	\$63	\$47	\$63
Percent in Poverty	4 %	6 %	7 %	10 %	2 %	4 %	4 %	6 %
Percent in Near Poverty	14 %	22 %	22 %	30 %	9 %	14 %	15 %	22 %
Percent Below 45% Average Wage	16 %	25 %	25 %	33 %	18 %	26 %	26 %	37 %
Median Replacement Rate	113 %	97 %	106 %	97 %	99 %	86 %	95 %	89 %
Percent Below 75% Replacement Rate	26 %	32 %	28 %	33 %	33 %	40 %	33 %	38 %
Percent Below 50% Replacement Rate	8 %	11 %	9 %	12 %	12 %	15 %	12 %	14 %
Age 80								
Median Wealth (in thousands, \$2005)	\$572	\$372	\$419	\$275	\$785	\$502	\$563	\$356
Median Income (in thousands, \$2005)	\$58	\$40	\$46	\$33	\$72	\$50	\$56	\$39
Percent in Poverty	3 %	5 %	6 %	8 %	2 %	4 %	4 %	5 %
Percent in Near Poverty	14 %	25 %	24 %	33 %	10 %	15 %	16 %	23 %
Percent Below 45% Average Wage	22 %	35 %	32 %	42 %	24 %	35 %	33 %	46 %
Median Replacement Rate	99 %	81 %	91 %	81 %	84 %	71 %	81 %	75 %
Percent Below 75% Replacement Rate	35 %	45 %	38 %	46 %	43 %	54 %	45 %	50 %
Percent Below 50% Replacement Rate	13 %	19 %	15 %	18 %	17 %	23 %	18 %	21 %

Notes: Current retirees are born between 1926-39. Boomers are born between 1946-65. Replacement rates are calculated as the ratio of per capita income (excluding imputed rent and co-resident income) at ages 67 or 80 to shared lifetime earnings. Shared lifetime earnings is the average of wage-indexed shared earnings between ages 22 and 62, where shared earnings are computed by assigning each individual half the total earnings of the couple in the years when the individual is married and his or her own earnings in years when not married. The median value is measured as the mean value between the 40th and 60th percentiles of the distribution.

Source: Authors' tabulations of MINT (see text for details).

Table 17. Summary Measures of Economic Well-Being for Older Adults at Ages 67 and 80, by Living Arrangements

Age 67 Status Age 80 Status	Current Retirees				Boomers			
	Live Alone		Live Shared		Live Alone		Live Shared	
	Alone	Shared	Alone	Shared	Alone	Shared	Alone	Shared
Percent of Sample	79 %	5 %	7 %	9 %	82 %	5 %	6 %	8 %
Age 67								
Median Wealth (in thousands, \$2005)	\$716	\$625	\$511	\$467	\$956	\$782	\$688	\$587
Median Income (in thousands, \$2005)	\$48	\$42	\$64	\$62	\$63	\$50	\$87	\$83
Percent in Poverty	6 %	7	3 %	1 %	4 %	6 %	0 %	0 %
Percent in Near Poverty	20 %	25	14 %	15 %	13 %	20 %	6 %	7 %
Percent Below 45% Average Wage	25 %	27	9 %	6 %	26 %	33 %	7 %	6 %
Median Replacement Rate	105 %	106	103 %	103 %	93 %	87 %	95 %	94 %
Percent Below 75% Replacement Rate	29 %	26	30 %	31 %	35 %	38 %	35 %	35 %
Percent Below 50% Replacement Rate	9 %	8	11 %	11 %	13 %	14 %	13 %	13 %
Age 80								
Median Wealth (in thousands, \$2005)	\$463	\$403	\$314	\$284	\$634	\$496	\$449	\$377
Median Income (in thousands, \$2005)	\$43	\$76	\$31	\$70	\$54	\$95	\$38	\$88
Percent in Poverty	5 %	0 %	11 %	0 %	4 %	0 %	6 %	0 %
Percent in Near Poverty	22 %	7 %	36 %	10 %	14 %	3 %	25 %	6 %
Percent Below 45% Average Wage	34 %	4 %	45 %	5 %	34 %	5 %	46 %	8 %
Median Replacement Rate	90 %	89 %	87 %	85 %	78 %	74 %	79 %	77 %
Percent Below 75% Replacement Rate	40 %	40 %	42 %	42 %	47 %	51 %	47 %	48 %
Percent Below 50% Replacement Rate	15 %	15 %	17 %	18 %	19 %	19 %	21 %	18 %

Notes: Current retirees are born between 1926-39. Boomers are born between 1946-65. Replacement rates are calculated as the ratio of per capita income (excluding imputed rent and co-resident income) at ages 67 or 80 to shared lifetime earnings. Shared lifetime earnings is the average of wage-indexed shared earnings between ages 22 and 62, where shared earnings are computed by assigning each individual half the total earnings of the couple in the years when the individual is married and his or her own earnings in years when not married. The median value is measured as the mean value between the 40th and 60th percentiles of the distribution.

Source: Authors' tabulations of MINT (see text for details).

Table 18. Summary Measures of Economic Well-Being for Older Adults at Ages 67 and 80, by Work Status

Age 67 Status Age 80 Status	Current Retirees				Boomers			
	Work		Not Work		Work		Not Work	
	Work	Not Work	Work	Not Work	Work	Not Work	Work	Not Work
Percent of Sample	8 %	39 %	3 %	50 %	5 %	45 %	2 %	49 %
Age 67								
Median Wealth (in thousands, \$2005)	\$843	\$754	\$796	\$575	\$1,110	\$1,009	\$893	\$768
Median Income (in thousands, \$2005)	\$71	\$63	\$48	\$37	\$97	\$84	\$53	\$46
Percent in Poverty	0 %	1 %	5 %	10 %	0 %	0 %	5 %	7 %
Percent in Near Poverty	4 %	8 %	19 %	31 %	2 %	3 %	20 %	22 %
Percent Below 45% Average Wage	7 %	11 %	22 %	34 %	8 %	11 %	30 %	36 %
Median Replacement Rate	118 %	120 %	88 %	90 %	113 %	109 %	79 %	77 %
Percent Below 75% Replacement Rate	20 %	19 %	35 %	38 %	21 %	23 %	45 %	48 %
Percent Below 50% Replacement Rate	4 %	5 %	14 %	14 %	7 %	6 %	21 %	19 %
Change at Age 80								
Median Wealth (in thousands, \$2005)	\$562	\$490	\$533	\$359	\$755	\$668	\$599	\$503
Median Income (in thousands, \$2005)	\$85	\$48	\$76	\$37	\$108	\$63	\$89	\$48
Percent in Poverty	0 %	2 %	3 %	8 %	1 %	1 %	3 %	5 %
Percent in Near Poverty	2 %	16 %	6 %	30 %	2 %	9 %	5 %	20 %
Percent Below 45% Average Wage	9 %	28 %	11 %	37 %	9 %	28 %	17 %	37 %
Median Replacement Rate	121 %	81 %	135 %	89 %	115 %	73 %	129 %	80 %
Percent Below 75% Replacement Rate	21 %	45 %	16 %	41 %	22 %	53 %	23 %	46 %
Percent Below 50% Replacement Rate	6 %	19 %	4 %	16 %	7 %	21 %	8 %	19 %

Notes: Current retirees are born between 1926-39. Boomers are born between 1946-65. Replacement rates are calculated as the ratio of per capita income (excluding imputed rent and co-resident income) at ages 67 or 80 to shared lifetime earnings. Shared lifetime earnings is the average of wage-indexed shared earnings between ages 22 and 62, where shared earnings are computed by assigning each individual half the total earnings of the couple in the years when the individual is married and his or her own earnings in years when not married. The median value is measured as the mean value between the 40th and 60th percentiles of the distribution.

Source: Authors' tabulations of MINT (see text for details).

wage is projected to increase from 11 to 28 percent. Median replacement rates are projected to decline from 120 to 81 percent. Consequently, the share whose replacement rates fall below 75 percent is expected to increase from 19 to 45 percent. Likewise, the share whose replacement rates fall below 50 percent is expected to increase from 5 to 19 percent.

Only 3 percent of current retirees are expected to begin working between ages 67 and 80. Their median income is projected to increase by 58 percent from \$48,000 to \$76,000. The poverty rate, near poverty rate, and share with income below 45 percent of the national average wage is projected to decline by around half. Median replacement rates are projected to increase from 88 to 135 percent. Consequently, the share whose replacement rates fall below 75 percent is expected to decrease from 35 to 16 percent. Likewise, the share whose replacement rates fall below 50 percent is expected to decrease from 14 to 4 percent.

V. CONCLUSIONS

Typical older adults experience a decline in retirement wealth and income between ages 67 and 80. More than two-fifths of retirees will have significantly less income at age 80 than they did at age 67, with the median decline in income being \$16,000 for current retirees and \$23,000 for boomers. Some older adults, however, will be better off later in retirement. Approximately two-fifths of retirees will have significantly more income at age 80 than they did at age 67, with the median increase in income being \$14,000 for current retirees and \$17,000 for boomers.

At least some of the change in economic well-being during retirement is related to changes in marital status, health status, living arrangements, and work status. Older adults who are married or working at 67 are most likely to experience declines in income between ages 67 and 80 because they have a high probability of becoming widowed or retiring from the labor force. For example, one-sixth of retirees in the analysis become widowed or divorced between ages 67 and 80 and experience a corresponding decline in median income of 35–37 percent. Also, around two-fifths of older adults quit working between ages 67 and 80 and face a 24–25 percent decline in their median income. On the flip side, economic well-being increases for those who marry or begin working between ages 67 and 80. However, these events are significantly less common.

As shown in previous studies, boomer retirees are projected to have higher wealth and income than current retirees at both ages 67 and 80. Although the magnitude of change in resources between ages 67 and 80 is generally larger for boomers than for current retirees, many of the observed relationships are similar across cohorts.

As policymakers debate Social Security, health insurance, and long-term care insurance, it is important to recognize the factors associated with changes in economic security during retirement and their potential impact on retirees' economic well-being. The study findings may even be somewhat optimistic because of the uncertainty of promised Social Security benefits and rising health care and long-term care costs.

While encouraging workers to begin saving for retirement when they are young is imperative, it is only the first step. When Social Security benefits first became payable in 1940,

the average worker retired at 68. To retire for an equivalent number of years in 2005 would mean retiring at 74; however, workers today retire on average at around age 63 (Steuerle 2005). For this reason, it is no longer enough to be financially prepared for the first year of retirement. Future retirees will need to consider whether their financial resources are sufficient to support themselves throughout retirement. They need to plan their retirement finances believing that they will live a very long time, they will outlive their spouses, and they will experience major health problems. Only then might they be able to enjoy their golden years.

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