

How Much Should the Poor Save for Retirement?

ANDREW G. BIGGS

AMERICAN ENTERPRISE INSTITUTE

ANDREW.BIGGS@AEI.ORG

REMAKING RETIREMENT? DEBT IN AN AGING ECONOMY

SPONSORED BY THE PENSION RESEARCH COUNCIL/BOETTNER CENTER FOR
PENSIONS AND RETIREMENT RESEARCH

MAY 2 AND 3, 2019

Widespread concern over retirement saving

- ▶ Surveys show most Americans believe there is a “retirement crisis”
 - ▶ Though only 5% of current retirees say they are “Finding it difficult to get by.” (Fed Survey of Household Economics and Decisionmaking, 2017.)
- ▶ Proposed solutions include:
 - ▶ Expand access to employer-sponsored plans
 - ▶ E.g., SECURE Act
 - ▶ Expand Social Security
 - ▶ Particularly for low earners
 - ▶ Establish state-run “auto-IRA” plans
 - ▶ Since employer coverage is skewed toward high earners, low-wage workers disproportionate audience for auto-IRAs

But do we *know* low-earners are undersaving?

- ▶ Yes, low earners save very little
 - ▶ The bottom quintile of retiree is highly dependent on Social Security and SSI
- ▶ But poverty in old age has dropped dramatically
 - ▶ From 9.7% in 1990 to 6.7% in 2012 (Bee and Mitchell 2017, using IRS data)
- ▶ Replacement rates among low earners are high
 - ▶ Lowest quintile mean of 106% of prior earnings; 2nd quintile, 95% (Brady, et al. 2017.)
- ▶ But self-assessed retirement income adequacy is much poorer
 - ▶ 2016: 32% of retirees in bottom income quintile describe income as “totally inadequate,” down from 39% in 1992 (SCF)

How much should low-earners saving for retirement?

- ▶ Create stylized earnings patterns
- ▶ Calculate Social Security replacement rates
- ▶ Compare these to target rates for total retirement incomes to calculate residual replacement rate from savings
- ▶ Set assumptions on pre- and post-retirement interest rates
- ▶ Set assumptions on life expectancy in retirement by earnings level
- ▶ Calculate wealth at retirement to fund residual replacement rate
- ▶ Calculate savings from ages 30 through 65 to meet target wealth at retirement
 - ▶ Repeat the process for sensitivity to interest rates and post-retirement longevity

Using SSA stylized earners

- ▶ Stylized earners created by SSA actuaries
 - ▶ Based on SSA earnings data by age
 - ▶ Follow familiar hump-shaped age-earnings profile
- ▶ Earner types
 - ▶ Very low (averaging 25% of national average wage over career)
 - ▶ Low (45%)
 - ▶ Medium (100%)
 - ▶ High (160%)
 - ▶ Maximum (earns maximum taxable wage every year; currently \$132,000)

Replacement rate targets

- ▶ Replacement rate formula
 - ▶ Initial Social Security benefit at full retirement age of 66 as percent of real average earnings from ages 45 thru 60.
- ▶ Replacement rate targets (based on Myers, 1993)
 - ▶ Very low: 90%
 - ▶ Low: 83%
 - ▶ Medium: 75%
 - ▶ High: 67%
 - ▶ Maximum: 60%

Social Security replacement rates

- ▶ Social Security as percent of age 45-60 earnings
 - ▶ Very low: 82% (8% residual replacement rate target)
 - ▶ Low: 68% (15%)
 - ▶ Medium: 50% (25%)
 - ▶ High: 42% (25%)
 - ▶ Maximum: 27% (33%)
- ▶ Why so high?
 - ▶ SSA publishes replacement rates for medium earner of about 40%
 - ▶ But this figure is relative to “wage-indexed” career earnings
 - ▶ Equivalent to comparing average benefit of new retirees in year x to average wage of workers in the same year. Not relevant for personal retirement planning.

Converting savings to incomes

- ▶ Interest rates on savings
 - ▶ Pre-retirement: 8.7%, historical yield on 60-40 portfolio
 - ▶ Post-retirement: 0.8% plus inflation, from 2015 yield on 10-year TIPS
 - ▶ Simulates recent retiree, who experienced high pre-retirement returns but low post-retirement interest rates
- ▶ Assumed longevity at age 66: Extrapolated from GAO (2016)
 - ▶ Very low: 15 years
 - ▶ Low: 17
 - ▶ Medium: 20
 - ▶ High: 23
 - ▶ Maximum: 25
- ▶ Retirement saving assumed to begin at age 30
 - ▶ Required saving rate is percent of age 30-65 earnings that will fill gap between Social Security replacement rate and target rate

Required saving rates to meet targets

- ▶ Required savings as percent of age 30-65 earnings

- ▶ Very low: 0.4% (0.6%)
- ▶ Low: 2.6% (3.8%)
- ▶ Medium: 4.4% (6.1%)
- ▶ High: 4.9% (6.8%)
- ▶ Maximum: 6.4% (8.5%)

- ▶ Sensitivity analysis

- ▶ Interest rates based on CBO long-term projections
 - ▶ Lower pre-retirement return: 7.0%;
 - ▶ Higher post-retirement interest rates: 4.7% (2.3% real)
- ▶ Mortality: Baseline life expectancy + 20%
- ▶ Results shown above in brackets.

Takeaways

- ▶ Truly low-income workers probably don't need to save for retirement
 - ▶ *If* Social Security pays scheduled benefits; very likely for low earners, less so for middle/high earners
 - ▶ If Social Security expanded, saving need for low-earners reduced further
 - ▶ Additional general precautionary saving probably makes sense
- ▶ Low-earners (~half the average wage) should save modestly
 - ▶ State auto-IRAs with 3-5% default contribution rates could help
 - ▶ But auto-escalation up to ~10% is probably too much
 - ▶ But danger of running up against asset/income tests for transfer programs
- ▶ For middle/high earners, saving is necessary but perhaps less than thought
 - ▶ Main reason: Social Security replacement rates higher than commonly believed
 - ▶ Results not very sensitive to reasonable changes in interest rates or mortality