

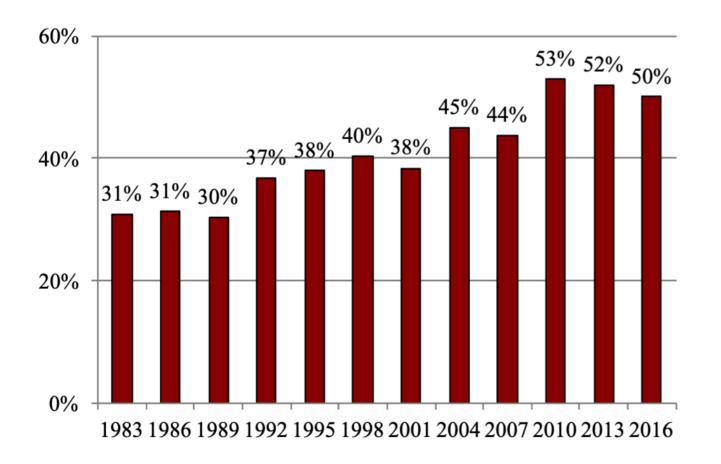
Trends in Retirement Income Adequacy: Evidence from IRS Tax Data

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Retirer 71 percent of Americans aren't saving en't Saving Enough

Claim: It's getting worse

FIGURE 2. THE NATIONAL RETIREMENT RISK INDEX, 1983-2016



CENTER for RETIREMENT RESEARCH at BOSTON COLLEGE

Share of working-age households projected to fall more than 10% short of their retirement savings target

There is no retirement crisis

WSJ OPINION

OPINION | COMMENTARY

The Phony Retirement Crisis

By Andrew Biggs Feb. 28, 2019 6:56 pm ET

This paper

- Use IRS tax data from 2000 to 2016 to measure income in retirement
 - Tax returns (self-reported) plus information returns (third-party reported)
 - Advantage: Do not rely on survey responses

- 5% random sample of 1930-1941 birth cohorts
 - 22.6 million person-years

Pre-tax income definition

- Wage income
- Distributions from DB and DC plans, including non-taxable distributions
 - Excluding direct rollovers, Section 1035 exchanges, recharacterized contributions, withdrawals of impermissible contributions
- Social Security benefits
- Interest and dividend income
- Net income from sole proprietorships, S corporations, and partnerships
- Capital gains realizations

Income not captured

- Supplemental Security Income (SSI)
- Private insurance payouts
- SNAP, WIC, TANF, and VA benefits
- Child support

After-tax income

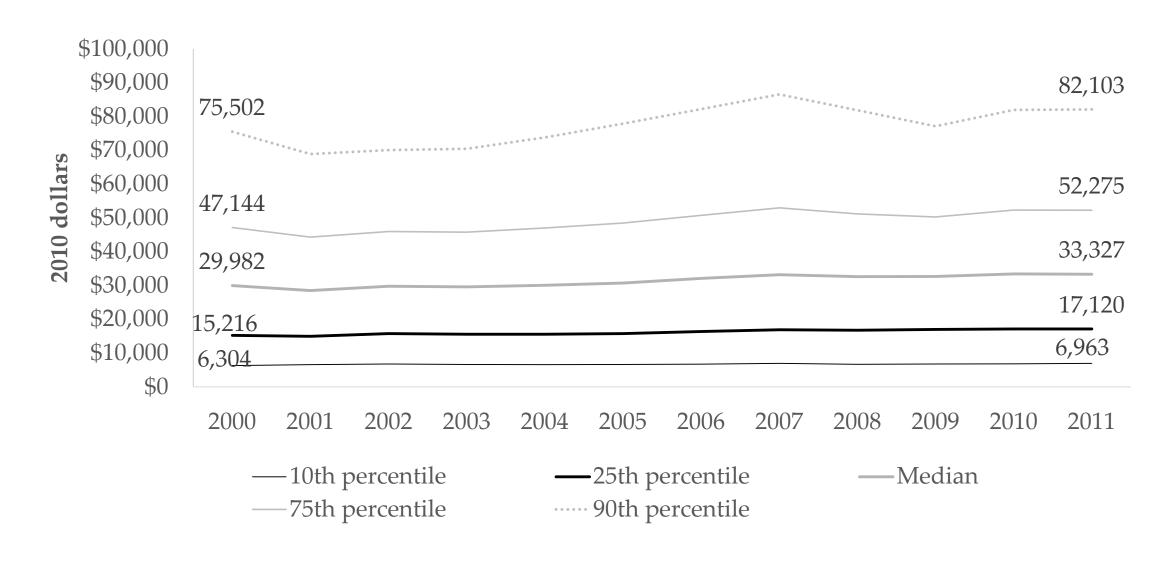
Pre-tax income + EITC – federal tax liability

Equivalent income

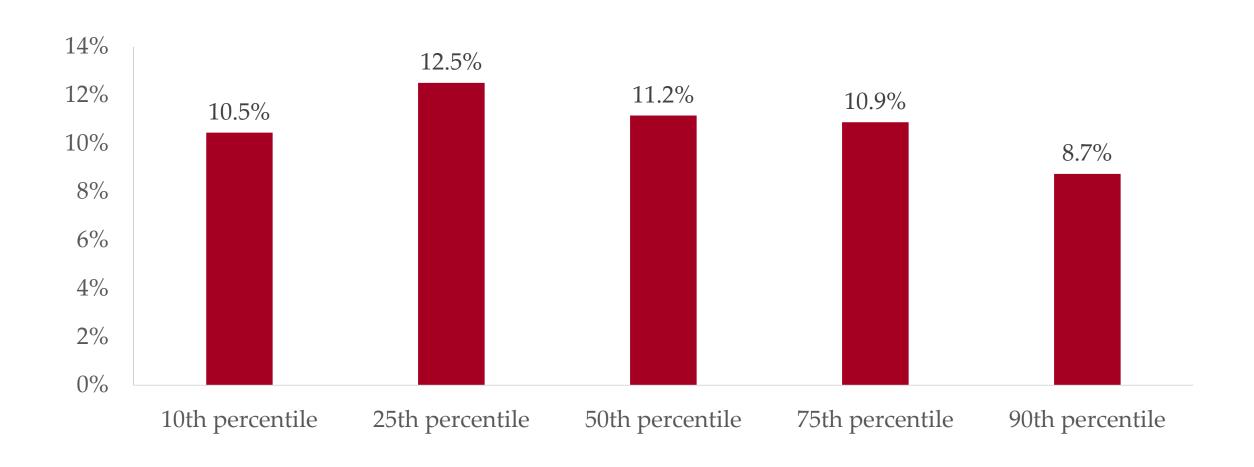
• Measure household size by whether initially sampled individual declares spouse when filing tax return

- Equivalent income = Income divided by square root of household size (1 or 2)
 - Do not consider dependents

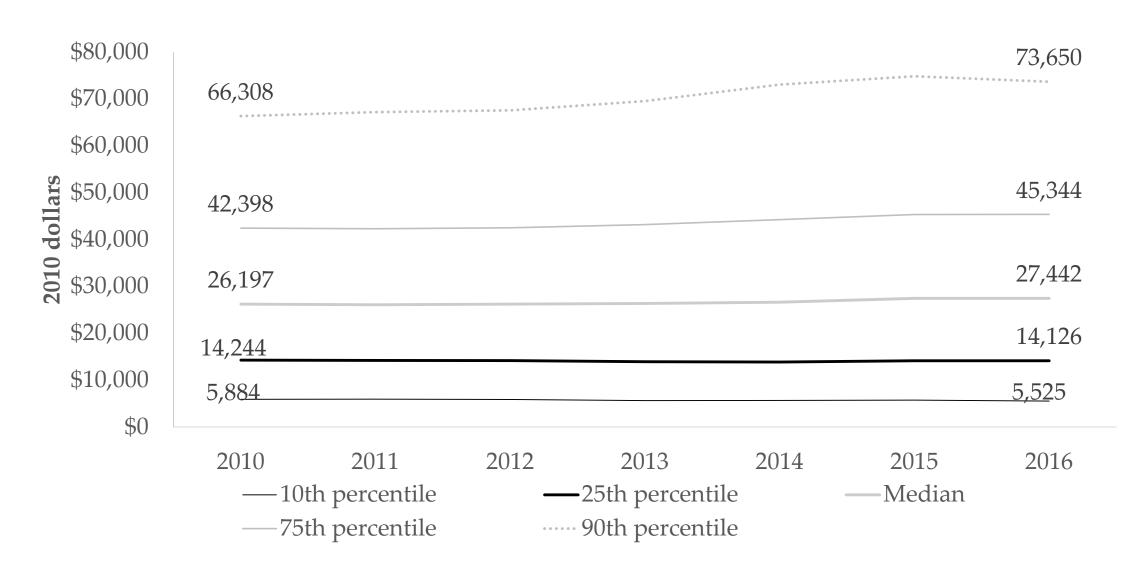
After-tax equivalent income, age 70



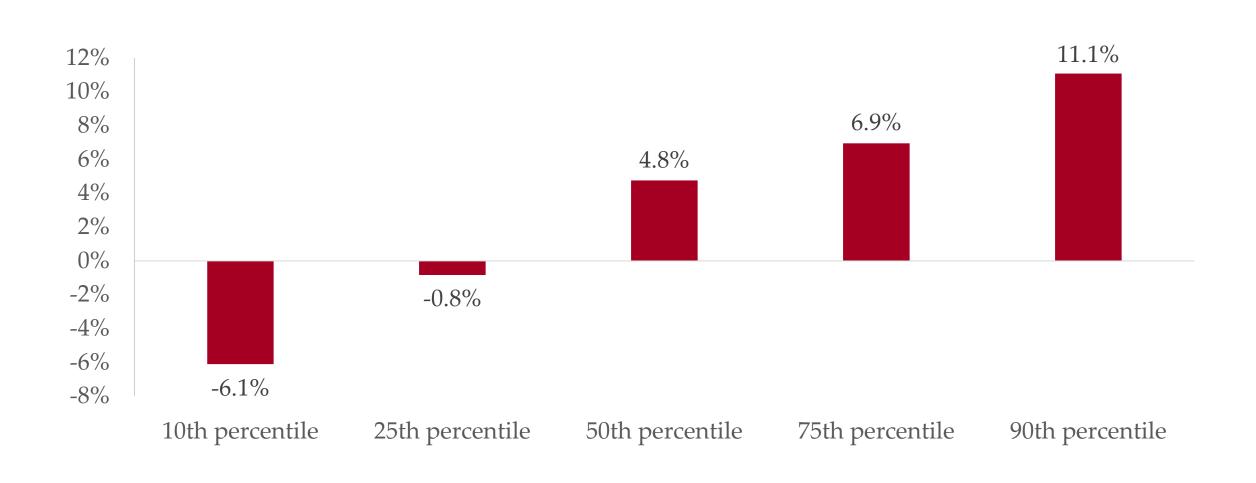
After-tax equivalent income at age 70, growth from 2000 to 2011



After-tax equivalent income, age 80



After-tax equivalent income at age 80, growth from 2010 to 2016



Economic optimality

• Determined by consumption, not income

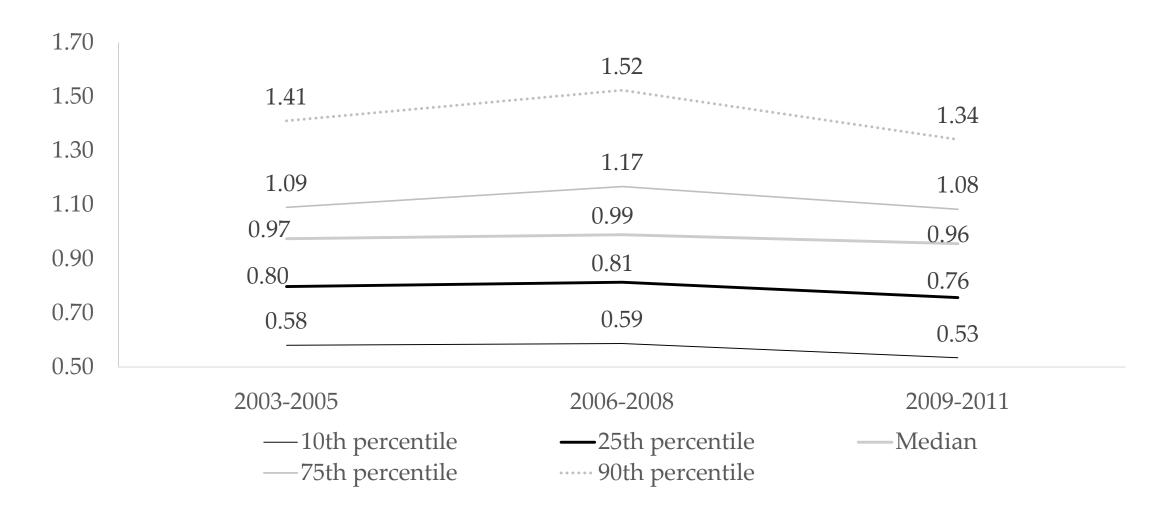
• Determined not just by level of consumption

 Determined by whether can maintain standard of living across time

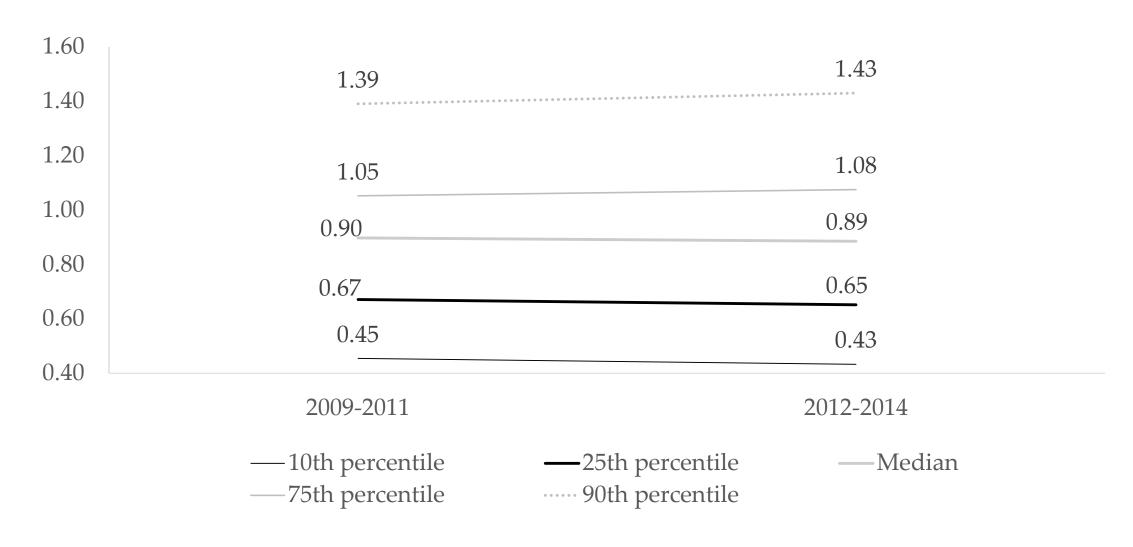
Income ratio analysis

Income averaged over ages 70-73 or 76-79 divided by income averaged over ages 65-67

Ratio of after-tax equivalent income at ages 70-73 to ages 65-67



Ratio of after-tax equivalent income at ages 76-79 to ages 65-67



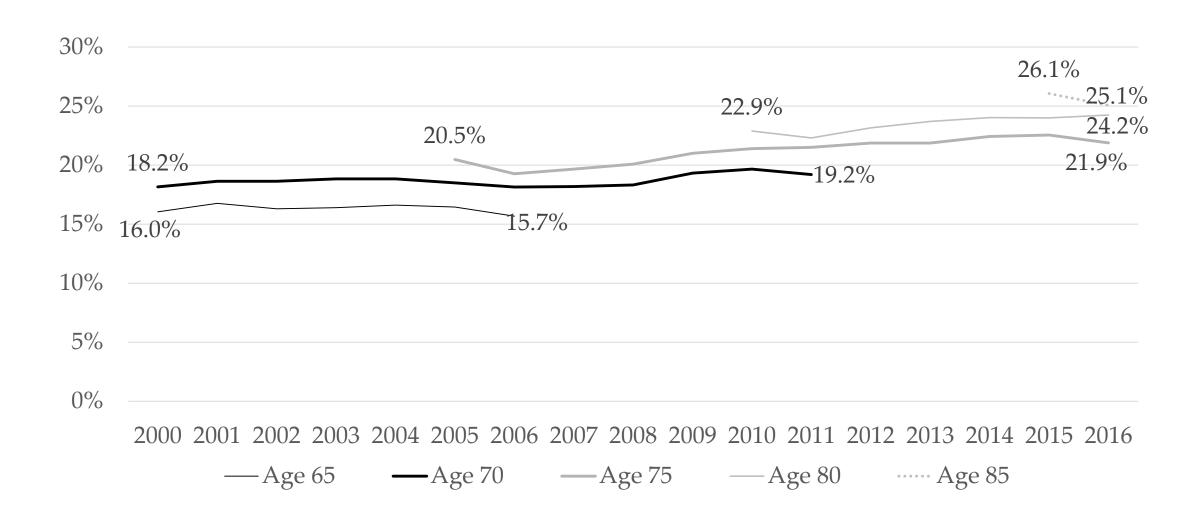
Complete Social Security dependence

• <\$100 (in 2010 dollars) of non-Social Security income

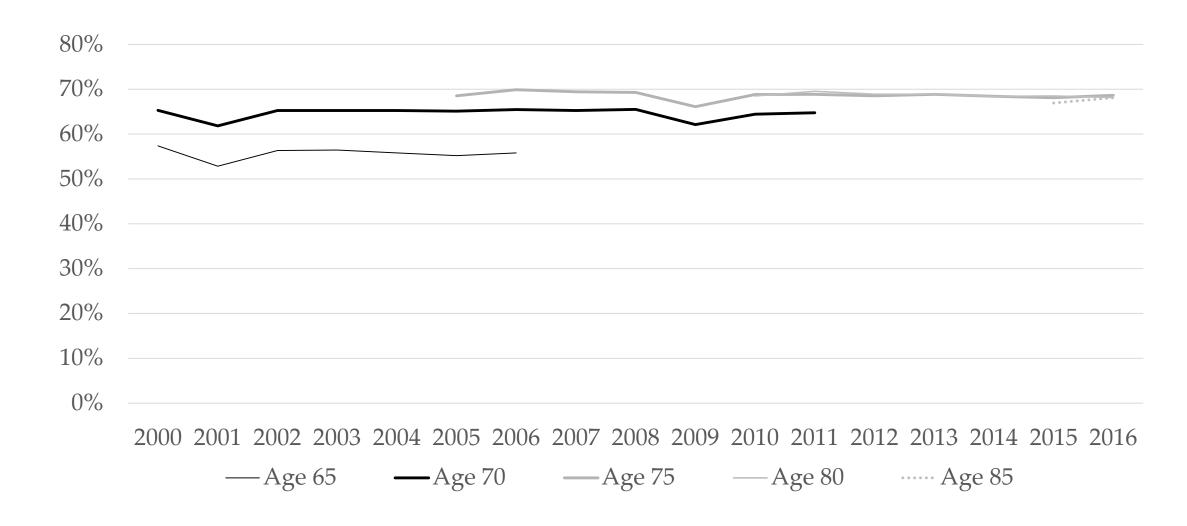
AND

Zero IRA balances

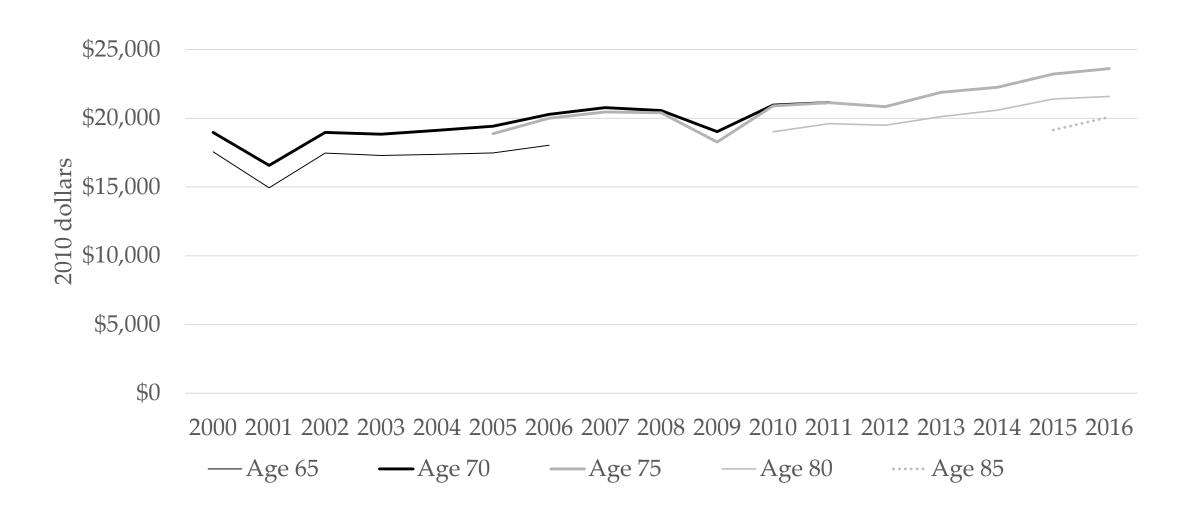
% tax units who are completely dependent on Social Security



% tax units with positive pension income



75th percentile equivalent pension income



Summary

- Absolute levels of equivalent income at age 70 has been rising throughout distribution
- Absolute levels of equivalent income at age 80 have been *falling* below the median
- Income replacement ratios relative to age 65-67 income have been *falling* below the median
- Complete Social Security dependence rates have been rising at ages 70, 75, and 80

KUTZ