



Using Panel Tax Data to Examine the Transition into Retirement

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* Views presented are those of the authors and do not necessarily represent the views of the Internal Revenue Service, or the views of the Investment Company Institute or its members.

Motivation For the Paper

- What happens to income near retirement?
 - Savings Crisis
 - Consumption Puzzle
- Administrative data offer another way to examine the issue
 - Income concept: consumable income
 - Enough consumable income to maintain standard of living?
- SOI Panel Data Users Group

Outline

- Data Description
- Defining the Event
- Sources & Measures of Income
- Analyzing All Retirees Using Information Returns
- Analyzing Filing Retirees Using Form1040 and Information Returns

DATA DESCRIPTION

Data: SOI 1999 to 2008 Edited Panel

- 1999 to 2008 panel of tax returns
 - Follows primary and secondary taxpayers who are in the1999 SOI cross-section
- Make into individual based sample
 - Each individual on a joint return is an observation
 - Follows individuals even if filing status changes
 - Income measures presented will be per capita (splits joint income)
- Data from 1040 and related schedules & forms
 - Most items on front of the 1040
 - SOI total tax
 - Self-employment splits
- Uses 1999 sample weight

Add Information Returns: More detail for filers, sole information for nonfilers

- Forms W2, 1099-SSA, 1099-R, 5498
 - From W2
 - Compensation splits; FICA taxes; pension checkbox; Box 12 (but only some codes)
 - From 1099-SSA
 - Amounts and type: retirement or disability
 - From 1099-R
 - Amounts and type: early or normal; Roth or traditional; other
 - From 5498
 - IRA balance, contributions, Roth conversions
- Extensive cleaning
 - Multiple forms per taxpayer requires "bucketing"
 - Amended forms
 - Not part of SOI editing

Description of the Primary Sample

- Nondependent returns
- In 1999:
 - Age 55 to 61
 - Own Work Income: W2 wages, tips, or self-employment earnings
 - No own 1099-SSA

	Weighted Sample (thousands)
Age 55 to 61, alive, and filing	15,775
Wage & salary, business, or farm, reported on 1040	14,666
Self or spouse have a W2, tips, or self employment	14,426
Own W2, tips, or self employment	12,319
No own Social Security benefits	12,012

Summary of Preliminary Investigation of the Data

- Tax return data not representative of over age 65 population due to nonfiling
- Tax data appears to be more representative of sample of interest: age 55 to 61, still working, no Social Security (most file a return)
- Tax data has more pension, annuity, and IRA income than the CPS
- Need Form 1099-R data for Social Security: underreporting and distinguishing between disability and retirement benefits

DEFINING THE EVENT

Transitions into Retirement

- Examine transitions relative to first year taxpayer receives their own Social Security retirement benefits
- Of the 12.0 million in taxpayers in 1999, by 2008:
 - 9.4 million (78%) are observed with own SS benefits
 - 0.5 million (4%) die before they receive benefits
 - 2.1 million (18%) alive but have not claimed
- Questions for analysis:
 - What is the basis for comparison?
 - What is the period of transition?

Compare Income to Year Before Retire

- Call year of first Social Security retirement receipt year t
- Year before is year t-1
- Compare year t+x to year t-1

Two Samples For Analysis

Sample 1 (using information return data)

- Retire in 2000 to 2005 (65% of observed retirements from 2000 to 2008)
- Alive for 3 years after first receipt of Social Security (97% of those who retired in 2000 to 2005)

Sample 2 (using 1040 data)

 File in all years from t-1 to t+3 (85% of those who retire in 2000 to 2005)

Affect on Sample of Selecting Period of Analysis

	1999 Income Category							
	1 st quintile	2nd quintile	3rd quintile	4th quintile	75th to 95 th	95th to 99th	Top one percent	
Percent claiming Social								
Security by 2008	80%	83%	80%	76%	76%	66%	67%	
Percent of those claiming by								
2008 who claim by 2005	70%	66%	66%	65%	59%	56%	56%	
Percent claiming by 2005 who are alive 3 years after first								
claim	96%	98%	97%	99%	97%	97%	100%	
Percent claiming by 2005 who								
file a return from t-1 to t+3	67%	81%	90%	94%	95%	96%	99%	

SOURCES & MEASURES OF INCOME

Sources of Income

Work related income

- W2 earnings
- Self-employment earnings
- Pension distributions
- IRA distributions
- Social Security Benefits
- Everything else

Measures of Income

- Net Income
 - Capital and labor income less savings and taxes
- Information return only (for tabs with nonfilers)
 - Form W2, 1099-SSA, and 1099-R
- 1040 data plus information return (for filers)

Work Related Income

Form 1040 Work Related Income (for filers)

- Earnings = wage and salary + self-employment + total Social Security benefits + taxable IRA distributions + taxable pension and annuity distributions +Roth distributions – deductible IRA contribution – nondeductible IRA contributions – Keogh, SEP & SIMPLE contributions – Roth contributions – self employed health deduction
- Net: net of federal income and payroll taxes and self-employment taxes

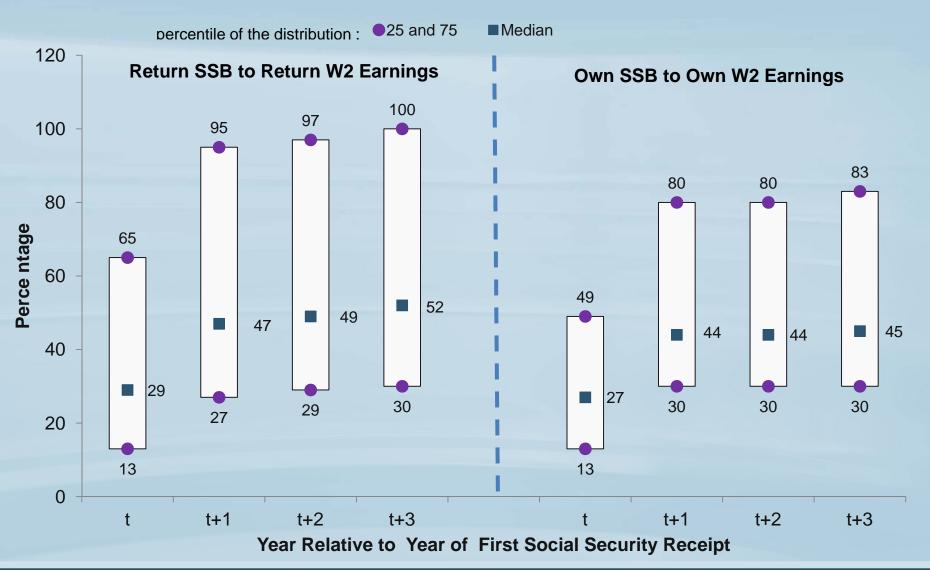
Information Return Work Related Income Measure (for both filers and nonfilers)

- Earnings = W2 wages + W2 tips + 1099-R traditional pension and IRA distributions + 1099-R Roth pension and IRA distributions + some other 1099-R income (excess contributions, recharacterized IRA contributions, deemed distributions, due to death and disability) + 1099-SSA Social Security benefits – 5498 traditional and Roth IRA contributions – W2 Roth deferrals
- Net: net of federal income taxes (if filing) and payroll taxes

ANALYZING ALL RETIREES USING INFORMATION RETURNS

Ratio of Real Social Security Benefits to Real W2 Earnings In Year t-1

Individuals 55 to 61 in 1999, first receipt of Social Security in 2000 to 2005, alive in t+3



Ratio of Real Social Security Benefits in Year t+3 to Real W2 Earnings In Year t-1

Individuals 55 to 61 in 1999, first receipt of Social Security in 2000 to 2005, alive in t+3

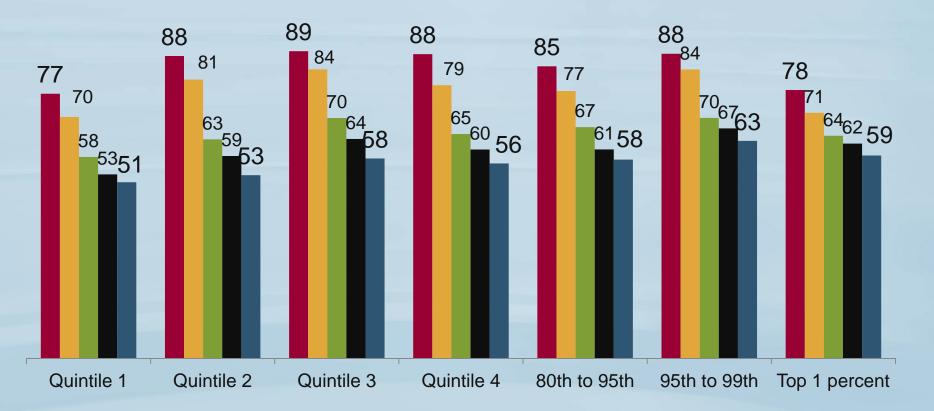


Sample 1 (retire 2000-2005, alive in t+3) Incidence of Selected Information Returns

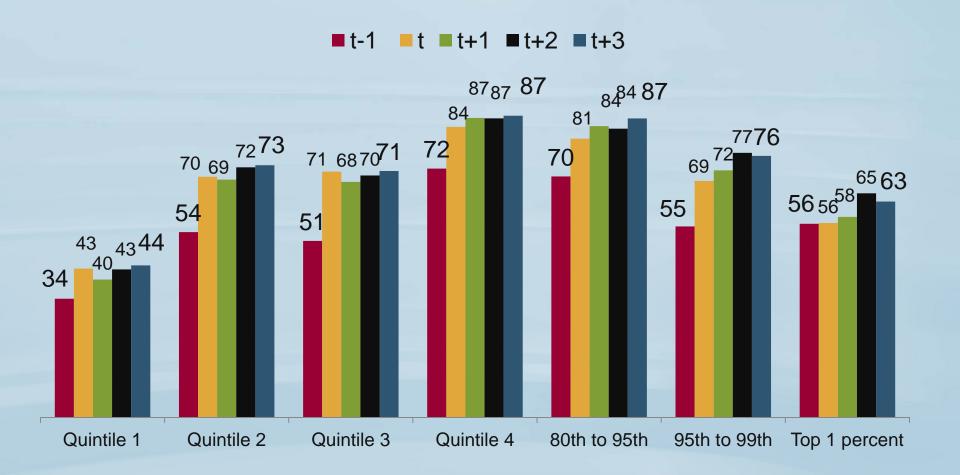


Sample 1 (retire 2000-2005, alive in t+3) Incidence of Return W2 by 1999 Income

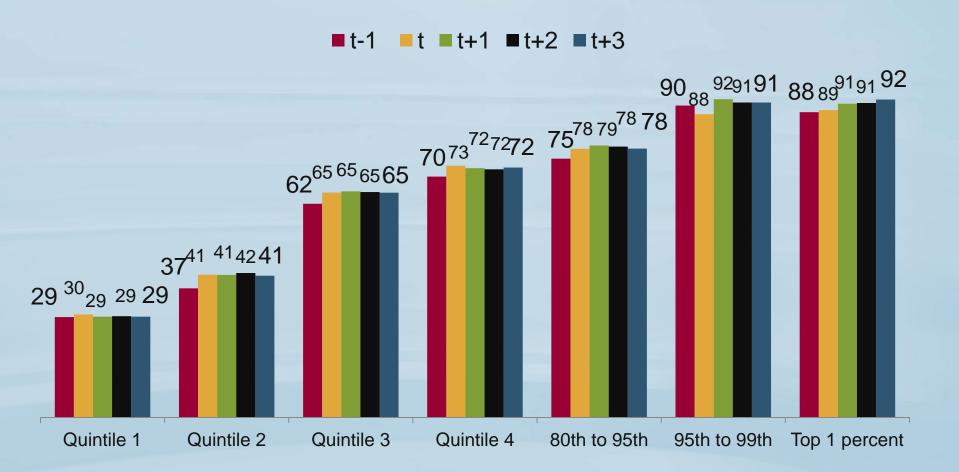
■t-1 ■t ■t+1 ■t+2 ■t+3



Sample 1 (retire 2000-2005, alive in t+3) Incidence of Return 1099-R by 1999 Income

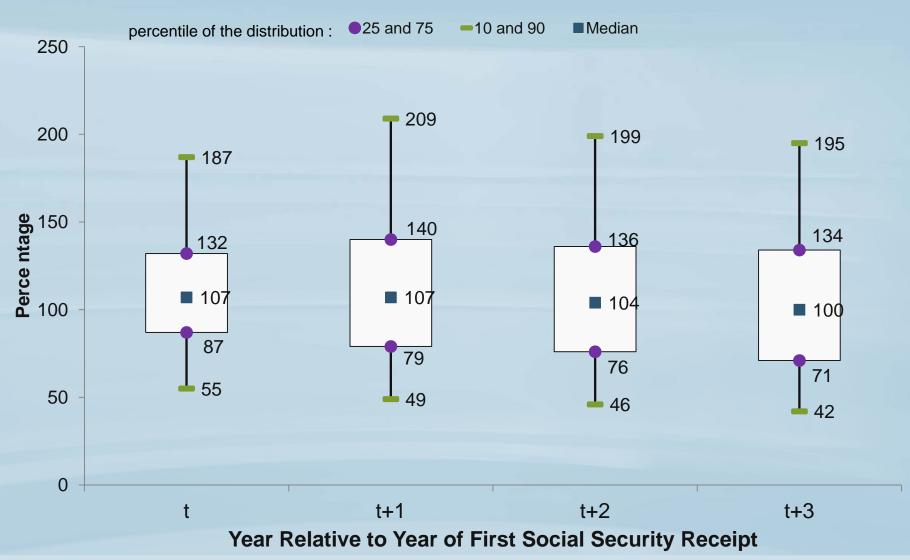


Sample 1 (retire 2000-2005, alive in t+3) Incidence of Return 5498 by 1999 Income



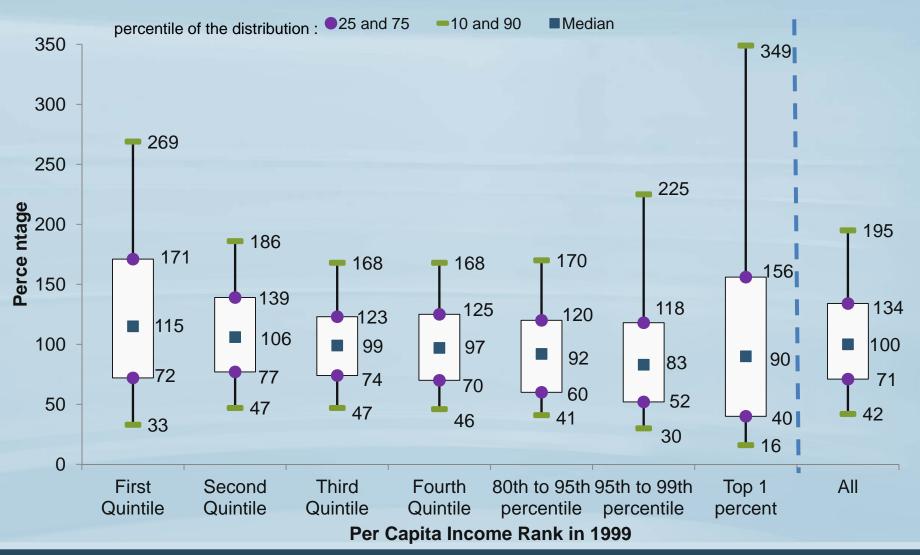
Ratio of Real Work Related Income in Year t to Year t+3 Relative to Year t-1

Individuals 55 to 61 in 1999, first receipt of Social Security in 2000 to 2005, alive in t+3



Ratio of Real Work Related Income in Year t+3 to Real Net Earnings in Year t-1

Individuals 55 to 61 in 1999, first receipt of Social Security in 2000 to 2005, alive in year t+3, by 1999 income category



Mean & Median Real Net Per Capita Income by 1999 Income Rank

Individuals 55 to 61 in 1999, first receipt of Social Security in 2000 to 2005, alive year t+3

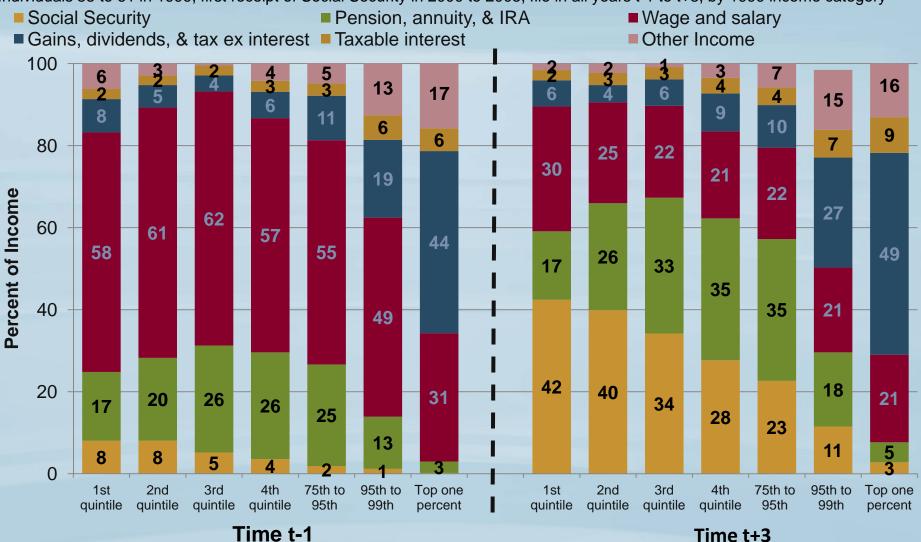
					80th to	95th to	Top 1	
	Quintile 1	Quintile 2	Quintile 3	Quintile 4	95th	99th	percent	ALL
	Mean real per capita wages plus Social Security							
Time t-1	11,378	18,597	24,562	29,723	41,975	63,815	185,800	26,101
Time t	13,779	18,250	22,622	26,410	35,545	49,956	166,943	24,111
Time t+1	14,938	17,933	21,494	24,489	35,026	51,929	135,500	23,444
Time t+2	14,814	17,251	20,803	23,388	30,066	45,569	120,837	21,960
Time t+3	14,698	17,070	19,570	22,350	27,697	41,977	123,313	21,043

ANALYZING FILING RETIREES USING 1040 & INFORMATION RETURNS

Figure 1

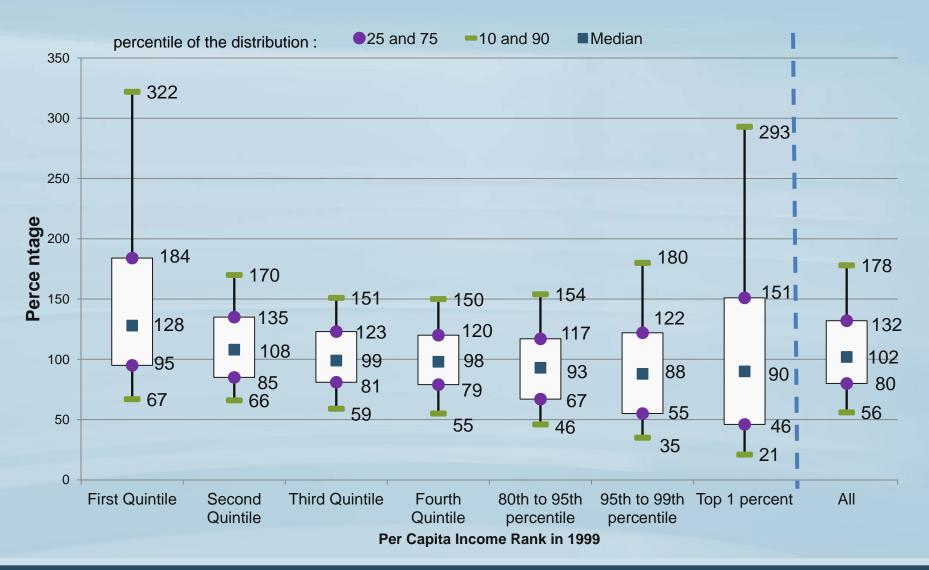
Aggregate Income Composition One Year Before and Three Years after Social Security Receipt

Individuals 55 to 61 in 1999, first receipt of Social Security in 2000 to 2005, file in all years t-1 to t+3, by 1999 income category



Ratio of Real Work Related income in Year t+3 to Real Net Earnings in Year t-1

Individuals 55 to 61 in 1999, first receipt of Social Security in 2000 to 2005, file in all years t-1 to t+3, by 1999 income category



Things We Learned

- On average (and median), do not see a drop in income near first receipt of Social Security.
 - Lowest income quartile has highest replacement rate of earnings
- Much more pension, annuity, & IRA income relative to survey data.
- Retirement income persistent.

Future Work

- More work on persistence of pension and IRA income
- Use Form 5498 to examine drawdown rate
- Regression analysis to examine replacement rates