Top 1% Income Shares: Comparing Estimates Using Tax Data

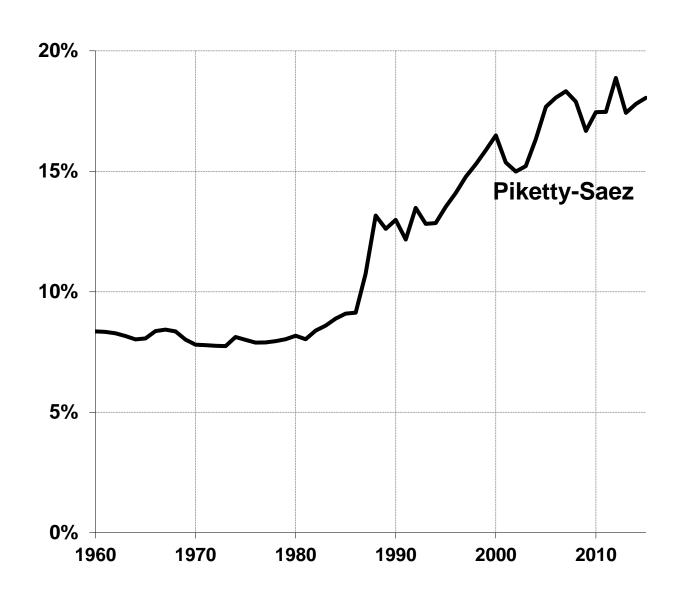
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The views and opinions expressed are those of the authors and do not necessarily represent official positions or policy of the U.S. Treasury Department. This work embodies work undertaken for the staff of the Joint Committee on Taxation, but as members of both parties and both houses of Congress comprise the Joint Committee on Taxation, this work should not be construed to represent the position of any member of the Committee.

Some Research Reports Dramatic Increases in Top 1% Shares since 1960



Measuring incomes over time isn't easy

Tax data issues

Base broadening tax reforms (TRA86)

Over 1/3 of national income not in tax data

Demographic and social changes

Declining marriage rates + more single parent HH More dependent filers

Economic changes

Government transfers increased

Inflation: distorts real income

Some Technical Issues in Using Tax Data

Income definition

NOLs = losses in <u>prior</u> years
State & Local refunds = adjustment for prior year
Gambling winnings but not losses in AGI
Alimony received/paid

TRA86 adjustments

Post-TRA passive loss limits

Pre-TRA86: C corporations as tax shelter

Post-TRA86: Pass-through business to avoid double tax

Tax excluded payments

Employer-paid payroll taxes

Employer-sponsored health insurance

Prior research on inequality trends varies widely

Bricker, et al. (2016) Fixler, Johnson, et al. (2014, 2017, 2019) Burkhauser, et al. (2012)

Compare estimates based only on tax data

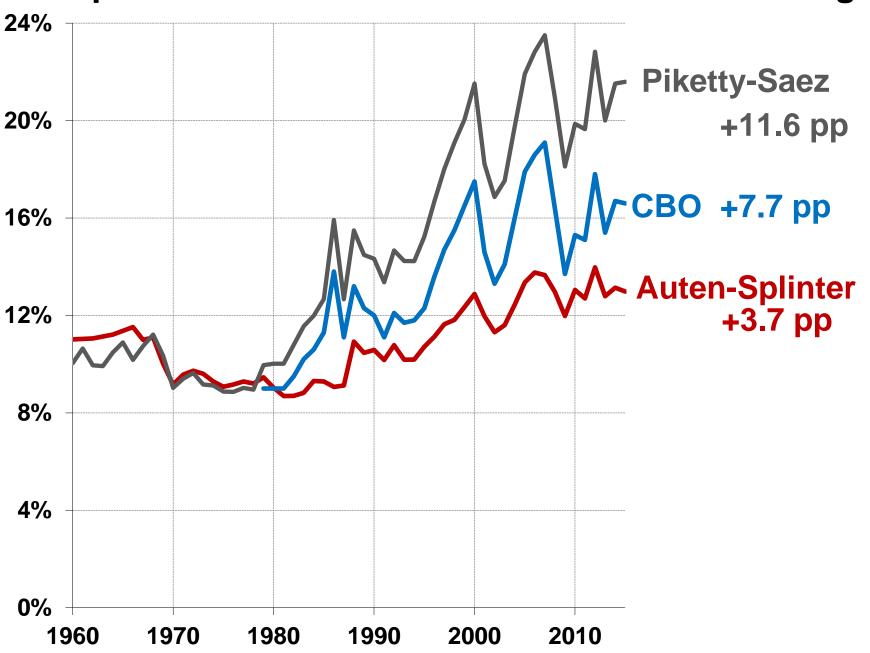
Piketty-Saez (2003, updated 2018)

CBO (2018)

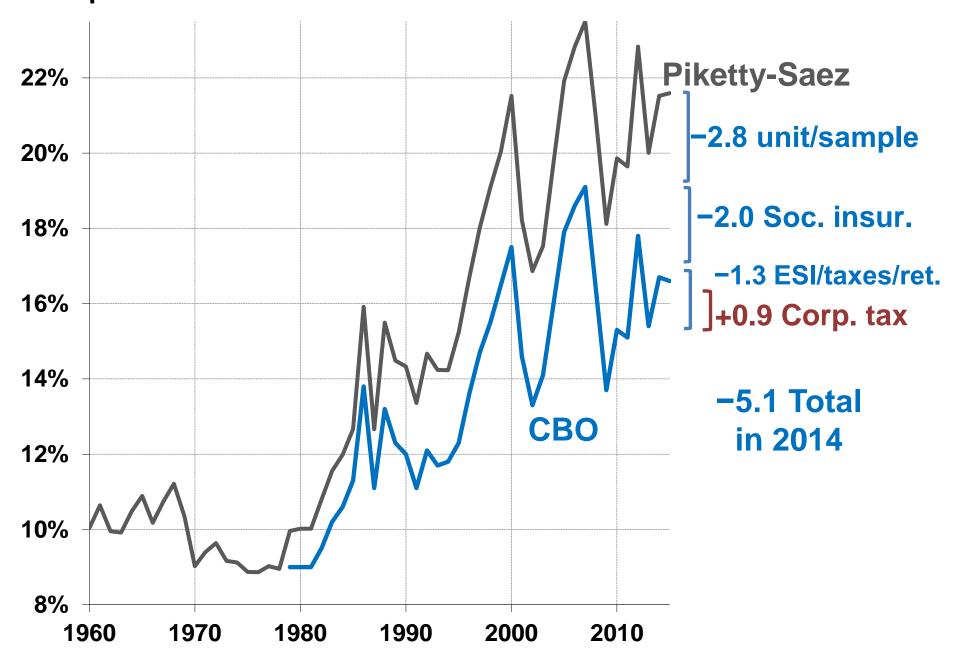
Auten-Splinter (2018)

Piketty-Saez-Zucman (2018)

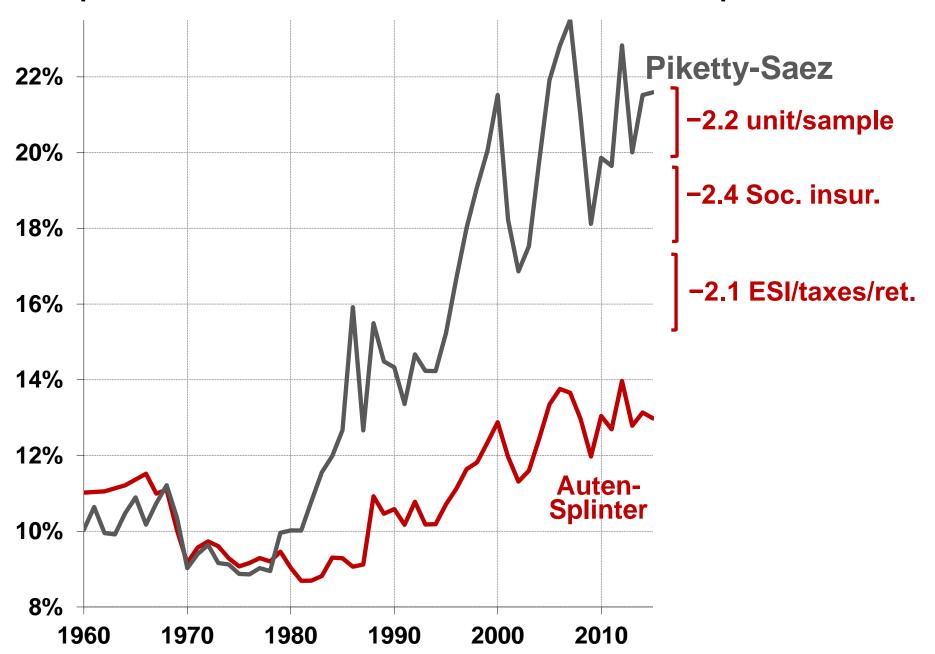
Top 1% Pre-tax Income Shares: 1979-2014 changes



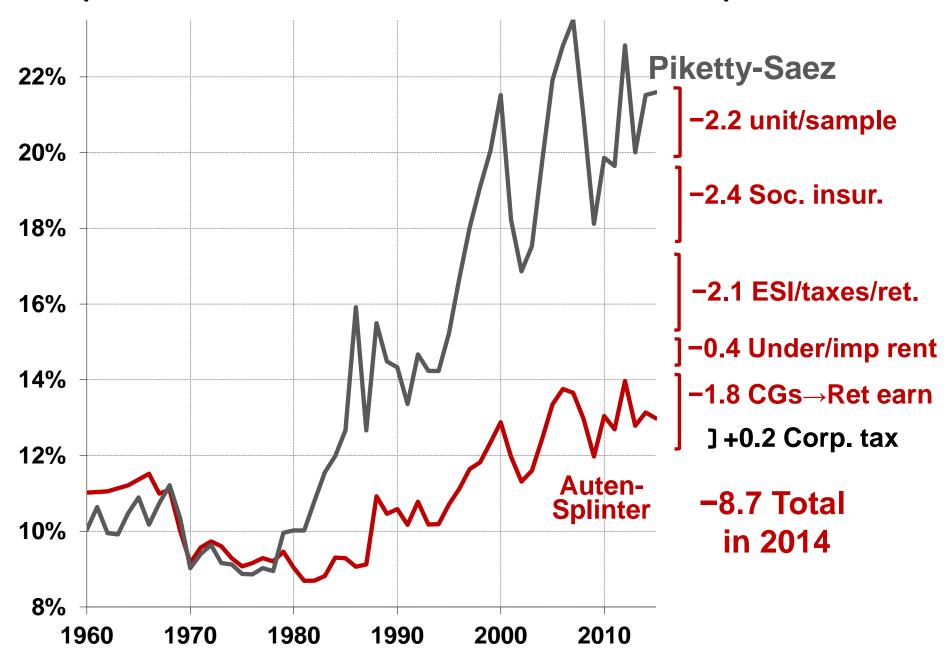
Top 1% Income Shares: PS fiscal income to CBO



Top 1% Income Shares: PS fiscal income to Auten-Splinter



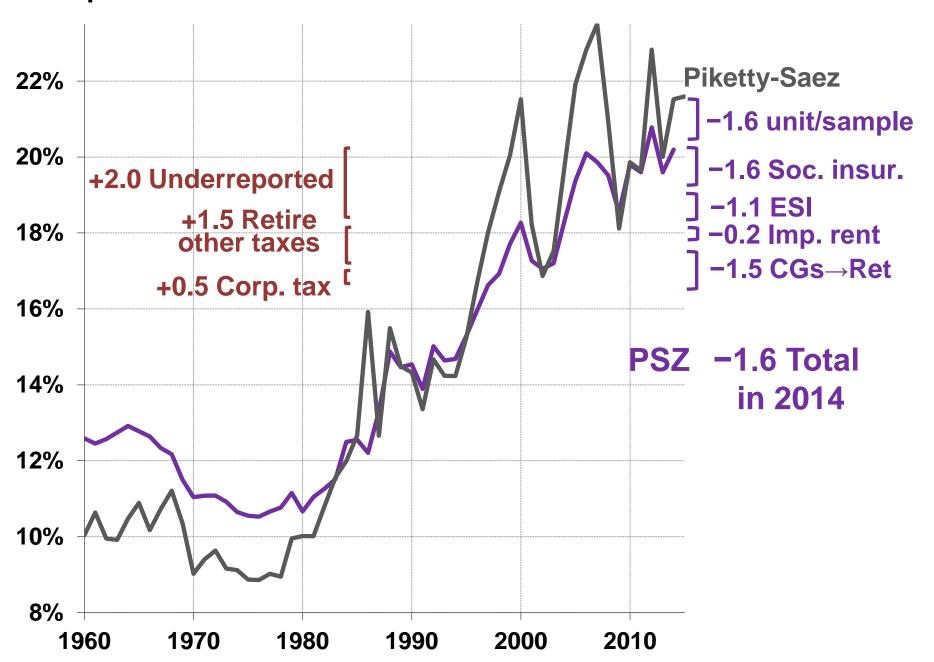
Top 1% Income Shares: PS fiscal income to Auten-Splinter



AS differences from CBO in 2014 Top 1% Shares

Effect of:	AS/CBO
Tax unit/HH size-adjustment	0.7
+ social insurance benefits	-0.3
+ employer-sponsored insur.	-0.4
+ corporate income taxes	-0.7
+ payroll & other taxes	-0.5
+ private retirement income	0.1
+ income corrections	-0.1
+ under-reported income	-0.3
+ imputed rent	-0.1
– cap. gains + corp ret. earnings	-1.8
Total differences	-3.5

Top 1% Income Shares: PS fiscal income to PSZ national inc.



AS differences from PSZ (2018) on 2014 Top 1% share

Effect of:	AS/PSZ
No size-adjusting for ranking	-0.6
+ Soc. insurance: No Medicare	-0.7
+ employer-sponsored insurance	0.1
+ corporate income taxes	-0.4
+ payroll & other taxes, etc.	-1.8
+ private retirement income	-0.8
+ income corrections	-0.4
+ under-reported income	-2.3
+ imputed rent	0.1
cap. gains/+ retained earn	-0.3
Total differences	-7.0

AS/PSZ Difference: Under-reported business income

AS allocate to reported income groups based on audit data PSZ allocate by <u>positive</u> reported business income

But: Business losses important

& under-rep. rates highest at bottom of distribution

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Reported	Reported	AS % of	PSZ % of
AGI	bus. income	underrep.	pos. bus.
group	(\$B)	income	income
\$ <0	-10	17%	0%
0-40	9	27%	5%
40-80	34	28%	19%
80-95	32	13%	17%
95-99	40	8%	22%
Top 1%	77	7 %	42%
Total	183	100%	100%

1988 TCMP audit data (sole prop, part., S-corps)

Ignores changes in household structure: ~2 pp (of 6 pp gap) tax units a big step backwards from PSZ

Ignores corrections to income definition and sample: ~1 pp

Ignores audit data: ~2 pp

<u>Filer</u> under-reporting little effect on top 1% since TRA86 BUT small decrease from <u>non-filer</u> under-reporting

We use 1985, 1988, and 2001 audits to capture changes in under-reporting rates since TRA86

Ignores changing compositions towards more equal income

Soc. insur. benefits: $1\% \rightarrow 5\%$ of national income since 1960

Empl. health insur.: $3\% \rightarrow 6\%$ "

"Simplified" PSZ allocates by increasingly unequal labor income

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Ignores that some capital income now more equal

"Simplified" method combines labor+pension to allocate pension allocates ~15% to top 1%

BUT taxable pension ~3% to top 1%

Retirement C-corp. ownership share: 4%→50% since 1960

Tax-exempt interest more equal: 80%→40% top 1% since 1960

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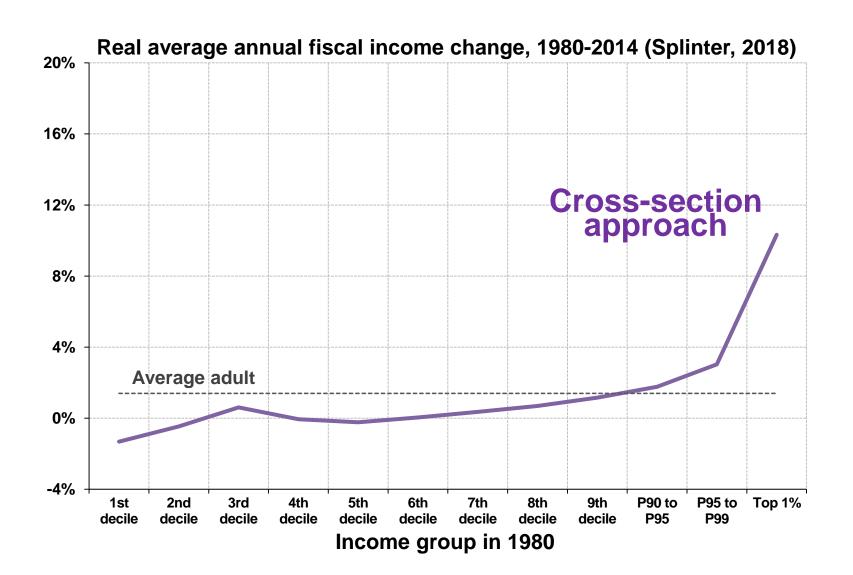
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Wealth inequality

BUT high-wealth/low-reported income

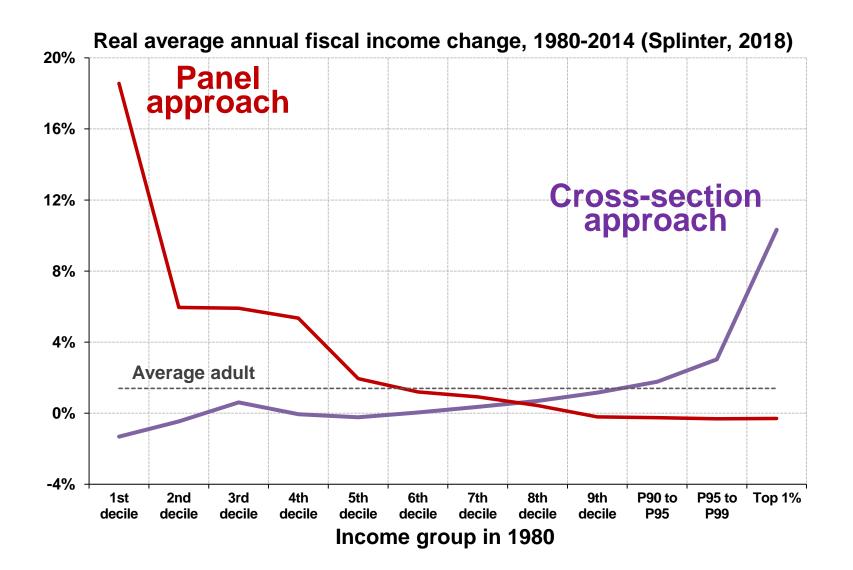
Distribution of Economic Growth

Comparing cross-sectional changes suggests all growth to top 10%

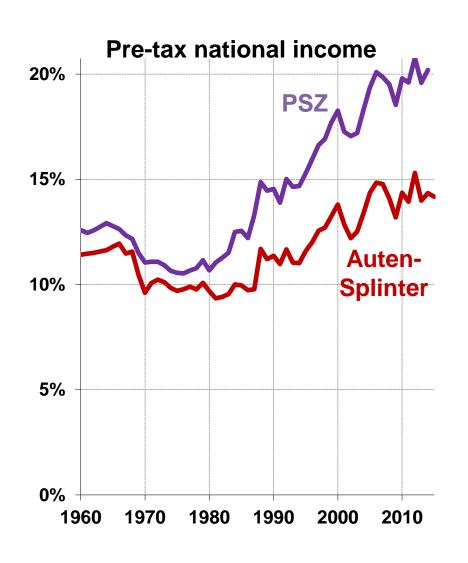


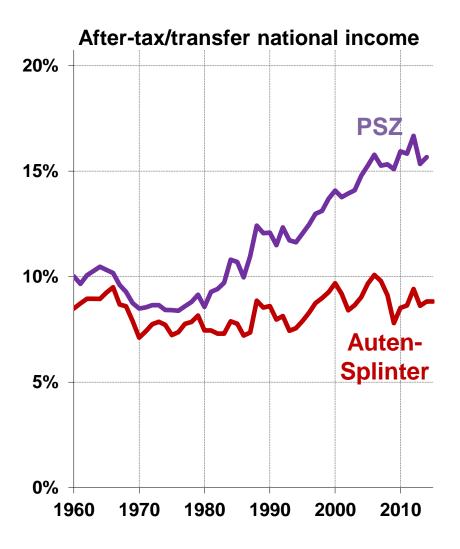
Distribution of Economic Growth

Cross-sections cannot measure income growth rates---it's different people



Allocations of transfers and taxes can also differ





Conclusions

- It's not easy to measure inequality over time
- Broader income measures generally show less inequality and less upward trend since 1980
- Tax data better for very top incomes <u>BUT</u> subject to various issues
- Much income not in tax data so must be imputed
- Results are sensitive imputation assumptions