The Receipt and Distributional Effects of Taxes and Transfers Using the Comprehensive Income Dataset

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Disclaimer: Any conclusions expressed herein are those of the author(s) and do not necessarily represent the views of the U.S. Census Bureau or Internal Revenue Service. All results were approved for release by the Census Bureau's Disclosure Review Board, authorization number CBDRB-FY20-ERD002-014.







Income Source	Administrative Source	Income Unit Individual & Tax Unit	Income Frequency Annual	States Covered All	
Earnings	DER (SSA), W-2 (IRS), Form 1040 (IRS)				
Asset Income	Form 1040 (IRS)	Form 1040 (IRS) Tax Unit Ann		al All	
Retirement Income	Form 1099-R (IRS)	Individual	Annual	All	
Social Security	PHUS & MBR (SSA)	Individual	Monthly	All	
SSI	SSR (SSA)	Individual	Monthly	All	
Veterans' Benefits	US VETS (VA)	Individual	Monthly	All	
Taxes	Form 1040 (IRS)	Tax Unit	Annual	All	
SNAP	State Agencies	Household	Monthly	15 States	
Housing Assistance	PIC & TRACS (HUD)	Household	Monthly	All	
TANF	HHS	Family	Monthly	30 States	
Unemp. Insurance	Form 1099-G (IRS)	Individual	Annual	All	

Two Types of Tax Data: Limited and Extensive

	Limited	Extensive
Authority to use data	6103(j): for Census survey improvement	6103(n): for administration of taxes
Form 1040	Amounts for AGI, wages/salaries, interest, dividends, rental income, total money income; filing status; indicators for filing various schedules; indicators for EITC earned income and number of qualifying children; etc.	All fields for limited PLUS every line item on 1040 (including taxes paid and tax credits received)
Form W-2	Total taxable wages and tips, FICA wages, Medicare wages, and deferred compensation	All fields for limited PLUS amounts on taxes withheld
Form 1099-R	Gross retirement distributions	Most lines
Other information returns	None	Most lines for forms 1099-R, 1099- G, 1099-MISC, Schedule K-1 (among others)
Schedules	None	Most lines on most schedules (A, C, D, E, F, and SE)





Advantages of What We Do: Sharing Unit

- We use the family as the unit of analysis, which is more natural for distributional analyses than using a household or tax unit
 - Family members share income and plan expenditures in a way that unrelated roommates generally do not
 - · Multiple tax units within a family may also share resources
- PSZ and Auten & Splinter (2019) use tax units, and CBO (2018) uses households

Advantages of What We Do: Population Coverage

- By linking micro-level tax records to CPS, we can identify who are non-filers
- Other studies impute non-filers:
 - PSZ (2019) impute non-filers in CPS as those with sufficiently low taxable incomes – likely to be biased because survey incomes are heavily misreported, especially at very bottom
 - CBO (2018) imputes non-filers as those in CPS who do not statistically match to IRS SOI sample – but match done conditional on survey incomes, which are commonly misreported at the bottom





Advantages of What We Do: Base Income Choice

- We use market income (before taxes/transfers) as base income
 - Allows for analysis of full tax and transfer system relative to world with no taxes or transfers
- PSZ (2019) include Social Security (OASDI) and UI benefits in their pre-tax national income base
 - Doing so makes base income "...conceptually similar to what the IRS attempts to tax, as pensions, Social Security, and unemployment benefits are largely taxable" (p. 565)
- CBO (2018) also includes social insurance benefits in their base income
 - "In CBO's estimation, when analyzing the distributional effects of [Social Security and Medicare], it is more appropriate to use lifetime measures of income earned, payroll taxes paid, and benefits received." (p. 6)
 - Therefore focus on the effects of federal taxes and meanstested transfers using annual income data



Table 1: Aggregate Income and Tax Components Using
Various Tax Calculators, 2010 Tax Year, CPS Data

	Ur	1040 Universe	CPS AS	CPS ASEC Linked to Administrative Data			
	Benchmarks from IRS SOI or Other Sources	Extensive Tax Data Calculation	CPS Tax Imputation	CPS Data & TAXSIM Imputation	Limited Tax Data Imputation	Extensive Tax Data Calculation	
	(1)	(2)	(3)	(4)	(5)	(6)	
Federal income tax liability	844,600	825,300	807,600	858,700	855,500	853,600	
State income tax liability	243,400		216,800	235,500	240,700	231,600	
Payroll tax liability	435,800		461,100	470,200	450,100	430,100	
Adjusted Gross Income	8,089,000	7,892,000	7,326,000	7,394,000	8,102,000	8,234,000	
Taxable income	5,502,000	5,367,000	5,238,000	5,421,000	5,327,000	5,555,000	
Federal income tax before credits	1,065,000	1,041,000	917,100	979,100	1,017,000	1,060,000	
Earned income tax credit	59,560	59,550	40,350	34,060	59,030	59,280	
Child tax credit	56,260	54,610	45,860	44,460	52,040	54,290	
Sample size		138,900,000		170	,000		

Sources: IRS SOI line items; 2011 Current Population Survey (CPS) Annual Social and Economic Supplement (ASEC); IRS 1040, W-2, 1099-R extracts for tax year 2010; IRS extensive 2010 tax data; TAXSIM.

Payroll tax liability benchmark comes from SSA. State income tax liability benchmark comes from Census Bureau Survey of State Governments. All results were approved for release by the Census Bureau , authorization number CBDRB-FY20-ERD002-014.













· CID base income, CID taxes and benefits



	Survey Amount (1)	CID Amount (2)	(2) as a share of (1) (3)
Market income	66,970	77,880	1.16
Federal income tax liability before credits	7,961	9,273	1.16
Federal income tax credits	1,298	2,396	1.85
Payroll tax liability	4,337	4,063	0.94
State income tax liability	1,960	2,090	1.07
Cash transfers	5,275	6,495	1.23
In-kind transfers	896	1,213	1.35

(ASEC); IRS 1040, W-2, 1099-R extracts for tax year 2010; IRS extensive 2010 tax data; TAXSIM. Cash transfers encompass Social Security, SSI, Unemployment Insurance, veterans' disability compensation, workers' compensation, and public assistance. (Non-medical) in-kind transfers encompass SNAP, housing assistance, WIC, and school lunch. Worker's compensation, public assistance, WIC, and school lunch are survey values. All results were approved for release by the Census Bureau , authorization number CBDRB-FY20-ERD002-014.









































