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Income Taxes

Jerome Dumortier

15 October 2024

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Topics covered in this lecture

- Definition of income
- Income tax components
- Evaluation of income tax
- Income taxation at the state level
- Corporate income tax

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Corporate Income Tax One of the most visible and important forms of taxation for federal and state governments

Generally a progressive tax

Important source of revenue for local governments

- Major revenue source of federal and state aid to local governments
- Automatic implementation of federal exemptions/deductions at state level, i.e, changes in federal income tax policy affecting state and local revenues

Payroll taxes

Support for Social Security, Medicare, and unemployment compensation

Taxation of households and not individuals

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History of the Income Tax

Prior to 1913

- Federal revenue from taxation of goods, i.e., imported products and excise taxes
- State and local taxes from poll taxes and property taxes

16th Amendment (1909)

 "The Congress shall have power to lay and collect taxes on incomes, from whatever source derived, without apportionment among the several States, and without regard to any census or enumeration."

Income tax collection in 1913 (Source)

- Tax returns from less than 1% of the population
- Tax rate of 1%

Next slide: IRS Individual Statistical Tables by Size of Adjusted Gross Income 2020

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Income

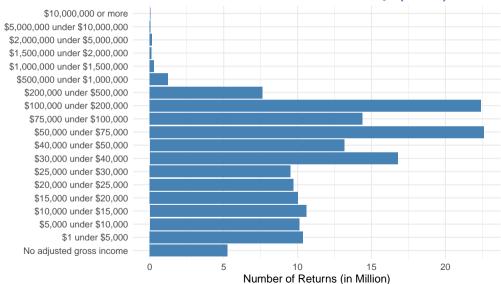
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Advantages and Disadvantages of Income Tax

Advantages

- Equity: Measurement of ability to pay and adjustable to individual circumstances
- Tax yield: Higher income (e.g., higher economic growth) results in more tax revenue
- Broad tax base: Higher amounts of revenue at socially acceptable rates

Disadvantages

- Economic effects: Discourages savings and investment
- General disconnect between taxes paid and public services provided (e.g., compared to a property tax)

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Ideal case stated by Haig-Simons (1938): Taxing a comprehensive measure of income

Income = Consumption + Δ Net Wealth

Income sources currently included

Wages and salaries, rents, interest income, dividends, realized capital gains

- Income sources currently excluded
 - Fringe benefits (to earned income), gifts, imputed income (e.g., farmer consuming crop), accrued capital gains (i.e., unrealized)
 - Interest on state and local government debt: Allows governments to borrow below market rates (e.g., 5.2% versus 8% if 35% marginal tax rate)

Question: What is the difference between realized and accrued capital gains?

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Haig-Simons versus Current Tax System

Case 1: Cullen owns stock that increased by \$10,000 but he did not sell.

- Haig-Simons definition: Income
- Current tax system: Unrealized capital gains

Case 2: Dena lives in a house she owns and consumes its services

- Haig-Simons definition: Consumption of housing service and hence, part of income
- Current tax system: No tax and thus providing incentives to purchase assets producing non-cash returns to the owner

Case 3: Kenna inherits \$50,000 from her aunt

- Haig-Simons definition: Increase in net wealth
- Current tax system: Not income since aunt paid gift/inheritance tax

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Total (gross) income to Adjusted Gross Income (AGI)

Adjustments

AGI to taxable income

- Itemized or standard deductions
- Personal exemptions for each person in the tax unit (suspended until 2025)

Taxable income to tax liability

- Tax rates and tax brackets
- Tax credits

AGI as a measure aggregate tax-bearing capacity

Adjustments

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Retirement contributions as encouragement for retirement savings

Individual Retirement Account (IRA)

Transfer payments (e.g., food stamps)

- Avoidance of unnecessary transactions, e.g., assistance to low-income households and subsequent taxation of such assistance
- Exceptions: Full taxation on unemployment benefits and assistance (e.g., Social Security) not targeted at low-income households

Other adjustments

 Alimony, job-related moves, student loan interest, self-employed health insurance payments since no tax on corporate health benefits, unrealized capital gains, fringe benefits from employers, gifts, and inheritances (to a degree)

Interests received from state and local government bonds

Income Tax Components

Expenditures outside the control of the household

- Medical and dental expenses above 7.5% of AGI
- Losses from casualty or theft above 10% of AGI
- State/local income and property taxes

Expenditures encouraged by the federal government by reducing after-tax cost of actions

- Charitable contributions
- Home mortgage interest on first and second homes

Certain job related expenses

Education, union dues, work uniforms, occupational taxes

Income Tax Components

Personal exemptions

- Flat amount for each person in household
- Adjustment for family size
- Removal of low-income families from tax system
- Suspension until 2025

Deductions and exemptions adjust ability-to-pay to individual taxpayers' circumstances

Improvement in horizontal and vertical equity

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Mechanism

• Direct deduction from tax liability

Used to stimulate private activities and encourage certain behavior

- Home energy conservation
- Child care
- Earned income tax credit (EITC) for low-income workers (decreasing percentage of earned income)

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Corporate Income Tax Average tax rate (ATR)

- Tax divided by taxable income
- Always below marginal rate

Effective tax rate (ETR)

- Tax divided by AGI
- Always below average rate

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Efficiency

Work versus leisure

- Taxation of income but not leisure
- Potential encouragement of people to work less

Savings versus consumption

- Savings (interests) are taxed twice but consumption only once
- Potential encouragement to lower savings and/or investment in real estate as opposed to financial assets

Higher efficiency loss due to higher marginal tax rate

- Trade-off between efficiency and tax progressiveness
- Trade-off between efficiency and horizontal equity for some deductions and exemptions

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New Jersey Millionaires Tax

"This paper examines the migration response to a millionaire tax in New Jersey, which raised its income tax rate on top earners by 2.6 percentage points to 8.97 percent, one of the highest tax rates in the country. [...], we estimate the migration response of millionaires to the rate increase, [...]. The results indicate little responsiveness, with semi-elasticities generally below 0.1. Tax-induced migration is estimated to be higher among people of retirement age, people living on investment income rather than wages, and people who work (and pay tax) entirely in-state. The tax is estimated to raise \$1 billion per year and modestly reduce income inequality."

Young and Varner (2011) Millionaire Migration and State Taxation of Top Incomes: Evidence from a Natural Experiment National Tax Journal 64(2), 255-284.

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Equity, Adequacy, and Elasticity

Adjustment of taxable income to adapt to ability-to-pay

- Example 1: Improvement of horizontal equity resulting from medical/dental and state/local tax deductions
- Example 2: Favoring of homeowners as opposed to renters due to home mortgage interest deduction

Vertical equity

Reduction in progressiveness due to deductions and loopholes

Adequacy

Very broad based tax and good revenue adequacy

Elasticity

• Tied directly to personal income but potential for bracket creep

Income Tax Evaluation

Setup

• Current income: \$100.000

Current federal income tax bracket: 28%

Marginal rate after \$102,000: 30%

Mechanism of bracket creep

- Inflation of 3% and salary adjustment to \$103,000
- No change in real income by higher tax liability

Removal of bracket creep

Indexation: Adjustment of marginal tax brackets to inflation

Income Tax Evaluation

Ease of administration for government

- Manageable identification of taxpayers
- Assessment and collection by individuals and/or employers through payroll deduction (withholding)
- Government's administrative costs mostly due to tax law enforcement and sample audits

Sizable taxpayer compliance costs

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Systems

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Corporate ncome Tax State tax as a percentage of federal tax liability

• Sensitive to changes in federal tax code

State tax base equal to federal taxable income

- Use of different tax rate
- Sensitive to changes in federal base but not rates

State tax base equal to federal AGI

- Use of different deductions, credits, and rates
- Reduction in sensitivity as it relates to federal changes

State tax base is unrelated to the federal tax

• Unrelated to federal system and hence, insensitive to federal changes

Flat tax rate in many states with Indiana at 3.23% of Adjusted Gross Income

Taxation at the State Level

Income

State tax liability

$$x_s = \frac{s - s \cdot f}{1 - s \cdot f} \cdot M$$

Let s and f be the federal and state tax rate, respectively. Then the federal and

Federal tax liability

$$x_f = \frac{f - s \cdot f}{1 - s \cdot f} \cdot M$$

Setup

• Taxable income: M = 60,000

state tax liability, i.e., x_{ϵ} and x_{f} , are:

• Federal tax rate: f = 0.25

• State tax rate: s = 0.05

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Corporate Income Tax Tax liability

State

$$x_s = \frac{s - s \cdot f}{1 - s \cdot f} \cdot M \Rightarrow \frac{0.05 - 0.05 \cdot 0.25}{1 - 0.05 \cdot 0.25} \cdot 60,000 = 2,279$$

Federal

$$x_f = \frac{f - s \cdot f}{1 - s \cdot f} \cdot M \Rightarrow \frac{0.25 - 0.05 \cdot 0.25}{1 - 0.05 \cdot 0.25} \cdot 60,000 = 14,430$$

• Total: \$16,709

• Average tax rate: 16,709/60,000 = 0.2785

Income Taxation at the State Level

Tax liability

State

$$s \cdot M \Rightarrow 0.05 \cdot 60,000 = 3,000$$

Federal

$$f \cdot M \Rightarrow 0.25 \cdot 60,000 = 15,000$$

- Total: \$18,000
- Average tax rate: 18,000/60,000 = 0.3

Income Taxation at the State Level

Tax liability

State

$$s \cdot M \Rightarrow 0.05 \cdot 60,000 = 3,000$$

Federal

$$f \cdot (1-s) \cdot M \Rightarrow 0.25 \cdot (1-0.05) \cdot 60,000 = 14,250$$

• Total: \$17.250

• Average tax rate: 17,250/60,000 = 0.2875

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Entities subject to corporate income tax:

- C Corporations
- Consideration of S Corporations as pass-through (to the owner) entities

Corporate income tax base: Net earnings of incorporated businesses

- Inclusion of retained earnings and dividends
- Exclusion of cost of earning income
- Exclusion of interest payments on debt

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Advantages and Disadvantages

Advantages

- Mean of taxing out-of-state owners for services consumed
- Retained earnings would not be taxed under personal income tax
- Increases progressiveness of tax

Disadvantages

- Negative effect on savings and investments
- Distortion of financing decisions, i.e., debt (tax deductible) versus equity (not tax deductible)
- Double taxation of dividends