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Federal, State and Local Revenue

Terminology

Tax Incidence

Tax Evaluation

Tax Collection Steps

Introduction to Government Revenue

Jerome Dumortier

15 October 2024

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Topics covered in this lecture

- Overview of federal, state, and local revenue over time
- Tax terminology
- Tax incidence
- Tax evaluation criteria
- Tax collection steps

Additional information from the Congressional Budget Office (CBO)

- The Distribution of Household Income and Federal Taxes, 2013
- The Distribution of Household Income, 2019

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Introduction

Purpose and consequences of government revenue

• Reallocation of scarce resources from the private sector to the public sector

Determination of consequences by method chosen to collect (and distribute) revenue

- Redistribution of tax revenue back into economy
- Effect on various demographic

Government revenue versus taxation

- Purchase of a stamp from the U.S. Postal Service
- Annual registration fee for a motor vehicle
- Income tax

Common methods to finance government activity

• Taxation, charges and fees, privatization, debt financing

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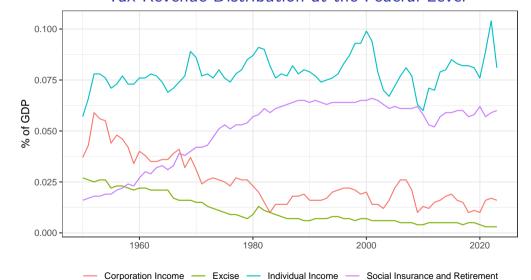
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Tax Revenue Distribution at the Federal Level



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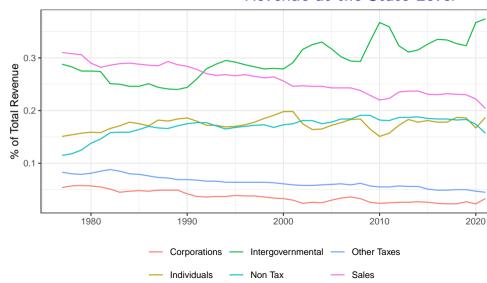
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Revenue at the State Level



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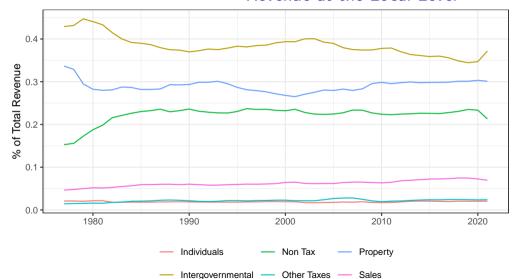
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Revenue at the Local Level



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Tax Maxims by Adam Smith (1776)

Equity: The subject of every state ought to contribute towards the support of the government, as nearly as possible, in proportion to their respective abilities; that is, in proportion to the revenue which they respectively enjoy under the protection of the state.

Certainty: The tax which each individual is bound to pay ought to be certain and not arbitrary. The time of payment, the manner of payment, the quantity to be paid, ought all to be clear and plain to the contributor, and to every other person.

Convenience: Every tax ought to be levied at the time or in the manner, in which it is most likely to be convenient for the contributor to pay it.

Economy: Every tax ought to be so contrived as both to take out and to keep out of the pockets of the people as little as possible, over and above what it brings into the public treasury of the state.

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Overview

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Taxes

- Compulsory payments associated with certain activities (e.g., earning income, owning property, purchasing goods)
- Reduction in individuals' ability to allocate resources
- Tax policy seeks to achieve that shift with the least possible economic or social harm
- Neither a price for (direct) services received nor a voluntary contribution

Tax aspects

- 1 Tax base and tax trigger
- 2 Tax rate
- 3 Tax incidence

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Tax Base and Tax Trigger

Tax base

- Item or economic activity on which tax is levied
- Examples: Income, wealth, consumption

General versus selective tax

- General tax: Taxes entire base with no exclusions or deductions
- Selective tax: Taxes a portion of the base

Tax trigger

- Activity triggering tax liability
- Determination by taxpayers' actions (e.g., income, consumption)
- Determination by government (e.g., property)

Measurement of tax base and determination of tax liability

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Definition

Rate at which the tax base is taxed

Example of base, trigger, and rate for income taxes

- Tax base: Income adjusted for exclusions, deductions, exemptions, credits
- Tax trigger: Engaging in activity that generates income
- Tax rate: Graduated schedule

Graduated schedule

Marginal tax rates

Distinction between marginal tax rate and effective tax rate

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Tax Rate Structure

Average tax rate

Tax collected divided by the dollar value of the tax base

Marginal tax rate

Change in tax collected divided by the change in the value of the tax base

Effective tax rate

Tax collected divided by the measure of ability to pay or wealth

Effective tax rate as an indicator to differentiate progressive, proportional, and regressive taxes

Income tax example on next slide: Average and effective tax rate are identical

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Numerical Example

	Α	В	С			
Income	\$ 10,000	\$ 40,000	\$ 100,000			
Proportional tax						
Tax amount	\$ 1,000	\$ 4,000	\$ 10,000			
Effective tax	10.0%	10.0%	10.0%			
Progressive tax						
Tax amount	\$ 1,000	\$ 5,000	\$ 20,000			
Effective tax	10.0%	12.5%	20.0%			
Regressive tax						
Tax amount	\$ 1,000	\$ 3,000	\$ 6,000			
Effective tax	10.0%	7.5%	6.0%			

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Marginal Tax Rate: Table

Single		Married		Tax Rate
Over	But not above	Over	But not above	
\$-	\$9,525	\$-	\$19,050	10%
\$9,526	\$38,700	\$19,051	\$77,400	12%
\$38,701	\$82,500	\$77,401	\$165,000	22%
\$82,501	\$157,500	\$165,001	\$315,000	24%
\$157,501	\$200,000	\$315,001	\$400,000	32%
\$200,001	\$500,000	\$400,001	\$600,000	35%
\$500,001		\$600,001		37%

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Marginal Tax Rate: Calculation

Situation

• Married couple with household income of \$137,000

Calculation of tax liability

$$19050 \cdot 0.1 + (77400 - 19050) \cdot 0.12 + (137000 - 77400) \cdot 0.22 = 22019$$

Results

• Tax liability: \$22,019

Marginal tax rate: 22%

Average tax rate: 16% (\$22,019 divided by income)

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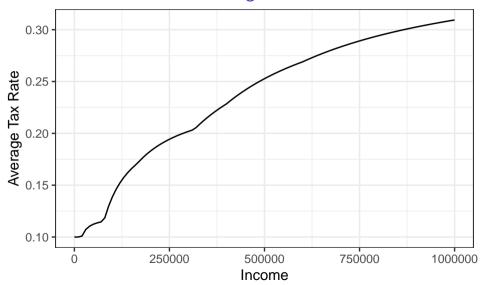
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Marginal versus Effective Rate



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Tax Collectio Steps Definition: Person paying the tax

• Examples: Property tax on rental properties or payroll tax on employer

Legal or statutory incidence

The party legally responsible for remitting the tax

Economic incidence

• Party bearing economic burden of the tax

Determinants for economic incidence

• Relative elasticity of supply and demand

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Overview of Tax Evaluation Criteria

Tax evaluation criteria

- Economic efficiency
- 2 Equity
- 3 Adequacy
- 4 Feasibility
 - Administrative feasibility
 - Political feasibility
- **5** Transparency

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Economic Efficiency

Market equilibrium as the efficient point maximizing consumer and producer surplus (i.e., social welfare)

- Production of goods most desired by consumers
- Production of goods at least cost
- Distribution of goods to consumers based on willing-to-pay

Exceptions

Instances of market failure

Potential change in market equilibrium due to taxes resulting in lower efficiency

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Equity

Assessing tax fairness with equity standards

- Multiple goals and objectives by taxing
- Equity objectives may be explicitly considered in setting a tax rate structure
- Equity considerations may represent trade-offs or unintended consequences from a tax

Equity standards

- Ability-to-pay principle
 - Horizontal equity
 - Vertical equity
- Benefits principle

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Ability-to-Pay Principle

Tax payments based on people's ability-to-pay potentially measured in terms of

- Income
- Wealth

Notions with regard to ability-to-pay principle

- Horizontal equity: People with the same ability to pay, pay the same effective tax rate.
- Vertical equity: People with different abilities to pay, pay different effective tax rates.

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Vertical Equity

Evolution of the effective tax rate

• Progressive: Increases as income increases

• Regressive: Decreases as income increases

Proportional: Constant across all income levels

Numerical example with the income of three individuals

Taxpayer A: \$10,000Taxpayer B: \$40,000

Taxpayer C: \$100,000

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Numerical Example for Vertical Equity

	А	В	С			
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Benefits Principle

Cost of good or service provided by government paid by taxpayers benefiting from said good or service

Payment of direct proportion to the benefits received

Arguments in favor of benefit principle

- Intuitive notion of fairness, i.e., those benefiting pay
- Encourages people to conserve public services

Arguments against benefit principle

- Few revenue sources satisfy a strict benefits test, i.e., it is not feasible to assign/attribute benefits from public goods to individuals
- In some cases, a person less able to pay for a service might be no less deserving of benefits

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Adequacy

Definition

• How much revenue can be generated at reasonable tax rates.

Desirable to find taxes with a broad base such as income or sales

Significant revenue from low tax rates

Cyclical considerations of tax revenue (e.g., percentage of price vs. per-unit tax on gasoline)

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Administrative Feasibility

Ease of tax collection

- Administrative costs: Government effort to collect tax
- Compliance costs: Taxpayer effort comply with tax

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Political Feasibility

Types of citizens' reaction with regard to tolerance of new taxes

- Tax intolerance: Rejection of any further levels of taxation
- Sticker shock: Lack of support due to initial tax increase
- Reasonableness: Application of standard reasonableness in assessing value received for tax

Visibility

Decrease in tax popularity tax visibility

Exportation

 Increase in tax popularity with perception of tax payment (at least partially) by outsiders of tax jurisdiction

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Taxpayer Registration and Taxable Activity

Compilation and maintenance of taxpayers information

- Social security numbers
- Taxpayer identification number
- Parcel numbers (e.g., homes)

Declaration or assessment (tabulation of taxable activity)

- Personal income tax
- Miscellaneous income
- Interest income
- Dividend and distributions

Sales tax

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Revenue, Taxpayer Accounting, and Accountability

Revenue and taxpayer accounting

- Payments must be deposited, recorded, and distributed
- Posting of return information to taxpayers

Delinquency control, compliance, and collections

- Active compliance of taxpayers: Considerable requirements and responsibilities
- Taxpayers must understand their responsibilities and have an easy source for answers

Audit

Ensure compliance with tax law