

Corporate Taxation and Tax Avoidance

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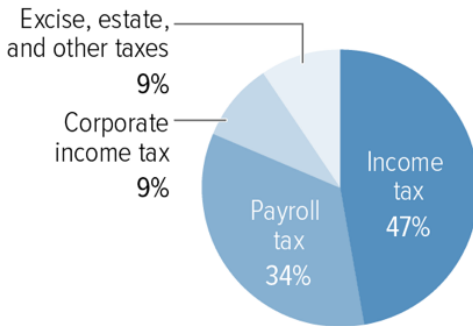
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Sources of Federal Tax Revenue, 2016



Note: "Other Taxes" category includes profits on assets held by the Federal Reserve. Figures do not total 100% due to rounding.

Source: Office of Management and Budget

CENTER ON BUDGET AND POLICY PRIORITIES | CBPP.ORG

Personal Income Tax

Single

2018 – Prior Law		2018 – New Law	
Tax Rate	If taxable income is:	Tax Rate	If taxable income is:
10%	\$0 to \$9,525	10%	\$0 to \$9,525
15%	\$9,526 to \$38,700	12%	\$9,526 to \$38,700
25%	\$38,701 to \$93,700	22%	\$38,701 to \$82,500
28%	\$93,701 to \$195,450	24%	\$82,501 to \$157,500
33%	\$195,451 to \$424,950	32%	\$157,501 to \$200,000
35%	\$424,951 to \$426,700	35%	\$200,001 to \$500,000
39.6%	\$426,701 or more	37%	\$500,001 or more

U.S. federal personal income tax rates before and after the Tax Cuts and Jobs Act (TCJA) of 2017. The table reports marginal rates.

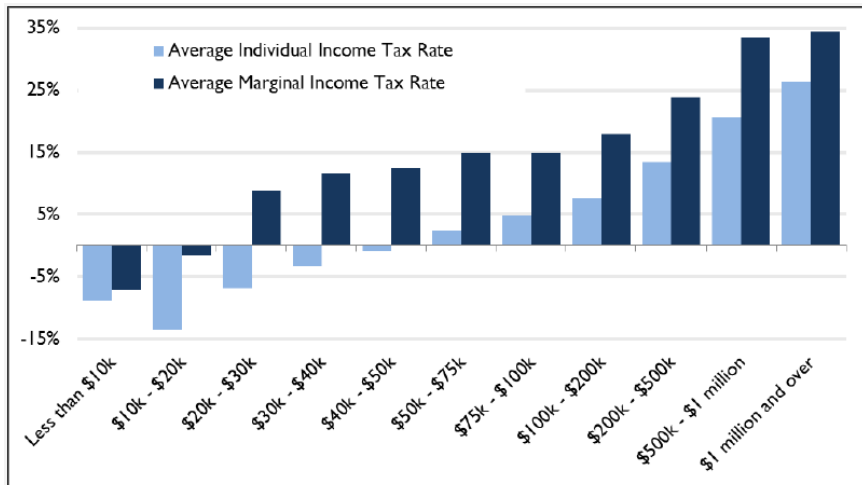
Personal Income Tax

Married Taxpayers Filing Jointly

2018 – Prior Law		2018 – New Law	
Tax Rate	If taxable income is:	Tax Rate	If taxable income is:
10%	\$0 to \$19,050	10%	\$0 to \$19,050
15%	\$19,051 to \$77,400	12%	\$19,051 to \$77,400
25%	\$77,401 to \$156,150	22%	\$77,401 to \$165,000
28%	\$156,151 to \$237,950	24%	\$165,001 to \$315,000
33%	\$237,951 to \$424,950	32%	\$315,001 to \$400,000
35%	\$424,951 to \$480,050	35%	\$400,001 to \$600,000
39.6%	\$480,051 or more	37%	\$600,001 or more

For a history of U.S. federal personal income tax rates, see [here](#).

Personal Income Tax



Source: CRS and Joint Committee on Taxation.

Capital Gains and Dividends Tax

Married Filing Jointly		Single	
Taxable Income	Tax Rate	Taxable Income	Tax Rate
Less than \$77,200	0%	Less than \$38,600	0%
\$77,200 to \$479,000	15%	\$38,600 to \$425,800	15%
Above \$479,000	20%	Above \$425,800	20%

Source: Internal Revenue Code.

Figure 1: Maximum tax rate on long-term capital gains and qualified dividends, 2018

Corporate Income Tax

Taxable Income		Tax Rate
\$	0– 50,000	15%
	50,001– 75,000	25
	75,001– 100,000	34
	100,001– 335,000	39
	335,001–10,000,000	34
	10,000,001–15,000,000	35
	15,000,001–18,333,333	38
	18,333,334+	35

U.S. federal corporate income tax rates before TCJA. The table reports marginal rates. For a history of U.S. federal corporate income tax rates, see [here](#).

Corporate Income Tax

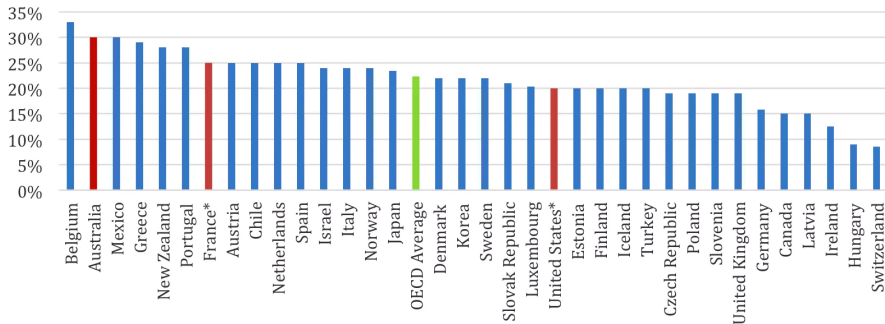
(1) Taxable Income	(2) Marginal Tax Rate	(3) Total Tax	(3)/(1) Average Tax Rate
\$ 45,000	15%	\$ 6,750	15.00%
70,000	25	12,500	17.86
95,000	34	20,550	21.63
250,000	39	80,750	32.30
1,000,000	34	340,000	34.00
17,500,000	38	6,100,000	34.86
50,000,000	35	17,500,000	35.00
100,000,000	35	35,000,000	35.00

Marginal and average tax rates before TCJA. For large U.S. corporations (taxable income > 18.3mil), both the average and marginal tax rates are 35%.

Corporate Income Tax

After TCJA, the U.S. federal corporate income tax rate is a flat 21%

Corporate income tax rate in the OECD



Corporate Income Tax

- The corporate income tax is one of the primary ways of taxing capital.
- Without the corporate income tax, the personal income tax can be dodged or postponed by individuals incorporating themselves and keeping their income within firms.
- When corporate profits are paid out, they are typically taxed at a lower rate than earned income (Figure 1), as tax authorities recognize **double taxation**.

Corporate Income Tax

Corporate tax raison d'être:

- A prepayment for the personal income tax
- A way to tax rents (such as extractive industries) and business activities that generate negative externalities
 - ▶ Tax credits can then be used as subsidies for business activities that generate positive externalities.
- A tax on foreign shareholders who benefit from the public goods provided by the country

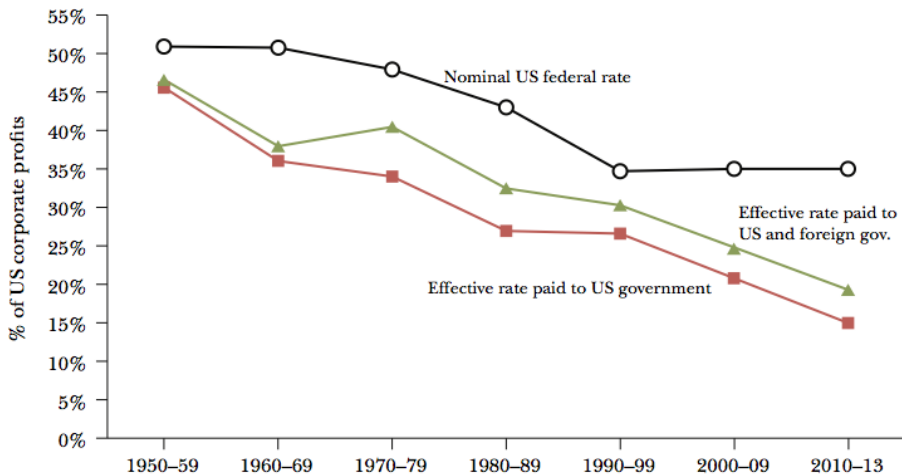
Corporate Income Tax

Because of various tax deductions and loopholes, the **effective** tax rates paid by U.S. corporations are significantly lower than the **statutory** rates.

Industry	Number of Companies	Average Tax Rate
Electric utilities (Eastern U.S.)	24	33.8%
Trucking	33	32.7
Railroad	15	27.4
Securities brokerage	30	20.5
Banking	481	17.5
Medical supplies	264	11.2
Internet	239	5.9
Pharmaceutical	337	5.6
Biotechnology	121	4.5

Effective Rates Paid by U.S. Corporations by Industry (2011)

Nominal and Effective Corporate Tax Rates on US Corporate Profits



Source: Zucman (2014)

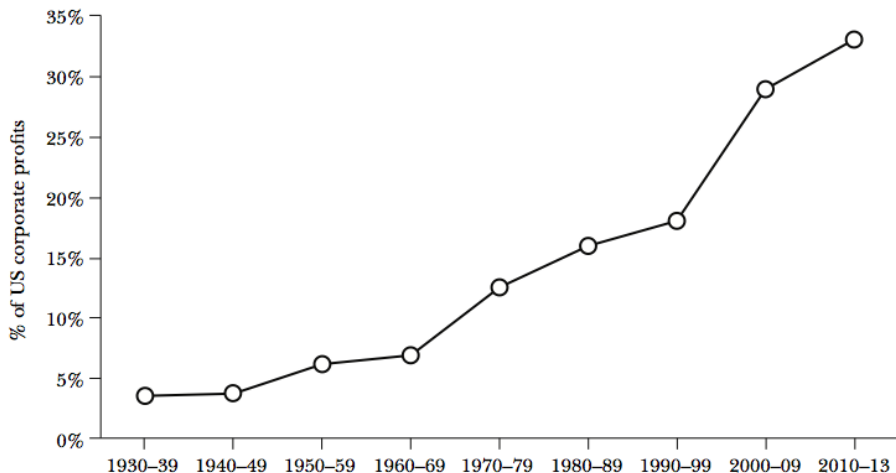
Multinationals, Profit-Shifting, and Tax Avoidance

- The practicality and enforceability of the corporate income tax is increasingly challenged by globalization today.
- Corporations can avoid paying corporate taxes by shifting their profits from high-tax jurisdictions to low-tax jurisdictions.
- The U.S. employs a worldwide tax system: U.S. corporations are in theory taxed on all income, whether derived in the U.S. or abroad.
- Profits made by foreign subsidiaries of U.S. corporations, however, are not taxed until they are repatriated to the U.S. in the form of dividends.

Multinationals, Profit-Shifting, and Tax Avoidance

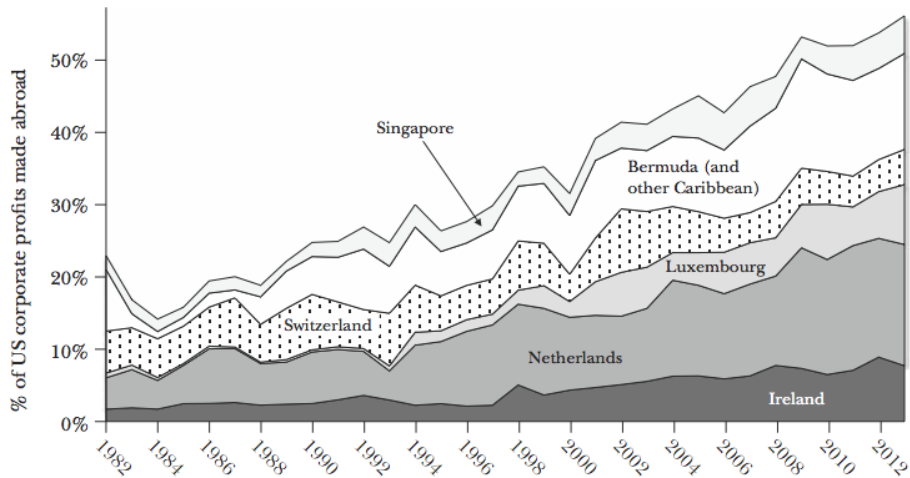
- U.S. corporations can lower their tax burden by
 - ▶ Shifting their domestic profits to low-tax foreign jurisdictions.
 - ▶ Keeping the profits of their foreign subsidiaries offshore.
- About two-thirds of the decline in the U.S. effective corporate tax rates over the last 15 years could be attributed to increased profit-shifting to tax havens such as Bermuda, Luxembourg and the Cayman Islands (Zucman, 2014).
 - ▶ An estimated 20 percent of all U.S. corporate profits are now parked in these tax havens (Zucman, 2014).

The Share of Profits Made Abroad in US Corporate Profits



Source: Zucman (2014)

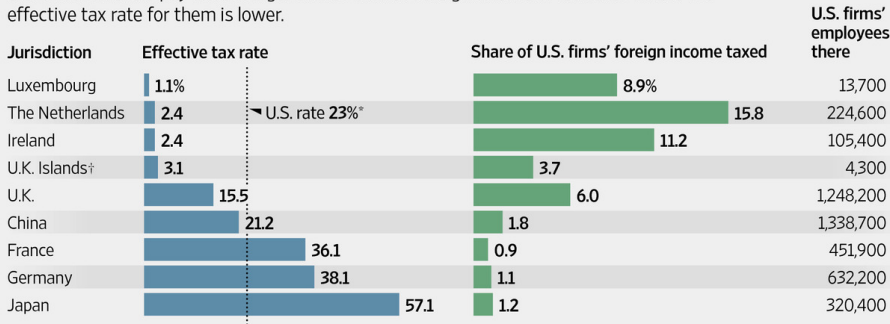
The Share of Tax Havens in US Corporate Profits Made Abroad



Source: Zucman (2014)

Tax Relief

U.S. multinationals pay tax on larger shares of their foreign income in countries where the effective tax rate for them is lower.



Note: Data for jurisdictions are for 2012. *Global effective tax rate for U.S. companies in 2010, according to GAO. †Includes Cayman Islands, British Virgin Islands, Turks and Caicos Islands and Montserrat

Sources: Bureau of Economic Analysis Government; Accountability Office (U.S. rate)

The Wall Street Journal

Caribbean/West Indies	Anguilla, Antigua and Barbuda, Aruba, Bahamas, Barbados, ^{d,e} British Virgin Islands, Cayman Islands, Dominica, Grenada, Montserrat, ^a Netherlands Antilles, St. Kitts and Nevis, St. Lucia, St. Vincent and Grenadines, Turks and Caicos, U.S. Virgin Islands ^{a,e}
Central America	Belize, Costa Rica, ^{b,c} Panama
Coast of East Asia	Hong Kong, ^{b,e} Macau, ^{a,b,e} Singapore ^b
Europe/Mediterranean	Andorra, ^a Channel Islands (Guernsey and Jersey), ^e Cyprus, ^e Gibraltar, Isle of Man, ^e Ireland, ^{a,b,e} Liechtenstein, Luxembourg, ^{a,b,e} Malta, ^e Monaco, ^a San Marino, ^{a,e} Switzerland ^{a,b}
Indian Ocean	Maldives, ^{a,d} Mauritius, ^{a,c,e} Seychelles ^{a,e}
Middle East	Bahrain, Jordan, ^{a,b} Lebanon ^{a,b}
North Atlantic	Bermuda ^e
Pacific, South Pacific	Cook Islands, Marshall Islands, ^a Samoa, Nauru, ^c Niue, ^{a,c} Tonga, ^{a,c,d} Vanuatu
West Africa	Liberia

Countries Listed on Various Tax Haven Lists. Source: Gravelle (2015)

Multinationals, Profit-Shifting, and Tax Avoidance

- A popular method of profit-shifting is through the manipulation of **transfer pricing**, the setting of prices at which companies exchange goods and services internally.
 - ▶ Consider a corporation, USCo, that grows coffee beans in Brazil at a cost of \$1/lb and sells them for \$12/lb in the U.S. The company has a subsidiary, BrazilCo, in Brazil.
 - ▶ To avoid paying taxes in either the U.S. or Brazil, USCo could set up another subsidiary, BermudaCo, in Bermuda and have BrazilCo sell beans to BermudaCo for \$1/lb, who would in turn sell them to USCo for \$12/lb.
 - ▶ Both USCo and BrazilCo would record zero profits, while BermudaCo earns \$11/lb in profits but is subject to zero corporate income tax.

Multinationals, Profit-Shifting, and Tax Avoidance

- In practice, to prevent profit-shifting, transfer pricing is required to obey the **arm's length principle**: prices of goods and services traded by related companies must be based on market prices.
- **Intangibles**, such as patents and licenses, however, are hard to value as relevant market prices may not exist.
 - ▶ USCo could transfer its patent on coffee growing technology to BermudaCo and have BrazilCo pay royalties to BermudaCo for its usage.

Multinationals, Profit-Shifting, and Tax Avoidance

- Profit-shifting could also be achieved via **debt reallocation**, through which a corporation would hold the majority of its debt in high-tax jurisdictions to lower its taxable income in those jurisdictions through deductible interest expenses.
- Another popular method of profit-shifting is through intragroup loans, whereby subsidiaries in low-tax jurisdictions grant loans to subsidiaries in high-tax jurisdictions, a practice known as **earnings stripping**.
- The existence of thousands of bilateral tax treaties between countries has also created a web of inconsistent rules that corporations can exploit by choosing the location of their affiliates, a practice known as **treaty shopping**.

Reference



Gravelle, J. G. 2015. "Tax Havens: International Tax Avoidance and Evasion," Congressional Research Service report, R40623.



KPMG. 2018. "Tax Reform - KPMG Report on New Tax Law," KPMG LLP.



Sherlock, M. F. and D. J. Marples. 2018. "Overview of the Federal Tax System in 2018," Congressional Research Service report, R45145.



Zucman, G. 2014. "Taxing across Borders: Tracking Personal Wealth and Corporate Profits," *Journal of Economic Perspectives*, 28(4).