Total state and local business taxes

State-by-state estimates for FY18

October 2019







STATE TAX RESEARCH INST



Executive summary

This study presents detailed state-by-state estimates of the state and local taxes paid by businesses for FY18. It is the 17th annual report prepared by Ernst & Young LLP in conjunction with the Council On State Taxation (COST) and the State Tax Research Institute (STRI).

Businesses paid more than \$781 billion in state and local taxes in FY18, an increase of 6.1% from FY17. State business taxes increased by 7.1%, and local business taxes grew by 5.1%. In FY18, business tax revenue accounted for approximately 43.5% of all state and local tax revenue.

The state and local business tax estimates presented in this study reflect tax collections from July 2017 through June 2018 in most states.¹ These include business property taxes; sales and excise taxes paid by businesses on their input purchases and capital expenditures; gross receipts taxes; corporate income and franchise taxes; business and corporate license taxes; unemployment insurance taxes; individual income taxes paid by owners of noncorporate (pass-through) businesses; and other state and local taxes that are the statutory liability of business taxpayers.

Key findings of the study include that:

- Business property tax revenue increased by 5.2% in FY18, a gain of \$14.6 billion. Property taxes remain by far the largest state and local tax paid by businesses, accounting for 38.0% of the total state and local taxes they paid. Property taxes are also by far the largest local tax paid by businesses, representing 76.2% of all *local* taxes they paid.
- General sales taxes on business inputs and capital investment totaled \$166.9 billion, or 21.4% of state and local business taxes. These sales taxes paid by businesses increased by 5.6% in FY18.² Sales taxes on business inputs are the largest *state* tax paid by businesses (31.6% of all state taxes paid by businesses).

- Corporate income taxes rose after two consecutive years of decline, largely because of the enactment of federal tax reform (the Tax Cuts and Jobs Act, or TCJA) in December 2017 that increased taxable income in many states. In FY18, state and local corporate income taxes totaled \$66.2 billion, or 8.5% of all state and local business taxes, up 6.7% from FY17. The increase relating to state conformity with federal tax reform reflects the impact of only one-half of a year of revenues (the first six months of 2018) and can be expected to rise even more in FY19. Certain statewide gross receipts taxes levied in lieu of corporate income taxes are included in this measure.
- Individual income taxes on pass-through business income accounted for 6.4% of total state and local business taxes. State and local individual income taxes on business income increased by 15.7% from FY17. Approximately half of the \$6.7 billion increase in individual income taxes on pass-through business income was concentrated in two states – California and New York. Since these states' fiscal years end in March or June, the impact of TCJA on FY18 individual income tax revenue was limited.
- Severance taxes increased from \$8.9 billion in FY17 to \$12.7 billion in FY18, an increase of 42.2%. A majority of the increase in severance taxes occurred in Texas, following higher oil prices during FY18.
- FY18 state and local business taxes were equal to 4.7% of the total US private-sector gross state product (GSP), which measures the total value of a state's annual private-sector production of goods and services. There was substantial variation across states, with taxes ranging from 3.4% to 9.0% of private-sector GSP.
- On average, businesses are continuing to pay more in state and local taxes than they receive in benefits. For FY18, businesses paid \$3.28 of taxes for every dollar of government spending benefiting businesses, on average, assuming that in-state education spending does not benefit in-state businesses. Under an alternate assumption, that half of in-state education spending benefits in-state businesses, businesses paid \$1.17 for every dollar of government spending benefiting businesses.

Total state and local business taxes in FY18

Businesses paid \$781.5 billion in total state and local taxes in FY18, as presented in Table 1.³ This section describes the business taxes in more detail and highlights the key results.

- As shown in Table 1 and Figure 1b, property tax revenue on real and personal property owned by businesses accounts for the largest share of total state and local business tax revenue – 38.0% (or \$297.3 billion) in FY18. Business property tax revenue increased by 5.2% in FY18, the sixth time since FY09 that the growth rate has been substantially higher than 1%. Figure 2 shows business property tax revenue as a share of total property tax revenue in FY18. Of the \$547.8 billion of total property tax revenue, 54% (\$297.3 billion) of the collections were taxes on business property.
- General sales and use tax revenue derived from businesses on purchases of inputs, including capital equipment, totaled \$166.9 billion, or 21.4% of all state and local business taxes. General sales and use tax revenue derived from business increased 5.6% overall. Sales and use taxes collected on sales to final consumers are excluded; only the taxes paid on businesses' operating inputs and capital equipment purchases are included in the total business tax estimates.⁴ Figure 2 displays general sales tax revenue on business inputs as a share of total state and local general sales tax revenue. In FY18, 42% of total sales tax revenue was from sales tax on business inputs.

Table 1: Total State and Local Business Taxes, FY17-18 (\$ billions)

Business tax	FY17	FY18	2018 % total taxes	One-year change
Property taxes on business property	\$282.7	\$297.3	38.0%	5.2%
General sales taxes on business inputs	158.1	166.9	21.4%	5.6%
Corporate income tax	62.0	66.2	8.5%	6.7%
Individual income tax on business income	43.0	49.7	6.4%	15.7%
Excise taxes	43.2	48.3	6.2%	11.9%
Unemployment insurance	40.1	38.1	4.9%	-5.0%
Business and corporate license	37.0	37.9	4.8%	2.2%
Public utility taxes	25.5	25.8	3.3%	1.2%
Insurance premium taxes	21.8	23.4	3.0%	7.1%
Severance taxes	8.9	12.7	1.6%	42.2%
Other business taxes	13.9	15.1	1.9%	8.8%
Total state and local business taxes	\$736.4	\$781.5	100.0%	6.1%

Note: FY17 tax estimates are revised from the COST FY17 study because of newly released data from the U.S. Census Bureau (see Appendix for more information). Amounts may not sum because of rounding.



- State and local corporate income tax revenue was \$66.2 billion in FY18, an increase of 6.7% from FY17. Federal tax reform is expected to significantly impact state corporate income tax collections due to the federal TCJA, which was signed into law in December 2017 and impacted state corporate income tax collections in FY18. The TCJA's provisions expanded taxable corporate income at the federal level, which broadened the tax base in many states and is expected to increase corporate income tax collections for several years. Most of the TCJA provisions that states conformed to take effect in tax years beginning on or after January 1, 2018, which was halfway through FY18 for most states. Thus, the impact of the expanded corporate tax base is only partially reflected in FY18 revenues.⁵ Corporate income taxes remain a relatively small percentage of total state and local tax collections from both businesses and households (see Figure 1a and Appendix Table A4).
- Ohio's commercial activity tax, Texas' margin tax, New Hampshire's business enterprise tax, Nevada's commerce tax, and Washington's business and occupation tax are included in corporate income tax revenue. These taxes are based on gross receipts or modified gross receipts and constitute the primary business entity tax in each state. Corporate income taxes remain a relatively small percentage of total state and local tax collections, from both businesses and households (see Figure 1a and Appendix Table A4).
- Individual income taxes paid by owners of pass-through entities (e.g., partnerships, sole proprietorships, limited liability companies and S corporations) totaled an estimated \$49.7 billion in FY18, an increase of 15.7% from FY17. At the federal level, taxpayers reporting pass-through entity income are entitled to a deduction equal to 20% of their pass-through income, but most states do not conform to this provision. A majority of the increase in individual income taxes on passthrough income occurred in California and New York. Individual income taxes from pass-through business income represent 6.4% of total state and local business taxes.

Figure 1a: Composition of total state and local taxes on businesses and households, FY18

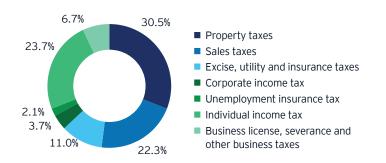
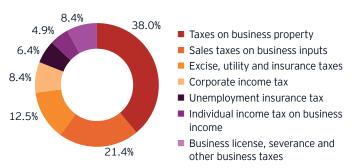


Figure 1b: Composition of total state and local business taxes, FY18



Note: amounts may not sum because of rounding.



- Excise taxes paid by businesses totaled an estimated \$48.3 billion in FY18. Excise taxes attributed to businesses include a portion of motor fuel taxes and other excise taxes, such as taxes on hotel and rental car expenditures by businesses, as well as health care provider taxes on the revenue of hospitals and other providers of health services.
- Employer contributions to unemployment insurance (unemployment taxes) were \$38.1 billion in FY18, a decrease of \$2.0 billion, or 5.0%, from FY17. This is the fifth year that unemployment tax collections have declined since FY08, a result of most states having replenished their unemployment insurance funds and paid outstanding debts to the federal government. Declining unemployment tax revenues in New York, New Jersey, North Carolina and Florida accounted for over \$1.3 billion of the cumulative \$2.0 billion decrease.
- Business and corporate license tax revenue totaled \$37.9 billion, an increase of 2.2% from FY17. In FY18, business and corporate license tax revenue contributed to 4.8% of total state and local business tax collections.

- Public utility tax revenue declined for five years (from FY12 to FY17), but then increased by 1.2% to \$25.8 billion in FY18 because of significant increases in Florida and Nevada. These taxes are generally based on business gross receipts, and because they are often levied in lieu of property or corporate income taxes, they are allocated solely to businesses.
- Taxes on insurance premiums totaled \$23.4 billion in FY18, an increase of 7.1% from FY17.
- State and local severance taxes increased by \$3.8 billion, or 42.2%, in FY18 to \$12.7 billion. Texas, North Dakota and Alaska account for most of the increase, with Texas providing \$2.0 billion of it. Severance taxes declined in Kentucky, South Dakota and Arkansas.
- Other state and local business taxes, including motor vehicle license tax and documentary and stock transfer tax, totaled \$15.1 billion in FY18, an 8.8% increase from the previous year.

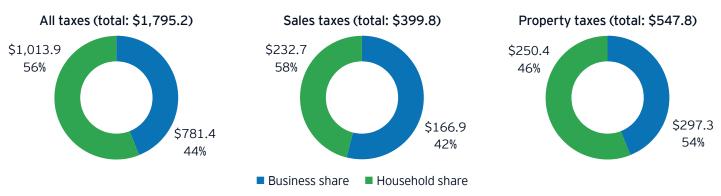


Figure 2: State and local business taxes (\$ billions) as a share of total tax collections – FY18

Note: amounts may not sum because of rounding.

Classifying business taxes

This study generally defines business taxes as those that are the legal liability of businesses. Certain taxes collected by businesses, such as excise taxes on tobacco and alcohol, and sales taxes on household purchases are not included. In addition, individual income tax on pass-through business income is included as a legal tax liability of business owners. The business taxes included in this analysis are:

- Property taxes paid by businesses on real and personal property; taxes on income-generating, residential rental property are treated as business taxes
- General sales taxes paid by businesses on purchases of goods and services used in production; sales taxes on final goods paid by consumers are not included
- A portion of excise taxes, such as businesses' share of motor fuel taxes and other selective sales taxes
- Corporate income taxes
- Taxes on insurance premiums and utility gross receipts, which are in some cases levied in lieu of other business entity taxes
- Individual income taxes on pass-through business income; taxes withheld on employee earnings are not considered business taxes

- Unemployment insurance (UI) taxes paid by employers
- Business licenses, including general business licenses, specific industry and occupational licenses, and commercial motor vehicle licenses
- Severance taxes on mining, natural gas, oil and other natural resources

In most states, the corporate income tax is the primary tax levied specifically on business entities, but other types of taxes are used in several states. Nevada, Ohio, Texas and Washington levy a tax based on gross receipts in place of a traditional corporate income tax. In addition, New Hampshire's business enterprise tax is levied on a value-added base rather than income. This analysis considers gross receipts and value-added business entity taxes as corporate income tax revenue since the taxes act as an alternative to the corporate income tax in these states. Many states also levy franchise taxes based on the capital stock or net worth of a business. As shown in Table 1 and figures 1a and 1b, businesses pay more in property and sales taxes than they do in specific corporate income, franchise or gross receipts taxes.



State vs. local business taxes in FY18

State business tax revenue grew by a higher percentage than local business tax revenue between FY17 and FY18. Tables 2a and 2b provide dollar amounts, percentage distributions and growth rates in FY18 for total business taxes at the state and local levels of government. Total state and local business tax revenues increased by \$45.1 billion in FY18, after growing by \$14.8 billion in FY17 from the prior fiscal year (see Appendix Table A2). In FY18, state business tax revenue grew by 7.1%, and local business tax revenue grew by 5.1%.

At the state level, business tax revenue increased by 7.1%, or \$26.9 billion, from FY17 to FY18. Sales taxes on business inputs, which made up 31.6% of state business tax revenue in FY18, increased by 5.4%, or \$6.6 billion, from FY17. Severance taxes increased by \$3.7 billion, an increase of 42.5% in FY18. Corporate income taxes increased 7.1%, while individual income taxes on pass-through business income increased 16.3% in FY18. Unemployment insurance tax revenue decreased by \$2.0 billion in FY18. The largest local tax that businesses pay, business property taxes, increased by about \$14.0 billion, or 5.2%, from FY17 to FY18. Local sales taxes on business inputs increased by 6.2%, while excise taxes increased by 5.1% and public utility taxes by 2.4%. Local business taxes grew by a total of \$18.3 billion in FY18.

Tables 2a and 2b demonstrate that the composition of state business taxes differs significantly from business taxes at the local level. Table 2a shows the percentage distribution of state business taxes by tax type; Table 2b shows the distribution of local business taxes by tax type. While state business tax revenues draw on a relatively broad set of sources, local governments rely heavily on property tax revenue, which made up 76.2% of local business taxes in FY18. The largest business tax at the state level – the sales and use tax – accounted for 31.6% of state business tax revenue in FY18.





Table 2a: State Business Taxes, FY17-18 (\$ billions)

Business tax	State business taxes, FY17	State business taxes, FY18	% total state business taxes	One-year growth, state business taxes
General sales and use tax on inputs	\$121.9	\$128.5	31.6%	5.4%
Corporate net income	\$54.2	\$58.1	14.3%	7.1%
Individual income tax	\$39.2	\$45.6	11.2%	16.3%
Excise taxes on business inputs	\$35.7	\$40.5	10.0%	13.3%
Unemployment insurance	\$40.1	\$38.1	9.4%	-5.0%
Business license tax	\$24.0	\$24.4	6.0%	1.6%
Insurance premium tax	\$21.0	\$22.5	5.5%	7.2%
Severance taxes	\$8.9	\$12.6	3.1%	42.5%
Public utility tax	\$12.6	\$12.5	3.1%	-0.1%
Property tax on business property	\$10.9	\$11.5	2.8%	4.9%
Other business taxes	\$11.1	\$12.1	3.0%	9.8%
Total state business taxes	\$379.6	\$406.5	100.0%	7.1%

Note: amounts may not sum because of rounding.

Source: Ernst & Young LLP estimates based on data from the U.S. Census Bureau Annual Survey of State and Local Government Finances.

Table 2b: Local Business Taxes, FY17-18 (\$ billions)

Business tax	Local business taxes, FY17	Local business taxes, FY18	% total local business taxes	One-year growth, local business taxes
Property taxes on business property	\$271.8	\$285.8	76.2%	5.2%
General sales taxes on business inputs	\$36.2	\$38.4	10.2%	6.2%
Public utility taxes	\$12.9	\$13.2	3.5%	2.4%
Excise taxes on business inputs	\$7.5	\$7.9	2.1%	5.1%
Other business taxes*	\$28.4	\$29.6	7.9%	4.5%
Total local business taxes	\$356.7	\$375.0	100.0%	5.1%

* Includes local corporate income taxes.

Note: amounts may not sum because of rounding.

State-by-state business tax collections

Figure 3 shows the state-by-state change in total state and local business taxes between FY17 and FY18. States with significant tax changes in FY18 and trends in business tax collections are described below.

- Rhode Island saw the largest decline in business taxes, with a 2.1% decline in FY18. Corporate income taxes declined 9% in Rhode Island.
- On the other end of the spectrum, Alaska had the largest increase in state and local business tax collections, with a 25.2% increase, followed by North Dakota, with a 22.4% increase. In both states, the increase was due to severance tax revenue.
- In 2018, business property taxes increased substantially for the eighth year in a row since 2010. Almost half of the \$14.6 billion in increased property tax revenue came from gains in four large states: Texas (\$2.4 billion), California (\$1.8 billion), New York (\$1.4 billion) and Florida (\$1 billion). Nationally, business property tax revenue increased by an average of 5.2%, but for 36 states, this revenue grew at a slower rate. Texas had the largest dollar increase in business property tax revenue, collecting \$2.4 billion more than in 2017. Washington had the highest growth rate for business property tax revenue, increasing by 12.2%.

- Indiana's corporate income tax revenue fell by 32% between FY17 and FY18. The state's rate decreased from 6.5% to 6.0% in FY18 and is set to decrease by at least a quarter of a percentage point each year through 2021 until it reaches 4.9%.
- Connecticut's corporate income tax revenue declined by 13.3% in FY18 after the corporate tax surcharge decreased from 20% to 10%.
- Nationally, state and local business tax revenue derived from individual income tax on pass-through income increased by 15.7% in FY18.
- Gains in sales tax collections on business inputs were concentrated in Florida and Texas, with each state seeing increases over \$2 billion. Of the 45 states with a state sales tax, 34 experienced an increase in sales tax collections.

Table 3 presents state and local business tax collections by tax type and state. The results show that states vary widely in the composition of their business tax structures, which has implications for revenue growth and stability in each state. Appendix Table A3 presents the percentage composition by tax type for each of the 50 states and the District of Columbia.

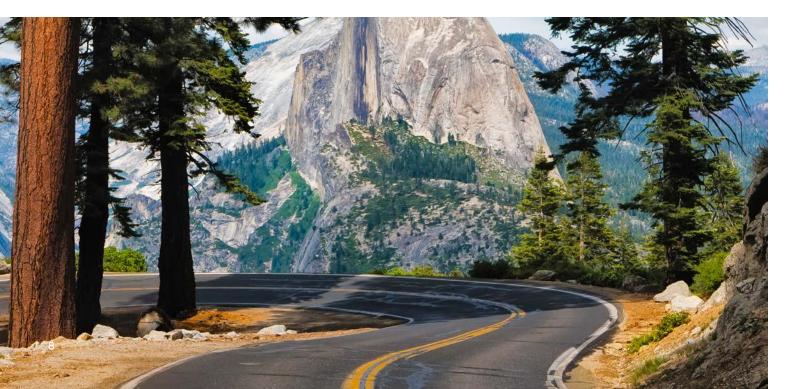




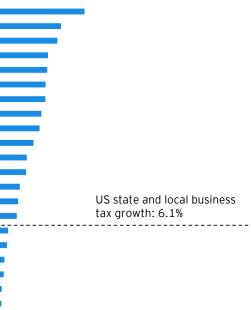
Figure 3: Change in state and local business taxes by state, FY17-18

(Percentage change in total state and local business taxes)

Alaska, 25.2% North Dakota, 22.4% New Hampshire, 14.3% Oklahoma, 12.9% Texas, 10.8% Nevada, 10.5% Florida, 9.7% Arizona, 9.6% Colorado, 9.4% Wyoming, 9.4% Montana, 9.1% Connecticut, 8.9% California, 8.4% Washington, 7.8% West Virginia, 7.7% South Dakota, 7.1% South Carolina, 7.0% District of Columbia, 6.9% Massachusetts, 5.8% New Jersey, 5.7% Kansas, 5.5% Hawaii, 5.5% Delaware, 5.3% Alabama, 5.2% Michigan, 4.9% New York, 4.8% Georgia, 4.8% Nebraska, 4.7% Minnesota, 4.2% Minnesota, 4.2% Michigan, 3.7% Virginia, 3.7% Louisiana, 3.5% Maryland, 3.3% Tennessee, 3.0% Mississippi, 2.9% Arkansas, 2.6% Utah, 2.4% Missouri, 2.4% Missouri, 2.4% North Carolina, 1.3% Kentucky, 1.1% Illinois, 1.1% Ohio, -0.5% New Mexico, -2.0% Rhode Island, -2.1%		7
New Hampshire, 14.3% Oklahoma, 12.9% Texas, 10.8% Nevada, 10.5% Florida, 9.7% Arizona, 9.6% Colorado, 9.4% Wyoming, 9.4% Montana, 9.1% Connecticut, 8.9% California, 8.4% Washington, 7.8% West Virginia, 7.7% South Dakota, 7.1% South Carolina, 7.0% District of Columbia, 6.9% Massachusetts, 5.8% New Jersey, 5.7% Kansas, 5.5% Hawaii, 5.5% Delaware, 5.3% Alabama, 5.2% Michigan, 4.9% New York, 4.8% Georgia, 4.8% Nebraska, 4.7% Minnesota, 4.2% Maine, 4.1% Vermont, 4.0% Indiana, 3.7% Urginia, 3.7% Louisiana, 3.5% Maryland, 3.3% Tennessee, 3.0% Mississippi, 2.9% Arkansas, 2.6% Utah, 2.4% Missouri, 2.4% Oregon, 2.1% Wisconsin, 1.8% North Carolina, 1.3% Kentucky, 1.1% Illinois, 1.1% Ohio, -0.5% New Mexico, -2.0%	Alaska, 25.2%	_
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Washington, 7.8% West Virginia, 7.7% South Dakota, 7.1% South Carolina, 7.0% District of Columbia, 6.9% Idaño, 6.1% Pennsylvania, 6.0% Massachusetts, 5.8% New Jersey, 5.7% Kansas, 5.5% Hawaii, 5.5% Delaware, 5.3% Alabama, 5.2% Michigan, 4.9% New York, 4.8% Georgia, 4.8% Nebraska, 4.7% Minnesota, 4.2% Maine, 4.1% Vermont, 4.0% Indiana, 3.7% Virginia, 3.7% Louisiana, 3.5% Maryland, 3.3% Tennessee, 3.0% Mississippi, 2.9% Arkansas, 2.6% Utah, 2.4% Missouri, 2.4% Oregon, 2.1% Wisconsin, 1.8% North Carolina, 1.3% Kentucky, 1.1% Illinois, 1.1% Ohio, -0.5% New Mexico, -2.0%		_
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Idaho, 6.1% Pennsylvania, 6.0% Massachusetts, 5.8% New Jersey, 5.7% Kansas, 5.5% Hawaii, 5.5% Delaware, 5.3% Alabama, 5.2% Michigan, 4.9% New York, 4.8% Georgia, 4.8% Nebraska, 4.7% Minnesota, 4.2% Maine, 4.1% Vermont, 4.0% Indiana, 3.7% Virginia, 3.7% Louisiana, 3.5% Maryland, 3.3% Tennessee, 3.0% Mississippi, 2.9% Arkansas, 2.6% Utah, 2.4% Missouri, 2.4% Missouri, 2.4% Missouri, 1.8% North Carolina, 1.3% Kentucky, 1.1% Illinois, 1.1% Ohio, -0.5% New Mexico, -2.0%		-
Pennsylvania, 6.0% Massachusetts, 5.8% New Jersey, 5.7% Kansas, 5.5% Hawaii, 5.5% Delaware, 5.3% Alabama, 5.2% Michigan, 4.9% New York, 4.8% Georgia, 4.8% Nebraska, 4.7% Minnesota, 4.2% Maine, 4.1% Vermont, 4.0% Indiana, 3.7% Virginia, 3.7% Louisiana, 3.5% Maryland, 3.3% Tennessee, 3.0% Mississippi, 2.9% Arkansas, 2.6% Utah, 2.4% Missouri, 2.4% Missouri, 2.4% Missouri, 2.4% North Carolina, 1.3% Kentucky, 1.1% Illinois, 1.1% Ohio, -0.5% New Mexico, -2.0%		
Massachusetts, 5.8% New Jersey, 5.7% Kansas, 5.5% Hawaii, 5.5% Delaware, 5.3% Alabama, 5.2% Michigan, 4.9% New York, 4.8% Georgia, 4.8% Nebraska, 4.7% Minnesota, 4.2% Maine, 4.1% Vermont, 4.0% Indiana, 3.7% Virginia, 3.7% Louisiana, 3.5% Maryland, 3.3% Tennessee, 3.0% Mississippi, 2.9% Arkansas, 2.6% Utah, 2.4% Missouri, 2.4% Oregon, 2.1% Wisconsin, 1.8% North Carolina, 1.3% Kentucky, 1.1% Illinois, 1.1% Ohio, -0.5% New Mexico, -2.0%		_
New Jersey, 5.7% Kansas, 5.5% Hawaii, 5.5% Delaware, 5.3% Alabama, 5.2% Michigan, 4.9% New York, 4.8% Georgia, 4.8% Nebraska, 4.7% Minnesota, 4.2% Maine, 4.1% Vermont, 4.0% Indiana, 3.7% Virginia, 3.7% Louisiana, 3.5% Maryland, 3.3% Tennessee, 3.0% Mississippi, 2.9% Arkansas, 2.6% Utah, 2.4% Missouri, 2.4% Missouri, 2.4% Missouri, 2.4% North Carolina, 1.3% Kentucky, 1.1% Illinois, 1.1% Ohio, -0.5% New Mexico, -2.0%	, ,	-
Kansas, 5.5% Hawaii, 5.5% Delaware, 5.3% Alabama, 5.2% Michigan, 4.9% New York, 4.8% Georgia, 4.8% Nebraska, 4.7% Minnesota, 4.2% Maine, 4.1% Vermont, 4.0% Indiana, 3.7% Virginia, 3.7% Louisiana, 3.5% Maryland, 3.3% Iowa, 3.3% Tennessee, 3.0% Mississippi, 2.9% Arkansas, 2.6% Utah, 2.4% Missouri, 2.4% Oregon, 2.1% Wisconsin, 1.8% North Carolina, 1.3% Kentucky, 1.1% Illinois, 1.1% Ohio, -0.5% New Mexico, -2.0%		-
Hawaii, 5.5% Delaware, 5.3% Alabama, 5.2% Michigan, 4.9% New York, 4.8% Georgia, 4.8% Nebraska, 4.7% Minnesota, 4.2% Maine, 4.1% Vermont, 4.0% Indiana, 3.7% Virginia, 3.7% Louisiana, 3.5% Maryland, 3.3% Iowa, 3.3% Tennessee, 3.0% Mississippi, 2.9% Arkansas, 2.6% Utah, 2.4% Missouri, 2.4% Oregon, 2.1% Wisconsin, 1.8% North Carolina, 1.3% Kentucky, 1.1% Illinois, 1.1% Ohio, -0.5% New Mexico, -2.0%		-
Delaware, 5.3% Alabama, 5.2% Michigan, 4.9% New York, 4.8% Georgia, 4.8% Nebraska, 4.7% Minnesota, 4.2% Maine, 4.1% Vermont, 4.0% Indiana, 3.7% Virginia, 3.7% Louisiana, 3.5% Maryland, 3.3% Iowa, 3.3% Tennessee, 3.0% Mississippi, 2.9% Arkansas, 2.6% Utah, 2.4% Missouri, 2.4% Oregon, 2.1% Wisconsin, 1.8% North Carolina, 1.3% Kentucky, 1.1% Illinois, 1.1% Ohio, -0.5% New Mexico, -2.0%		-
Alabama, 5.2% Michigan, 4.9% New York, 4.8% Georgia, 4.8% Nebraska, 4.7% Minnesota, 4.2% Maine, 4.1% Vermont, 4.0% Indiana, 3.7% Virginia, 3.7% Louisiana, 3.5% Maryland, 3.3% Iowa, 3.3% Tennessee, 3.0% Mississippi, 2.9% Arkansas, 2.6% Utah, 2.4% Missouri, 2.4% Oregon, 2.1% Wisconsin, 1.8% North Carolina, 1.3% Kentucky, 1.1% Illinois, 1.1% Ohio, -0.5% New Mexico, -2.0%		-
Michigan, 4.9% New York, 4.8% Georgia, 4.8% Nebraska, 4.7% Minnesota, 4.2% Maine, 4.1% Vermont, 4.0% Indiana, 3.7% Virginia, 3.7% Louisiana, 3.5% Maryland, 3.3% Tennessee, 3.0% Mississippi, 2.9% Arkansas, 2.6% Utah, 2.4% Missouri, 2.4% Oregon, 2.1% Wisconsin, 1.8% North Carolina, 1.3% Kentucky, 1.1% Illinois, 1.1% Ohio, -0.5% New Mexico, -2.0%		-
New York, 4.8% Georgia, 4.8% Nebraska, 4.7% Minnesota, 4.2% Maine, 4.1% Vermont, 4.0% Indiana, 3.7% Virginia, 3.7% Louisiana, 3.5% Maryland, 3.3% Tennessee, 3.0% Mississippi, 2.9% Arkansas, 2.6% Utah, 2.4% Missouri, 2.4% Oregon, 2.1% Wisconsin, 1.8% North Carolina, 1.3% Kentucky, 1.1% Illinois, 1.1% Ohio, -0.5% New Mexico, -2.0%		-
Georgia, 4.8% Nebraska, 4.7% Minnesota, 4.2% Maine, 4.1% Vermont, 4.0% Indiana, 3.7% Virginia, 3.7% Louisiana, 3.5% Maryland, 3.3% Tennessee, 3.0% Mississippi, 2.9% Arkansas, 2.6% Utah, 2.4% Missouri, 2.4% Oregon, 2.1% Wisconsin, 1.8% North Carolina, 1.3% Kentucky, 1.1% Illinois, 1.1% Ohio, -0.5% New Mexico, -2.0%		-
Nebraska, 4.7% Minnesota, 4.2% Maine, 4.1% Vermont, 4.0% Indiana, 3.7% Virginia, 3.7% Louisiana, 3.5% Maryland, 3.3% Tennessee, 3.0% Mississippi, 2.9% Arkansas, 2.6% Utah, 2.4% Missouri, 2.4% Oregon, 2.1% Wisconsin, 1.8% North Carolina, 1.3% Kentucky, 1.1% Illinois, 1.1% Ohio, -0.5% New Mexico, -2.0%		-
Minnesota, 4.2% Maine, 4.1% Vermont, 4.0% Indiana, 3.7% Virginia, 3.7% Louisiana, 3.5% Maryland, 3.3% Iowa, 3.3% Tennessee, 3.0% Mississippi, 2.9% Arkansas, 2.6% Utah, 2.4% Missouri, 2.4% Oregon, 2.1% Wisconsin, 1.8% North Carolina, 1.3% Kentucky, 1.1% Illinois, 1.1% Ohio, -0.5% New Mexico, -2.0%		-
Maine, 4.1% Vermont, 4.0% Indiana, 3.7% Virginia, 3.7% Louisiana, 3.5% Maryland, 3.3% Iowa, 3.3% Tennessee, 3.0% Mississippi, 2.9% Arkansas, 2.6% Utah, 2.4% Missouri, 2.4% Oregon, 2.1% Wisconsin, 1.8% North Carolina, 1.3% Kentucky, 1.1% Illinois, 1.1% Ohio, -0.5% New Mexico, -2.0%		-
Vermont, 4.0% Indiana, 3.7% Virginia, 3.7% Louisiana, 3.5% Maryland, 3.3% Iowa, 3.3% Tennessee, 3.0% Mississippi, 2.9% Arkansas, 2.6% Utah, 2.4% Missouri, 2.4% Oregon, 2.1% Wisconsin, 1.8% North Carolina, 1.3% Kentucky, 1.1% Illinois, 1.1% Ohio, -0.5% New Mexico, -2.0%		-
Indiana, 3.7% Virginia, 3.7% Louisiana, 3.5% Maryland, 3.3% Iowa, 3.3% Tennessee, 3.0% Mississippi, 2.9% Arkansas, 2.6% Utah, 2.4% Missouri, 2.4% Oregon, 2.1% Wisconsin, 1.8% North Carolina, 1.3% Kentucky, 1.1% Illinois, 1.1% Ohio, -0.5% New Mexico, -2.0%		-
Virginia, 3.7% Louisiana, 3.5% Maryland, 3.3% lowa, 3.3% Tennessee, 3.0% Mississippi, 2.9% Arkansas, 2.6% Utah, 2.4% Missouri, 2.4% Oregon, 2.1% Wisconsin, 1.8% North Carolina, 1.3% Kentucky, 1.1% Illinois, 1.1% Ohio, -0.5% New Mexico, -2.0%		-
Louisiana, 3.5% Maryland, 3.3% Iowa, 3.3% Tennessee, 3.0% Mississippi, 2.9% Arkansas, 2.6% Utah, 2.4% Missouri, 2.4% Oregon, 2.1% Wisconsin, 1.8% North Carolina, 1.3% Kentucky, 1.1% Illinois, 1.1% Ohio, -0.5% New Mexico, -2.0%		-
Maryland, 3.3% lowa, 3.3% Tennessee, 3.0% Mississippi, 2.9% Arkansas, 2.6% Utah, 2.4% Missouri, 2.4% Oregon, 2.1% Wisconsin, 1.8% North Carolina, 1.3% Kentucky, 1.1% Illinois, 1.1% Ohio, -0.5% New Mexico, -2.0%		-
Iowa, 3.3% Tennessee, 3.0% Mississippi, 2.9% Arkansas, 2.6% Utah, 2.4% Missouri, 2.4% Oregon, 2.1% Wisconsin, 1.8% North Carolina, 1.3% Kentucky, 1.1% Illinois, 1.1% Ohio, -0.5% New Mexico, -2.0%		-
Tennessee, 3.0% Mississippi, 2.9% Arkansas, 2.6% Utah, 2.4% Missouri, 2.4% Oregon, 2.1% Wisconsin, 1.8% North Carolina, 1.3% Kentucky, 1.1% Illinois, 1.1% Ohio, -0.5% New Mexico, -2.0%		-
Mississippi, 2.9% Arkansas, 2.6% Utah, 2.4% Missouri, 2.4% Oregon, 2.1% Wisconsin, 1.8% North Carolina, 1.3% Kentucky, 1.1% Illinois, 1.1% Ohio, -0.5% New Mexico, -2.0%		-
Arkansas, 2.6% Utah, 2.4% Missouri, 2.4% Oregon, 2.1% Wisconsin, 1.8% North Carolina, 1.3% Kentucky, 1.1% Illinois, 1.1% Ohio, -0.5% New Mexico, -2.0%		-
Utah, 2.4% Missouri, 2.4% Oregon, 2.1% Wisconsin, 1.8% North Carolina, 1.3% Kentucky, 1.1% Illinois, 1.1% Ohio, -0.5% New Mexico, -2.0%		-
Missouri, 2.4% Oregon, 2.1% Wisconsin, 1.8% North Carolina, 1.3% Kentucky, 1.1% Illinois, 1.1% Ohio, -0.5% New Mexico, -2.0%		-
Oregon, 2.1% Wisconsin, 1.8% North Carolina, 1.3% Kentucky, 1.1% Illinois, 1.1% Ohio, -0.5% New Mexico, -2.0%		-
Wisconsin, 1.8% North Carolina, 1.3% Kentucky, 1.1% Illinois, 1.1% Ohio, -0.5% New Mexico, -2.0%		-
North Carolina, 1.3% Kentucky, 1.1% Illinois, 1.1% Ohio, -0.5% New Mexico, -2.0%		-
Kentucky, 1.1% Illinois, 1.1% Ohio, -0.5% New Mexico, -2.0%		-
Illinois, 1.1% Ohio, -0.5% New Mexico, -2.0%		-
Ohio, -0.5%	1.	-
New Mexico, -2.0%		-

-5%

0%



Source: Ernst & Young LLP estimates based on data from the U.S. Census Bureau Annual Survey of State and Local Government Finances.

25%

30%

20%

10%

15%

5%

Table 3: State and Local Business Taxes by Type, FY18 (\$ billions)

			Excise tax			Individual		
			including		Unemploy-	income tax		
			public utilities	Corporate	ment	on business		Total business
	Property tax	Sales tax	and insurance	income	insurance tax	income	other taxes*	taxes
Alabama	\$2.2	\$1.8	\$1.8	\$0.6	\$0.2	\$0.4	\$0.9	\$7.9
Alaska	1.0	-	0.1	0.2	0.1	-	1.0	2.5
Arizona	5.8	3.7	1.2	0.4	0.5	0.5	0.7	12.7
Arkansas	1.4	1.8	0.6	0.4	0.2	0.3	0.4	4.9
California	32.4	19.2	12.5	12.5	6.0	12.5	10.3	105.4
Colorado	5.9	3.2	1.2	0.7	0.7	0.9	0.7	13.2
Connecticut	2.8	1.8	1.4	0.8	0.8	1.3	0.3	9.1
Delaware	0.5	-	0.3	0.3	0.1	0.2	1.6	2.8
Florida	17.6	13.8	7.8	2.4	0.7	-	2.9	45.2
Georgia	7.5	4.3	2.1	1.0	0.7	1.3	0.9	17.7
Hawaii	1.0	1.4	0.8	0.1	0.2	0.3	0.2	3.9
Idaho	1.0	0.6	0.3	0.2	0.2	0.3	0.2	2.8
Illinois	15.4	5.2	5.1	2.6	2.0	1.4	1.8	33.6
Indiana	4.7	2.5	1.8	0.7	0.5	0.9	0.3	11.4
Iowa	3.0	1.7	0.7	0.4	0.5	0.4	0.5	7.2
Kansas	2.8	1.8	0.8	0.4	0.3	_	0.3	6.4
Kentucky	2.5	1.6	1.5	0.7	0.5	0.5	0.5	7.8
Louisiana	3.4	4.0	1.4	0.4	0.2	0.4	0.9	10.7
Maine	2.1	0.5	0.3	0.2	0.1	0.2	0.2	3.6
Maryland	3.5	2.0	2.5	1.0	0.5	1.9	1.0	12.5
Massachusetts	8.5	3.1	1.2	2.4	1.5	1.7	0.8	19.3
Michigan	6.2	3.6	1.9	1.1	1.2	0.9	1.1	16.0
Minnesota	4.5	2.8	2.3	1.4	0.7	1.0	1.1	13.8
Mississippi	2.4	1.3	0.8	0.4	0.1	0.2	0.4	5.6
Missouri	3.4	2.5	0.9	0.4	0.4	0.7	0.8	9.1
Montana	1.0	-	0.3	0.2	0.1	0.2	0.4	2.2
Nebraska	2.5	1.0	0.3	0.3	0.1	0.4	0.3	5.0
Nevada	1.6	2.6	1.5	0.2	0.6	-	1.5	8.1
New Hampshire	1.7	-	0.5	0.8	0.1	0.0	0.4	3.4
New Jersey	12.9	4.5	2.8	2.2	2.3	1.9	1.3	27.9
New Mexico	1.0	1.8	0.4	0.1	0.2	0.1	1.2	4.8
New York	34.2	13.7	7.7	10.6	2.8	8.6	3.2	80.8
North Carolina	5.2	4.6	2.1	0.7	0.8	1.3	1.7	16.3
North Dakota	0.7	0.6	0.3	0.1	0.2	0.0	2.2	4.1
Ohio	7.5	5.2	2.9	2.1	1.3	1.4	2.0	22.3
Oklahoma	1.9	2.4	0.7	0.2	0.2	0.7	1.2	7.4
Oregon	3.0	-	0.8	0.9	1.0	0.9	1.2	7.8
Pennsylvania	10.6	5.0	4.1	3.0	3.0	2.6	2.8	31.1
Rhode Island	1.2	0.4	0.3	0.1	0.2	0.1	0.1	2.5
South Carolina	4.2	1.4	0.9	0.4	0.4	0.4	1.0	8.8
South Dakota	0.8	0.9	0.2	0.0	0.0	-	0.2	2.2
Tennessee	3.6	4.0	1.8	1.6	0.3	0.0	1.7	13.0
Texas	36.1	21.6	9.1	3.7	2.6	-	7.5	80.5
Utah	2.2	1.1	0.7	0.4	0.2	0.4	0.2	5.3
Vermont	1.1	0.2	0.3	0.1	0.1	0.1	0.1	2.1
Virginia	7.8	2.2	2.5	0.9	0.5	1.1	1.7	16.6
Washington	5.8	5.7	3.5	4.2	1.1	-	1.7	21.9
West Virginia	1.4	0.6	0.7	0.1	0.2	0.2	0.7	3.9
Wisconsin	4.8	2.5	1.2	0.9	0.7	0.7	0.9	11.7
Wyoming	1.1	0.5	0.1	-	0.1	-	0.6	2.4
District of Columbia	2.2	0.6	0.3	0.6	0.2	0.4	0.2	4.6
United States	\$297.3	\$166.9	\$97.5	\$66.2	\$38.1	\$49.7	\$65.7	\$781.5

* "Corporate income" and "Individual income tax on business income" include gross receipts taxes levied in Nevada, Ohio, Texas and Washington and the business enterprise tax in New Hampshire. The "License and other taxes" category includes death and gift taxes, documentary and stock transfer taxes, severance taxes and local gross receipts taxes. Certain Ohio localities impose a net profits tax, which is reflected in the state's "Corporate income" amount. The small amount of corporate profits taxes at the local level in Michigan is reflected in the state's "License and other taxes" amount. Note: "-" indicates zero collections; "0.0" indicates collections of less than \$50 million.

Comparing state business tax levels

A state's business tax burden can be measured in many ways. One approach is to compare the level of business taxes with the level of economic activity that is subject to taxation (private sector gross domestic product). State and local business taxes are imposed on a variety of tax bases, including net income, input purchases, payroll and property. Therefore, a broad measure of a state's overall economic activity should be used to determine the measure of aggregate business tax burden that can be compared across states.

Table 4 and Figure 4 present state-by-state estimates of state and local business taxes and total taxes, as well as the total effective business tax rate (TEBTR) imposed on business activity by state and local governments, in FY18. The TEBTR is measured as the ratio of state and local business taxes to private-sector gross state product (GSP), the total value of a state's annual production of goods and services by the private sector. The average TEBTR across all states was 4.7%.

Missouri had the lowest TEBTR – 3.4% – meaning that as a share of economic activity, the state's corporate income, excise and license taxes were lower than those of other states. Missouri relies less on business taxes, instead generating a greater share of tax revenue from households. North Carolina and Michigan each had 3.6%, the next-lowest TEBTRs.

Connecticut also has a low TEBTR, explained in part by several high-output industries, such as insurance, financial services and aerospace, which generate a large amount of GSP for the state. Connecticut's business taxes per dollar of GSP are significantly below the national average for this reason. Additionally, Connecticut relies on individual income taxes for a significant share of its total state and local taxes, which are mostly paid by households. Another state with a low TEBTR for FY18 is Oregon (4.0%), which is due to its lack of a sales tax and its lower-than-average business share of property taxes at 45%, compared with 54% nationally. However, note that Oregon enacted a commercial activity tax on gross receipts, which will be imposed for tax years beginning on or after January 1, 2020; this tax will likely increase the state's TEBTR in future years.

North Dakota had the highest TEBTR, at 9.0%, because of its heavy reliance on severance taxes paid by extractive industry firms operating in the state.

TEBTRs provide a starting point for comparing burdens across states, but they do not provide sufficient information to evaluate a state's competitiveness. States with relatively low TEBTRs that derive most of their business taxes from origin-based taxes such as property taxes and sales taxes are likely not as competitive in attracting investment and jobs as states with higher TEBTRs that rely on taxes paid disproportionately on outof-state businesses. TEBTRs also do not indicate the economic incidence of a tax. When a tax can be passed on to consumers, it does not cause the same effects on investment and job creation as an origin-based tax. In certain states with sales-factor apportionment and market-based sourcing of sales, a large portion of the business entity tax may be paid by out-of-state companies on in-state sales.⁶

Furthermore, two states with similar TEBTRs may vary in the way they tax certain industries – a difference that is not considered in this analysis. It is also important to note that the TEBTR is a measure of the average tax burden on existing businesses in a state rather than a measure of the marginal tax that would be borne by a company investing in a new or expanded facility. For this reason, the TEBTR is one metric that can be used to evaluate a state's business tax structure but is not a clear indicator of the competitiveness of a state's business tax system in terms of attracting new investment.



Table 4: Business Taxes as a Share of State, Local, and Total Taxes and Private-sector GSP, FY18 (\$ billions)

	Stat	e taxes	Local	taxes	State and	l local taxes		Business taxes
State	Business	Total	Business	Total	Business	Total	TEBTR*	per employee (\$ thousands)**
Alabama	\$4.5	\$11.3	\$3.4	\$6.1	\$7.9	\$17.4	4.6%	\$4.7
Alaska	1.5	1.8	1.0	1.9	2.5	3.7	6.2%	\$9.7
Arizona	6.0	16.8	6.7	11.3	12.7	28.1	4.6%	\$5.2
Arkansas	3.8	10.1	1.1	2.4	4.9	12.4	4.6%	\$4.7
California	61.6	181.0	43.8	91.2	105.4	272.2	4.4%	\$7.0
Colorado	5.0	15.5	8.2	14.1	13.2	29.6	4.5%	\$5.8
Connecticut	6.3	19.8	2.8	11.0	9.1	30.9	3.8%	\$6.1
Delaware	2.3	4.3	0.5	1.1	2.8	5.4	4.4%	\$7.3
Florida	21.7	46.6	23.5	38.2	45.2	84.8	5.3%	\$5.9
Georgia	7.9	24.3	9.8	17.5	17.7	41.8	3.7%	\$4.6
Hawaii	2.6	7.9	1.3	2.5	3.9	10.4	5.6%	\$7.3
Idaho	1.7	5.0	1.0	1.9	2.8	6.9	4.5%	\$4.6
Illinois	15.1	41.9	18.4	35.4	33.6	77.3	4.6%	\$6.3
Indiana	6.3	19.9	5.1	8.7	11.4	28.7	3.7%	\$4.2
lowa	3.7	10.6	3.5	6.0	7.2	16.6	4.5%	\$5.4
Kansas	3.3	9.8	3.0	5.3	6.4	15.1	4.7%	\$5.4
Kentucky	4.7	12.5	3.1	5.5	7.8	18.0	4.6%	\$4.7
Louisiana	4.7	11.6	6.0	10.4	10.7	22.0	5.2%	\$6.4
Maine	1.5	4.5	2.1	3.0	3.6	7.5	6.9%	\$6.9
Maryland	7.6	23.0	4.9	16.8	12.5	39.8	4.0%	\$5.5
Massachusetts	10.4	31.2	8.9	18.4	19.3	49.6	4.0%	\$5.9
Michigan	10.3	31.7	5.7	14.2	16.0	45.9	3.6%	\$4.2
Minnesota	9.3	27.4	4.5	9.2	13.8	36.6	4.4%	\$5.4
Mississippi	3.1	8.0	2.5	3.3	5.6	11.3	6.3%	\$6.1
Missouri	4.0	13.5	5.1	10.3	9.1	23.8	3.4%	\$3.7
Montana	1.3	3.0	0.9	1.4	2.2	4.5	5.5%	\$5.6
Nebraska	2.0	5.5	3.0	4.8	5.0	10.3	4.8%	\$5.8
Nevada	5.2	9.8	2.9	5.3	8.1	15.1	5.9%	\$6.8 ¢5
New Hampshire	1.8	3.0	1.6	4.1	3.4 27.9	7.1	4.8%	\$5.8 \$7.0
New Jersey	14.6 3.2	37.6 5.8	13.3 1.6	30.7 2.8	4.8	68.3 8.6	5.3% 6.9%	\$7.9 \$7.5
New Mexico New York	3.2 27.9	5.8 91.3	52.8	2.0 104.3	4.8 80.8	0.0 195.6	6.9% 5.7%	\$7.5 \$9.9
North Carolina	9.3	28.7	7.0	104.3	00.0 16.3	43.6	3.6%	\$9.9 \$4.3
North Dakota	3.2	4.4	0.8	1.3	4.1	43.0 5.7	9.0%	\$4.3 \$11.5
Ohio	12.6	30.4	9.7	24.9	22.3	55.3	3.9%	\$4.6
Oklahoma	4.2	9.8	3.2	5.5	7.4	15.3	4.8%	\$5.6
Oregon	4.0	13.6	3.8	7.9	7.8	21.6	4.0%	\$4.8
Pennsylvania	17.7	43.7	13.4	29.4	31.1	73.2	4.7%	\$5.8
Rhode Island	1.2	3.7	1.2	2.8	2.5	6.5	4.8%	\$5.7
South Carolina	3.5	10.9	5.2	8.1	8.8	19.0	4.8%	\$5.0
South Dakota	1.1	2.0	1.1	1.8	2.2	3.8	5.1%	\$6.1
Tennessee	8.0	14.6	5.0	9.4	13.0	24.0	4.3%	\$4.9
Texas	37.5	62.9	43.1	66.4	80.5	129.4	5.6%	\$7.6
Utah	2.4	8.2	2.8	4.8	5.3	13.0	3.7%	\$4.2
Vermont	1.7	3.4	0.4	0.6	2.1	4.1	7.6%	\$7.8
Virginia	6.2	24.0	10.4	18.3	16.6	42.3	4.1%	\$5.1
Washington	14.2	27.7	7.7	16.4	21.9	44.1	5.0%	\$7.8
West Virginia	2.2	5.6	1.7	2.2	3.9	7.8	6.5%	\$6.9
Wisconsin	6.6	19.4	5.1	10.8	11.7	30.2	4.2%	\$4.6
Wyoming	1.4	1.9	1.1	1.4	2.4	3.3	7.9%	\$11.5
District of Columbia	4.6	8.1	0.0	0.0	4.6	8.1	5.2%	\$8.4
United States	\$406.5	\$1,069.1	\$375.0	\$726.1	\$781.5	\$1,795.2	4.7%	\$6.2

* Average of calendar-year 2017 and calendar-year 2018 private-industry GSP. This is the TEBTR on economic activity occurring within the state.

** "Business taxes per employee" calculated using 2017 private-sector employment from Bureau of Labor Statistics Quarterly Census of Employment and Wages and FY17 total state and local business tax collections.

Note: amounts may not sum because of rounding. TEBTR equals taxes as a percent of private-sector gross state product. Source: Ernst & Young LLP estimates based on data from the U.S. Census Bureau Annual Survey of State and Local Government Finances. Figure 4: Total Effective Business Tax Rate (TEBTR) by State, FY18 (state and local business taxes divided by private-sector gross state product in each state)

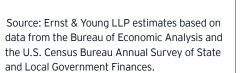


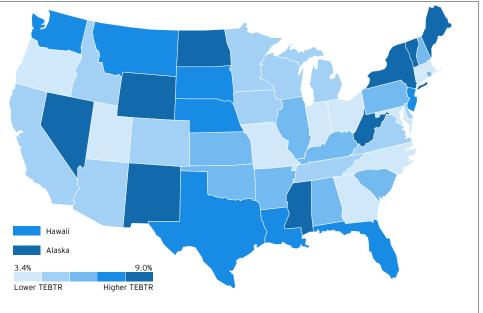
Table 5 summarizes the share of taxes paid by businesses in each state. Business taxes accounted for 43.5% of total state and local taxes in FY18. Business taxes accounted for a smaller share of state taxes (38.0%) than local taxes (51.6%). The share of local taxes paid by businesses is higher than the state share because businesses pay 54% of local property taxes, which account for 56.3% of total (business and household) local tax collections, while state governments rely most heavily on sales taxes, of which the majority are paid by households.

The business share of total state and local taxes has remained relatively stable over the past five years, as shown in Appendix Table A1. Additionally, the business share has been within one percentage point of 44% every year since 2003. Although some individual income taxes are imposed on business income, the vast majority falls on households. Individual income taxes on nonbusiness income (i.e., households) accounted for 20.9% of total state and local tax revenue in FY18.

The share of total state and local taxes paid by businesses varies significantly by state for a number of reasons. The states with the highest business share in FY18 include Wyoming (72.7%), North Dakota (72.1%), Alaska (66.9%), Texas (62.3%) and South Dakota (58.9%). All these states have significant severance taxes paid by businesses. Additionally, South Dakota, Texas and Wyoming do not have an individual income tax, which is predominantly paid by households, creating a greater reliance on business taxes in these states.

The states with the lowest business tax share include Connecticut (29.5%), Maryland (31.4%), Michigan (35.0%), Missouri (38.2%), Oregon (36.0%) and North Carolina (37.4%). Connecticut and Maryland generate the smallest share of their overall tax receipts from business taxes. The structure of both states' economies plays a significant role in generating this result. In Connecticut, significant income earned by highincome taxpayers contributes to individual income tax receipts that outweigh business collections. In Maryland, the state receives a low share of its total tax revenue from business taxes because the state relies heavily on the individual income tax to generate tax revenue from employment related to the significant nontaxable federal government and nonprofit activity in the state. In FY18, 38.1% of total state and local taxes came from the individual income tax in Maryland, compared with 22.9% nationally. This greater reliance on the individual income tax increases business income taxes on pass-through income but reduces the overall business share and TEBTR. Oregon's low business share is explained by its lack of a sales tax, of which businesses paid 42% nationally, and a lower property tax share paid by business (45% in Oregon, compared with 54% nationally).

A high share of total state and local taxes paid by business does not necessarily translate into a high effective business tax rate on economic activity. States without individual income taxes generally derive a larger share of their total tax revenue from business taxes, even though business taxes in these states may not be significantly higher than the national average. The business tax burden would not increase if household taxes were cut and no new taxes were imposed on businesses, but the business share of total taxes would increase. For instance, 52.9% of taxes in Delaware are paid by businesses (9.4% above the average), but the TEBTR is 4.4% (0.3% below the average). In this case, the high business share is largely attributable to the corporation license tax, which generates substantial revenue due to the significant number of businesses incorporated in Delaware.





Note: District of Columbia taxes are treated as state taxes in this analysis. Source: Ernst & Young LLP estimates based on data from the U.S. Census Bureau Annual Survey of State and Local Government Finances.

Table 5: Business Share of Total State and Local Taxes, FY18

			Pusinoss share of
State	Business share of total state taxes	Business share of total local taxes	Business share of total state and local
Alabama	39.7%	55.6%	taxes 45.3%
Alaska	85.1%	50.2%	66.9%
Arizona	35.5%	59.1%	45.0%
Arkansas	37.3%	48.1%	39.4%
California	34.0%	48.1%	38.7%
Colorado	32.5%	58.3%	44.8%
Connecticut	31.6%	25.7%	29.5%
Delaware	53.8%	48.9%	52.9%
Florida	46.5%	61.5%	53.3%
Georgia	32.6%	56.1%	42.4%
Hawaii	33.5%	51.4%	37.8%
Idaho	34.2%	55.4%	40.0%
Illinois	36.2%	51.9%	40.0%
Indiana	31.8%	58.3%	39.9%
	35.4%		43.6%
lowa		58.0%	
Kansas	34.1%	57.5%	42.3%
Kentucky	37.5%	55.9%	43.1%
Louisiana	40.2%	57.8%	48.5%
Maine	32.8%	70.6%	47.9%
Maryland	33.0%	29.1%	31.4%
Massachusetts	33.3%	48.4%	38.9%
Michigan	32.5%	40.4%	35.0%
Minnesota	33.8%	49.4%	37.7%
Mississippi	38.9%	76.9%	50.0%
Missouri	29.8%	49.2%	38.2%
Montana	41.9%	62.7%	48.5%
Nebraska	36.2%	62.0%	48.3%
Nevada	53.0%	54.9%	53.7%
New Hampshire	61.6%	38.8%	48.4%
New Jersey	38.9%	43.3%	40.9%
New Mexico	55.0%	58.6%	56.2%
New York	30.6%	50.7%	41.3%
North Carolina	32.5%	46.9%	37.4%
North Dakota	74.0%	65.8%	72.1%
Ohio	41.4%	39.0%	40.3%
Oklahoma	43.1%	57.5%	48.3%
Oregon	29.2%	47.7%	36.0%
Pennsylvania	40.4%	45.6%	42.5%
Rhode Island	33.0%	44.4%	37.9%
South Carolina	32.5%	63.9%	45.9%
South Dakota	57.6%	60.2%	58.9%
Tennessee	54.9%	52.8%	54.1%
Texas	59.5%	64.8%	62.3%
Utah	29.6%	58.9%	40.4%
Vermont	48.5%	68.1%	51.5%
Virginia	25.7%	57.0%	39.3%
Washington	51.2%	46.8%	49.6%
West Virginia	38.5%	77.3%	49.4%
Wisconsin	33.8%	47.7%	38.8%
Wyoming	71.2%	74.8%	72.7%
District of Columbia	56.4%	n/a	56.4%
United States	38.0%	51.6%	43.5%

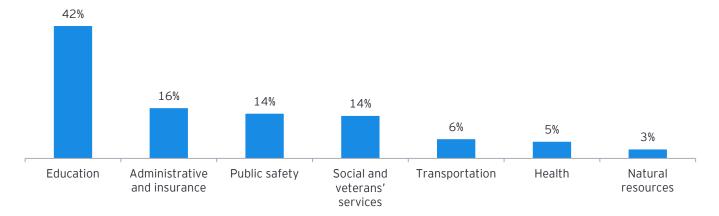
Governmental benefits received by businesses vs. taxes paid

In addition to the TEBTR, the business tax burden can be evaluated by comparing business taxes paid with benefits received by businesses due to government spending. Because government spending can reduce businesses' nontax costs, if two businesses pay the same amount of taxes but one receives larger benefits from government spending, the true burden of taxes is not the same for both businesses. Calculating the business tax-to-benefit ratio estimates the extent to which businesses are "getting what they paid for" from their tax dollars.

Figure 5 shows FY18 total estimated state and local government spending by category (net of user charges and other nontax revenue) for both households and businesses. A methodology developed by economists at the Federal Reserve Bank of Chicago was used to allocate expenditures in major categories (see Figure 5) between households and businesses to reflect the extent to which each group benefits from each type of expenditure.⁷ Certain expenditures, such as health and human services, were assigned entirely to households, while other categories, such as public safety and highway infrastructure costs (in the transportation category), were split evenly between businesses and households. The tax-to-benefit ratio was calculated by dividing business taxes in each state by estimated government expenditures benefiting businesses.

Since education spending is by far the largest category of net state and local expenditures, estimates of the tax-benefit ratio for businesses are sensitive to the allocation of education expenditures between businesses and households. While economic theory suggests that individuals are the primary beneficiaries of education because they can earn higher wages, business owners can benefit if an educated workforce generates higher returns to capital. Returns to capital would increase if workers do not completely capture productivity gains through higher wages or if an educated workforce improves the productivity of capital (e.g., an educated or trained worker may know how to use machines in production more efficiently, resulting in fewer breakdowns or work stoppages). A review of the literature on this topic finds that a 1% increase in the share of workers with a college education in a city increases output by 0.5 to 0.6 percentage points.⁸ If businesses are able to capture some or all of the additional productivity from increased education, they are deriving benefits from this type of government spending.

Figure 5: Net State and Local Government Expenditures by Category, FY18 (for both households and businesses)



Source: Ernst & Young LLP estimates of tax-funded revenue based on data from the U.S. Census Bureau Annual Survey of State and Local Government Finances, and the National Association of State Budget Officers. Education can increase profits through indirect channels as well. For example, a more educated populace may result in reduced property crime, which may lower business costs and increase the return to capital. One estimate of the social returns of an educated workforce is that social benefits, in the form of lower government spending for police services and incarceration costs, are equal to 14% to 26% of the private return of education (higher wages) that accrues to individuals.⁹

Since the benefit of education to households and businesses is unknown, and the tax-to-benefit ratio is sensitive to this assumption, this analysis presents a range of estimates for the share of educational expenditures that benefit local businesses. The ratio is estimated assuming that 0%, 25% and 50% of instate education spending benefits in-state businesses.¹⁰

Figure 6 and Table 6 summarize the results using the three educational share assumptions for FY18. Assuming that education spending does not directly benefit local business, the ratio of business taxes paid to government services received by businesses is 3.3, indicating that businesses are taxed \$3.30 per dollar of government services they receive (i.e., a ratio of 3.3 to 1). The ratio drops to 1.7 when one-quarter of education spending is assumed to benefit business and 1.2 when half of education spending is assumed to benefit local business. Using net government spending rather than gross spending to calculate tax-to-benefit ratios yields different results. Net government spending subtracts nontax revenue and estimates tax-funded state and local government spending. While tax revenue is the largest individual source of state and local government revenue, 53% of total revenue was derived from other sources in 2016, the last year for which complete data on state and local government finances is available from the U.S. Census Bureau. A state could maintain the same level of business taxation and gross spending from one year to the next, but its tax-to-benefit ratio would still differ if its level of nontax revenue changed.

New Jersey has the highest tax-benefit ratio because of higherthan-average property and corporate income taxes in the state and public-sector expenditures that benefit households to a larger degree than in other states. Nine additional states have tax-benefit ratios above 4.0, assuming educational expenditures do not benefit business. If educational expenditures are split evenly between households and businesses, the tax-benefit ratios are fairly similar across states, with all but one state having tax-benefit ratios between 0.8 and 1.7. North Dakota is the outlier with a tax-benefit ratio of 2.2.



Table 6: Ratio of Business Taxes to Government Expenditures Benefiting Businesses, FY18 (\$ billions)

		0% of educati benefiting		25% of educati benefiting		50% of educati benefiting	
		Total state and		Total state and		Total state and	
		local spending		local spending		local spending	
State	State and local business taxes	benefiting business	Tax-benefit ratio	benefiting business	Tax-benefit ratio	benefiting business	Tax-benefit ratio
Alabama	\$7.9	\$2.3	3.5	\$4.7	1.7	\$7.2	1.1
Alaska	2.5	1.3	1.9	2.0	1.2	2.8	0.9
Arizona	12.7	4.0	3.2	6.5	2.0	9.0	1.4
Arkansas	4.9	1.5	3.2	3.3	1.5	5.0	1.0
California	105.4	43.5	2.4	74.4	1.4	105.4	1.0
Colorado	13.2	3.9	3.4	7.0	1.9	10.0	1.3
Connecticut	9.1	3.2	2.8	6.7	1.4	10.2	0.9
Delaware	2.8	0.6	4.4	1.3	2.2	2.0	1.4
Florida	45.2	15.4	2.9	24.4	1.8	33.4	1.4
Georgia	17.7	5.2	3.4	11.0	1.6	16.8	1.1
Hawaii	3.9	1.1	3.6	1.9	2.1	2.7	1.5
Idaho	2.8	1.0	2.8	1.7	1.7	2.3	1.2
Illinois	33.6	13.6	2.5	24.3	1.4	35.1	1.0
Indiana	11.4	2.9	3.9	6.4	1.4	9.8	1.0
lowa	7.2	1.9	3.7	3.9	1.8	5.9	1.2
Kansas	6.4	2.1	3.1	4.0	1.6	5.9	1.1
Kentucky	7.8	2.8	2.8	5.5	1.4	8.3	0.9
Louisiana	10.7	4.2	2.5	7.2	1.5	10.2	1.0
Maine	3.6	1.0	3.5	1.8	2.0	2.6	1.0
Maryland	12.5	6.3	2.0	1.0	1.1	16.0	0.8
Massachusetts	19.3	4.7	4.1	10.1	1.1	15.5	1.2
	19.3	5.2	3.1	10.1	1.5	15.5	1.0
Michigan Minnesota	13.8	5.2	2.7	9.1	1.5	13.1	1.0
Mississippi	5.6	1.6	3.5	3.3	1.5	5.0	1.1
Missouri	9.1	3.2	2.9	5.5 6.1	1.7	9.1	1.0
Montana	2.2	0.8	2.5	1.4	1.5	1.9	1.0
Nebraska	5.0	1.4	3.5	2.9	1.0	4.4	1.1
Nevada	8.1	2.3	3.6	3.6	2.2	5.0	1.6
New Hampshire	3.4	0.7	4.8	1.6	2.2	2.5	1.3
New Jersey	27.9	4.9	4.8 5.7	14.3	2.0	23.6	1.3
New Mexico	4.8	1.3	3.8	2.4	2.0	3.5	1.2
New York	80.8	1.5	3.0 4.2	41.8	1.9	64.5	1.4
North Carolina	16.3	5.8	2.8	10.9	1.5	16.0	1.0
North Dakota	4.1	0.9	2.0 4.6	10.9	3.0	1.8	2.2
Ohio	22.3	7.1	3.1	13.7	1.6	20.2	1.1
Oklahoma	7.4	2.0	3.7	3.7	2.0	5.4	1.1
Oregon	7.4	3.2	2.4	5.6	1.4	8.1	1.4
Pennsylvania	31.1	9.3	3.3	18.2	1.4	27.2	1.1
Rhode Island	2.5	9.3 0.7	3.6	1.4	1.7	21.2	1.1
South Carolina	8.8	2.4	3.7	5.1	1.7	7.8	1.1
South Dakota	2.2	0.7	3.2	1.2	1.7	1.6	
Tennessee	13.0	3.3	3.2 3.9	6.3		9.2	1.4
Texas	13.0 80.5		3.9 5.5	6.3 31.6	2.1 2.5		1.4 1.7
	80.5 5.3	14.6	5.5 3.5	31.6		48.7 5.7	
Utah Vermont	2.1	1.5 0.5	3.5 4.3	3.6 1.0	1.5 2.2	1.5	0.9 1.4
Virginia Washington	16.6	5.7	2.9	10.5	1.6	15.4	1.1
Washington Wost Virginia	21.9	5.9	3.7	11.1	2.0	16.3	1.3
West Virginia	3.9	0.9	4.1	1.9	2.1	2.8	1.4
Wisconsin	11.7 2.4	4.3	2.7	7.8	1.5	11.4	1.0
Wyoming District of Columbia	2.4 4.6	0.5 1.2	5.0 3.9	1.1 2.0	2.1 2.3	1.8 2.8	1.3
District of Columbia United States	\$781.5	\$238.6	3.9 3.28	\$454.4	<u> </u>	\$670.3	1.6 1.17
Sinted States	\$101.3	ŞL30.0	5.20	9494 .4	1.12	2010.2	1.11

Note: amounts may not sum because of rounding.

Source: Ernst & Young LLP estimates based on data from the U.S. Census Bureau Annual Survey of State and Local Government Finances, and the National Association of State Budget Officers.

Figure 6: Business Taxes Per Dollar of Net Government Spending That Benefits Businesses, FY18 (values shown are equal to business taxes divided by government spending that benefits businesses)

United States	1.2		3.2			
New Jersey	1.2				5.	7
Texas	1.7				5.5	<u> </u>
Wyoming	1.3				5.0	
New Hampshire	1.3			Δ	1.8	
North Dakota	210	2.2		4.6		
Delaware	1.4	<i>L.L</i>		4.4		
Vermont	1.4			4.3		
New York	1.3			4.2		
West Virginia	1.4			4.1		
Massachusetts	1.4			4.1		
istrict of Columbia	1.6			3.9		
Tennessee	1.4			.9		
Indiana	1.2			.9		
New Mexico	1.4		3.8			
lowa	1.4		3.7			
Washington	1.2		3.7			
South Carolina	1 1		3.7			
Oklahoma	1.4		3.7			
Rhode Island	11		3.6			
Nevada	1.1		3.6			
Hawaii	1.5		3.6			
Maine	1.4		3.5			
Nebraska	11		3.5			
Alabama	1.1		3.5			
Utah	0.9		3.5			
Mississippi	1.1		3.5			
Georgia	1.1		3.4			
Colorado	1.3		3.4			
Pennsylvania	1.1		3.3			
Arkansas	1.0	3	.2			
Arizona	1.4	3	.2			
South Dakota	1.4	3	2			
Ohio 🗍	1.1	3.	1			
Kansas	1.1	3.	1			
Michigan 📕	1.0	3.1				
Virginia 🗍	1.1	2.9				
Florida	1.4	2.9				
Missouri	1.0	2.9				
Connecticut	0.9	2.8				
North Carolina	1.0	2.8				
Kentucky	0.9	2.8				
Idaho	1.2	2.8				
Wisconsin	1.0	2.7				
Minnesota	1.1	2.7				
Montana 🔤	1.1	2.6				
Louisiana	1.0	2.5				
Illinois 📃	1.0	2.5				
Oregon 📃	1.0	2.4				
California	1.0	2.4				
Maryland	0.8 2	.0				
Alaska	0.9 1.9					

With 50% of educational expenses allocated to business With 0% of educational expenses allocated to business

Source: Ernst & Young LLP estimates based on data from the U.S. Census Bureau Annual Survey of State and Local Government Finances, and the National Association of State Budget Officers.

Conclusion

Businesses paid more than \$781 billion in state and local taxes in FY18, representing a 6.1% increase from the previous year. Growth in state and local tax revenue from business was spread across a number of tax types, including property, sales, corporate income, individual income taxes on business income, excise, insurance premium and severance. Only unemployment insurance taxes experienced a decline during FY18. While corporate income taxes continue to represent a relatively small share of total state and local business taxes, recent federal tax reform will result in an increase in corporate tax collections, which is expected to increase overall business taxes and the significance of the state corporate income tax. However, businesses and policymakers should continue to be aware of the importance of indirect taxes on business.

Appendix



Table A1: Total State and Local Taxes, 2014-18 (\$ billions)

State and local taxes	2014	2015	2016	2017	2018
Total business taxes	\$694.8	\$716.4	\$721.6	\$736.4	\$781.5
Individual income taxes on nonbusiness income	304.2	327.7	335.2	341.7	375.5
Other taxes	542.9	565.6	585.7	603.7	638.2
Total state and local taxes	\$1,541.9	\$1,609.7	\$1,642.5	\$1,681.7	\$1,795.2

Composition of state and local taxes	2014	2015	2016	2017	2018
Total business taxes	45.1%	44.5%	43.9%	43.8%	43.5%
Individual income taxes on nonbusiness income	19.7%	20.4%	20.4%	20.3%	20.9%
Other taxes	35.2%	35.1%	35.7%	35.9%	35.6%
Total state and local taxes	100%	100%	100%	100%	100%

Note: amounts may not sum because of rounding. FY15, FY16 and FY17 reflect updated business-share estimates of sales taxes. Source: Ernst & Young LLP estimates based on data from the U.S. Census Bureau Annual Survey of State and Local Government Finances.

Table A2: Composition of State and Local Business Taxes, 2014-18 (\$ billions)

Business tax	2014	2015	2016	2017	2018
Property tax on business property	\$250.1	\$262.8	\$273.1	\$282.7	\$297.3
General sales and use tax on inputs	143.7	151.3	153.9	158.1	166.9
Corporate net income	64.3	67.0	63.6	62.0	66.2
Unemployment comp.	48.7	45.9	43.1	40.1	38.1
Business license tax	33.9	34.5	33.9	37.0	37.9
Excise taxes	39.0	40.8	42.7	43.2	48.3
Public utility tax	28.3	28.0	27.6	25.5	25.8
Individual income tax	37.0	40.3	41.1	43.0	49.7
Severance taxes	17.9	12.7	7.7	8.9	12.7
Insurance premium tax	18.9	20.0	21.3	21.8	23.4
Other business taxes	13.2	13.2	13.7	13.9	15.1
Total business taxes	\$694.8	\$716.4	\$721.6	\$736.4	\$781.5

Note: amounts may not sum because of rounding.

Table A3: Composition of State and Local Business Taxes by Type, FY18

		_		_				
						Individual		
				Corporate	Unomployment	income tax on	Liconco and	
State	Property tax	Sales tax	Excise tax	income tax	Unemployment insurance tax	pass-through income	License and other taxes*	Total business taxes
Alabama	27.5%	23.0%	23.1%	7.3%	2.8%	5.0%	11.3%	100.0%
Alaska	39.8%	-	5.4%	8.0%	5.1%	-	41.7%	100.0%
Arizona	45.6%	29.0%	9.7%	2.9%	3.9%	3.6%	5.3%	100.0%
Arkansas	27.7%	35.9%	11.4%	8.0%	4.6%	5.1%	7.3%	100.0%
California	30.7%	18.3%	11.9%	11.8%	5.7%	11.8%	9.8%	100.0%
Colorado	44.8%	24.2%	9.2%	5.0%	5.0%	6.6%	5.3%	100.0%
Connecticut	30.4%	19.3%	15.2%	8.5%	8.4%	14.4%	3.8%	100.0%
Delaware	16.4%	-	10.2%	9.2%	3.6%	5.8%	54.8%	100.0%
Florida	39.0%	30.5%	17.3%	5.4%	1.5%	-	6.4%	100.0%
Georgia	42.5%	24.4%	11.6%	5.7%	3.8%	7.1%	4.9%	100.0%
Hawaii	24.3%	35.0%	19.9%	3.7%	4.4%	6.6%	6.0%	100.0%
Idaho	34.9%	21.0%	11.2%	8.7%	6.0%	10.3%	7.9%	100.0%
Illinois	45.9%	15.5%	15.3%	7.7%	6.0%	4.1%	5.4%	100.0%
Indiana	41.3%	21.7%	15.5%	6.1%	4.8%	8.2%	2.5%	100.0%
lowa	41.2%	23.4%	9.9%	6.1%	6.6%	6.0%	6.7%	100.0%
Kansas	43.9%	27.4%	12.8%	6.9%	4.1%	-	4.9%	100.0%
Kentucky	31.8%	20.2%	19.6%	9.1%	6.1%	7.0%	6.2%	100.0%
Louisiana	32.0%	37.3%	13.2%	3.4%	2.0%	3.7%	8.5%	100.0%
Maine	59.2%	14.8%	7.9%	5.1%	3.2%	4.7%	5.2%	100.0%
Maryland	28.1%	15.7%	20.4%	8.3%	4.4%	15.2%	7.9%	100.0%
Massachusetts	44.0%	16.2%	6.2%	12.5%	7.8%	9.0%	4.3%	100.0%
				6.8%				
Michigan	38.8%	22.4%	11.7%		7.7%	5.8%	6.8%	100.0%
Minnesota	32.8%	20.2%	16.6%	9.8%	5.3%	7.5%	7.6%	100.0%
Mississippi	43.2%	22.6%	13.5%	7.7%	2.0%	3.4%	7.6%	100.0%
Missouri	37.0%	27.6%	9.8%	4.6%	4.7%	8.0%	8.4%	100.0%
Montana	48.4%	-	12.9%	8.1%	4.7%	7.5%	18.3%	100.0%
Nebraska	50.4%	20.5%	6.7%	6.3%	1.6%	8.3%	6.1%	100.0%
Nevada	19.6%	32.5%	18.9%	2.5%	7.8%	-	19.0%	100.0%
New Hampshire	50.4%	-	13.3%	23.1%	1.7%	0.4%	11.2%	100.0%
New Jersey	46.3%	16.3%	10.1%	8.0%	8.1%	6.7%	4.5%	100.0%
New Mexico	20.1%	38.0%	9.2%	1.9%	3.5%	2.2%	25.1%	100.0%
New York	42.4%	16.9%	9.5%	13.1%	3.4%	10.7%	4.0%	100.0%
North Carolina	31.7%	27.9%	12.7%	4.5%	5.0%	7.8%	10.3%	100.0%
North Dakota	17.0%	13.6%	6.5%	2.6%	4.4%	0.9%	55.0%	100.0%
Ohio	33.6%	23.1%	12.9%	9.4%	5.7%	6.5%	8.8%	100.0%
Oklahoma	25.3%	32.0%	9.6%	3.2%	3.2%	10.1%	16.6%	100.0%
Oregon	38.5%	_	10.4%	11.5%	12.8%	11.7%	15.2%	100.0%
Pennsylvania	34.0%	16.1%	13.3%	9.6%	9.8%	8.2%	9.0%	100.0%
Rhode Island	48.6%	15.5%	12.5%	4.8%	9.6%	4.7%	4.3%	100.0%
South Carolina	47.8%	16.0%	10.7%	4.8%	4.1%	4.8%	11.8%	100.0%
South Dakota	34.9%	41.6%	10.7%	4.8%	1.6%	4.0%	9.7%	100.0%
	27.4%				2.2%		9.7% 13.0%	100.0%
Tennessee		30.5%	13.9%	12.7%		0.4%		
Texas	44.8%	26.8%	11.3%	4.6%	3.2%		9.3%	100.0%
Utah	41.1%	21.6%	13.7%	7.6%	3.6%	7.7%	4.8%	100.0%
Vermont	54.5%	10.0%	15.7%	5.3%	6.7%	4.5%	3.4%	100.0%
Virginia	47.3%	13.3%	14.8%	5.2%	2.9%	6.4%	10.2%	100.0%
Washington	26.4%	26.0%	15.8%	19.1%	5.1%	-	7.6%	100.0%
West Virginia	36.3%	15.4%	18.8%	2.8%	5.2%	4.2%	17.3%	100.0%
Wissensin		21 00/	10.5%	7.8%	6.0%	6.1%	7.6%	100.0%
Wisconsin	41.1%	21.0%						
Wyoming	45.0%	21.3%	4.2%	-	2.7%	-	26.7%	100.0%

*"Corporate income" and "individual income tax on business income" include gross receipts taxes levied in Nevada, Ohio, Texas and Washington and the business enterprise tax in New Hampshire. "Other taxes" include death and gift taxes, documentary and stock transfer taxes, severance taxes and local gross receipts taxes. Certain Ohio localities impose a net profits tax, which is included in the "Corporate income" column. The small amount of corporate profits taxes at the local level in Michigan is included in "other taxes."

Note: amounts may not sum because of rounding. "-" indicates 0; "0.0%" indicates less than 0.05%.

Table A4: Composition of State and Local Taxes by Type, FY18

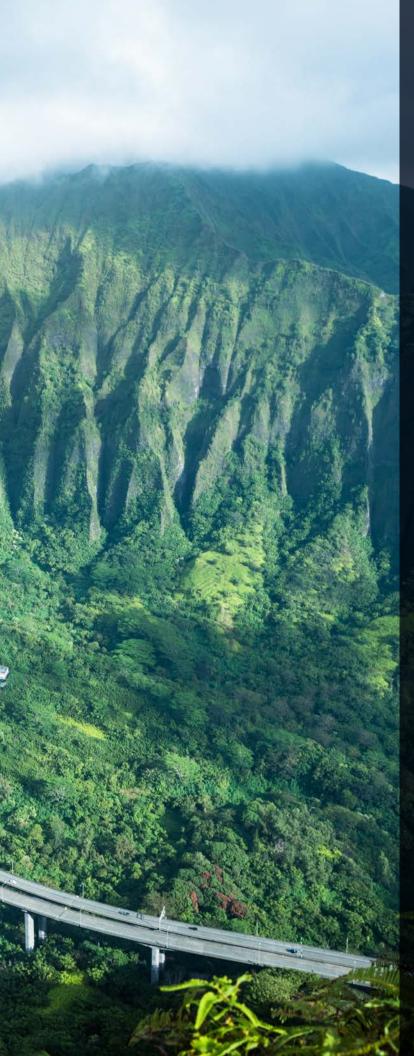
						Individual		
				Company		income tax on	1	Total business
State	Droporty tax	Solostay	Evoico tov	Corporate	Unemployment	pass-through income	License and	Total business taxes
State	Property tax	Sales tax	Excise tax	income tax	insurance tax		other taxes*	
Alabama	16.8%	29.6%	18.0%	3.3%	1.2%	23.3%	7.8%	100.0%
Alaska	44.2%	6.8%	9.9%	5.3%	3.4%	-	30.4%	100.0%
Arizona	29.1%	39.4%	8.3%	1.3%	1.8%	16.2%	3.9%	100.0%
Arkansas	18.4%	37.7%	11.3%	3.1%	1.8%	23.1%	4.6%	100.0%
California	25.1%	18.1%	8.6%	4.6%	2.2%	35.0%	6.4%	100.0%
Colorado	29.7%	25.9%	9.4%	2.2%	2.2%	25.4%	5.2%	100.0%
Connecticut	35.2%	14.7%	10.3%	2.5%	2.5%	31.5%	3.3%	100.0%
Delaware	15.9%	-	11.2%	4.8%	1.9%	31.9%	34.3%	100.0%
Florida	34.1%	38.3%	15.2%	2.9%	0.8%	-	8.7%	100.0%
Georgia	31.2%	23.5%	10.0%	2.4%	1.6%	27.9%	3.4%	100.0%
Hawaii	17.1%	36.5%	13.4%	1.4%	1.6%	23.4%	6.4%	100.0%
Idaho	25.5%	26.0%	9.4%	3.5%	2.4%	26.6%	6.5%	100.0%
Illinois	37.4%	18.1%	13.4%	3.3%	2.6%	19.8%	5.4%	100.0%
Indiana	24.2%	27.2%	15.9%	2.4%	1.9%	25.2%	3.2%	100.0%
lowa	31.1%	21.7%	10.5%	2.7%	2.9%	24.1%	7.0%	100.0%
Kansas	30.7%	28.3%	9.5%	2.9%	1.7%	22.6%	4.1%	100.0%
Kentucky	20.6%	20.0%	15.6%	3.9%	2.6%	33.0%	4.3%	100.0%
Louisiana	20.1%	44.2%	13.5%	1.6%	1.0%	14.8%	4.8%	100.0%
Maine	40.1%	20.3%	9.6%	2.5%	1.5%	21.3%	4.7%	100.0%
Maryland	25.5%	11.9%	14.4%	2.6%	1.4%	38.1%	6.1%	100.0%
Massachusetts	35.4%	13.1%	6.0%	4.9%	3.0%	32.9%	4.7%	100.0%
Michigan	32.9%	21.5%	11.2%	2.4%	2.7%	23.5%	5.8%	100.0%
Minnesota	25.4%	16.4%	13.6%	3.7%	2.0%	32.5%	6.4%	100.0%
Mississippi	27.6%	31.5%	13.0%	3.9%	1.0%	16.4%	5.6%	100.0%
Missouri	26.3%	26.9%	8.9%	1.7%	1.8%	29.1%	5.2%	100.0%
Montana	37.2%	20.9%	14.4%	4.0%	2.3%	29.1%	13.0%	100.0%
			6.7%			23.0%	6.8%	100.0%
Nebraska	37.1%	22.5%		3.1%	0.8%	23.0%		
Nevada	21.4%	37.8%	22.5%	1.3%	4.2%		12.8%	100.0%
New Hampshire	63.2%	-	14.5%	11.2%	0.8%	1.5%	8.8%	100.0%
New Jersey	44.0%	15.3%	7.6%	3.3%	3.3%	22.0%	4.6%	100.0%
New Mexico	19.7%	35.4%	10.7%	1.1%	2.0%	14.5%	16.6%	100.0%
New York	30.5%	16.7%	7.2%	5.4%	1.4%	33.4%	5.4%	100.0%
North Carolina	24.7%	25.4%	11.0%	1.7%	1.9%	28.9%	6.4%	100.0%
North Dakota	17.4%	20.3%	9.0%	1.9%	3.2%	6.5%	41.8%	100.0%
Ohio	28.7%	23.0%	11.1%	3.8%	2.3%	25.8%	5.4%	100.0%
Oklahoma	19.3%	32.5%	10.0%	1.5%	1.5%	22.9%	12.3%	100.0%
Oregon	30.6%	-	9.1%	4.1%	4.6%	41.1%	10.5%	100.0%
Pennsylvania	27.9%	16.3%	14.5%	4.1%	4.2%	24.8%	8.4%	100.0%
Rhode Island	41.6%	16.2%	10.2%	1.8%	3.6%	20.5%	6.0%	100.0%
South Carolina	33.2%	20.0%	10.4%	2.2%	1.9%	23.3%	9.1%	100.0%
South Dakota	33.6%	41.8%	13.7%	0.9%	1.0%	_	9.1%	100.0%
Tennessee	25.3%	40.8%	14.7%	6.9%	1.2%	1.0%	10.2%	100.0%
Texas	41.9%	31.8%	13.7%	2.9%	2.0%	_	7.8%	100.0%
Utah	26.7%	23.4%	10.6%	3.1%	1.5%	30.7%	4.0%	100.0%
Vermont	41.0%	10.1%	17.4%	2.7%	3.4%	20.2%	5.1%	100.0%
Virginia	33.0%	13.0%	10.7%	2.0%	1.1%	33.4%	6.7%	100.0%
Washington	27.9%	35.2%	14.3%	9.5%	2.5%	-	10.6%	100.0%
West Virginia	23.3%	17.2%	19.3%	1.4%	2.6%	24.9%	11.4%	100.0%
Wisconsin	33.4%	19.6%	9.5%	3.0%	2.3%	27.0%	5.1%	100.0%
Wyoming	41.4%	26.5%	9.3% 6.4%	5.0%	2.0%	- 27.0%	23.6%	100.0%
	32.3%				2.0%	25.4%	23.0% 9.4%	100.0%
District of Columbia		18.4%	5.4%	7.1%				
United States	31.0%	22.5%	10.9%	3.7%	2.4%	22.9%	6.7%	100.0%

*Taxes in the "License and other taxes" column include death and gift taxes, documentary and stock transfer taxes, severance taxes and local gross receipts taxes.

Note: amounts may not sum because of rounding. "-" indicates 0; "0.0%" indicates less than 0.05%.

Endnotes

- 1 States that follow a different fiscal year are Alabama (ends September 30), Michigan (ends September 30), New York (ends March 31) and Texas (ends August 31). The data presented in this study is for each state's fiscal year.
- 2 The EY sales tax model used to estimate business share was updated for all 50 states in FY17. Certain prior year estimates from FY14 to FY17 were restated to reflect updated business sales tax estimates. Prior year estimates for sales taxes paid by businesses were updated and are shown in the historical appendix tables. See Andrew Phillips and Muath Ibaid, *The Impact of Imposing Sales Taxes on Business Inputs*, prepared for the State Tax Research Institute and Council On State Taxation, Ernst & Young LLP, May 2019.
- 3 The general methodology used to estimate state and local business taxes is described in detail in the Appendix of the EY/COST FY05 50-state business tax study published in March 2006 (available at cost.org). Note that business tax estimates for prior years have been revised from those published in earlier editions of this study because of the use of newly released U.S. Census Bureau data, and refinements to the estimation of individual income taxes. All references to business taxes in prior fiscal years refer to the updated estimates included in this study, rather than the previously published estimates.
- 4 Andrew Phillips and Muath Ibaid, *The Impact of Imposing Sales Taxes on Business Inputs*, prepared for the State Tax Research Institute and Council On State Taxation, Ernst & Young LLP, May 2019.
- 5 Andrew Phillips and Steve Wlodychak, *The impact of federal tax reform on state corporate income taxes*, prepared for the State Tax Research Institute, Ernst & Young LLP, March 2018.
- 6 Robert Cline, Andrew Phillips, Joo Mi Kim and Tom Neubig, "The Economic Incidence of Additional State Business Taxes," *State Tax Notes*, January 11, 2010.
- 7 Richard H. Mattoon and William A. Testa, "How Closely Do Business Taxes Conform to the Benefits Principle?" presentation at the Future State Business Tax Reforms: Perspectives from the Business, Government and Academic Communities conference, Federal Reserve Bank of Chicago (September 17, 2007). The authors distributed state and local government expenditures between businesses and households. Services benefiting businesses included shares of expenditures for transportation, water and sewer infrastructure, police and fire protection, general government "overhead" (e.g., legislative, administrative and judicial services), interest and regulatory activities. The methodology used is described in detail in William H. Oakland and William A. Testa, "State-local business taxation and the benefits principle," *Economic Perspectives*, January/February 1996. The authors also note that selective excise taxes, such as the severance tax, impact a small portion of businesses and could be removed from the business tax numerator to provide a measure of the tax-to-benefit ratio generally applicable to most firms. Ernst & Young LLP added in expenditure categories to the analysis not included in the 2007 data.
- 8 Enrico Moretti, "Workers' Education, Spillovers, and Productivity: Evidence from Plant-Level Production Functions," *American Economic Review*, June 2004.
- 9 An example of work related to the social benefits of education is Lance Lochner and Enrico Moretti, "The Effect of Education on Crime: Evidence from Prison Inmates, Arrests, and Self-Reports," National Bureau of Economic Research Working Paper 8605, November 2001.
- 10 The tax-benefit ratios shown in this study were constructed in line with the general methodology used by Mattoon and Testa that allocates expenditures, net of user charges and federal transfers, to businesses and households. Like Mattoon and Testa, Ernst & Young LLP identified major categories of state and local spending. Using data from the U.S. Census Bureau's 2016 Annual Survey of State and Local Government Finances, expenditures, charges, federal transfers, and other category-specific nontax revenue were assigned to each category. These items were used to calculate the net expenditures for each category. The net expenditures were then allocated to businesses and households in an identical manner to the Mattoon and Testa allocation for all categories included in their analysis. For new categories, Ernst & Young LLP followed Mattoon and Testa's general principles in allocating net expenditures.



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