

State Tax Revenue Forecasts and Actual Trends in the Wake of the TCJA

FTA Revenue Estimation Conference, 2018

October 8, 2018

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TCJA, South Dakota vs. Wayfair, Sports Betting





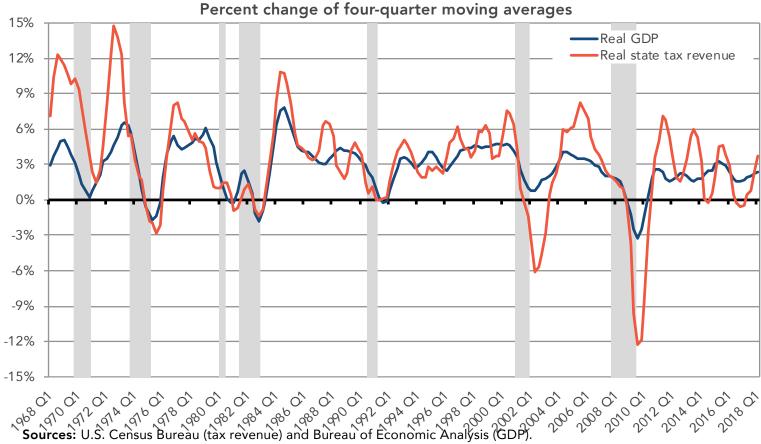
Overview: State fiscal and economic challenges

- 10+ years later states still feeling the pain of the Great Recession
 - State-local taxes only 13.4% above prior peak
- Variables that drive revenue hit harder than broader economy, harder than before
- State government tax recovery is weak and slow
 - Sales taxes: above pre-recession level, but stagnant
 - Personal income taxes: stronger recovery, but quite volatile
 - Corporate income taxes: NO recovery
 - Local property taxes: continued but soft growth
- Oil & coal-dependent states hit hard
 - Declines in taxes & employment
- Growing uncertainty due to TCJA and other federal policies



State taxes & the economy: States taxes are far more volatile



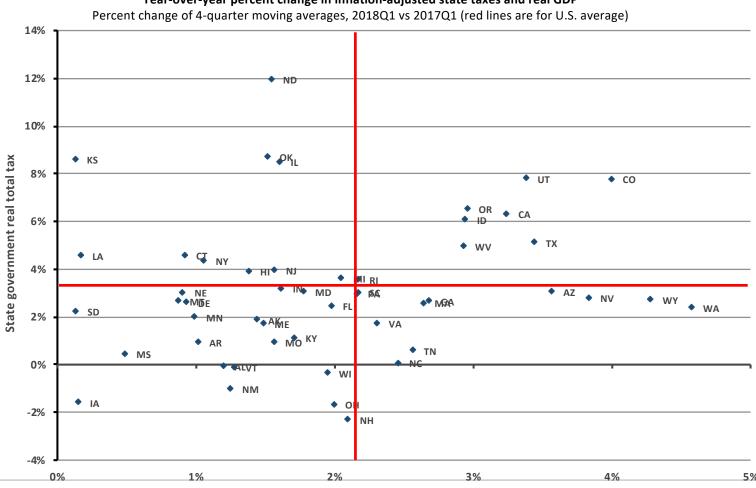


Notes: (1) Percentage change of 2-quarter moving averages; (2) No legislative adjustments; (3) Recession periods are

State Tax Revenues vs. State GDP: Growth disparity & large disparities among the states



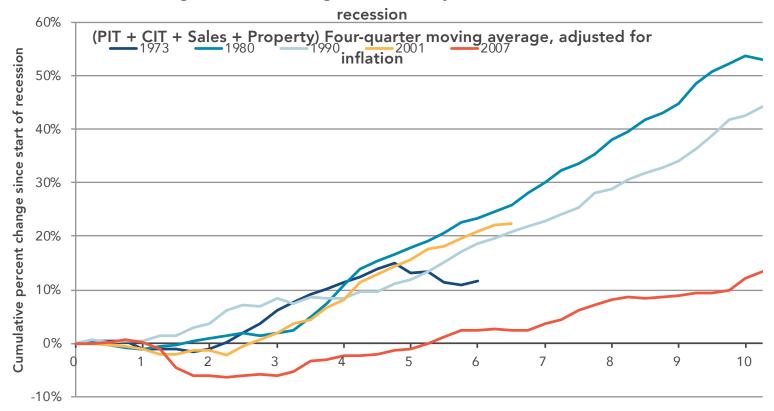
Year-over-year percent change in inflation-adjusted state taxes and real GDP





State & local government tax revenues: Only 13.4% above prior peak

Percent change in state & local government major tax revenue since start of



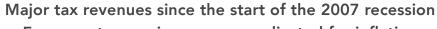
of years since start of recession

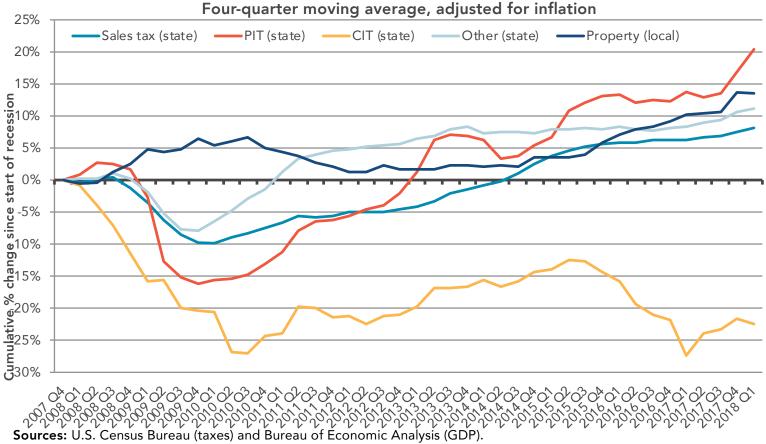
Sources: U.S. Census Bureau (taxes) and Bureau of Economic Analysis (GDP).

Notes: Data are shown only until the start of the next recession; 1980 & 1981 recessions are treated as single

"other" taxes; corporate incomes taxes still below prior peak



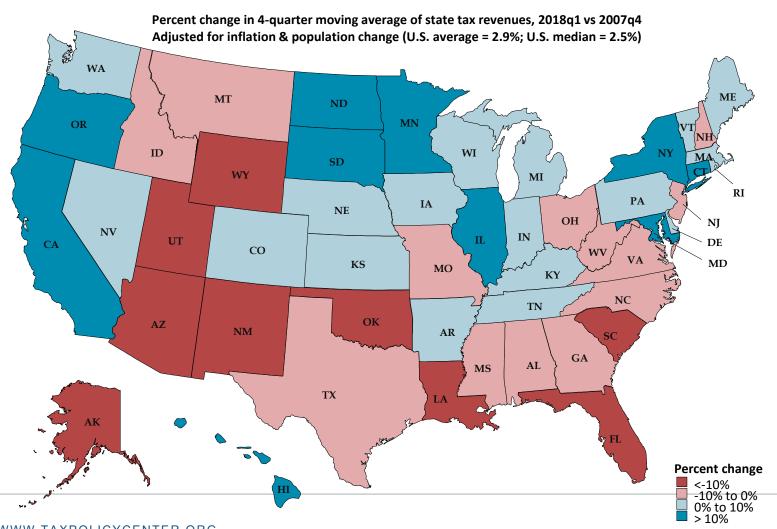




Notes: (1) 4-quarter moving average of inflation-adjusted tax revenue; (2) No adjustments for legislative changes.

State taxes, adjusted for inflation & population growth, still below pre-recession in 22 states

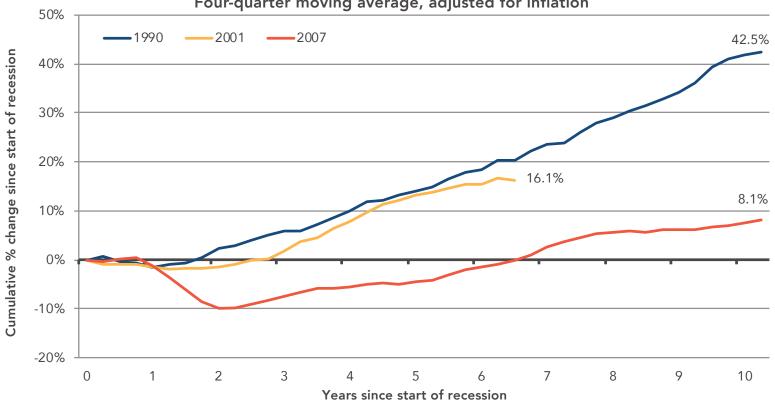






State government sales taxes: Recovery is extremely weak

State sales tax revenue since the start of the recession Four-quarter moving average, adjusted for inflation



Sources: U.S. Census Bureau (taxes) and Bureau of Economic Analysis (GDP).

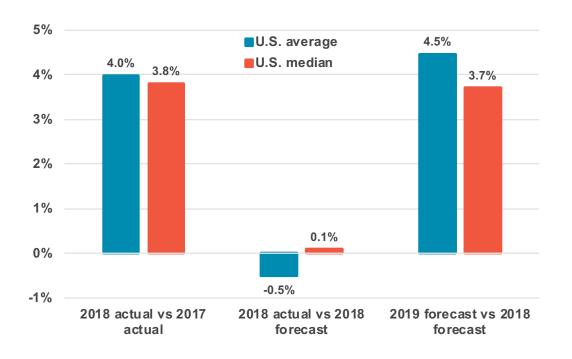
Notes: 4-quarter moving average of inflation-adjusted tax revenue. Data are shown only until the start of the next

recession.

State sales taxes: Actual collections vs. forecasts



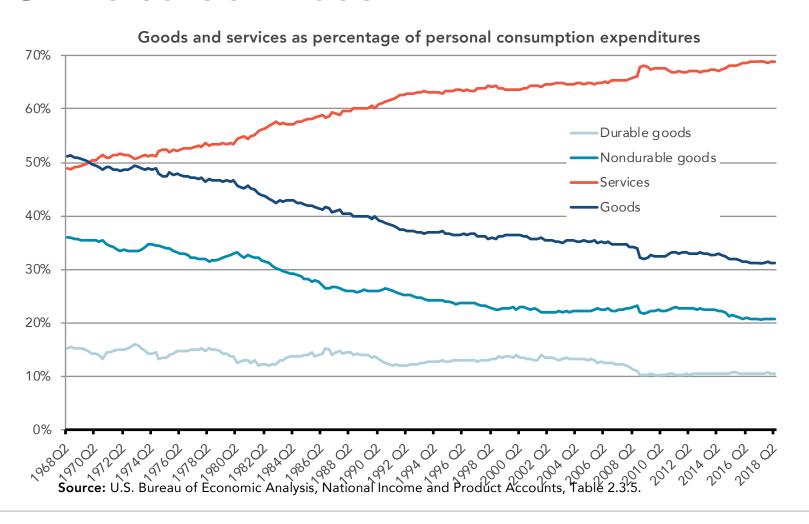
		Sales tax (\$ millions)		Forecast date	Percent change		
State	FY 2017 actual	FY 2018 actual	FY 2018 forecast	FY 2019 forecast		2018 actual vs 2017 actual	2018 actual vs 2018 forecast	2019 forecast vs 2018 forecast
TX	28,900.0	31,937.2	31,724.3	33,506.2	Jul-18	10.5	0.7	5.6
UT	1,871.9	2,038.4	1,989.8	2,101.6	Mar-18	8.9	2.4	5.6
СО	2,987.2	3,235.9	3,224.6	3,410.4	Mar-18	8.3	0.4	5.8
ID	1,382.4	1,490.0	1,471.5	1,546.1	Jan-18	7.8	1.3	5.1
WA	10,197.7	10,953.3	10,854.5	11,417.6	Feb-18	7.4	0.9	5.2
ME	1,336.9	1,423.6	1,409.5	1,466.0	Mar-18	6.5	1.0	4.0
AZ	4,506.2	4,787.6	4,733.6	4,915.7	Apr-18	6.2	1.1	3.8
RI	998.2	1,057.2	1,051.5	1,082.0	May-18	5.9	0.5	2.9
VT	376.7	397.8	391.2	400.9	Jan-18	5.6	1.7	2.5
FL	22,987.4	24,138.7	24,136.8	25,187.6	Feb-18	5.0	0.0	4.4
HI	3,239.2	3,395.6	3,432.4	3,562.3	May-18	4.8	(1.1)	3.8
SC	2,896.3	3,034.4	3,041.2	3,147.7	Apr-18	4.8	(0.2)	3.5
NC	7,004.0	7,337.4	7,261.8	7,624.9	May-18	4.8	1.0	5.0
IA	2,812.3	2,941.5	2,938.5	3,039.3	Mar-18	4.6	0.1	3.4
WI	5,223.9	5,447.8	5,465.0	5,650.0	Jan-18	4.3	(0.3)	3.4
SD	951.2	988.8	992.1	1,030.4	Feb-18	4.0	(0.3)	3.9
MA	6,211.0	6,454.0	6,512.0	6,650.0	Dec-17	3.9	(0.9)	2.1
GA	5,715.9	5,938.5	5,874.5	6,092.0	Jan-18	3.9	1.1	3.7
TN	8,556.8	8,887.6	8,714.2	9,023.8	Jan-18	3.9	2.0	3.6
PA	10,005.2	10,381.4	10,303.0	10,687.0	May-18	3.8	0.8	3.7
СТ	4,193.9	4,342.7	4,150.9	4,182.6	Apr-18	3.5	4.6	0.8
NE	1,548.4	1,602.7	1,620.0	1,685.0	Feb-18	3.5	(1.1)	4.0
KY	3,485.2	3,605.7	3,611.9	3,699.4	Dec-17	3.5	(0.2)	2.4
AR	2,337.9	2,417.5	2,418.9	2,487.7	May-18	3.4	(0.1)	2.8
VA	3,357.1	3,461.8	3,458.2	3,547.1	Dec-17	3.1	0.1	2.6
NY	16,212.0	16,711.0	16,754.0	17,664.0	Feb-18	3.1	(0.3)	5.4
KS	2,670.5	2,748.2	2,727.0	2,766.4	May-18	2.9	0.8	1.4
IL	8,043.0	8,256.0	8,304.0	8,491.0	Mar-18	2.6	(0.6)	2.3
MD	4,539.3	4,645.8	4,611.7	4,750.9	Mar-18	2.3	0.7	3.0
IN	7,489.5	7,662.6	7,584.1	7,837.9	Dec-17	2.3	1.0	3.3
MO	2,147.1	2,196.7	2,195.4	2,240.9	Jan-18	2.3	0.1	2.1
MS	2,289.3	2,340.4	2,303.1	2,333.6	Nov-17	2.2	1.6	1.3
wv	1,222.3	1,247.0	1,259.0	1,288.5	Nov-17	2.0	(1.0)	2.3
NJ	9,439.1	9,610.4	10,334.0	11,180.0	Feb-18	1.8	(7.0)	
CA	24,712.4	24,859.9	25,384.0	26,674.0	May-18	0.6	(2.1)	
MN	5,405.1	5,433.0	5,489.0	5,775.0	Feb-18	0.5	(1.0)	
ОН	10,614.6	10,148.2	10,853.8	11,549.3	Jan-17	(4.4)	(6.5)	
NV	1,090.7	939.5	1,154.7	1,214.5	Nov-17	(13.9)	(18.6)	1



Sales tax	2018 actual vs 2017 actual		2019 forecast vs 2018 forecast
# states with <0% growth	2	16	-
# states with >5% growth	10	-	12



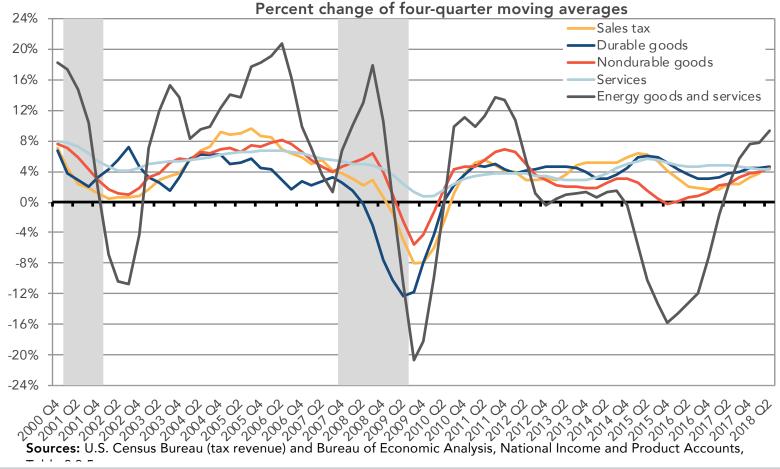
Sales tax base & collections: Shift to services





Substantial recovery in energy goods; modest growth in sales tax

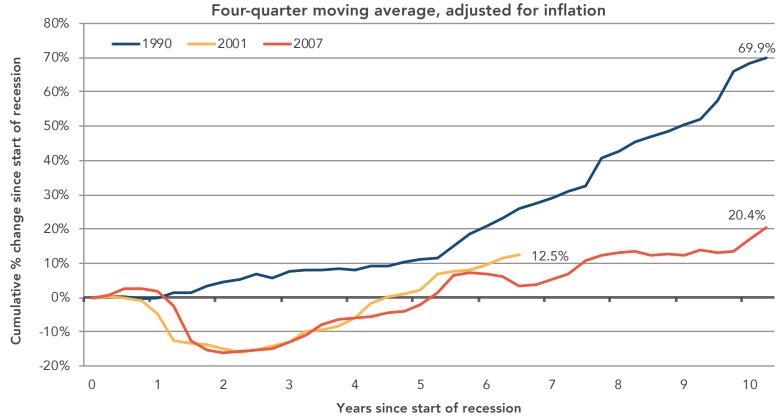






State government personal income taxes: Stronger recovery, but volatile

State personal income tax revenue since the start of the recession



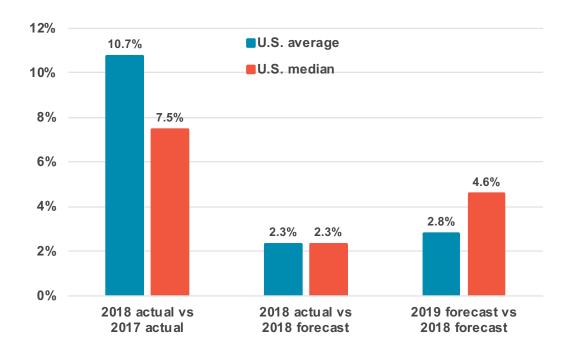
Sources: U.S. Census Bureau (taxes) and Bureau of Economic Analysis (GDP).

Notes: 4-quarter moving average of inflation-adjusted tax revenue. Data are shown only until the start of the next recession.

State personal income taxes: Actual collections vs. forecasts



	Per	sonal income	tax (\$ millio	ons)		Percent change		
State	FY 2017 actual	FY 2018 actual	FY 2018 forecast	FY 2019 forecast	Forecast date	2018 actual vs 2017 actual	2018 actual vs 2018 forecast	2019 forecast vs 2018 forecast
KS	2,304.0	3,374.4	3,145.0	3,334.2	May-18	46.5	7.3	6.0
IL	13,661.0	18,747.0	18,551.0	19,027.0	Mar-18	37.2	1.1	2.6
СТ	8,988.7	10,769.8	10,525.8	9,707.6	Apr-18	19.8	2.3	(7.8
н	2,192.3	2,491.9	2,392.4	2,537.4	May-18	13.7	4.2	6.1
CA	82,718.0	93,478.2	91,971.0	95,009.0	May-18	13.0	1.6	3.3
со	6,760.9	7,577.2	7,484.3	8,075.0	Mar-18	12.1	1.2	7.9
ID	1,651.2	1,837.5	1,759.7	1,853.2	Jan-18	11.3	4.4	5.3
MT	1,168.2	1,297.8	1,320.8	1,404.4	Apr-17	11.1	(1.7)	6.3
UT	3,605.9	3,991.4	3,891.4	4,128.4	Mar-18	10.7	2.6	6.1
MA	14,684.0	16,240.0	15,294.0	16,102.0	Dec-17	10.6	6.2	5.3
ОН	7,606.5	8,411.0	7,027.1	6,755.8	Jan-17	10.6	19.7	(3.9)
VT	756.5	832.0	793.7	846.9	Jan-18	10.0	4.8	6.7
AZ	4,130.9	4,543.2	4,418.8	4,577.9	Apr-18	10.0	2.8	3.6
NJ	14,074.3	15,366.7	14,980.0	16,232.0	Feb-18	9.2	2.6	8.4
NY	47,565.0	51,501.0	50,935.0	49,244.0	Feb-18	8.3	1.1	(3.3
RI	1,243.8	1,345.3	1,357.2	1,381.2	May-18	8.2	(0.9)	1.8
VA	13,052.9	14,105.8	13,491.9	14,110.4	Dec-17	8.1	4.6	4.6
MN	10,931.2	11,781.0	11,451.0	12,263.0	Feb-18	7.8	2.9	7.1
DE	1,333.2	1,428.2	1,406.7	1,500.1	May-18	7.1	1.5	6.6
SC	4,107.6	4,398.4	4,295.4	4,425.4	Apr-18	7.1	2.4	3.0
IN	5,435.3	5,816.1	5,687.1	5,922.9	Dec-17	7.0	2.3	4.1
IA	4,469.0	4,746.7	4,737.0	4,985.4	Mar-18	6.2	0.2	5.2
NE	2,224.8	2,360.6	2,330.0	2,470.0	Feb-18	6.1	1.3	6.0
GA	10,977.7	11,643.8	11,415.9	12,025.9	Jan-18	6.1	2.0	5.3
wv	1,813.9	1,919.6	1,860.0	1,961.0	Nov-17	5.8	3.2	5.4
PA	12,664.4	13,399.0	13,391.0	14,001.0	May-18	5.8	0.1	4.6
OR	8,341.3	8,815.7	8,495.6	8,679.2	Mar-18	5.7	3.8	2.2
MO	7,320.6	7,728.5	7,552.5	7,789.2	Jan-18	5.6	2.3	3.1
WI	8,039.5	8,479.2	8,380.0	8,720.0	Jan-18	5.5	1.2	4.1
MD	9,019.3	9,507.8	9,289.1	10,156.9	Mar-18	5.4	2.4	9.3
KY	4,393.9	4,603.6	4,509.0	4,649.5	Dec-17	4.8	2.1	3.1
ME	1,523.9	1,595.2	1,554.8	1,663.1	Mar-18	4.7	2.6	7.0
NC	11,969.7	12,517.5	12,537.6	12,799.6	May-18	4.6	(0.2)	
AR	2,767.8	2,866.2	2,838.0	2,924.2	May-18	3.6	1.0	3.0
MS	1,781.7	1,826.6	1,835.0	1,807.3	Nov-17	2.5	(0.5)	(1.5
TN	250.1	246.5	205.4	157.9	Jan-18	(1.4)	20.0	(23.1

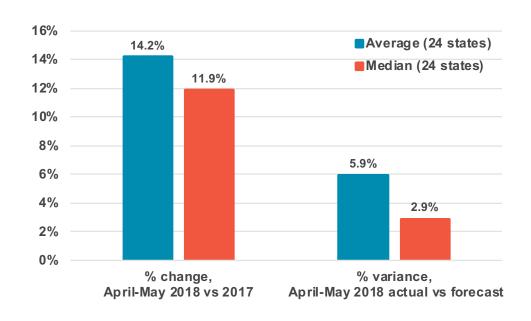


Personal income tax	2018 actual vs 2017 actual	2018 actual vs 2018 forecast	2019 forecast vs 2018 forecast
# states with <0% growth	1	4	5
# states with >5% growth	30	4	17

April-May income tax revenues: Actual collections vs. forecasts



State	April-May 2017 actual (\$ millions)	April-May 2018 actual (\$ millions)	% change, April-May 2018 vs 2017	April-May 2018 forecast (\$ millions)	April-May 2018 actual (\$ millions)	% variance, April-May 2018 actual vs forecast	Forecast date
NY	7,103.1	8,040.0	13.2%	6,378.0	8,040.0	26.1%	Feb-18
KS	477.4	829.8	73.8%	687.3	829.8	20.7%	Apr-18
ME	323.3	355.9	10.1%	304.7	355.9	16.8%	Mar-18
VT	173.8	209.8	20.7%	182.6	209.8	14.9%	Jan-18
ОН	1,338.4	1,624.6	21.4%	1,433.6	1,624.6	13.3%	
NM	334.2	390.2	16.8%	344.4	390.2	13.3%	Jan-18
ОК	439.5	514.5	17.1%	459.2	514.5	12.0%	
ND	94.6	119.8	26.7%	109.9	119.8	9.0%	May-17
CA	16,876.1	18,992.9	12.5%	17,949.6	18,992.9	5.8%	Jan-18
WV	392.4	424.7	8.2%	403.2	424.7	5.3%	Nov-17
RI	234.0	270.0	15.4%	261.9	270.0	3.1%	Nov-17
AZ	838.8	932.7	11.2%	905.0	932.7	3.1%	Jan-18
SC	591.5	676.0	14.3%	658.0	676.0	2.7%	Apr-18
MA	3,219.0	3,453.0	7.3%	3,399.0	3,453.0	1.6%	Jan-18
PA	2,758.8	3,008.5	9.0%	2,992.1	3,008.5	0.5%	Jun-17
IN	1,303.1	1,389.7	6.6%	1,387.8	1,389.7	0.1%	Dec-17
IL	3,139.3	4,579.1	45.9%	4,698.6	4,579.1	-2.5%	Feb-18
AR	569.6	563.1	-1.1%	578.7	563.1	-2.7%	Nov-17
WI	1,485.7	1,523.4	2.5%	1,567.1	1,523.4	-2.8%	Jan-18
NE	494.4	515.8	4.3%	541.7	515.8	-4.8%	Nov-17
MS	414.7	435.8	5.1%	462.3	435.8	-5.7%	
MT	254.2	286.4	12.7%	312.6	286.4	-8.4%	Apr-17
ID	442.7	441.5	-0.3%	482.1	441.5	-8.4%	Jan-18
СО	1,527.7	1,601.6	4.8%	1,810.4	1,601.6	-11.5%	Mar-18



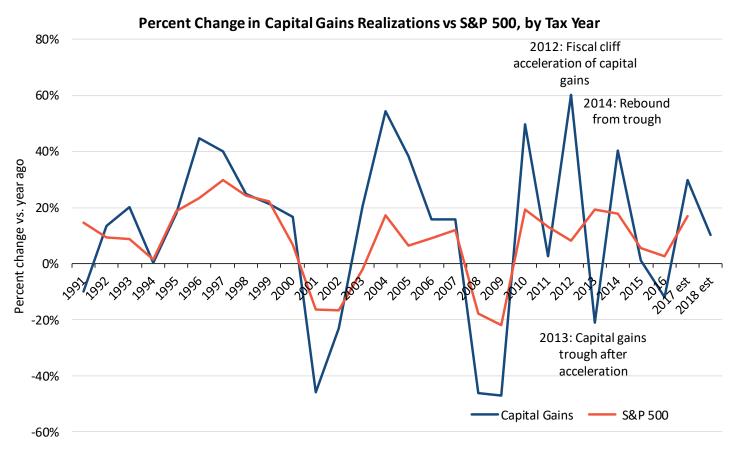


Income shifting & capital gains

- In concept, taxpayers can shift many kinds of income, but...:
 - "Regular" wages not so easy work less now, more later
 - Bonus wages easier firms could shift out of Q4 into Q1 or vice versa
 - IRA distributions maybe not so hard
 - Dividends boards of closely held firms could delay payouts
 - Capital gains easiest defer stock sales (rearrange assets); concentrated 70% of cap gains claimed by just 0.7% of taxpayers



Capital gains are loosely related to the stock market

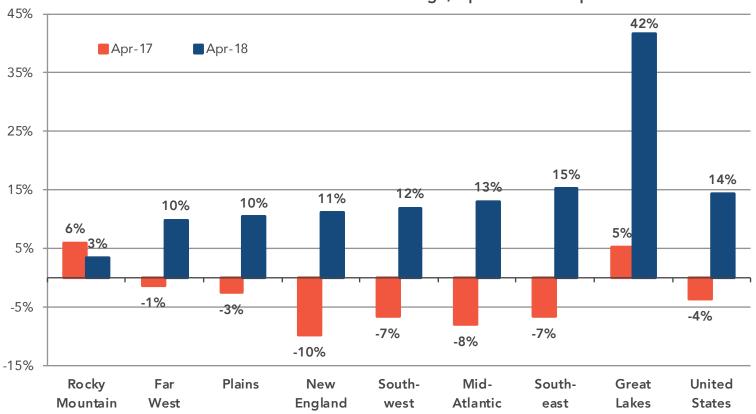


Sources: Congressional Budget Office, https://www.cbo.gov/about/products/budget-economic-data#7 and S&P500 from Yahoo Finance, https://finance.yahoo.com/g/hp?s=^GSPC.



State personal income taxes: Shortfalls last April; windfalls (?) this April

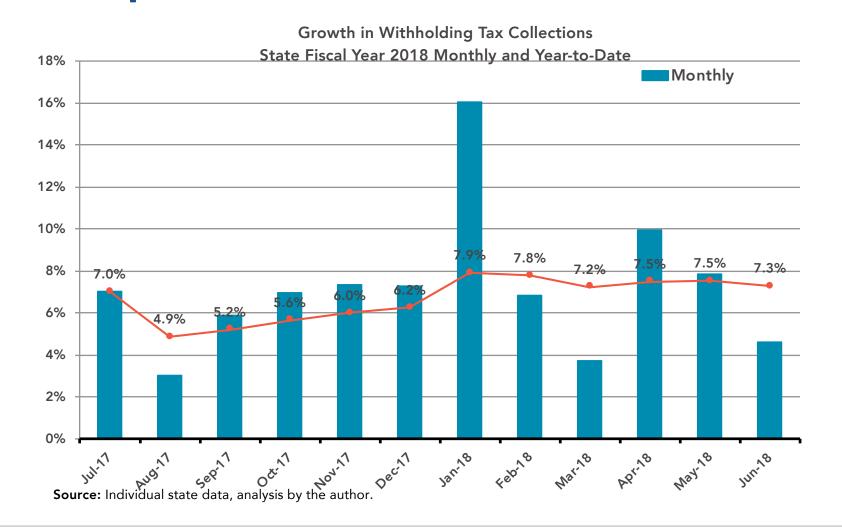




Source: Individual state data, analysis by the author.

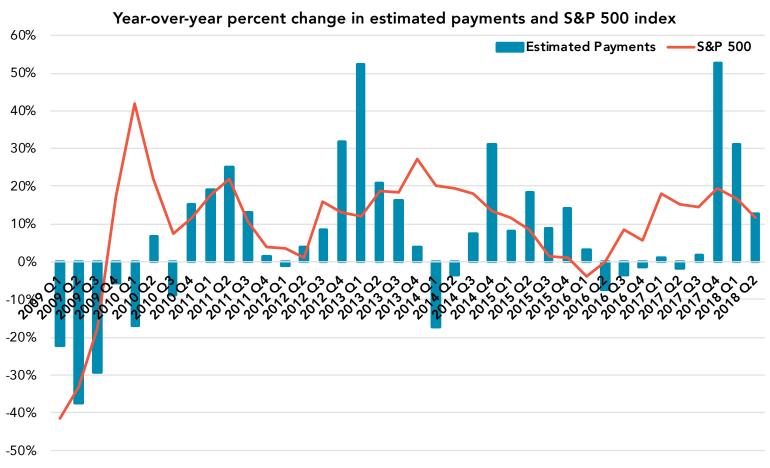
Withholding Was Substantially Stronger in January & April







Large volatility in estimated payments

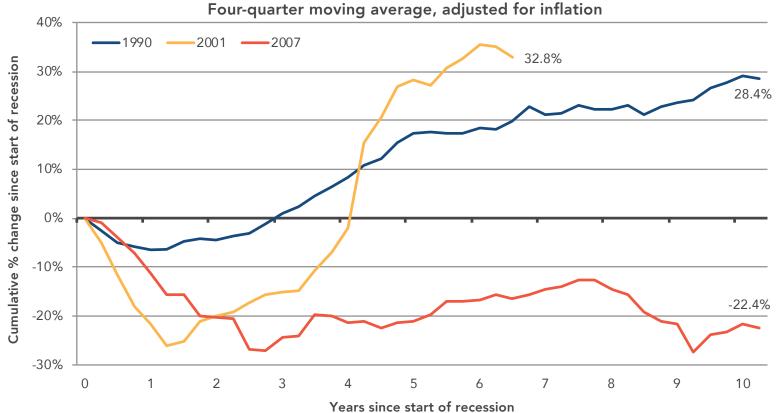


Source: Individual state data (estimated payments) and Yahoo Finance (S&P500). Analysis by the author.



State government corporate income taxes: There is NO recovery

State corporate income tax revenue since the start of the recession



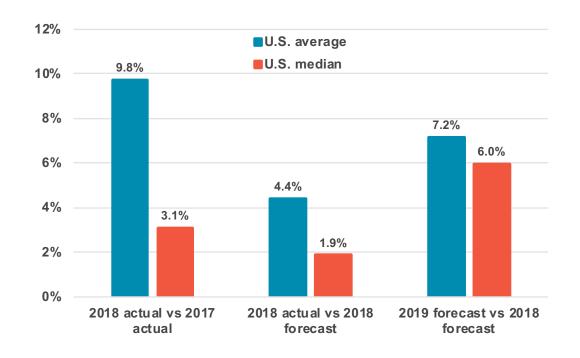
Sources: U.S. Census Bureau (taxes) and Bureau of Economic Analysis (GDP).

Notes: 4-quarter moving average of inflation-adjusted tax revenue. Data are shown only until the start of the next recession.

State corporate income taxes: Actual collections vs. forecasts



	Corp	orate incom	e tax (\$ milli	ons)		Percent change		
State	FY 2017 actual	FY 2018 actual	FY 2018 forecast	FY 2019 forecast	Forecast date	2018 actual vs 2017 actual	2018 actual vs 2018 forecast	2019 forecast vs 2018 forecast
IL	1,332.0	2,150.0	2,110.0	2,212.0	Mar-18	61.4	1.9	4.8
СО	509.3	781.9	614.9	658.8	Mar-18	53.5	27.2	7.1
UT	333.1	449.4	342.7	359.2	Mar-18	34.9	31.1	4.8
OR	585.8	736.8	557.5	420.7	Mar-18	25.8	32.2	(24.5
MT	134.0	167.1	168.8	171.7	Apr-17	24.7	(1.0)	1.8
CA	10,112.5	12,488.3	11,246.0	12,248.0	May-18	23.5	11.0	8.9
KS	366.1	438.0	372.0	394.0	May-18	19.6	17.7	5.9
NE	264.4	313.7	295.0	300.0	Feb-18	18.6	6.3	1.7
SC	320.4	375.2	344.5	358.9	Apr-18	17.1	8.9	4.2
ID	214.0	240.8	215.8	235.0	Jan-18	12.5	11.6	8.9
MA	2,497.0	2,772.0	2,562.0	2,596.0	Dec-17	11.0	8.2	1.3
RI	141.5	156.9	161.2	197.8	May-18	10.9	(2.7)	22.7
MN	1,205.4	1,321.0	1,301.0	1,295.0	Feb-18	9.6	1.5	(0.5
MO	435.1	461.7	469.7	490.3	Jan-18	6.1	(1.7)	
ME	175.2	185.7	171.9	183.6	Mar-18	6.0	8.0	6.8
PA	2,751.5	2,879.0	2,896.0	3,163.0	May-18	4.6	(0.6)	9.2
VA	827.0	861.9	874.0	912.0	Dec-17	4.2	(1.4)	4.3
GA	971.8	1,004.3	998.8	1,068.0	Jan-18	3.3	0.5	6.9
MD	795.6	820.4	815.1	929.9	Mar-18	3.1	0.7	14.1
KY	497.5	511.4	558.6	600.6	Dec-17	2.8	(8.4)	7.5
IA	549.7	565.0	564.8	649.0	Mar-18	2.8	0.0	14.9
NY	6,979.0	7,164.0	7,346.0	8,258.0	Feb-18	2.7	(2.5)	12.4
FL	2,366.4	2,413.0	2,320.4	2,394.8	Feb-18	2.0	4.0	3.2
MS	564.0	572.3	550.9	550.9	Nov-17	1,5	3.9	0.0
AZ	368.1	373.1	302.6	309.5	Apr-18	1.3	23.3	2.3
NJ	2,202.1	2,225.4	2,200.0	2,437.0	Feb-18	1.1	1.2	10.8
VT	95.8	96.4	79.4	89.6	Jan-18	0.6	21.4	12.8
AR	366.5	363.9	386.8	411.9	May-18	(0.7)	(5.9)	6.5
NC	752.2	739.0	733.7	720.9	May-18	(1.8)	0.7	(1.7
TN	2,620.2	2,564.2	2,436.2	2,523.9	Jan-18	(2.1)	5.3	3.6
WI	920.9	893.9	950.0	960.0	Jan-18	(2.9)	(5.9)	1.1
WV	116.3	110.1	109.0	142.1	Nov-17	(5.4)	1.0	30.4
SD	14.7	13.5	9.1	11.9	Feb-18	(8.1)	48.3	30.5
HI	76.8	69.0	85.4	105.4	May-18	(10.1)	(19.2)	23.4
СТ	1,037.6	920.6	868.2	920.2	Apr-18	(11.3)	6.0	6.0
DE	120.8	89.7	86.9	91.0	May-18	(25.7)	3.2	4.7
IN	978.7	660.4	774.8	870.7	Dec-17	(32.5)	(14.8)	12.4

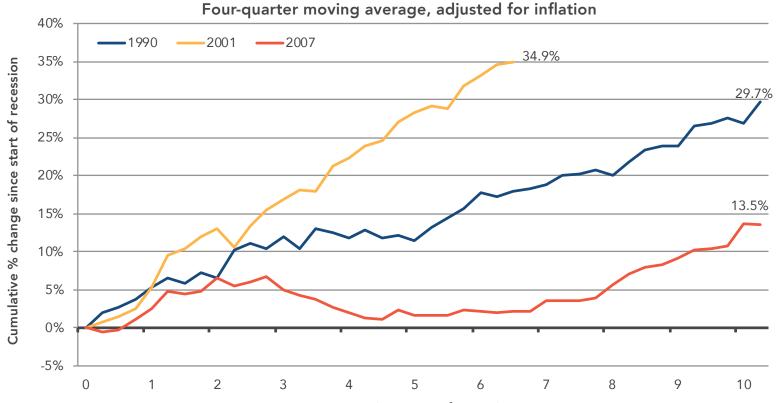


Corporate income tax	2018 actual vs 2017 actual		2019 forecast vs 2018 forecast
# states with <0% growth	10	11	3
# states with >5% growth	15	15	20



Local government property taxes: Continued growth

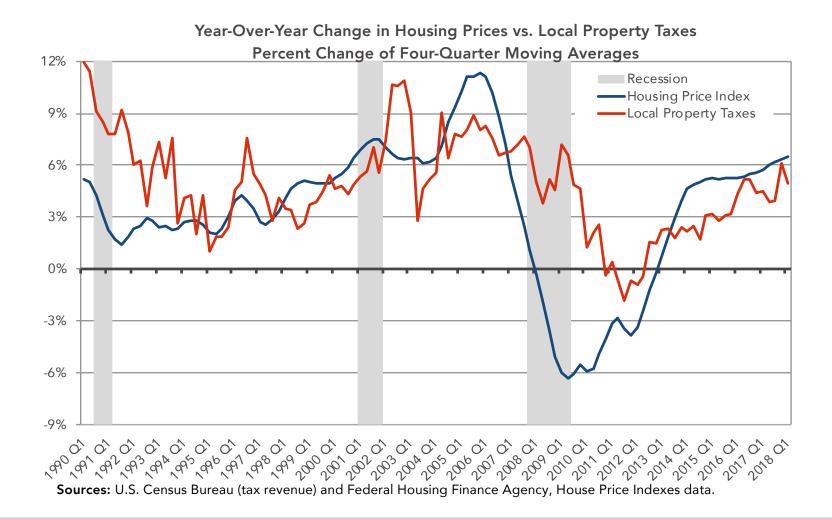
Local government property tax revenue since the start of the recession



Years since start of recession Sources: U.S. Census Bureau (taxes) and Bureau of Economic Analysis (GDP).

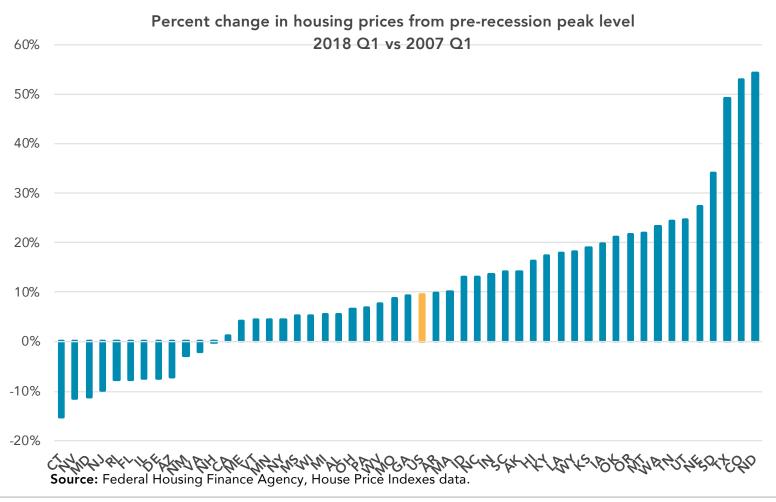
Notes: 4-quarter moving average of inflation-adjusted tax revenue. Data are shown only until the start of the next recession.

Continued growth in housing prices & local propertime taxes





Growth in housing price indexes since the prerecession peak: Large state disparities





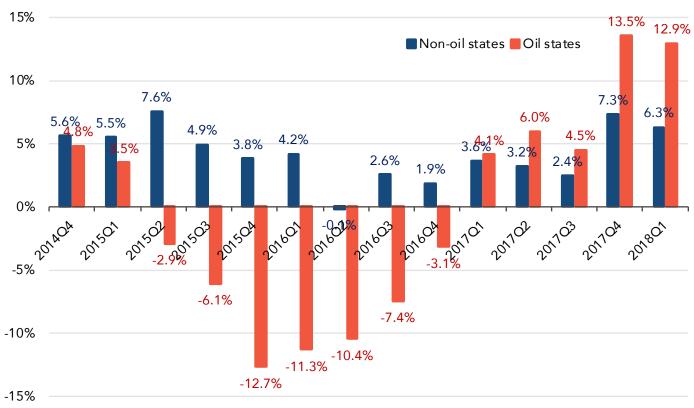
Oil & trouble





Oil & coal states: State tax revenues rebounding after 7 consecutive quarterly declines

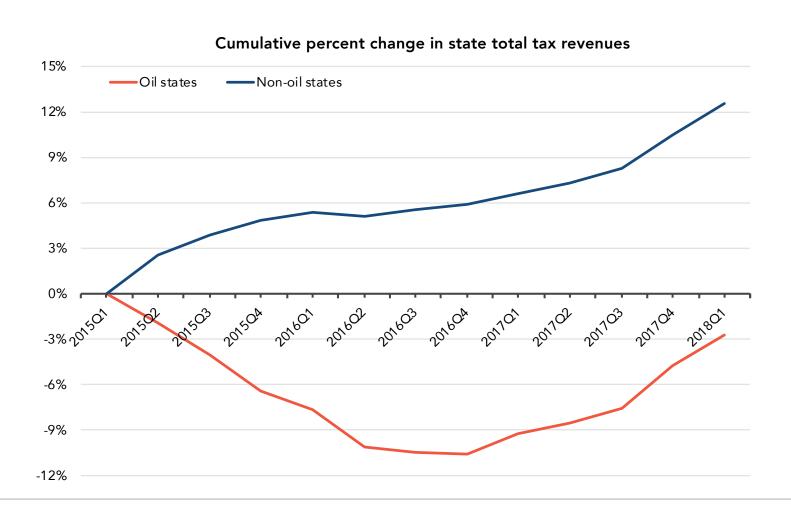
Year-Over-Year Percent Change in State Taxes



Source: Author's analysis of Census Bureau data.

Oil & coal states: Despite recovery, state taxes still below 2015 Q1 levels

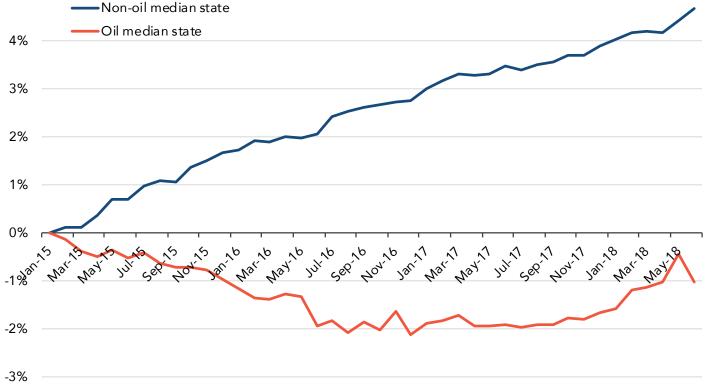






Oil & coal states: Employment is also still below peak levels





Source: Author's analysis of Bureau of Labor Statistics data.

5%



Recap: Slow revenue recovery & growing revenue volatility

- The revenue recovery is weak & prolonged compared to previous recessions
- Differing fiscal, tax & economic structures play important roles
- State tax revenues increasingly more reliant on economically sensitive taxes
- Income taxes rely more heavily on volatile income capital gains, bonuses
- Sales tax bases are eroding (taxation of goods & services sold over the Internet)
- Many services hard to tax: politically, legally, administratively
- Single-year cash balance is the goal (gimmicks, one-time solutions)
- Demographic changes and taxes
- No serious multi-year financial planning
- Higher reliance on more regressive taxes



Thank you!

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October 8, 2018