Eastern Michigan University
DigitalCommons@EMU

Senior Honors Theses & Projects

Honors College

2004

Governmental accounting research: An analysis of state performance

Anthony D. Kurek

Follow this and additional works at: https://commons.emich.edu/honors

Recommended Citation

Kurek, Anthony D., "Governmental accounting research: An analysis of state performance" (2004). *Senior Honors Theses & Projects*. 72. https://commons.emich.edu/honors/72

This Open Access Senior Honors Thesis is brought to you for free and open access by the Honors College at DigitalCommons@EMU. It has been accepted for inclusion in Senior Honors Theses & Projects by an authorized administrator of DigitalCommons@EMU. For more information, please contact lib-ir@emich.edu.

Governmental accounting research: An analysis of state performance

Abstract

Every state throughout the United States of America incurs significant expenses each year. Unlike a forprofit business, states cannot attempt to cover these expenses by selling a product to generate revenues. Instead, revenues are acquired through four main sources: charges for services, operating grants and contributions, capital grants and contributions, and taxes.

Even though every state relies heavily on the generation of revenues from taxes, certain states choose not to put in place one of the two most significant tax revenue sources: the personal income tax and the sales tax; one state—Alaska—has chosen to circumvent both. Understanding how large an impact the abovementioned tax sources had on a state's overall ability to generate revenues, and thus cover their expenses, it would be reasonable to assume the states that have chosen not to implement either the personal income tax or sales tax, or both, would be in a worse financial situation than the states that put both into practice. Through an analysis of the change in net assets as a percentage of total revenues, and the fund profit margin, for a total of twenty states— those that do not implement an income tax, a sales tax, or both, and those possessing the highest income tax rates and sales tax rates—it can be concluded that the aforementioned assumption is false.

Not having a personal income tax or a sales tax has little effect on the results of a state's change in net assets as a percentage of total revenues and fund profit margin. The results of the analysis produced too great an assortment of positive and negative state financial positions to result in any real correlation. States with both an income tax and sales tax were just as likely to be in a negative financial situation as those states that did not possess an income tax or sales tax, and vice versa. It really boils down to how efficiently and effectively a governmental entity spends, having an approximate idea of how much revenue they will generate with or without an income tax or sales tax. Total expenditures on a per capita level may suffer a bit in states that do not have an income tax or sales tax, but there is no evidence to suggest that not having one or both of these taxes has an effect on a state's "profit margin" figures. The tables that follow provide evidence supporting the conclusion of the conducted analysis.

Degree Type

Open Access Senior Honors Thesis

Department

Accounting and Finance

Keywords

Finance, Public United States States, Sales tax Rates and tables, Sales tax, Income tax Rates and tables, Income tax

Anthony D. Kurek

ACC 497 – Spring '04

Honors Thesis in Governmental Accounting

Research—An Analysis of State Performance

Every state throughout the United States of America incurs significant expenses each year. Unlike a for-profit business, states cannot attempt to cover these expenses by selling a product to generate revenues. Instead, revenues are acquired through four main sources: charges for services, operating grants and contributions, capital grants and contributions, and taxes.

Even though every state relies heavily on the generation of revenues from taxes, certain states choose not to put in place one of the two most significant tax revenue sources: the personal income tax and the sales tax; one state—Alaska—has chosen to circumvent both. Understanding how large an impact the abovementioned tax sources had on a state's overall ability to generate revenues, and thus cover their expenses, it would be reasonable to assume the states that have chosen not to implement either the personal income tax or sales tax, or both, would be in a worse financial situation than the states that put both into practice. Through an analysis of the change in net assets as a percentage of total revenues, and the fund profit margin, for a total of twenty states—those that do not implement an income tax, a sales tax, or both, and those possessing the highest income tax rates and sales tax rates—it can be concluded that the aforementioned assumption is false.

Not having a personal income tax or a sales tax has little effect on the results of a state's change in net assets as a percentage of total revenues and fund profit margin. The results of the analysis produced too great an assortment of positive and negative state financial positions to result in any real correlation. States with both an income tax and sales tax were just as likely to be in a negative financial situation as those states that did

not possess an income tax or sales tax, and vice versa. It really boils down to how efficiently and effectively a governmental entity spends, having an approximate idea of how much revenue they will generate with or without an income tax or sales tax. Total expenditures on a per capita level may suffer a bit in states that do not have an income tax or sales tax, but there is no evidence to suggest that not having one or both of these taxes has an effect on a state's "profit margin" figures. The tables that follow provide evidence supporting the conclusion of the conducted analysis. The accompanying tables and notes represent the details of my research pertaining to state income and sales tax rates:

Brief Summary of General Findings:

States with no income tax:

Alaska Florida Nevada South Dakota Texas Washington Wyoming

States with highest variable income tax rates:

Montana (11%) Vermont (9.5%) California (9.3%) Washington D.C. (9.3%) Oregon (9%) Iowa (8.98%) Maine (8.5%)

States with no sales tax:

Alaska Delaware Montana New Hampshire Oregon Hawaii (See Below) New Mexico (See Below)

States with highest state sales tax rate:

Tennessee (7%) Rhode Island (7%) Mississippi (7%) Minnesota (6.5%) Nevada (6.5%) Washington (6.5%)

Only state with no income or sales tax:

Alaska

States with a flat income tax rate:

Colorado Illinois Indiana Massachusetts Michigan Pennsylvania Rhode Island

States taxing income only in the form of interest and dividends:

New Hampshire Tennessee

Individual state analysis results:

	Income Tax Rates		
State/District	Low	High	State Sales Tax Rate
Alabama	2%	5%	4%

- Over 200 additional city and county sales taxes exist in the state of Alabama, which could substantially increase the sales tax rate at the time of purchase.
 - The state itself retains only 4% of the total sales tax applied to each purchase, however.

Income Tax Rates			
State/District	Low	High	State Sales Tax Rate
Alaska	None		None

- Alaska is the only state that does not enforce a state income tax or sales tax.
- Eighty nine Alaska municipalities enforce local sales taxes, which range from 1% to 7%.

State/District	Low	High	State Sales Tax Rate
Arizona	2.87%	5.04%	5.6%

- All fifteen Arizona counties levy a local tax.
- Incorporated Arizona municipalities also enforce transaction privilege taxes.
- The combined sales tax rate—the state enforced 5.6% sales tax rate combined with any local sales tax rates that may apply—can reach as high as 10.1% in Arizona.

	Income Tax Rates		
State/District	Low	High	State Sales Tax Rate
Arkansas	1%	6.5%	5.125%

- There exist over 300 local sales taxes in the state of Arkansas.
- Taxpayers with a total annual household income of less than \$12,000 are permitted a sales tax exemption for electricity usage.

			State Sales Tax
State/District	Low	High	Rate
California	1%	9.3%	6%

• Certain local taxes apply throughout the state of California that could drive the combined sales tax rate to as high as 8.5% (San Francisco County).

	Income Tax Rates			
State/District	Low	High	State Sales Tax Rate	
Colorado	4.63% Flat Rate		2.9%	

- Most services are not subject to Colorado sales tax.
- Additional county, city, and common special district taxes exist in the state of Colorado.

	Income Tax Rates		
			State Sales Tax
State/District	Low	High	Rate
Connecticut	3%	5%	6%

- Most services are not subject to sales taxes in the state of Connecticut.
- There are a number of items that are exempt from sales taxes in the state of Connecticut. Some commonly purchased exempt items include:
 - Bicycle Helmets
 - Articles of clothing or footwear costing under \$50.
 - College Textbooks.
 - Internet Access Services.
 - Magazines sold by subscription and newspapers.
 - Medical goods and equipment.

In a sure Tax Dates

	Income	Tax Rates		
State/District	Low	High	State Sales Tax Rate	
Delaware	2.2%	5.95%	None	
Delaware	2.2/0	0.9070	NONE	

• The state of Delaware is one of five states that do not assess a sales tax upon consumers.

	Income Tax Rates		
			State Sales Tax
State/District	Low	High	Rate
Wash. D.C.	5%	9.3%	5.75%

• The above stated sales tax rate is that which applies to tangible personal property. The District of Columbia actually levies sales taxes at five different rates in an attempt to take advantage of its status as a tourist center. The following sales tax rates also apply:

- 9% for alcohol sold for off-premises consumption.
- $\circ~10\%$ for restaurant meals, take-out food, rental cars and telephone calling cards.
- 12% for commercial parking.
- \circ 14.5% for hotel and motel rooms.
- Certain items are exempt from the District of Columbia sales tax. Exempt items include groceries and prescription drugs.

	Income Tax Rates			
State/District	Low	High	State Sales Tax Rate	
Florida	None		6%	

- The state of Florida is one of seven states that do not assess a personal income tax upon citizens.
- Additional county sales taxes may apply, which could make the combined sales tax rate as high as 9.5%.
- U.S. and Florida state flags are exempt from state and local taxes.

	Income Tax Rates		
State/District	Low	High	State Sales Tax Rate
Georgia	1%	6%	4%

- Certain additional local sales taxes may apply.
- Prescription drugs, certain medical devices, and groceries are exempt from sales taxes.

	Income	Tax Rates	
			State Sales Tax
State/District	Low	High	Rate
Hawaii	1.4%	8.25%	4%*

• Although the above table lists Hawaii's sales tax rate as 4%, Hawaii does not actually have a sales tax. Instead they impose a 4% general excise tax, which is assessed on all business activities, including retail sales. Although termed by the state of Hawaii as an excise tax, this is in essence a sales tax.

	Income 1	Tax Rates	
	_		State Sales Tax
State/District	Low	High	Rate
Idaho	1.6%	7.8%	6%

- Certain local sales taxes may apply to sales in the state of Idaho.
- Sales taxes are not applicable to some services.

• Prescription drugs are not subject to sales taxes.

	Income Tax Rates			
			State Sales Tax	
State/District	Low	High	Rate	
Illinois	3% FI	at Rate	6.25%	

- Certain local sales taxes may apply.
- Qualifying food, drugs, and medical appliances are not subject to the 6.25% sales tax listed above, but instead are taxed at a rate of 1%.

	Income Tax Rates		
State/District	Low	High	State Sales Tax Rate
Indiana	3.4% Flat Rate		6%

• The state of Indiana has no local sales taxes.

	Income T	ax Rates	
State/District	Low	High	State Sales Tax Rate
Iowa	0.36%	8.98%	5%

• Certainly local sales taxes may apply to sales in the state of Iowa. Combined sales tax rates could reach as high as 7%.

	Income	Tax Rates	
Otata /Diatriat		Llinda	State Sales Tax
State/District	Low	High	Rate
Kansas	3.5%	6.45%	5.3%

• Additional city and county sales tax rates could create a combined sales tax rate as high as 8.3%.

	Income ⁻	Tax Rates	
State/District	Low	High	State Sales Tax Rate
Kentucky	2%	6%	6%

	Income ⁻		
State/District	Low	High	State Sales Tax Rate
Louisiana	2%	6%	4%

• Political subdivision local sales taxes may also apply to the 6% sales tax stated above.

	Income ⁻		
State/District	Low	High	State Sales Tax Rate
Maine	2%	8.5%	5%

	Income Tax Rates		
State/District	Low	High	State Sales Tax Rate
Maryland	2%	4.75%	5%

• Local "piggyback income taxes" are applied by all twenty-three Maryland counties, as well as by the city of Baltimore, which range between 1.25% and 3.15%.

	Income Tax Rates		
State/District	Low	Hiah	State Sales Tax Rate
Massachusetts	5.3% F	lat Rate	5%

• The 5% sales tax rate is applied to all tangible personal property.

	Income	Tax Rates	
State/District	Low	High	State Sales Tax Rate
Michigan	4% Flat Rate		6%

• The 4% income tax rate stated above is scheduled to decrease to 3.9% on 7/1/04.

	Income Tax Rates		
State/District	Low	High	State Sales Tax Rate
Minnesota	5.35%	7.85%	6.5%

- Certain local sales taxes may apply that can drive the combined sales tax rate as high as 7.5%.
- Sales of liquor and beer are taxed at 9%.
- Motor vehicle rentals are taxed at 12.7%.

Income Tax Rates

			State Sales Tax
State/District	Low	High	Rate
Mississippi	3%	5%	7%

• A number of additional local county sales taxes apply in the state of Mississippi.

	Income Tax Rates		
State/District	Low High		State Sales Tax Rate
Missouri	1.5%	6%	4.225%

• A number of additional local sales taxes apply in the state of Missouri.

	Income	Tax Rates	
State/District	Low	High	State Sales Tax Rate
Montana	2%	11%	None

• Montana is one of five states that do not assess a sales tax upon consumers.

	Income Tax Rates		
			State Sales Tax
State/District	Low	High	Rate
Nebraska	2.56%	6.84%	5.5%

• Some Nebraska cities can assess an additional local sales tax in the amount of up to 1.5%, making the highest possible combined sales tax rate 7%.

	Income	Tax Rates	
State/District	Low High		State Sales Tax Rate
Nevada	None		6.5%

- The state of Nevada is one of seven states that do not assess a personal income tax upon citizens.
- Certain local sales tax levies may bring the combined sales tax rate up to 7.5%.

	Income Tax Rates			
State/District	Low High		State Sales Tax Rate	
New Hampshire	5% on Dividend and Interest Income Only		None	

- The state of New Hampshire is one of only two states that charge income tax in the form of dividend and interest income only.
- The state of New Hampshire is one of only five states that do not assess a sales tax upon consumers.

	Income	Tax Rates	
State/District	Low	High	State Sales Tax Rate
New Jersey	1.4%	6.37%	6%

- The state of New Jersey offers sales tax exemptions to many items. Some of the exempt items include:
 - Most food items for at home preparation
 - Medicines
 - Clothing and footwear
 - Disposable paper products for in home use
 - o Others.

	Income 1	Tax Rates	
State/District	Low	High	State Sales Tax Rate
New Mexico	1.7%	8.2%	5%*

- The state of New Mexico has certain local sales taxes that could bring the combined sales tax rate to as high as 7.1875%.
- In all actuality, the state of New Mexico does not have a sales tax; instead it imposes what is called a gross receipts tax, which works in generally the same fashion as a sales tax.

	Income	Tax Rates	
01-1-10-1-1-1			State Sales Tax
State/District	Low	High	Rate
New York	4%	6.85%	4.25%

• Certain local levies can drive the combined state sales tax rate to just over 8% in the state of New York.

	Income	Tax Rates	
State/District	Low	High	State Sales Tax Rate
State/District		riigii	Trate
North Carolina	6%	8.25%	4.5%

• Certain local sales taxes can drive the combined state sales tax rate to as high as 7.5% in the state of North Carolina.

	Income	Tax Rates	
.			State Sales Tax
State/District	Low	High	Rate
North Dakota	2.1%	5.54%	5%

- Certain local sales taxes can drive the combined sales tax rate to as high as 8% in the state of North Dakota.
- Electricity, water, and interstate communications are exempt from the state sales tax.
- Sales tax on natural gas is only 2%.
- Sales tax on retail sales of new farm machinery and irrigation equipment is only 3%.

	Income Tax Rates		
State/District	Low	High	State Sales Tax Rate
Ohio	0.743%	7.5%	6%

- Ohio's state sales tax rate was increased from 5% to 6% on July 1, 2003, but is scheduled to fall back to 5% on July 1, 2005.
- Additional local sales taxes can drive the combined sales tax rate to as high as 8% in the state of Ohio.

	Income Tax Rates		
State/District	Low	High	State Sales Tax Rate
Oklahoma	0.5%	7%	4.5%

• Certain local sales taxes may apply throughout the state of Oklahoma.

	Income Tax Rates			
State/District	Low	High	State Sales Tax Rate	
Oregon	5%	9%	None	

• The state of Oregon is one of only five states that do no assess a sales tax upon consumers.

	Income ⁻	Tax Rates	
State/District	Low	High	State Sales Tax Rate
Pennsylvania		lat Rate	6%

- A local sales tax of 1% is collected on the sales of taxable goods and services initiated from a location in the counties of Philadelphia and Allegheny.
- Major items exempt from the sales tax of Pennsylvania: food (not ready to eat), most wearing apparel, drugs, textbooks, sales for resale, and residential heating fuels.

	Income Tax Rates		
State/District	Low	High	State Sales Tax Rate
Rhode Island	25% of Federal Taxable Income		7%

- Forty nine items are exempt from sales taxes in the state of Rhode Island. Some of those items include:
 - Prescriptions
 - o Food
 - Some clothing
 - Precious metal bullion
 - Others

_	Income	Тах	Rates

	income rax rates		
State/District	Low	High	State Sales Tax Rate
South Carolina	2.5%	7%	5%

- South Carolina counties have the option to impose an additional 1% local option sales tax on top of the 5% sales tax.
- Citizens of South Carolina, age 85 and older, get a 1% exclusion from the state 5% sales tax rate with a valid ID shown at the time of purchase.

	Income Tax Rates		
Otata (Diatriat		llink	State Sales Tax
State/District	Low	High	Rate
South Dakota	N	one	4%

- The state of South Dakota is one of seven states that do not assess a personal income tax upon citizens.
- Eligible senior citizens and disabled individuals may be able to get a once-a-year refund of sales taxes. Eligible individuals must:
 - Be 66 years old before January 1st of the current year or disabled during any part of the year,
 - Have been a South Dakota resident for the entire previous year, and
 - Must meet annual income requirements.

Income Tax Rates

		State Sales Tax
Low	High	Rate
6% on l	Dividend	
and li	nterest	
Incom	ne Only	7%
	6% on l and li	Low High 6% on Dividend and Interest Income Only

- The state of Tennessee is one of only two states that charge income tax in the form of dividend and interest income only.
- Certain local sales taxes—ranging from 1.5% to 2.75%—may apply in the state of Tennessee.
- Food is taxed at 6% in the state of Tennessee, rather than the above stated sales tax rate

Income Tax Rates		
Low	High	State Sales Tax Rate
No	5	6.25%
	Low	

- The state of Texas is one of seven states that do not assess a personal income tax upon citizens.
- Certain local sales taxes can add as much as 2% to the set sales tax rate of 6.25%, bring the highest possible combined sales tax rate to 8.25%.
- Texas institutes an additional 2% sales tax on fireworks that benefits rural fire departments.

State/District	Low	High	State Sales Tax Rate		
State/District	LOW	Ingn	Nale		
Utah	2.3%	7%	4.75%		

• The state of Utah has a number of local sales taxes that may apply throughout the state.

	Income T	ax Rates	
			State Sales Tax
State/District	Low	High	Rate
Vermont	3.6%	9.5%	6%

- The state of Vermont has exempted 46 items from their state sales tax. Some of these exempt items include:
 - Medical items
 - o Food
 - Clothing and shoes with a purchase price under \$110
 - Others.

	Income	Tax Rates	
State/District	Low	High	State Sales Tax Rate
Virginia	2%	5.75%	3.5%

• Certain municipalities charge additional local sales taxes on top of the state sales tax rate of 3.5%. The highest possible combined sales tax rate is 4.5%.

	Income	Tax Rates	
State/District	Low	High	State Sales Tax Rate
Washington	N	one	6.5%

- The state of Washington is one of seven states that do not assess a personal income tax upon citizens.
- The state of Washington allows for certain local sales taxes.
- The state of Washington has exempted food, aside from prepared foods, dietary supplements, and soft drinks, from the state sales tax.
- There is no sales tax imposed on most performed professional services and real estate services in the state of Washington.

	Income	Tax Rates	
State/District	Low	High	State Sales Tax Rate
West Virginia	3%	6.5%	Tiered Sales Tax System - See Below

• See the following table for the West Virginia sales tax rates:

West Virginia Tiered Sales	s Tax System:
Sales Price	Тах
\$.06 - \$.16	\$0.01
.1733	0.02
.345	0.03
.5167	0.04
.6884	0.05
.85 - 1.00	0.06
1.01 - 1.16	0.07
And So On.	

	Income	Tax Rates	
			State Sales Tax
State/District	Low	High	Rate
Wisconsin	4.6%	6.75%	5%

- 55 Wisconsin counties impose an additional local sales tax of .5%.
- U.S. and Wisconsin state flags are exempt from Wisconsin state sales taxes.

	Income	Tax Rates	
State/District	Low	High	State Sales Tax Rate
Wyoming	N	one	4%

- The state of Wyoming is one of seven states that do not assess a personal income tax upon citizens.
- Certain local sales taxes may apply throughout the state of Wyoming.

Summary of CAF	ix i muniys.								
	Stato	s with no inc	ome or sale	e tax:					
		Net Assets		ofit Margin					
	2003	2002	2003	2002					
	2003	2002	2003	2002					
Alaska	10.08%	-45.65%	-0.05%	-56.28%					
/ 10510	10.0070	40.0070	0.0070	00.2070					
		States with n	o income ta	X .					
		Net Assets		ofit Margin					
	2003	2002	2003	2002					
Florida	5.31%	4.44%	-3.95%	-5.38%					
Nevada	-1.02%	-2.38%	-5.44%	2.97%	<note< td=""><td>Has secon</td><td>d highest sa</td><td>ales tax rate</td><td>(tie)</td></note<>	Has secon	d highest sa	ales tax rate	(tie)
South Dakota	7.55%	3.84%	-1.01%	-4.42%			la ingricet es		(
Texas	2.56%	-6.53%	5.66%	-1.30%					
Washington	-0.75%	-4.88%	-6.68%	-6.62%	<note:< td=""><td>Has secon</td><td>d highest sa</td><td>ales tax rate</td><td>(tie)</td></note:<>	Has secon	d highest sa	ales tax rate	(tie)
Wyoming	19.36%	5.25%	20.94%	9.32%					(
<u></u>		0.2070	_0.01/0	0.0270					
	States	with highes	t income tax	x rates:					
		Net Assets		ofit Margin					
	2003	2002	2003	2002					
Montana	9.40%	10.67%	2.43%	-0.97%	<note:< td=""><td>Does not h</td><td>ave a sales</td><td>tax.</td><td></td></note:<>	Does not h	ave a sales	tax.	
Vermont	N/A	0.69%	N/A	-3.22%					
California	-13.94%	-9.77%	-16.02%	-13.07%					
Washington D.C.	-1.12%	0.36%	-11.79%	-8.95%					
Oregon	-2.11%	-6.88%	-2.07%	-7.48%	<note:< td=""><td>Does not h</td><td>ave a sales</td><td>tax.</td><td></td></note:<>	Does not h	ave a sales	tax.	
lowa	1.96%	2.38%	-2.71%	-2.37%					
Maine	N/A	0.18%	N/A	-8.65%					
		States with r	no sales tax						
		Net Assets		ofit Margin					
	2003	2002	2003	2002					
Delaware	1.03%	2.44%	-11.72%	-13.33%					
Montana	9.40%	10.67%	2.43%	-0.97%	<note:< td=""><td>Has highe</td><td>st state inco</td><td>me tax rate</td><td></td></note:<>	Has highe	st state inco	me tax rate	
New Hampshire	-4.21%	0.82%	-7.10%	-6.11%		Ū -			
Oregon	-2.11%	-6.88%	-2.07%	-7.48%	<note:< td=""><td>Has fifth hi</td><td>ghest state</td><td>income tax</td><td>rate.</td></note:<>	Has fifth hi	ghest state	income tax	rate.
	State	es with highe	est sales tax	rate:					
		Net Assets		ofit Margin					
	2003	2002	2003	2002					
Tennessee	4.21%	4.11%	0.22%	-3.29%					
Rhode Island	N/A	7.36%	N/A	-8.64%					
Mississippi	2.56%	2.07%	-5.41%	-6.10%					
Minnesota	-6.97%	-2.57%	-9.75%	-2.99%					
Nevada	-1.02%	-2.38%	-5.44%	2.97%	<note:< td=""><td>Has no inc</td><td>ome tax.</td><td></td><td></td></note:<>	Has no inc	ome tax.		
	-0.75%	-4.88%	-6.68%	-6.62%		Has no inc			