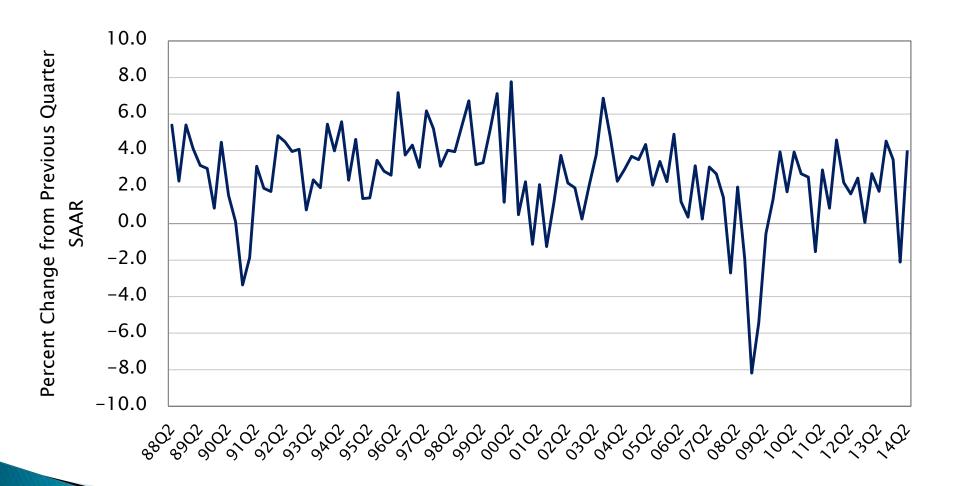
As Optimistic as an Economist Can Be On GDP

Not so Positive On Tax Revenues

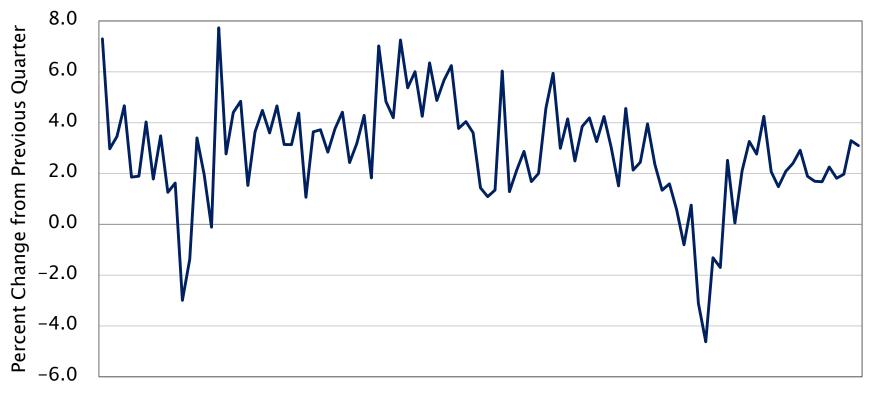
Presented to the University of Tennessee Faculty Senate September 15, 2014

William F. Fox, Director Center for Business and Economic Research The University of Tennessee, Knoxville

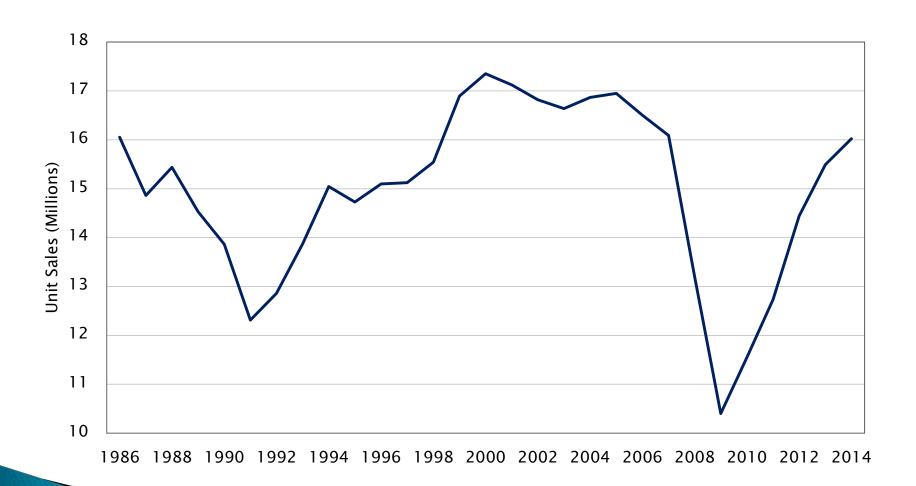
Growth in Quarterly Real Gross Domestic Product (Chained 2009 Dollars)



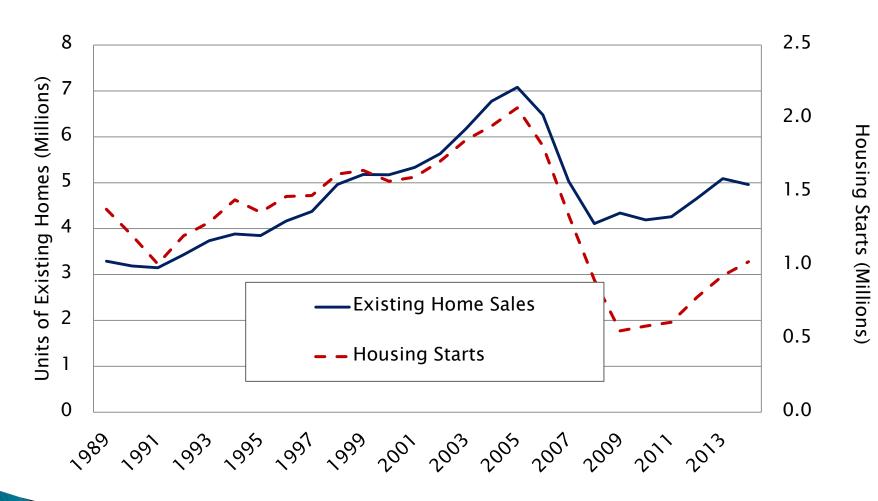
Growth in Quarterly Real Personal Consumption Expenditures (Chained 2009 Dollars)



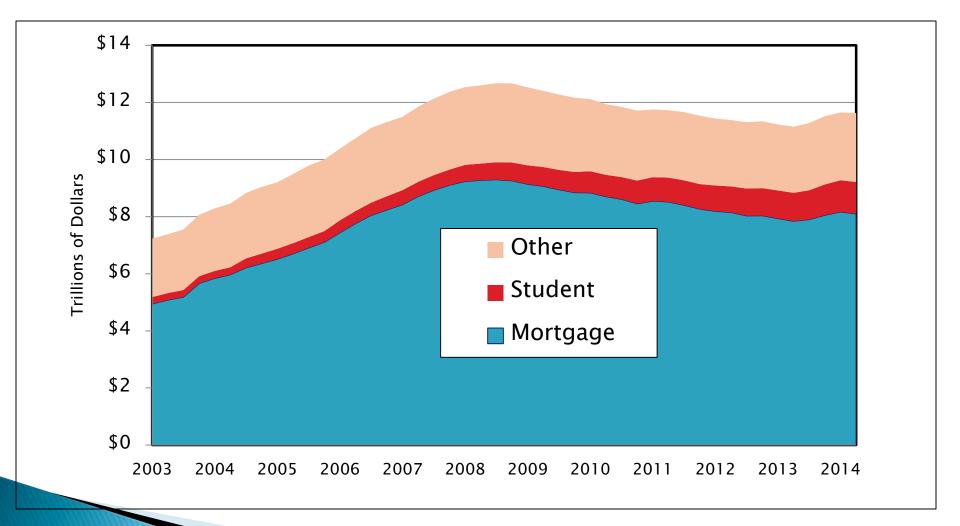
Unit Sales of New Light Vehicles



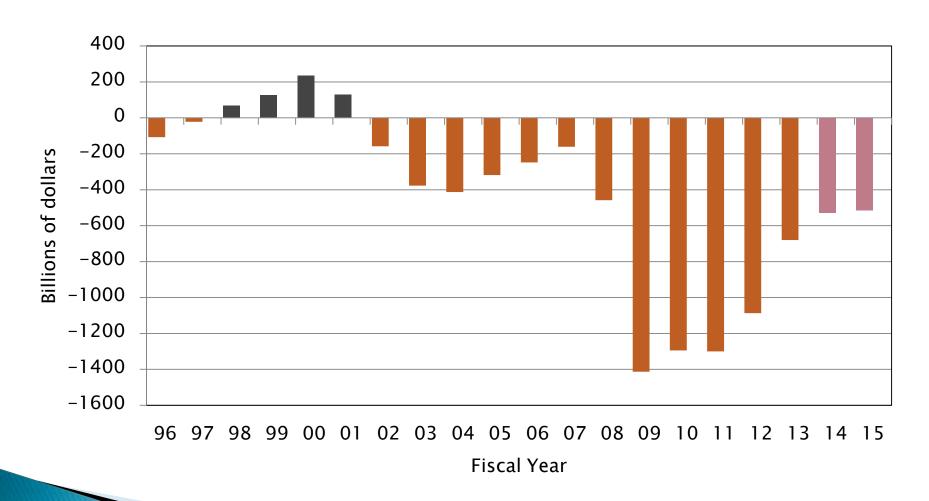
Unit Sales of Existing Homes and Housing Starts



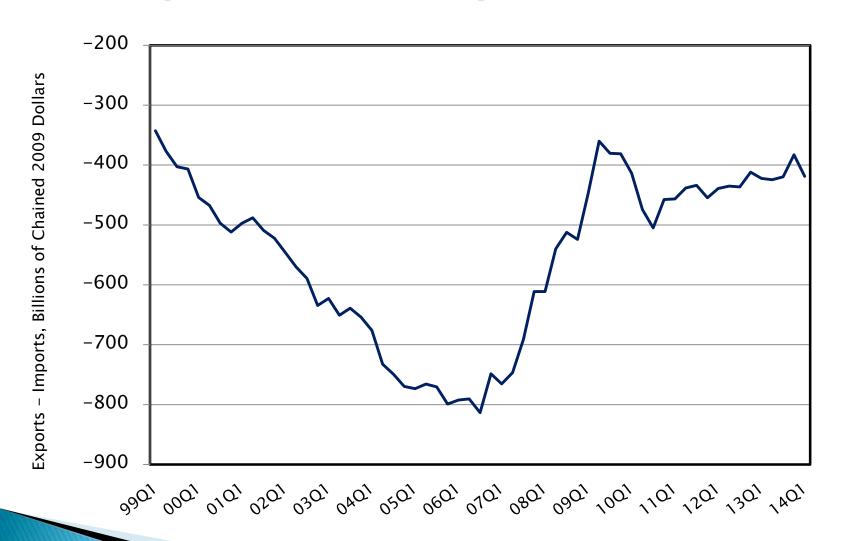
Total Consumer Debt Balance



Unified Federal Budget Surplus

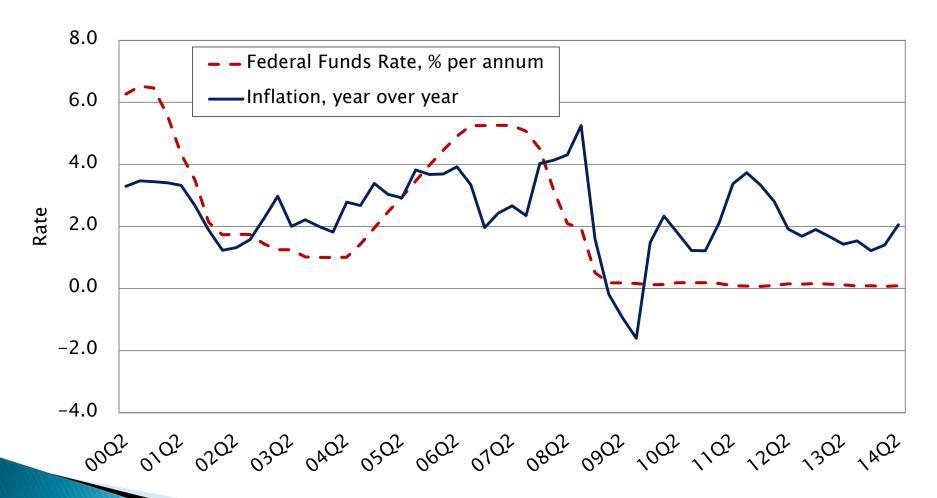


Real Exports Less Imports

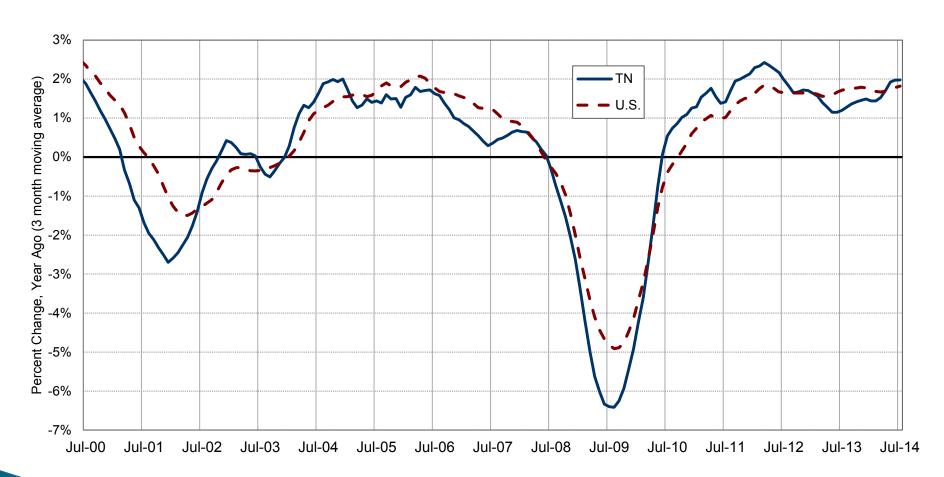


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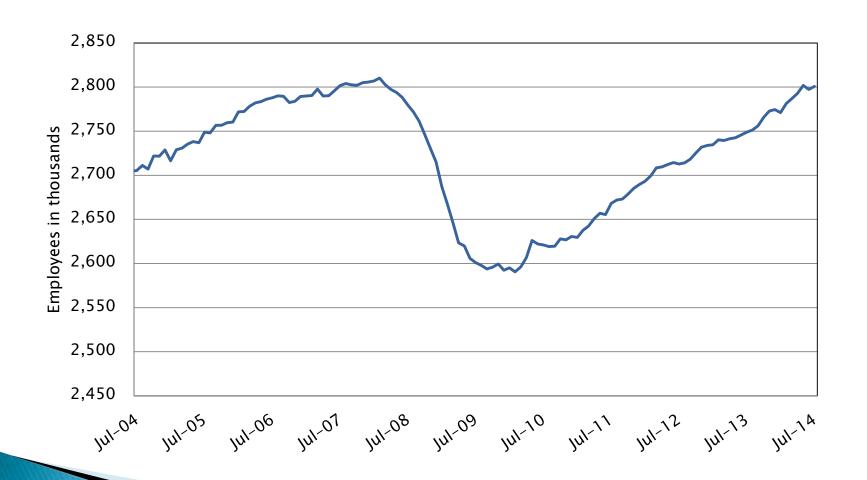
Interest Rates and Inflation



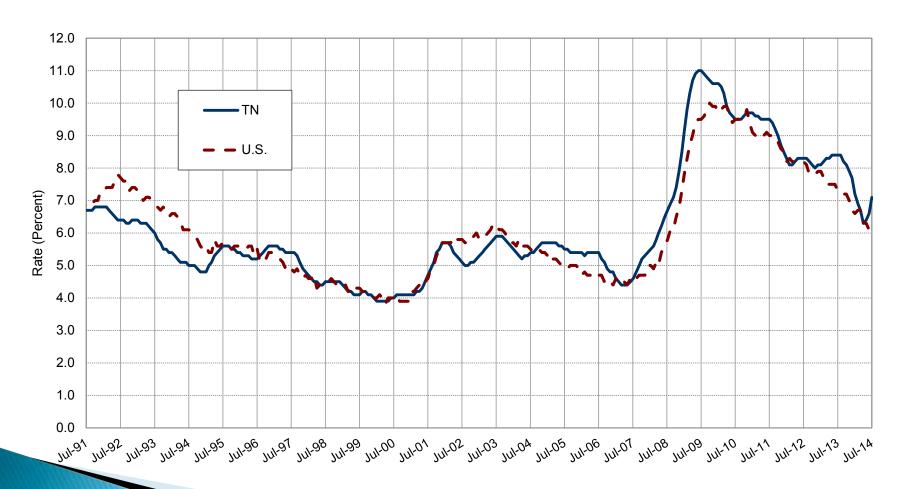
Tennessee and U.S. Nonfarm Job Growth (3-month moving average, year-over-year)



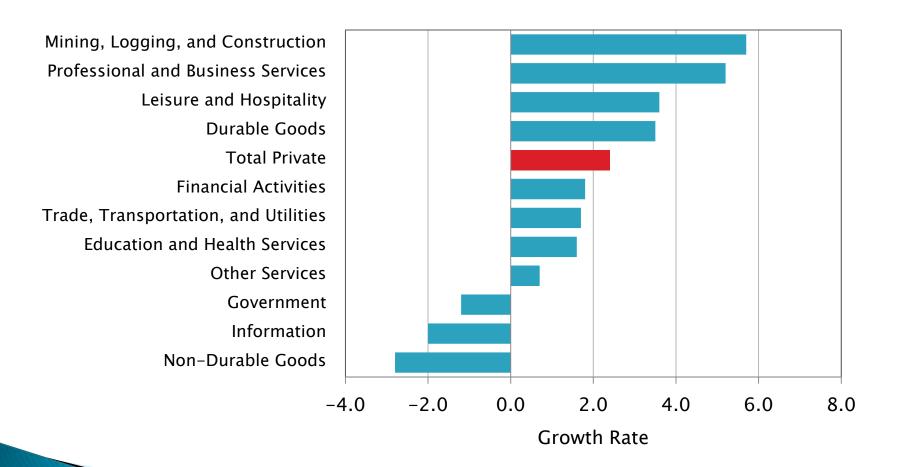
TN Nonfarm Jobs, Seasonally Adjusted, 2004–2014



Tennessee and U.S. Unemployment Rates (Seasonally Adjusted)

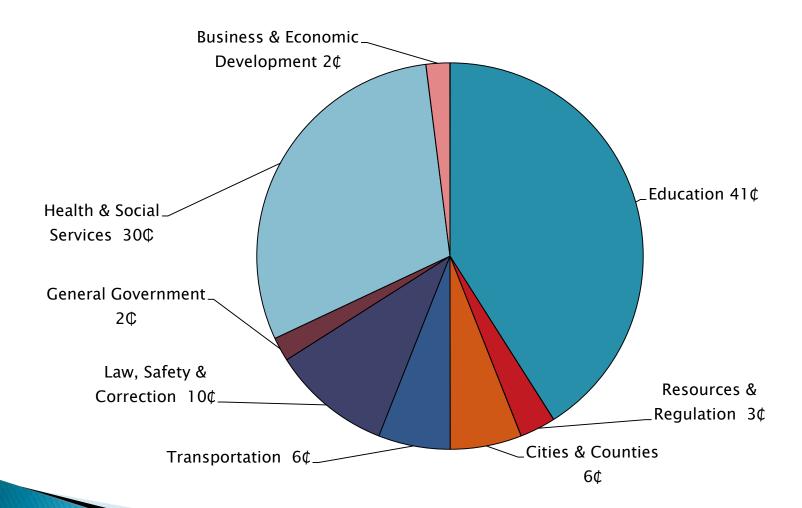


Tennessee Job Growth by Sector (July 2013 to July 2014)



Total State Budget, FY2014-15

Where Your State Tax Dollar Goes

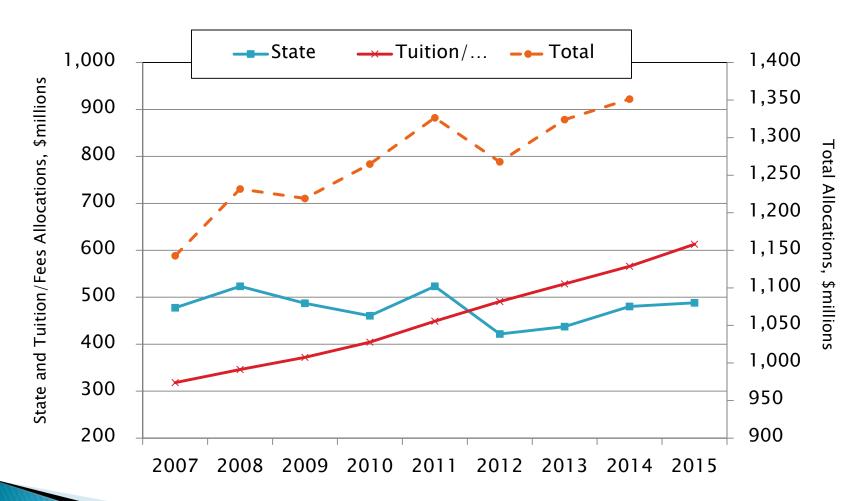


Tennessee Fiscal Pressures

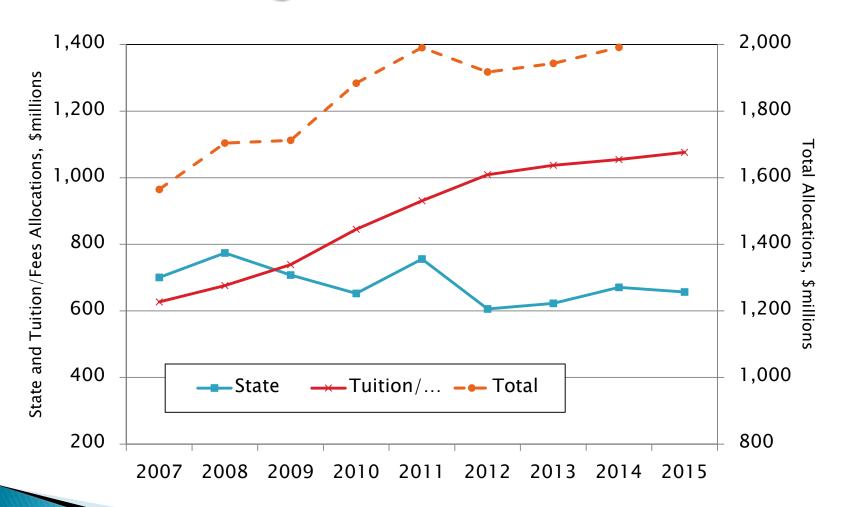
- Normal government cost growth
 - BEP
 - Higher Ed
 - Debt Service
 - Health Insurance
 - Pension biannual adjustment
 - Salary Increase
- TennCare
 - Medicaid expansion
 - Woodwork effect
- Total

\$580 million

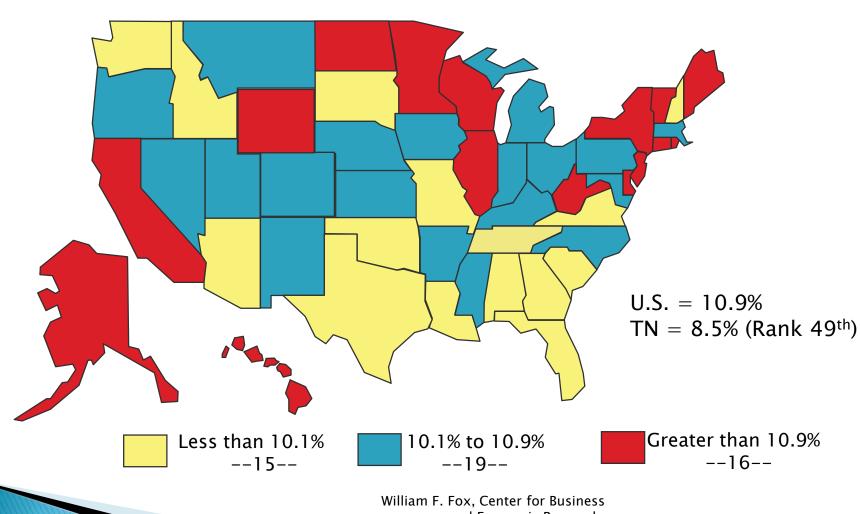
Higher Education Allocation, University of Tennessee



Higher Education Allocation, Board of Regents

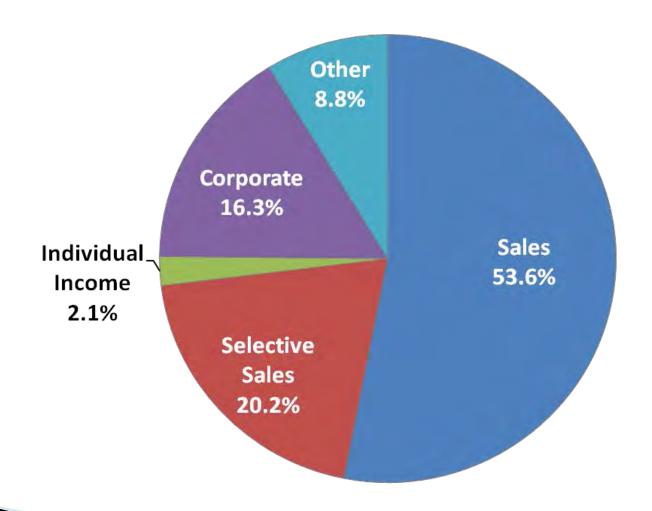


State & Local Tax Revenue as a Percent of Personal Income, 2011



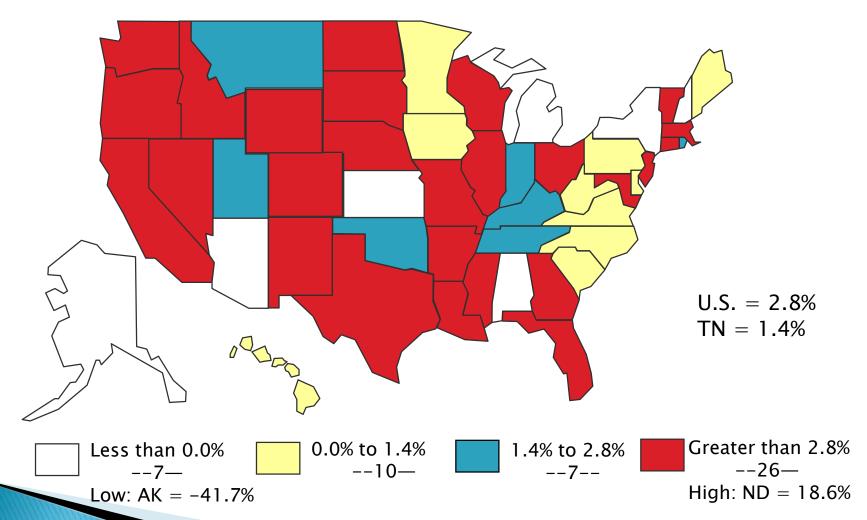
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Tennessee Tax Collections by Source, 2013



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Change in Total Taxes, July-March, FYTD 2013 to FYTD 2014



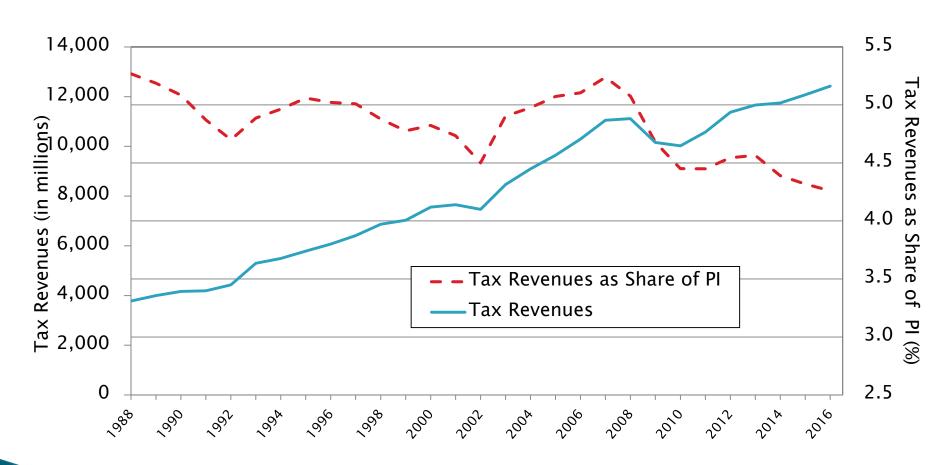
Elasticities by Tax

Sales Tax	0.60
Gasoline	0.03
Franchise & Excise	1.04
Mixed Drink	1.35
Total	0.67

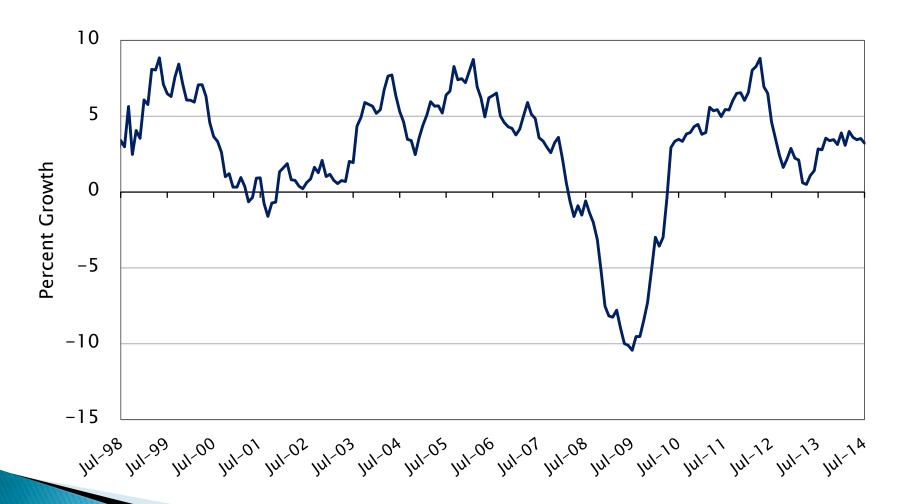
Tax Cuts

- Gift tax
- Inheritance tax
- Lower rate for food
- Larger exemption for the Hall Income Tax

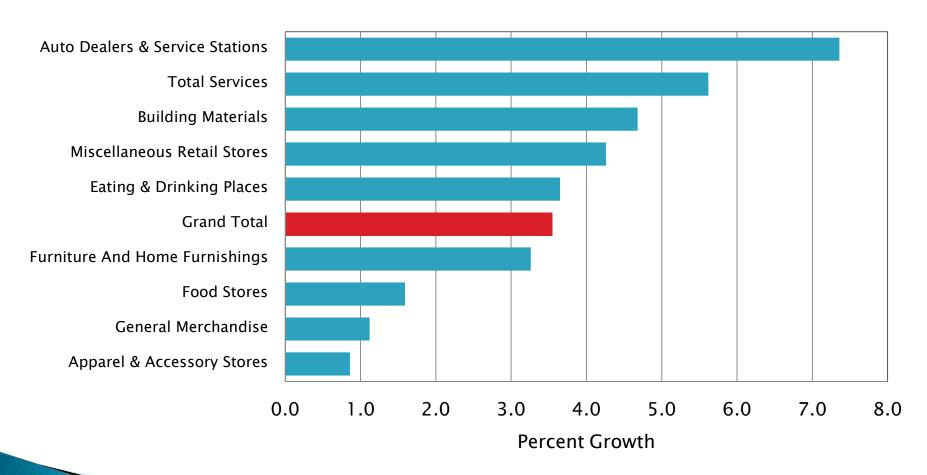
Tennessee Tax Revenues, Total and Share of Personal Income



Growth in Sales Tax Revenue (Adjusted for Tax Increases) 3-Month Moving Average, Year Over Year Increase

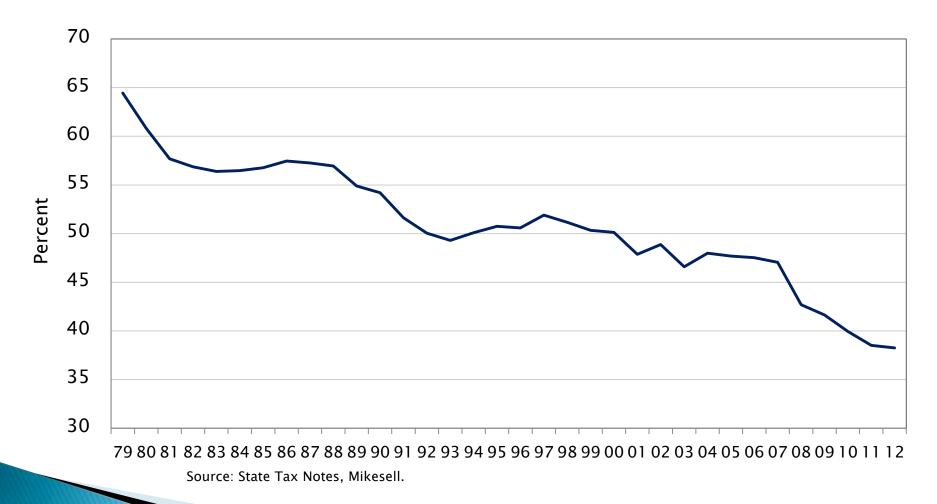


Sales Tax Collections by Category of Sales (FY13 to FY14)

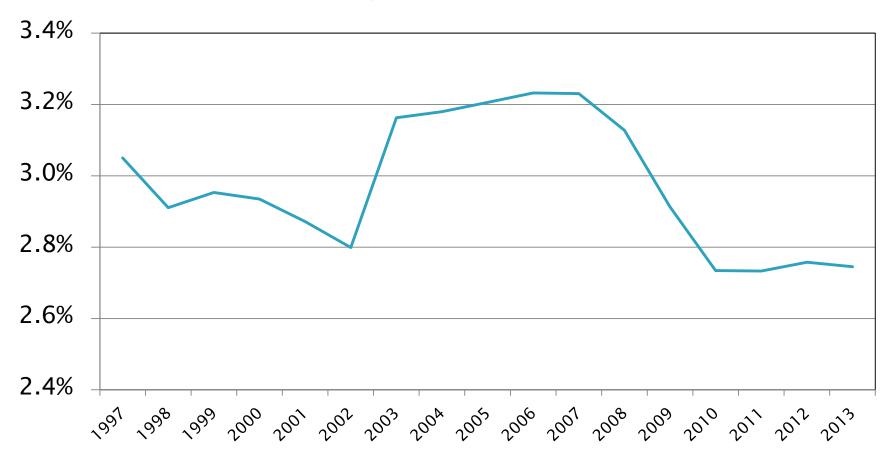


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Tennessee State Sales Tax Breadth of Base

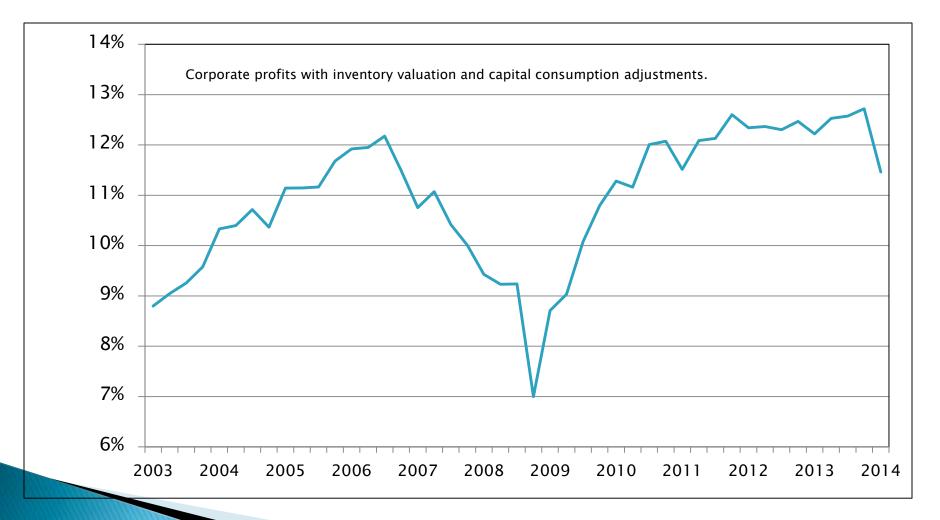


Tennessee Sales Tax Collections as a Percent of Personal Income, 1997-2013



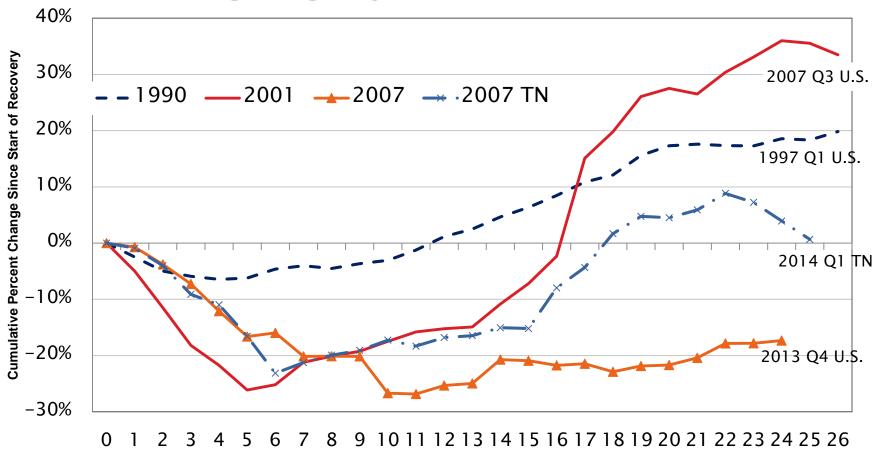
	Sales Tax	Personal Income	=1
1994	Growth 9.3	Growth 6.3	Elasticity 1.47
1995	9.7	7.3	1.32
1996	5.9	5.6	1.05
1997	6.1	5.9	1.02
1998	5.0	10.0	0.50
1999	6.0	4.5	1.34
2000	5.9	6.5	0.90
2001	0.9	3.2	0.29
2002	0.1	2.6	0.02
2003	1.3	4.0	0.33
2004	6.5	5.9	1.10
2005	4.8	4.0	1.21
2006	7.0	6.1	1.14
2007	4.6	4.7	0.99
2008	0.5	3.8	0.14
2009	-7.7	-0.9	8.31
2010	-2.6	3.8	-0.68
2011	5.5	5.5	0.99
2012	6.3	5.3	1.18
2013	1.6	2.1	0.77
2014	3.5		

Corporate Profits as a Percent of GDP



State Corporate Income Tax Revenue Since the Start of the Recession

Four-Quarter Moving Average, Adjusted for Inflation



Quarters Since Start of Recession

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Analysis of Knox Achieves

- 5 percentage points more likely to graduate high school than matched control students
- 20 percentage points more likely to enroll at any college
- 29 percentage points more likely to enroll in a community college
- 9.5 percentage points less likely to enroll in a four-year institution
- Two-thirds of effect on community college enrollment came from students who would not have gone to college