

## CONSUMER'S SHARE OF GEORGIA'S GENERAL SALES TAX

### Introduction

Economists argue that sales taxes should avoid taxing non-consumer purchases since that would lead to pyramiding of the sales tax (see Sjoquist and Wheeler, 2011). That point was reinforced by the Tax Reform Council (2011). This raises the question of what share of Georgia's sales tax is paid by consumers. The most recent estimate we are aware of is based on 1989 data. For that reason we estimate the proportion of Georgia's general sales tax paid by consumers.

Using the methodology described below, we calculate that in 2009, consumers paid approximately 60 percent of total revenue generated by Georgia's general sales tax at both the state and local government levels and 63 percent at just the state level.

These estimates are comparable to the 1989 estimate of 64 percent computed for Georgia's state sales tax in a multi-state study (Ring, 1999). It is more than an earlier estimate for 1979, which indicated that the consumer's share was 55 percent (Ring, 1989).

The remainder of the sales tax revenue is mainly from business purchases, which as noted above has implications for tax cascading – imposing a “tax more than once on the same piece of value added” (Graeser and Maury, 1992). A small portion comes from sales tax collected on purchases by nonprofit organizations,

as well as nonresidents of Georgia. Since most, if not all government purchases are exempt from the sales tax, the proportion of the sales tax paid by government is expected to be very small.

### General Methodology

In 2009, total sales tax revenue collected for the state of Georgia was \$9,877.2 million. This represents \$5,306.5 million collected by the state and \$4,570.7 million collected by local governments (U.S. Bureau of the Census, 2009a; Morton et al., 2010). To determine what percentage of this was paid by consumers, we adopt the methodology of Ring (1989, 1999). We use information on average consumer spending in 2009 provided in the Consumer Expenditure Survey (CES) (U.S. Bureau of Labor Statistics, 2009). The CES gives, for “consumer units” decomposed by income class, average purchases of a fairly detailed list of various types of goods and services (food at home, food away from home, clothing, utilities, transportation, etc.). The average spending in each income class is multiplied by the corresponding number of Georgia households for each good or service to approximate total consumer expenditures by Georgia consumers. Information on the number of households is gathered from the 2010 U.S. Census data (U.S. Bureau of the Census, 2009b) which gives the number of households and of unrelated individuals in 2009-income classes for

each state. Finally, to determine taxable expenditure, we use specific information on how Georgia defines the tax base of the general sales tax (including rates and exemptions). Details are summarized in Morton et al. (2010).

### Advantages and Limitations

The methodology employed has several advantages which allow for a more accurate approximation of taxable consumer purchases. The CES disaggregates consumer spending into over 70 categories of goods and services purchased, which facilitates substantial refinement in determining the applicable tax rates and exemptions which define Georgia's sales tax base, both at the state and local government levels. Furthermore, this enables us to account for special excise taxes collected on alcoholic beverages, tobacco products and motor fuel, which are in addition to the general sales tax. Moreover, information garnered by using Georgia's income groupings is another major advantage of this method as it takes into account differences in spending patterns across the distribution of income.

One limitation of the data sources is that the CES uses "families and single consumers" to describe its basic consumer unit, whereas the Census uses "households and unrelated individuals." However, based on the descriptions in either source, the definitions are very similar, allowing the two data sources to be combined (Ring, 1989). Another limitation is that spending information in the CES contains sales and excise taxes; without adjustment we would overestimate the consumer's part of the sales tax base. To account for the over-estimate, we divide the calculated sales tax base for each item by one plus the applicable sales tax rate, which is 4 percent at the state level and an additional accumulated 2.8 percent levied by various county and municipal governments.<sup>1</sup>

A more significant shortcoming is the fact that the CES is known to under-report consumer spending, which would in turn under-estimate the share of sales taxes paid by consumers. It is not immediately obvious how to address this problem and thus our estimates should be regarded more as lower bounds. Another problem is the lack of state-specific CES data, which forces us to attribute national spending patterns to each state. Regional CES spending data is available, but it is not clear that regional averages approximate individual state's spending any better than do national averages (Ring, 1989). CES spending averages for the Southern region take into account a lower cost of living and larger average family sizes.<sup>2</sup> When CES data on average household expenditure for the South is used, the resultant estimate for the share of the sales tax paid by consumers is reduced to 56 percent at the state and local government level; and 59 percent at the state level only.

### Notes

1. According to the Georgia Department of Revenue, the cumulated general sales tax rate levied by state and local governments in 152 out of 159 counties is 7 percent. The remaining seven counties have sales tax rates of 6 percent. In addition, the City of Atlanta levies an extra 1 percent municipal sales tax. Since the data we have is not disaggregated by counties, we use the weighted average local sales tax rate of 2.8 percent in the calculations and divide by 1.068.

2. To account for a generally lower cost of living in the South, the CES adjusts the national average consumption by 0.933. To account for larger family sizes, the adjustment factor is 1.32.

### References

- Graeser, L., & Maury, A. (1992). "Sales Tax on Services: State Trends." In W. F. Fox (Ed.), *Sales Taxation: Critical Issues in Policy and Administration* (pp. 77-102). Foreword by Frederick D. Stocker. Retrieved from EBSCOhost.
- Morton, J., Hawkins, R., & Sjoquist, D. (2010). *A Summary of Major State and Local Government Taxes 16<sup>th</sup> Edition, January 2010*. Atlanta: Fiscal Research Center, Andrew Young School of Policy Studies, Georgia State University.
- Ring, R. R. (1989). "The Proportion of Consumers' and Producers' Goods in the General Sales Tax." *National Tax Journal* 42(2):167-79. Retrieved from EBSCOhost.
- Ring, R. R. (1999). "Consumers' Share and Producers' Share of the General Sales Tax." *National Tax Journal*, 52(1):79-90. Retrieved from EBSCOhost.
- Sjoquist, D. & Wheeler, L. (2011). "Creating a Better Business Tax Credit." FRC Brief #226. Atlanta: Fiscal Research Center, Andrew Young School of Studies, Georgia State University.
- Tax Reform Council (2011). "2010 Special Council on Tax Reform and Fairness for Georgians." Retrieved 04/18/2011 from [http://fiscalresearch.gsu.edu/taxcouncil/downloads/FINAL\\_REPO\\_RT\\_Jan\\_7\\_2011.pdf](http://fiscalresearch.gsu.edu/taxcouncil/downloads/FINAL_REPO_RT_Jan_7_2011.pdf).
- U.S. Bureau of Labor Statistics (2009). "Consumer Expenditure Survey." Retrieved 04/5/2011, from <http://www.bls.gov/cex/#tables>.
- U.S. Bureau of the Census (2009a). "State Government Tax Collections: 2009." Retrieved 04/5/2011, from [http://www.census.gov/govs/statetax/historical\\_data\\_2009.html](http://www.census.gov/govs/statetax/historical_data_2009.html).

U.S. Bureau of the Census (2009b). "Georgia Selected Economic Characteristics: 2005-2009." Retrieved 04/5/2011, from [http://factfinder.census.gov/servlet/ADPTable?\\_bm=y&-geo\\_id=04000US13&-qr\\_name=ACS\\_2009\\_5YR\\_G00\\_DP5YR3&-context=adp&-ds\\_name=&-tree\\_id=5309&-lang=en&-redoLog=false&-format](http://factfinder.census.gov/servlet/ADPTable?_bm=y&-geo_id=04000US13&-qr_name=ACS_2009_5YR_G00_DP5YR3&-context=adp&-ds_name=&-tree_id=5309&-lang=en&-redoLog=false&-format).

## ABOUT THE AUTHOR

**Tamoya A. L. Christie** is a Ph.D. candidate in Economics and a Research Associate in the Fiscal Research Center in the Andrew Young School of Policy Studies at Georgia State University. Her main research interests include public finance and economic development.

## ABOUT FRC

The Fiscal Research Center provides nonpartisan research, technical assistance, and education in the evaluation and design the state and local fiscal and economic policy, including both tax and expenditure issues. The Center's mission is to promote development of sound public policy and public understanding of issues of concern to state and local governments.

The Fiscal Research Center (FRC) was established in 1995 in order to provide a stronger research foundation for setting fiscal policy for state and local governments and for better-informed decision making. The FRC, one of several prominent policy research centers and academic departments housed in the School of Policy Studies, has a full-time staff and affiliated faculty from throughout Georgia State University and elsewhere who lead the research efforts in many organized projects.

The FRC maintains a position of neutrality on public policy issues in order to safeguard the academic freedom of authors. Thus, interpretations or conclusions in FRC publications should be understood to be solely those of the author. For more information on the Fiscal Research Center, call 404-413-0249.

## RECENT PUBLICATIONS

*Consumer's Share of Georgia's General Sales Tax.* This fiscal brief provides an estimate of the proportion of Georgia's general sales tax paid by consumers. (May 2011)

*New Business Survival in Georgia: Exploring the Determinants of Survival Using Regional Level Data.* This report provides estimates of the effect of various factors on the survival of new business in Georgia. (April 2011)

*How Large is the "Tax Gap" for the Georgia Personal Income Tax?* This report provides several estimates of "tax gap" for the State of Georgia personal income tax in the year 2001. (April 2011)

*Georgia Tax Credits: Details of the Business and Personal Credits Allowed Against Georgia's Income Tax.* This report presents a complete list, along with detailed characteristics, of the Georgia business and personal tax credits. (April 2011)

*The Atlanta Empowerment Zone: Description, Impact, and Lessons for Evaluation.* This report analyzes the impact of the Atlanta Empowerment Zone on resident outcomes. (March 2011)

*Estimated Change in Tax Liability of Tax Reform Council's Proposals.* This policy brief provides estimates of the change in the tax burden for the several recommendations of the 2010 Special Council on Tax Reform and Fairness for Georgians. (March 2011)

*Sales Tax Holidays and Revenue Effects in Georgia.* This report/brief explores the economic effects of sales tax holidays, including an empirical analysis of the state revenue effects of Georgia's sales tax holidays. (March 2011)

*Applying the Sales Tax to Services: Revenue Estimates.* The state revenue estimates presented in this brief are updates of estimates presented in an earlier Fiscal Research Center report (FRC Report 170) by Matthews, Sjoquist, and Winters, which added services to the sales tax base. (February 2011)

*Creating a Better Business Tax Credit.* This brief discusses criteria and factors to be considered in deciding on business tax credits. (February 2011)

*Recent Changes in Occupations Among Georgia's Labor Force.* This report explores changes in the number and salary of jobs by occupational categories. (February 2011)

*Criteria for Expanding the Sales Tax Base: Services and Exemption.* This brief discusses the criteria and factors that should be considered in deciding which services to add to the sales tax base and which sales tax exemptions to eliminate or add. (January 2011)

*Estimating the Revenue Loss from Food-for-Home Consumption.* This policy brief discusses the estimation of the revenue effect from eliminating the state sales tax exemption from food-for-home consumption. (January 2011)

*Comparing Georgia's Revenue Portfolio to Regional and National Peers.* This report updates Buschman's "Comparing Georgia's Fiscal Policies to Regional and National Peers (FRC Report 201)" with 2008-2010 data. (January 2011)

*Georgia's Taxes: A Summary of Major State and Local Government Taxes, 17th Edition.* A handbook on taxation that provides a quick overview of all state and local taxes in Georgia. (January 2011)

*Some Issues Associated with Increasing Georgia's Cigarette Tax.* This policy brief provides revenue estimates for an increase in tobacco taxes, discusses social cost of smoking, and explores the effect on convenience store employment from increases in tobacco taxes. (December 2010)

*Georgia's Fuel Tax.* This policy brief presents revenue estimates from an increase of fuel taxes. (December 2010)

*Latino Immigration and the Low-Skill Urban Labor Market in Atlanta.* This report examines the dynamic competition between Latino immigrants and black workers in Atlanta's low-skilled urban labor market from 1990 to 2008. (December 2010)

For a free copy of any of the publications listed, call the Fiscal Research Center at 404/413-0249, or fax us at 404/413-0248. All reports are available on our webpage at: [frc.gsu.edu](http://frc.gsu.edu).

#### Document Metadata

*This document was retrieved from IssueLab - a service of the Foundation Center, <http://www.issuelab.org>*

*Date information used to create this page was last modified: 2014-02-15*

*Date document archived: 2011-05-24*

*Date this page generated to accompany file download: 2014-04-15*

*IssueLab Permalink: [http://www.issuelab.org/resource/consumers\\_share\\_of\\_georgias\\_general\\_sales\\_tax](http://www.issuelab.org/resource/consumers_share_of_georgias_general_sales_tax)*

---

## Consumer's Share of Georgia's General Sales Tax

**Publisher(s):** Fiscal Research Center of the Andrew Young School of Policy Studies

**Author(s):** Tamoya A. L. Christie

**Date Published:** 2011-04-10

**Rights:** Copyright 2011 Fiscal Research Center of the Andrew Young School of Policy Studies. All rights reserved.

**Subject(s):** Community and Economic Development