Among other provisions, the GREAT plan for Georgia that was introduced in the General Assembly in 2008 called for the elimination of school property taxes on homesteaded property, with local government property tax revenue being replaced by state grants. The proposal also called for the elimination of the exemption of food for home consumption (in essence, re-taxed food) and the addition of numerous consumer services to the sales tax base. In this Policy Brief, I provide analysis of the distributional effects on households from reducing local ad valorem taxes on homesteaded property and increasing sales tax levies by expanding the sales tax base to include food for home consumption and selective personal services. The tax policy I consider is not meant to reflect any particular version of the GREAT Plan. I consider the full elimination of local property taxes on homesteaded property and the addition of a limited set of services to the sales tax base. The net effect of the policy is a net tax reduction, but I do not consider the distributional consequences of the budget cut that would be required under such a policy.

For this analysis, I only examine explicit direct effects on households from the additional sales tax levies and homestead property tax reductions, that is, I ignore indirect effects that might result from behavioral adjustments and from the impact on federal income tax levies due to changes in the amount of deductions. Matthews and Sjoquist (2007) and Matthews, Sjoquist and Winters (2007) provide estimates of the potential revenue effects of preliminary versions of the GREAT Plan; for a more complete understanding of the GREAT Plan readers should probably start with these studies. Although the proposal to increase sales tax levies as a full or partial replacement of property taxes is not currently under formal consideration in Georgia, having an understanding of the distributional effects of that proposal can inform future policymakers. Note that the details of the calculations are contained in the Appendix. The calculations are made for what is considered a typical Georgia household in each income class and do not precisely reflect the aggregate of individual households within each income class.

Findings for Georgia Households

The total revenue effects from imposing the state sales tax on most currently exempt services, revoking the state exemption on food for home consumption, and removing all local property taxes on homesteaded property appear in Table 1. The estimates indicate that completely eliminating local property taxes on homesteaded properties would have reduced 2004 revenue by about $4.3 billion. The new sales tax
revenue would total approximately $766 million, meaning the original GREAT proposal was not revenue neutral for households. Readers should recognize, however, the latter total does not include all currently-exempt services as many are economically or politically difficult to tax – these are referred to as “untouchable” in Table 1; further discussion of this issue can be found in the Appendix. It is also important to note that that the services total ($286 million) is smaller than the totals in Matthews and Sjoquist (2007) and Matthews, Sjoquist and Winters (2007). The smaller total is due to the subjective nature of deciding on which services will end up taxed – I chose fewer services, as described in the Appendix.

Given the $3.5 billion imbalance between the property tax cut and the new sales tax revenue, I also consider a revenue neutral reduction in property taxes on homesteaded property. In this second scenario, the $766 million in additional sales tax revenue allows an 18 percent reduction in property taxes on homesteaded properties when I impose an equal percentage decrease in both urban and rural millage rates.

Table 2 presents the distribution by income group of the net effect of the two scenarios. The effects from the total reduction in homesteaded property taxes (scenario 1) appear on the left side of Table 2 and the partial, 18 percent reduction in homesteaded property taxes appears on the right side. Clearly, moving to the partial reduction option makes a big difference for the lowest and highest income households. For example, the poorest Georgia households benefit strongly (as a share of income) from eliminating the property tax on homesteaded property, but do poorly under scenario 2, under which they experience a net tax increase of just over one percent of income. In essence, the home-owning poor gain enough from property tax elimination to offset the additional taxation on purchases, but the gain is considerably smaller with the partial property tax reduction. On the other end, the highest income households go from a near average benefit to a slight tax reduction in the partial property tax removal.

In Table 3, I present a breakdown by urban status for scenario 2. Since I applied the same 18 percent change to the higher urban millage and the lower rural millage, one finds the largest nominal gain for the urban, high-income households and the largest nominal loss for the two urban lowest income classes. However, urban-rural status does not produce a significant difference in the distribution of the tax change (compare the left side to the right side of Table 3). For example, the poorest urban households see an overall tax increase of 1.1 percent while the rural households face a 1.0 percent increase.

Perhaps more striking is the pattern in Table 4, which shows the percentage of households within an income class that experience a tax increase. This illustrates the issue that tax relief was not granted to renters or to homeowners with insufficient house value as to owe significant local property taxes. Under my first scenario (complete elimination of local property taxes on homesteads), gains to a fraction of poor households were strong enough to offset the tax increase on a majority of poor households (as much as 72.9 percent). Tables 3 and 4 reveal how the poor would be treated if the property tax relief is not so strong. Clearly, the additional tax burden on the poor is not large, but relief is generally non-existent for the groups. I note, however, that the poorest households in the Consumer Expenditure Survey (CES) generally spend a good deal more than their income, causing researchers to question whether an in-sample household reporting low income is truly poor or is simply experiencing a low-income year.¹

Conclusion and Future Research

In this Policy Brief, the household tax burden effects have been estimated for two scenarios under which property taxes are reduced and the sales tax is extended to selective services and home food. Eliminating the property tax represents a significant overall net tax reduction for Georgia households, but raises the important question of how policymakers will make up what would be an almost $3.5 billion shortfall.

Under either the full or partial property-tax-reduction scenario, all Georgians do not benefit equally. Since renters (and some low-value homeowners) do not benefit from the tax change, more than half of the lowest income Georgia households may face a slight tax increase. By the common measure of effective tax relief – relief as a share of income – the two proposals affect the urban poor very differently. If policymakers can somehow fund the complete elimination of property taxes, some urban poor would do fairly well. Conversely, the combination of new sales taxes and an 18 percent reduction of property taxes on homesteaded property means a small tax increase for the urban poor and a small overall tax cut for the highest income urban households.

As mentioned above, incomplete information limits this analysis. Subsequent research should address the static nature of these estimates. There are reasons to believe that under the change, the new Georgia sales tax base will be subject to some behavior-based effects, which are not considered here. For example, the new services tax base should erode from its current level since providers will have an incentive to move activity out of Georgia or replace formal service provision (e.g., landscaping) with casual activity. In turn, however, home-owning households will...
### Table 1. 2004 Household Tax Revenue Effects of Eliminating Property Taxes and Adding New Sales Tax Levies

<table>
<thead>
<tr>
<th>Item</th>
<th>2004 Revenue Amount (Millions)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Current State Sales Tax on Georgia Household Purchases</td>
<td>$1,824.6</td>
</tr>
<tr>
<td>2. New State Sales Tax on Select (Currently) Exempt Services</td>
<td>285.6</td>
</tr>
<tr>
<td>3. State Sales Tax on Currently Exempt Food</td>
<td>479.7</td>
</tr>
<tr>
<td>4. Local Property Tax on Georgia Homesteads</td>
<td>4,251.9</td>
</tr>
<tr>
<td>Net Effect from Adding #2 and #3 and Removing #4</td>
<td>-3,486.6</td>
</tr>
<tr>
<td>Exhibit: Potential state sales tax on &quot;Untouchable&quot; Household Services</td>
<td>2,095.8</td>
</tr>
</tbody>
</table>

Note: In these calculations, select exempt services include household maintenance, repairs and insurance, automobile repair labor (estimated as half of total automobile repairs), domestic services excluding childcare and water and sanitation charges.

SOURCE: author’s calculations on 2004 Consumer Expenditure Survey data.

### Table 2. Tax Burden Changes for Two Georgia Tax Swaps, by Income Class

<table>
<thead>
<tr>
<th>Income Class (1000s)</th>
<th>Scenario One: Total Removal of Homestead Property Tax</th>
<th>Scenario Two: Partial Removal of Homestead Property Tax</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2004 Change (in Millions)</td>
<td>% of Income</td>
</tr>
<tr>
<td>&lt;$10</td>
<td>-72.9</td>
<td>-3.2</td>
</tr>
<tr>
<td>10 to 20</td>
<td>-189.8</td>
<td>-2.5</td>
</tr>
<tr>
<td>20 to 30</td>
<td>-192.4</td>
<td>-2.2</td>
</tr>
<tr>
<td>30 to 40</td>
<td>-176.6</td>
<td>-1.7</td>
</tr>
<tr>
<td>40 to 50</td>
<td>-342.2</td>
<td>-2.4</td>
</tr>
<tr>
<td>50 to 80</td>
<td>-580.4</td>
<td>-2.0</td>
</tr>
<tr>
<td>&gt;70</td>
<td>-1,932.4</td>
<td>-2.0</td>
</tr>
<tr>
<td>All</td>
<td>-3,486.7</td>
<td>-2.1</td>
</tr>
</tbody>
</table>

SOURCE: author’s calculations on 2004 Consumer Expenditure Survey data.
### Table 3. Tax Burden Changes for the Partial Property Tax Removal Tax Swap by Income Class and Urban Status

<table>
<thead>
<tr>
<th>Income Class (1000s)</th>
<th>Urban Households</th>
<th>Rural Households</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2004 Change</td>
<td>% of Income</td>
<td>2004 Change</td>
</tr>
<tr>
<td>&lt;$10</td>
<td>20.4</td>
<td>1.1</td>
<td>4.7</td>
</tr>
<tr>
<td>10 to 20</td>
<td>27.3</td>
<td>0.5</td>
<td>4.9</td>
</tr>
<tr>
<td>20 to 30</td>
<td>17.8</td>
<td>0.3</td>
<td>5.1</td>
</tr>
<tr>
<td>30 to 40</td>
<td>17.8</td>
<td>0.2</td>
<td>4.6</td>
</tr>
<tr>
<td>40 to 50</td>
<td>-1.9</td>
<td>0.0</td>
<td>3.7</td>
</tr>
<tr>
<td>50 to 80</td>
<td>-2.8</td>
<td>0.0</td>
<td>5.3</td>
</tr>
<tr>
<td>&gt;70</td>
<td>-105.9</td>
<td>-0.1</td>
<td>-1.1</td>
</tr>
</tbody>
</table>

Note: The new sales tax applies to select services and food with an estimated revenue-neutral partial removal of the property tax on homesteads.

Source: author’s calculations on 2004 Consumer Expenditure Survey data.

### Table 4. Households and Share of Households with a Tax Increase under the Partial Property Tax Removal Tax Swap, by Income Class and Urban Status

<table>
<thead>
<tr>
<th>Income Class (1000s)</th>
<th>Urban Households</th>
<th>Rural Households</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Number of Households</td>
<td>Share of Households with a Tax Increase</td>
<td>Number of Households</td>
</tr>
<tr>
<td>&lt;$10</td>
<td>302,660</td>
<td>75.5</td>
<td>82,799</td>
</tr>
<tr>
<td>10 to 20</td>
<td>398,140</td>
<td>61.7</td>
<td>109,151</td>
</tr>
<tr>
<td>20 to 30</td>
<td>271,797</td>
<td>52.9</td>
<td>84,106</td>
</tr>
<tr>
<td>30 to 40</td>
<td>231,049</td>
<td>46.4</td>
<td>67,580</td>
</tr>
<tr>
<td>40 to 50</td>
<td>244,894</td>
<td>28.8</td>
<td>78,203</td>
</tr>
<tr>
<td>50 to 80</td>
<td>379,511</td>
<td>28.2</td>
<td>121,056</td>
</tr>
<tr>
<td>&gt;70</td>
<td>656,208</td>
<td>15.3</td>
<td>142,498</td>
</tr>
</tbody>
</table>

Source: author’s calculations on 2004 Consumer Expenditure Survey data.
experience lower escrow payments and they should respond by increasing taxable spending.

Finally, the analysis here misses two additional indirect household effects. The first is the impact on federal income tax payments if Georgia eliminates the property tax. The second follows from the important tax reductions for home ownership – which could increase land values and reduce rents as more Georgia households try to take advantage of the homestead tax cut and become homeowners. Subsequent research should attempt to model related effects.

Appendix: Calculation Steps

Step 1: Create a simulated Georgia with the Consumer Expenditure Survey

The first step is to create a usable model of Georgia households. The Consumer Expenditure Survey (hereafter, CES) was developed by the Bureau of Labor Statistics and it includes the relevant spending, income and property ownership categories, but it is designed to capture national or regional household-level spending patterns (i.e., it is not designed for use at the state level due to the low number of observations per state). For this analysis, I go beyond the reported 2004 Georgia households and use all southern urban households and all U.S. rural households in the 2004 data. Each observation is then weighted such that the aggregate model resembles Georgia in income, household size, race and urban status.

Step 2: Create three sales tax bases

The spending categories for each household are separated into spending subject to the current state sales tax, spending on currently-exempt home food and spending on currently-exempt services. This allows for the application of new state levies on the latter two items in order to fund property tax relief. I do not add local levies.

One of the largest currently-exempt consumer services is “shelter.” This includes principle and interest payments by homeowners and rent for other Georgia households. Given the spirit of a property tax reduction, I have chosen to not include this spending in the new sales tax on services that is simulated here. In addition, I believe that extending the Georgia sales tax to public transportation, healthcare, education, vehicle finance and insurance, babysitting and child daycare, cash contributions and life insurance spending will create significant economic and/or political hurdles and thus leave them exempt in my “untouchables” category. Thus, the sales tax on services here only extends to home maintenance and repairs, home insurance, my estimate of labor on automobile repairs (half of the overall maintenance and repair category), miscellaneous spending, domestic services and water services.

A key tax burden assumption exists in the calculations below where the burden of the Georgia sales tax is assumed to fall on consumers. In other words, before-tax prices do not change when the sales tax is newly applied to previously exempt commodities. An example of the assumption is the shelf price of a grocery item remains the same if the state sales tax is (re)imposed.

Step 3: Create current property tax levies

The CES includes limited information on real property ownership for each participating household. For example, participants report an estimate of what they think each property would sell for. With this information and some assumptions, I can calculate representative local property tax levies on each parcel.

Unfortunately, local homestead exemptions and property tax rates vary across the state. The estimates here are based on representative local structures across Georgia. These local structures feature:

1) A rural homestead exemption of $3,000;
2) An urban exemption of $6,000;
3) A rural property tax levy of 25 mills; and
4) An urban levy of 35 mills.

The property tax rates are total millage rates, not just for schools. The values are consistent with local property tax structures in Georgia, but our property tax relief estimates here are approximate and cannot be interpreted as precise.

Additional Calculation Details

The estimates are calculated on five quarters of CES data for interviews from January, 2004 to March, 2005. Each observation is converted to annual amounts (where quarterly values are reported) and the southern urban household and all rural household populations are used for constructing this model of Georgia households. The observations are then assigned weights such that the weighted sample resembles Georgia in income, household size, race and urban or rural status.

The current CES program was initiated in 1980. The principal objective is to collect buying-habit information for American consumers, but the participants also report characteristics for owned property. The consumer expenditure data are used for research endeavors and for regular revision of the CPI.
The survey is conducted by the U.S. Census Bureau for the Bureau of Labor Statistics and it consists of two components: a diary survey and an interview survey. For this report, we use the FMLY files that include summary expenditure variables from the interviews are used for spending profiles. These files contain information on household characteristics, income, and summary level expenditures. The information is not detailed enough to analyze highly specific goods and services (e.g., spending on personal computers is lumped together with spending on similar items), but the FMLY files allow examination of some broad changes to the structure of the Georgia sales tax.

It is important to note that reported expenditure amounts include all sales and excise taxes for all items purchased by the consumer unit for own use or for others. For items such as home food spending, which are taxable in a handful of states, tax inclusion in the CES could slightly overstate the additional sales tax collection estimates here.

References


Notes

1See Bahl and Hawkins (1997) for a more thorough discussion.

2The separation into three potential sales tax bases is imperfect as a couple of the CES spending categories do not fall completely into taxable or currently exempt. For example, I classify entertainment spending as taxable even though the category includes membership fees that can be exempt in Georgia. The currently taxable base includes the following spending categories: food away from home, alcoholic beverages, utilities, household equipment, apparel, new and used car, other vehicle, gasoline, half of vehicle maintenance and repair, vehicle rentals and leases, entertainment, personal care, reading and tobacco.

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Household Tax Burden Effects from Replacing Ad Valorem Taxes with Additional Sales Tax Levies - Brief

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