

Updated Tables for "Using a VAT to Reform the Income Tax"

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In 100 Million Unnecessary Returns, Michael Graetz, professor of law at Columbia University, proposed sweeping tax reform that would remove most current taxpayers from the income tax rolls, reform the corporate income tax, significantly reduce the top individual and corporate rates, and adopt a value-added tax (VAT) as the principal tax paid by most Americans. Under a contract with The Pew Charitable Trusts, TPC prepared a detailed analysis of the Graetz proposal. Due to the effects of the American Taxpayer Relief Act of 2012 (ATRA) on baseline tax liabilities, professor Graetz has revised his proposal to maintain distributional and deficit neutrality. We have updated some of the tables from our previous analysis that reflect the revised proposal as well as updated economic assumptions and technical improvements.

Key changes to the proposal:

- The VAT rate is increased from 12.3 percent to 12.9 percent.
- A third individual income tax rate of 31 percent is added, and the other two rates are revised (the bottom rate is reduced from 16 percent to 14 percent, while the second rate is increased from 25.5 percent to 27 percent). (See Table A-1.)
- The per-child rebate is reduced somewhat (from \$1,590 to \$1,500), but made fully refundable and the phaseout begins at a higher level (\$150,000 instead of \$110,000) for joint filers.
- The per-worker rebate now phases in at the combined employer and employee payroll tax rate of 15.3 percent, and begins to phase out at a much higher income level (see Table 2A).
- The additional per-child rebate is revised in several respects (see Table 2B).

The corporate rate under the proposal remains 15 percent and business base broadening is retained. As in the previous version of the proposal, there are no changes to the payroll, estate and gift taxes.

Table 1
The VAT Base, 2015

| | Level (\$billions) | Percent of Consumption | Percent of GDP |
|--|--------------------|------------------------|----------------|
| NIPA Consumption | 12,555.7 | 100.0 | 69.1 |
| Less: Imputed rent on owner-occupied housing | 1,383.0 | 11.0 | 7.6 |
| Less: Rental of tenant-occupied housing | 499.3 | 4.0 | 2.7 |
| Plus: New housing purchases | 454.3 | 3.6 | 2.5 |
| Plus: Improvements to existing housing | 412.2 | 3.3 | 2.3 |
| Equals: Net housing adjustment | -1,015.7 | -8.1 | -5.6 |
| Less: Net foreign travel and expenditures abroad | | | |
| by U.S. residents | -23.1 | -0.2 | -0.1 |
| Less: State and local general sales taxes | 417.9 | 3.3 | 2.3 |
| Equals: Household Consumption in VAT Base | 11,145.2 | 88.8 | 61.3 |
| Plus: Federal purchases of goods and services ¹ | 703.9 | 5.6 | 3.9 |
| <i>Plus:</i> Federal employee compensation ² | 491.7 | 3.9 | 2.7 |
| Equals: Federal spending in the VAT base | 1,195.6 | 9.5 | 6.6 |
| Plus: State and local purchases of goods and services ¹ | 574.8 | 4.6 | 3.2 |
| <i>Plus:</i> State and local employee compensation ² | 1,318.2 | 10.5 | 7.3 |
| Equals: State and local spending in the VAT base | 1,893.0 | 15.1 | 10.4 |
| Less: Adjustment for small business exemption and | | | |
| noncompliance | 1,503.5 | 12.0 | 8.3 |
| Equals: Effective VAT Base | 12,730.3 | 101.4 | 70.1 |
| ADDENDUM: | | | |
| Gross Domestic Product (GDP) | 18,170.5 | 144.7 | 100.0 |

Source: U. S. Department of Commerce, Bureau of Economic Analysis, National Income and Product Accounts (NIPA); Congressional Budget Office, "The Budget and Economic Outlook: Fiscal Years 2013 to 2023" (2013); and TPC estimates.

¹ Excludes purchases for activities provided for a fee or charge and included in NIPA consumption.

²Excludes employee compensation to produce goods and services provided for a fee or charge and included in NIPA consumption.

Table 2A Per Worker Rebate

(2015 dollars)

| Single Wor | ker and T | wo-Earne | er Married | Married V | Worker (N | onworkin | g Spouse) | Hea | d of House | ehold Wor | ker |
|-----------------|-----------|----------|------------|-----------|-----------|----------|-----------|----------|------------|-----------|----------|
| | Base | Phasein | Phaseout | | Base | Phasein | Phaseout | | Base | Phasein | Phaseout |
| Earnings | Rebate | Rate | Rate | Earnings | Rebate | Rate | Rate | Earnings | Rebate | Rate | Rate |
| 0 | 0 | 15.3% | 0% | 0 | 0 | 15.3% | 0.0% | 0 | 0 | 15.3% | 0.0% |
| 10,000 | 1,530 | 0% | 0% | 20,000 | 3,060 | 0.0% | 0.0% | 10,000 | 1,530 | 0.0% | 0.0% |
| 40,000 | 1,530 | 0% | 7.65% | 80,000 | 3,060 | 0.0% | 7.65% | 60,000 | 1,530 | 0.0% | 7.65% |
| 60,000 | 0 | 0% | 0% | 120,000 | 0 | 0.0% | 0.0% | 80,000 | 0 | 0.0% | 0.0% |

Table 2B Additional Per Child Rebate

(2015 dollars)

| One Child | | | | Two or More Children | | | |
|-----------|--------|---------|----------|----------------------|--------|---------|----------|
| Earnings | Base | Phasein | Phaseout | Earnings | Base | Phasein | Phaseout |
| or AGI* | Rebate | Rate | Rate | or AGI* | Rebate | Rate | Rate |
| 0 | 0 | 35% | 0% | 0 | 0 | 35% | 0% |
| 10,000 | 3,500 | 0% | 0% | 15,000 | 5,250 | 0% | 0% |
| 18,000 | 3,500 | 0% | 12.5% | 27,000 | 5,250 | 0% | 12.5% |
| 46,000 | 0 | 0% | 0% | 69,000 | 0 | 0% | 0% |

^{*} The phaseout would be based on the higher of AGI or earnings for taxpayers with income (AGI) above the family allowance amount.

Table 3

Revenue Effects of the Income Tax Provisions and Revenue and Spending Effects of the VAT Provisions of the Graetz Proposal Relative to Current Law in 2015

| | Amount |
|---|-------------------|
| | in 2015 |
| Provision | (\$billions) |
| Individual Income Tax Provisions | |
| Repeal the AMT | -43.9 |
| Tax Rates of 14%, 27% and 31% (Repeal 3.8% Surtax on Investment Incom | ne) -79.9 |
| Replace Standard Deduction and Personal Exemption with Family Allowance | ce -697.6 |
| Eliminate Deduction for State and Local Taxes | 85.4 |
| Floors of 2 Percent of AGI on Contributions and Mortgage Interest | 29.1 |
| Eliminate All Credits Except the Foreign Tax Credit | 142.6 |
| Total for Individual Income Tax Provisions (before Rebate) | -564.3 |
| Corporate and Non-Corporate Business Income Tax Provisions | |
| Flat Corporate Income Tax Rate of 15% | -177.7 |
| Other Corporate and Business Income Tax Provisions | 63.3 |
| Total for Corporate and Business Income Tax Provisions | -114.4 |
| Value-Added Tax (VAT) of 12.9% | |
| Gross VAT Revenue | 1,454.6 |
| Less: Individual Income Tax Offset | 142.3 |
| Less: Corporate Income Tax Offset | 21.5 |
| Less: Payroll Tax Offset | 104.0 |
| Equals: Total Revenue Offsets | 267.8 |
| Net VAT Receipts (before Rebate) | 1,186.8 |
| Integrated Income Tax and VAT Rebate ¹ | -545.1 |
| Change in Nominal Federal Spending: | |
| Cash Transfer Payments | 139.1 |
| Grant to State and Local Governments | -102.1 |
| Net Change in Nominal Federal Spending | 37.0 |
| Change in Federal Deficit | 0 |

Source: Urban-Brookings Tax Policy Center Microsimulation Model (version 0613-2) and TPC estimates based on several sources (see text).

¹ The cost of the rebate also includes the adjustment of all cash transfer payments to pre-VAT levels.

Table 4

Distributional Analysis of the Graetz Proposal

Fully Phased-in Relative to Current Law at Income Levels in 2015

(percentage change in after-tax income)

| | Individual Income Tax Provisions (before rebate) | Corporate and Business Tax Provisions | VAT (before rebate) | Integrated Income Tax and VAT Rebate | Total Changes ² |
|------------------------|--|---|---------------------------|--|-------------------------------|
| Lowest Quintile | -4.9 | 0.3 | -10.9 | 19.1 | 1.2 |
| Second Quintile | -0.8 | 0.4 | -11.2 | 13.1 | 0.0 |
| Middle Quintile | 4.3 | 0.5 | -11.1 | 7.5 | 0.2 |
| Fourth Quintile | 6.7 | 0.6 | -10.6 | 4.5 | 0.2 |
| Top Quintile | 6.2 | 1.4 | -8.4 | 1.1 | -0.4 |
| All | 4.7 | 0.9 | -9.8 | 4.8 | -0.1 |
| Addendum | | | | | |
| 80-90 | 7.3 | 0.7 | -9.9 | 2.5 | -0.2 |
| 90-95 | 7.2 | 1.0 | -9.1 | 1.3 | -0.4 |
| 95-99 | 6.5 | 1.2 | -8.1 | 0.4 | -0.5 |
| Top 1 Percent | 4.3 | 2.3 | -6.8 | 0.1 | -0.4 |
| Top 0.1 Percent | 3.2 | 2.9 | -6.7 | 0.0 | -0.9 |

Source: Urban-Brookings Tax Policy Center Microsimulation Model (version 0613-2).

¹ Provisions are stacked in the order listed.

² Total changes are relative to current law and cumulative from left to right. For example, for the middle quintile the total change is (1+.043)x(1+.005)x(1-.111)x(1+.075)-

Table 7

Number of Individual Income Tax Filers under Current Law and the Graetz Proposal in 2015

| | | | | | | ADDEN | IDUM: |
|---------------------|----------------------------|----------|------------|-----------|----------------------|---------------|---------------|
| | All Tax | Filers 1 | Under | Filers Ur | nder the | Nonfilers Who | o Owe SECA |
| | Units (Filers ² | Curren | t Law | Graetz P | roposal ³ | Under the Gra | aetz Proposal |
| Filing | and Nonfilers) | Number | Percent of | Number | Percent of | Number | Percent of |
| Status ¹ | (000) | (000) | Tax Units | (000) | Tax Units | (000) | Tax Units |
| S | 83,900 | 68,613 | 81.8 | 12,069 | 14.4 | 4,230 | 5.0 |
| MFJ | 62,259 | 58,361 | 93.7 | 16,799 | 27.0 | 7,271 | 11.7 |
| НоН | 24,016 | 23,518 | 97.9 | 1,345 | 5.6 | 2,099 | 8.7 |
| MFS | 3,056 | 3,056 | 100.0 | 869 | 28.5 | 260 | 8.5 |
| Total | 173,231 | 153,547 | 88.6 | 31,082 | 17.9 | 13,860 | 8.0 |

Source: Urban-Brookings Tax Policy Center Microsimulation Model (version 0613-2).

¹S is Single; MFJ is Married Filing Jointly; HoH is Head of Household; and MFS is Married Filing Separately.

² The 9.4 million dependents of another taxpayer who file income tax returns under the Current Law Baseline are included in the count of tax units.

³ Filers under the Graetz proposal include only those tax units that have AGI in excess of their family allowance.

Table A-1
Individual Income Tax Rates Under Current Law and the Graetz Proposal, Tax Year 2015

(2015 dollars)

| Taxab | le Income | Tax Rat | e Under: | | | | | |
|---------------|----------------|---------------|----------|--|--|--|--|--|
| | But Not | Current | Graetz | | | | | |
| Over | Over | Law | Proposal | | | | | |
| <u>Single</u> | | | | | | | | |
| \$0 | \$9,225 | 10% | 14% | | | | | |
| \$9,225 | \$37,500 | 15% | 14% | | | | | |
| \$37,500 | \$50,000 | 15% | 14% | | | | | |
| \$50,000 | \$90,850 | 25% | 27% | | | | | |
| \$90,850 | \$189,500 | 28% | 27% | | | | | |
| \$189,500 | \$250,000 | 33% | 27% | | | | | |
| \$250,000 | \$412,000 | 33% | 31% | | | | | |
| \$412,000 | \$415,050 | 35% | 31% | | | | | |
| \$415,050 | | 39.6% | 31% | | | | | |
| | Married Filins | g Jointly | | | | | | |
| \$0 | \$18,450 | 10% | 14% | | | | | |
| \$18,450 | \$75,000 | 15% | 14% | | | | | |
| \$75,000 | \$100,000 | 25% | 14% | | | | | |
| \$100,000 | \$151,400 | 25% | 27% | | | | | |
| \$151,400 | \$230,700 | 28% | 27% | | | | | |
| \$230,700 | \$412,000 | 33% | 27% | | | | | |
| \$412,000 | \$466,950 | 35% | 27% | | | | | |
| \$466,950 | \$500,000 | 39.6% | 27% | | | | | |
| \$500,000 | | 39.6% | 31% | | | | | |
| | Head of Hou | <u>sehold</u> | | | | | | |
| \$0 | \$13,200 | 10% | 14% | | | | | |
| \$13,200 | \$50,000 | 15% | 14% | | | | | |
| \$50,000 | \$50,250 | 15% | 27% | | | | | |
| \$50,250 | \$129,750 | 25% | 27% | | | | | |
| \$129,750 | \$210,100 | 28% | 27% | | | | | |
| \$210,100 | \$250,000 | 33% | 27% | | | | | |
| \$250,000 | \$412,000 | 33% | 31% | | | | | |
| \$412,000 | \$441,000 | 35% | 31% | | | | | |
| \$441,000 | | 39.6% | 31% | | | | | |

Source: Urban-Brookings Tax Policy Center Microsimulation Model (version 0613-2).