### How the Wealth is Spread: The Distribution of Government Benefits, Services and Taxes by Income Quintile in the United States

Fall 2008 Conference of The Association for Public Policy Analysis and Management (APPAM)

November 7, 2008

Robert Rector Christine Kim

The Heritage Foundation 214 Massachusetts Avenue, NE Washington, DC 20007 202 546 4400

#### **Abstract**

This paper examines the distribution of government, benefits, services and taxes by income class. The analysis estimates the distribution of a wide array of government benefits and services including cash and near cash benefits, means-tested aid, education services and general social services. It also estimates the distribution of direct and indirect taxes to finance government expenditure. The distribution of benefits, services, and taxes is examined among conventional Census income quintiles of households for the year 2004. Of particular concern is the fiscal balance within each quintile.

The analysis finds the lowest three income quintiles are in fiscal deficit (benefits received exceed taxes paid) while the two highest income quintiles are in fiscal surplus (taxes paid exceed benefits received). The average household in the bottom quintile received \$29,015 in benefits and paid \$4,251 in taxes, generating an average fiscal deficit of \$24,764 per household. In the top quintile, the average household paid \$69,704 in taxes and received \$21,515 in benefits and services, yielding an average fiscal surplus of \$48,189 per household. The bottom quintile of households received \$6.82 in benefits and services for each \$1.00 in taxes paid. By contrast the top quintile received 31 cents in benefits and services for every \$1.00 in taxes paid. Overall, there was a transfer of roughly one trillion dollars in economic resources from the most affluent 40 percent of households to the bottom 60 percent.

#### Introduction

Each year, families and individuals pay taxes to the government and receive back a wide variety of services and benefits. A fiscal deficit occurs when the benefits and services received by one group exceed the taxes paid. When such a deficit occurs, other groups must pay, through taxes, for the services and benefits of the group in deficit. Thus, government functions as the redistributional mechanism in the transfer of resources between groups in society.

This paper examines the fiscal balance in the U.S. by income class. It estimates the distribution of a wide array of government benefits and services including cash and near cash benefits, means-tested aid, education services and general social services. It also estimates the distribution of direct and indirect taxes to finance government expenditure.

The distribution of benefits, services, and taxes is examined among conventional Census income quintiles of households for the year 2004. Of particular concern is the fiscal balance within each quintile. A quintile is in fiscal deficit if the sum of benefits and services received by households within the quintile exceed the sum of taxes paid. A quintile is in fiscal surplus if the taxes paid exceed the cost of benefits and services received.

The analysis finds the lowest three income quintiles are in fiscal deficit while the two highest income quintiles are in surplus. Overall, there was a transfer of roughly one trillion dollars in economic resources from the top 40 percent of households to the bottom 60 percent.

The organization of this paper is as follows. Section I begins with a literature review of U.S. fiscal incidence or distribution studies. Section II describes the general methodology and data sources of the present study. Section III describes the procedures for calculating total expenditures and revenues for federal, state and local governments which are used in the analysis. Section IV describes types of government expenditures. Section V describes adjustments to the conventional count of households. Section VI describes the procedures used to allocate estimated spending and tax collections among the household quintiles. Section VII reports the results of the analysis and provides a brief discussion. Specific calculations are detailed in the Appendices.

#### **Section I: The Fiscal Incidence Literature**

Fiscal incidence combines tax incidence and benefit (or expenditure) incidence. It addresses, in one analysis, the twin questions of "who bears the tax burden and who benefits from government activities?" and "how much in taxes paid and benefits received?".

-

<sup>&</sup>lt;sup>1</sup> There is a broad and vigorous international fiscal incidence literature. The U.K., for example, has enjoyed a long and continuous stream of fiscal incidence analyses, many produced by the government, since Tibor Barna's *Redistribution of Incomes through Public Finance* in 1945. The Central Statistical Office, for instance, regularly produces updated fiscal incidence reports. For fiscal incidence studies of other countries, see, for example, Harding *et al.* (2004), Dyck (2003), and Devarajan and Hossain (1995).

Economist Irwin Gillespie, a pioneer of modern-day fiscal incidence studies, once defined fiscal incidence as the change in an individual's (or a group of individuals') "economic position" after the "introduction of the public sector," whose function "is to divert resources from the private sector of the economy so as to provide goods which satisfy social wants." In other words, fiscal incidence compares the *pre*-tax-and-benefit to the *post*-tax-and-benefit world, or the redistributional effect of paying taxes and receiving government benefits.

Analysts on both sides of the Atlantic had been conducting research income redistribution since the 1930s.<sup>3</sup> Much of the earlier work on fiscal incidence had been motivated by an interest in the redistributive nature and outcomes of tax and social welfare policies. Though limited in their scope and methodology, these pioneer studies nonetheless sought a more coherent theoretical and empirical approach to subject. Chamberlain and Prante (2007), in their review of the literature, concluded that "a general pattern of findings emerged [from studies conducted between the 1930s and 1950s], most notably that the combined distribution of government spending and taxes is much more redistributive than is apparent from the tax distributions alone."<sup>4</sup>

Gillespie (1965) noted a serious limitation in the earlier literature. He criticized its less theoretically and empirically developed benefit incidence compared to the tax incidence half of the analysis, a critique that still applies to the current literature. To address that imbalance, he focused on the allocation of expenditures in his seminal 1965 comprehensive fiscal incidence study. Overall, Gillespie (1965) found that incidence pattern at the federal level "generally favor[ed] low incomes, burden[ed] incomes, and [was] mainly neutral over a wide middle income range," and at the state and local level, the "pattern also favor[ed] low income, but [was] essentially neutral over both the middle and upper income ranges" in the 1960 data that he analyzed. <sup>5</sup> Furthermore, state and local benefits to the low-income groups appeared to exceed federal benefits, a finding that was contrary to the conventional view at the time. In sum, "the middle income brackets pay[ed] the cost of providing themselves with government services," and "redistribution occurs from the upper income brackets to the lower income brackets, but not in the middle income brackets."

The first to use a single data source to allocate taxes and benefits, Bishop (1967) found that, using the 1960-61 Survey of Consumer Expenditures, benefit incidence generally favored low-income families and that there was significant redistribution of income. In his "standard case" (Bishop had estimated incidence based on several alternative assumptions), the amount of benefits received by families in the lowest income group in his analysis (less \$2,000 in 1960) was four times amount they paid in taxes. By contrast, families in top income group in his analysis (\$15,000 or more in 1960) bore a tax burden that exceeded their benefit receipt by about

-4-

<sup>&</sup>lt;sup>2</sup> Gillespie (1965), p. 124.

<sup>&</sup>lt;sup>3</sup> For a list of earlier fiscal incidence studies, see Gillespie (1965), p. 123.

<sup>&</sup>lt;sup>4</sup> Chamberlain and Prante (2007), p.7

<sup>&</sup>lt;sup>5</sup> *Ibid.*, p. 165.

<sup>&</sup>lt;sup>6</sup> *Ibid.*, p. 166.

160 percent. The break-even point was slightly to the right of the center of the income distribution (at about \$6,000 in 1960).<sup>7</sup>

After the 1960s, literature advanced on both the empirical and the theoretical fronts. On the empirical front, analysts examined the combined federal, state, and local fiscal system as well as more limited fiscal systems such as the federal or a municipal budget. While these studies yielded varying patterns at the disaggregated levels, the net distributional effect found at the aggregate level generally and substantially favored the poor.

Another significant study in the literature, Ruggles and O'Higgins (1981) analyzed micro-data from the 1970 Census and IRS tax files. They found federal tax burdens to be proportional to incomes cross the income distribution but local tax burdens to be slightly regressive. Government expenditures as a share of income, on the other hand, increased as income decreased; although, in the middle of the income distribution, average expenditures received were comparable. Overall, resources were redistributed away from the top three or four income deciles to the bottom half of the income distribution. Ruggles and O'Higgins observed:

Although income level is highly correlated with taxes paid, income alone does not go very far towards explaining the distribution of public expenditure benefits. Instead, these tend to be correlated with a number of different household characteristics, which vary over the particular public expenditure categories under consideration. Overall the single variable which appears to be most important in determining the distribution of benefits is household size, although the analyses by race and sex of household show, within particular population and income groups other characteristics are also very important.<sup>10</sup>

In more recent years Smith and Edmonston (1997) undertook a fiscal incidence analysis with concrete policy implications in the *The New Americans* volume for the National Academy of Sciences, measuring the long-term fiscal impact of immigrants at different skill levels. Similar analysis was performed by Rector and Kim (2007). Chamberlain and Prante (2007) provided a new analysis of the distribution of government benefits and taxes by income quintile.

While most fiscal incidence studies have a single-year accounting period, two studies in the literature analyzed trends in the distributional impact of government taxes and spending over time. Reynolds and Smolensky (1977) analyzed fiscal incidence in 1950, 1961 and 1970, and found that though the distributional impact was large during any given year, the distributional effect did not change between 1950 and 1970. Chamberlain and Prante (2007) found that, between 1991 and 2004, "the overall fiscal system became somewhat more favorable toward

\_

<sup>&</sup>lt;sup>7</sup> Bishop (1967). p. 190.

<sup>&</sup>lt;sup>8</sup> The literature tends to be concentrated in the 1970s and 1980s; although, in recent years, there has been a renewed interest in fiscal incidence. For comprehensive analyses, see Reynolds and Smolensky (1977), Ruggles and O'Higgins (1981), Wolff and Zacharias (2004), and Chamberlain and Prante (2007). For limited-scope analyses, see Menchik (1991), Goldberg *et al.* (1974), Greene *et al.* (1976), and Martinez-Vazquez (1982).

<sup>&</sup>lt;sup>9</sup>Ruggles and O'Higgins (1981), p. 141.

<sup>&</sup>lt;sup>10</sup> p.163.

households in the four lowest quintiles...and somewhat less favorable toward household in the top quintile."<sup>11</sup>

#### Section II: General Methodology and Data

The analysis presented in this paper goes beyond typical measures of income distribution; it assesses the distribution not merely of cash and non-cash benefits but of a wider range of government services. This paper seeks to analyze government expenditures and all taxes and revenue sources for federal, state, and local government. It is hoped that comprehensiveness will help to ensure balance in the analysis and avoid biases in the conclusions. To the extent that certain types of expenditure are not included presented in the quintile distributional analysis, both the magnitude of the omitted spending and the reason for the exclusion are specified.

A second guiding principle in the analysis is budgetary accuracy. The estimating methods ensure the sum of expenditures on each specific program in the analysis matches the actual expenditure total for that program according to budgetary sources. The analysis also provides budgetary accuracy with respect to revenues collected through specific taxes and revenues sources. For a given tax, the sum of taxes paid will match total collections from that tax according to budgetary sources.

Government expenditures can be analyzed in terms of program inputs and outputs. Program outputs represent the social purposes of program: the goal for which the expenditure is undertaken. Program inputs represent the means by which the policy purpose is to be accomplished. For example, a teacher's salary is a program input which contributes to the program output of educational services for children. While it is possible to analyze the distribution of government spending by program inputs, this paper follows the approach of most fiscal distribution studies by analyzing the distribution of spending according to program outputs.

The present paper follows the "cost of services" approach to valuing government benefits and services. The value of government benefits and services is measured solely by their full cost to the taxpayer. We make no attempt to assess the utility of benefits received. Obviously, the negative fiscal impact of a government spending program for taxpayers is the same, irrespective of whether the program has a high or low utility to beneficiaries.

Most government programs have administrative costs associated with the delivery of benefits and services. For example, the Food Stamp program delivers benefits with specific dollar values to recipients but also has separate administrative costs associated with program operation. For purposes of this paper, program administrative costs are counted as part of the transfer of resources to the beneficiary. This is consistent with the concept of valuing government benefits and services at their full cost to the taxpayer. (The taxpayer faces the same income loss whether paying for administrative costs or more tangible transfers.) The key assumption is that the most administrative costs would not exist independent of the transfer of benefits, hence the administrative costs are an inherent component of the transfer costs. Since one goal of the

\_

<sup>&</sup>lt;sup>11</sup> Chamberlain and Prante (2007), p. 35

analysis is to estimate the overall magnitude of governmental economic redistribution, the administrative cost of redistributional activities are a necessary part of that measure. The framework of analysis in the present paper is the array household income quintiles from the March 2005 Current Population Survey (covering the year 2004.) Census quintiles are used because they are the most common form of presenting economic equality data for the U.S. The framework ranks households from lowest to highest by Census money income. The total government benefits and services received and taxes paid by each quintile are then estimated. The estimated allocation of benefits, services and taxes is estimated for each quintile as a group rather than at the micro or household level.

#### **Data**

The two primary sources of data used in the allocation of government expenditures and taxes were the March 2005 Current Population Survey (CPS) Supplement and the 2004 Consumer Expenditure Survey. Data on federal expenditures were taken from *Historical Tables*, *Budget of* the United States Government, Fiscal Year 2004. Data on federal taxes and revenues were taken from Analytical Perspectives, Budget of the United States Government, Fiscal Year 2006. State and local aggregate expenditure and revenue data were taken from the U.S. Bureau of Census survey of government finances and employment. Additional information on state and local spending categories was taken from U.S. Census Bureau, Federal and Local Governments: 1992 Government Finance and Employment Classification Manual. Detailed information on meanstested spending was taken from Congressional Research Service, Cash and Non-cash Benefits for Persons with Limited Income: Eligibility Rules, Recipient and Expenditure Data, FY 2002-FY 2004. This report provides important information on state and local means-tested expenditures from states' and localities' own financial resources as distinct from expenditures funded by federal grants in aid. Data on Medicaid expenditures for different recipient categories were taken from the Medicaid Statistical Information System (MSIS) as published in Medicare & Medical Statistical Supplement, 2006. Other data sources included the October 2004 CPS Supplement, the 2001 National Household Travel Survey, and the 2004 National Nursing Home Survey.

## Section III Calculating Aggregate Federal, State, and Local Spending and Revenues

This paper seeks to cover all government expenditures and all taxes and revenue sources for federal, state, and local government. The first step in a comprehensive analysis of the distribution of benefits and taxes is to count accurately the cost of all benefits and services provided by the government. Aggregate federal expenditures at the sub-function level were taken from *Historical Tables, Budget of the United States Government, FY 2007.* These data are presented in Appendix Table 1. State and local aggregate expenditures were based on data from the U.S. Census Bureau survey of government.

Two adjustments were necessary to yield an estimate of the overall combined spending for federal, state, and local governments. First, it is necessary to eliminate double counting between federal, state and local expenditures. Some \$408 billion in state and local spending is financed by

grants in aid from the federal governments. Since these funds are counted as federal expenditures, federal grants in aid were deducted from the appropriate categories of state and local spending.

A second modification involves the treatment of market-like user fees and charges at the state and local levels. These transactions involve direct payment of a fee in exchange for a government service: for example, payment of an entry fee at a park. User fees are described in the federal budget in the following manner:

> [I]n addition to collecting taxes...the Federal Government collects income from the public from market-oriented activities and the financing of regulatory expenses. These collections are classified as user charges, and they include the sale of postage stamps and electricity, charges for admittance to national parks, premiums for deposit insurance, and proceeds from the sale of assets such as rents and royalties for the right to extract oil from the Outer Continental Shelf.<sup>12</sup>

In the federal budget, user fees are not counted as revenue, and the government services financed by user fees are not included in the count of government expenditures. As the Office of Management and Budget states:

> [User charges] are subtracted from gross outlays rather than added to taxes on the receipts side of the budget. The purpose of this treatment is to produce budget totals for receipts, outlays, and budget authority in terms of the amount of resources allocated governmentally, through collective political choice, rather than through the market. 13

In contrast, Census tabulations of state and local government finances include user fees as revenue and also include the cost of the service provided for the fee as an expenditure. <sup>14</sup> The most common user fees treated in this manner in the Census state and local government financial data are household payments to public utilities for water, power, and sanitation services. Market-like, user fee payments of this type do not involve a transfer of resources from one group to another or from one household to another. In addition, government user fee transactions do not alter the net fiscal deficit or surplus of any household (defined as the cost of total government benefits and services received minus total taxes and revenues paid) because each dollar in services received will be matched by one dollar of fees paid. Finally, determining who has paid a user fee and received the corresponding service is very difficult.

For these reasons, this paper has applied the federal accounting principle of excluding most user fees from revenue tallies and excluding the services funded by the fees from the count of expenditures to state and local government finances. As noted, the inclusion or exclusion of these user fees has no effect on the net fiscal deficit or surplus of any group.

<sup>&</sup>lt;sup>12</sup> OMB (2006b), p. 301.

<sup>&</sup>lt;sup>14</sup> Census Bureau (2000), sections 3.31 and 7.24.

These adjustments yield the following spending and revenue totals. In fiscal year (FY) 2004, the expenditures of the federal government were \$2.3 trillion. In the same year, expenditures of state and local governments were \$1.4 trillion (after excluding federal grants and spending based on user fees). The combined value of federal, state, and local expenditures in FY2004 was \$3.75 trillion. With the exclusion of user fees, total taxes and revenues for federal, state, and local governments amounted to \$3.43 trillion in FY 2004. A detailed breakdown of federal, state, and local spending and taxes is provided in the Appendix.

#### **Section IV Types of Government Expenditures**

After the full cost of government benefits and services has been determined, the next step in the analysis of the fiscal distribution is to determine the beneficiaries of specific government programs. Some programs, such as Social Security, neatly parcel out benefits to specific individuals. For those programs, both the beneficiaries and the cost of the benefit provided are relatively easy to determine. At the opposite extreme, other government programs (for example, medical research at the National Institute of Health) do not neatly parcel out benefits to individuals. Determining the proper allocation of the benefits of that type of program is more difficult.

To ascertain most accurately the distribution of government benefits and services, this study begins by dividing government expenditures into six categories: (1) direct benefits, (2) means-tested benefits, (3) educational services, (4) population-based services, (5) interest and other financial obligations resulting from prior government activity, and (6) pure public goods.

#### **Direct Benefits**

Direct benefit programs involve either cash transfers or the purchase of specific services for an individual. By far the largest direct benefit programs are Social Security and Medicare. Other substantial direct benefit programs are Unemployment Insurance and Workmen's Compensation. Direct benefit programs involve a fairly transparent transfer of economic resources. The benefits are parceled out discretely to individuals in the population; both the recipient and the cost of the benefit are relatively easy to determine. In the case of Social Security, the cost of the benefits would equal the value of the Social Security check plus the administrative costs involved in delivering the benefit.

Calculating the cost of Medicare services is more complex. Ordinarily, the government does not seek to compute to the particular medical services received by an individual instead government counts the cost of Medicare for an individual as equal to the average per capita cost of Medicare services. (The number equals the total cost of Medicare services divided by the total number of recipients.)<sup>15</sup> Overall, government spent \$840 billion on direct benefits in FY 2004.

. .

<sup>&</sup>lt;sup>15</sup> The Census Bureau, for example, assigns Medicare costs in this manner in the Current Population Survey.

#### **Means-Tested Benefits**

Means-tested programs are available only to households below specific income thresholds. The federal government operates over 60 means-tested programs. The largest of these are Medicaid; the Earned Income Tax Credit (EITC); food stamps; Supplemental Security Income (SSI); Section 8 housing, public housing, Temporary Assistance to Needy Families (TANF); the school lunch and breakfast programs; the WIC (Women, Infant, and Children) nutrition program; and the Social Services Block Grant (SSBG). Many means-tested programs, such as SSI and the EITC, provide cash to recipients. Others such as public housing or SSBG, pay for services that are provided to recipients.

The value of Medicaid benefits is usually counted in a manner similar to Medicare benefits. Government does not attempt to itemize the specific medical services given to an individual; instead, it computes an average per capita cost of services to individuals in different beneficiary categories such as children, elderly persons, and disabled adults. (The average per capita cost for a particular group is determined by dividing total expenditures on the group by the total number of beneficiaries in the group.) Overall, the U.S. spent \$564 billion on means-tested aid in FY 2004.<sup>17</sup>

#### **Public Education**

Government provides primary, secondary, post-secondary, and vocational education to individuals. In most cases, the government pays directly for the cost of educational services provided. In other cases, such as the Pell Grant program, the government in effect provides money to an eligible individual who then spend it on education. Education is the single largest component of state and local government spending, absorbing roughly a third of all state and local expenditures. The average per pupil cost of public primary and secondary education is now about \$9,600 per year. Overall, federal, state, and local governments spend \$590 billion on education in FY 2004.

#### **Population-Based Services**

Whereas direct benefits, means-tested benefits, and education services provide discrete benefit and services to particular individuals, population-based programs generally provide services to a whole group or community. Population-based expenditures include police and fire protection, courts, parks, sanitation, and food safety and health inspections. Another important population-based expenditure is transportation, especially roads and highways.

A key feature of population-based expenditures is that such programs generally need to expand as the population of a community expands. (This quality separates them from pure public goods, described below). For example, as the population of a community increases, the number of police and firemen will generally need to expand in proportion.

\_

<sup>&</sup>lt;sup>16</sup> See CRS (2006).

<sup>&</sup>lt;sup>17</sup> This spending figure excludes means-tested veterans programs and most means-tested education programs.

In its study of the fiscal costs of immigration, *The New Americans*, the National Academy of Sciences argued that if service remains fixed while the population increases, a program will be "congested," and the quality of service for users will deteriorate. Thus, the NAS uses the term "congestible goods" to describe population-based services. Highways are an obvious example of this point. In general, the cost of population-based services can be allocated according to an individual's estimated utilization of the service or at a flat per capita cost across the relevant population.

A sub-category of population-based services is government administrative support functions such as tax collections and legislative activities. Few taxpayers view tax collection as a government benefit; therefore, assigning the cost of this "benefit" appears problematic. The solution to this dilemma is to conceptualize government activities into two categories: primary functions and secondary functions. Primary functions provide benefits directly to the public; they include direct and means-tested benefits, education, ordinary population-based services (such as police and parks), and public goods. By contrast, secondary or support functions do not provide direct benefits to the public but do provide necessary support services that enable the government to perform primary functions. For example, no one can receive food stamp benefits unless the government first collects taxes to fund the program. Secondary functions can thus be considered as inherent part of the "cost of production" of primary functions, and the benefits of secondary support functions can be allocated among the population in proportion to the allocation of benefits from government primary functions.

Government spent \$622 billion on population-based services in FY 2004. Of this amount, some \$546 billion went for ordinary services such as police, parks, and highways, and \$116 billion went for administrative support functions.

#### **Interest and Other Financial Obligations Relating to Past Government Activities**

Interest payments for government debt are in fact partial payments for past government benefits and services that were not fully paid for at the time of delivery. Similarly, government employees deliver services to the public. Part of the cost of service is paid for immediately through the employee's salary, but government employees are also compensated by future retirement benefits. Expenditures of public sector retirement are thus, to a considerable degree, present payments in compensation for services delivered in the past. The expenditure category "interest and other financial obligations relating to past government's activities" thus includes interest and principal payments on government debt and outlays for government employee retirement. Total government spending on these items equaled \$468 billion in FY 2004. 19

#### **Pure Public Goods**

Economic theory distinguishes between "private consumption goods" and pure public goods. Economist Paul Samuelson is credited with first making this distinction. In his seminal 1954 paper, Samuelson defined a pure public good (or what he called in the paper a "collective")

<sup>&</sup>lt;sup>18</sup> Smith and Edmonston, eds. (1997), p. 303.

<sup>&</sup>lt;sup>19</sup> Of this total, an estimated \$67 billion represents the costs of financial obligations resulting from past public goods expenditures. These costs are entered in the public goods category.

consumption good") as a good "which all enjoy in common in the sense that each individual's consumption of such a good leads to no subtractions from any other individual's consumption of that good." By contrast, a "private consumption good" is a good that "can be parceled out among different individuals." Its use by one person precludes or diminishes its use by another.

A classic example of a pure public good is a lighthouse. The fact that one ship perceives the warning beacon does not diminish the usefulness of the lighthouse to other ships. Another clear example of a governmental pure public good would be future cure for cancer produced by government-funded research. The fact that non-taxpayers would benefit from this discovery would neither diminish its benefits nor add extra costs to taxpayers. By contrast, an obvious example of a private consumption good is hamburger: when one person eats it, it cannot be eaten by others.

Formally, all pure public goods will meet two criteria:<sup>21</sup>

- Non-rivalrous Consumption. Everyone in a given community can use the good; its use by one person will not diminish its utility to others.
- **Zero-cost Extension to Additional Users**. Once a pure public good has been initially produced, it requires no extra cost for additional individuals to benefit from the good. Expansion of the number of beneficiaries does not reduce its utility to any initial user and does not add new costs of production. As Economist James Buchanan explains, with a pure public good, "additional consumers may be added at zero marginal cost." 22

The second criterion is a direct corollary of the first. If consumption of a good is truly non-rivalrous, then adding extra new consumers will not reduce utility or add costs for the initial consumers.

Direct and means-tested benefits and education services are private consumption goods in the sense that use of a benefit or service by one person precludes or limits the use of that same benefit by another. (Two people cannot cash the same Social Security check.) Population-based services such as parks and highways are often mentioned as "public good," but they are not pure goods in the sense described above. Economists Thomas MaCurdy and Thomas Nechyba state that "relatively few of the goods produced by [the] government sector are pure public goods, in the sense that the cost of providing the same level of the good is invariant to the size of the population." In other words, many government services referred to conventionally as "public goods" need to be increased at added expense to the taxpayer as the population increases, thereby violating the criterion of zero-cost extension to additional users.

In most cases, as the number of persons using a population-based service (such as highways and parks) increases, either the service much expand (at added costs to taxpayers) or the service will become "congested" and its quality will be reduced. Consequently, the use of population-based

\_

<sup>&</sup>lt;sup>20</sup> Samuelson (1954), p. 378-389.

<sup>&</sup>lt;sup>21</sup> A third criterion is nonexclusion from benefit; it is difficult to deny members of a community an automatic benefit from the good. This aspect of public goods is not critical to the fiscal allocation issues addressed in this paper. <sup>22</sup> James M. Buchanan (1968), p. 5.4.3.

<sup>&</sup>lt;sup>23</sup> Thomas MaCurdy, Thomas Nechyba, and Jay Bhattacharya (1998), p.16,

services such as police and fire departments by individuals who pay little in taxes does impose significant extra costs on other taxpayers.

Government pure public goods are rare. They include scientific research, defense, spending on veterans, international affairs, and some environmental protection activities such as the preservation of endangered species. Each of these functions generally meets the criterion that the benefits received by non-taxpayers do not result in a lost of utility for taxpayers. Government pure public good expenditures on these functions equaled \$628 billion in FY 2004. Interest payments on government debt and related costs resulting from public good spending in previous years added an estimated additional cost of \$67 billion, bringing the total public goods cost in FY 2004 to \$695 billion.

Table 1: Summary of Total Federal, State, and Local Expenditures, FY2004

	Federal Expenditures (in millions)	State and Local Expenditures (in millions)	Total Expenditures (in millions)
Direct Benefits	\$783,350	\$57,607	\$804,957
Means-Tested Benefits	\$406,512	\$158,240	\$564,752
<b>Educational Benefits</b>		\$530,801	\$590422
Population-Based Services	\$180,122	\$481,696	\$661,818
Interest and Related Costs	\$182,000	\$219,260	\$401,260
Pure Public Goods Expenditures	\$694,153	\$1,050	\$695,203
Total Expenditures	\$2,305,758	\$1,448,654	\$3,754,412
Total Expenditures Less Pure Public Good Expenditures	\$1,611,605	\$1,447,604	\$3,059,209

#### **Section V The Framework of Analysis: Money Income Quintiles**

The framework of the present analysis is household income quintiles as conventionally reported in the Census Current Population Survey (CPS). Following the normal Census procedures, households in the March 2005 CPS were ranked from low income to high income according to money income and then divided into five groups or quintiles with an equal number of households in each group. These conventional CPS quintiles were then adjusted by the inclusion of nursing home or long-term care residents. Nursing home residents are important recipients of government services but are excluded from the CPS population. In the average month in 2004, 1.65 million persons resided in nursing homes and other long-term care facilities.

For purposes of the present analysis, nursing home/long-term care residents have been added to the conventional CPS data on households. Each resident has been counted as a separate household and the total of 1.65 million new households have been added to the lowest income

quintile. After the addition of the 1.65 million households, the income boundaries of each quintile were adjusted to ensure that each quintile continued to represent one fifth of the new sum of households.

Table 2 shows the income boundaries of the adjusted quintiles and the number of households and persons in each. It is important to note that, as in the case with conventional CPS quintiles, there are substantially more persons in the top income quintile than in the bottom. This has a significant impact of the measurement of the distribution of government spending, taxes and income.

First Quintile Second Third Fourth Top Total Quintile Quintile Quintile Quintile \$17,600 to Less than \$33,801 to \$55,001 to Quintile Income Boundaries Over \$55,000 \$17,599 \$33,800 \$87,490 \$87,491 Number of Households (in 23.01 23.01 23.11 22.88 22.99 114.99 40.84 60.10 66.62 Number of persons (in millions) 51.31 73.77 292.65

Table 2: Quintiles of Households Based on Money Income

#### **Section VI Estimation Procedures for the Allocation of Spending and Revenue**

To calculate the distribution of overall government expenditures, separate estimates were made of the allocation of over 40 specific government spending programs and categories. The findings for each category are shown in Appendix table 4. The text below describes the allocation methods for most of the larger spending categories.

#### **Estimating the Allocation of Direct Benefits**

In most cases, the dollar cost of direct benefits received by income quintiles were estimated by the dollar cost of benefits received as reported in the CPS. The value of Medicare benefits was estimated using the insurance value of benefits as reported in the CPS.

One problem with this technique is that the CPS underreports receipt of most government benefits. This means that the aggregate dollar cost of benefits for a particular program as reported in the CPS is generally less than the actual program expenditures according to government budgetary data. To be consistent, any fiscal analysis must adjust for benefit underreporting. Smith and Edmonston (1997), and Chamberlain and Prante (2007), for example, adjusted for such underreporting.<sup>24</sup>

This paper adjusts for underreporting of direct benefits in the CPS with a simple two step procedure.

• First, the quintile shares of all expenditures on a given program as reported in the CPS was determined.

<sup>&</sup>lt;sup>24</sup> p. 308.

• Second, the quintile shares of program expenditures as reported in the CPS were multiplied by the total of actual expenditures on that program from budgetary sources to estimate a total expenditure for the program for each quintile.

This procedure rests on the assumption that while under-reporting of government benefits occurs in the CPS, this under-reporting is roughly proportional across quintiles. Thus, the analysis assumes that the ratio of unreported (or under-reported) benefits to reported benefits is roughly the same in each quintile. In the absence of evidence that under-reporting of benefits is biased by income class, the present procedure appears valid as an estimating technique.

#### **Estimating the Allocation of Means-tested Benefits**

The distribution of means-tested benefits was calculated in the same manner as direct benefits with two exceptions. First, in 2004, there was some \$76 billion in Medicaid expenditures on individuals residing in nursing homes or other long-term care facilities. Since these individuals do not appear in the CPS, Medicaid expenditures on nursing home residents were calculated separately. All Medicaid recipients residing in long-term care or nursing home facilities were assumed to belong to the lowest income quintile and the corresponding Medicaid expenditures were allocated accordingly.

Second, the CPS provides data on benefits received from thirteen major means-tested programs. These thirteen programs comprise 93 percent of all means-tested expenditures. (Data on these programs is shown in the Appendix tables.) There are a large number of smaller means-tested programs that are not reported in the CPS; expenditures on these residual programs amounted to \$43 billion in 2004. The estimating procedures employed in this paper assumed the quintile distribution of unreported means-tested programs was similar to the overall quintile distribution of means-tested programs reported in the CPS. Specifically, the procedures assumed that the quintile share of spending on these residual means-tested programs was proportional to the quintile share of the spending sums on the thirteen means-tested programs reported in the CPS.

#### **Estimating the Allocation of Education Expenditures**

The average cost of public education services was calculated in somewhat a different manner since the CPS reports whether an individual is enrolled in school but does not report the cost of education services provided. Consequently, data from the Census survey of governments were used to calculate the average per pupil cost of public primary and secondary education in each state.<sup>25</sup>

The distribution of educational spending by quintile was calculated with the following steps.

- 1. Children in the CPS aged 4 to 15 were assumed to attend public schools.
- 2. Individuals in the CPS aged 16 to 24 who reported enrollment in secondary school were assumed to attend public secondary school.

<sup>25</sup> Census (2006). Costs included both current expenditures and capital outlays.

-

- Each individual assumed to attend public primary of secondary school was assigned the average per pupil cost of primary and secondary public education in their state of residence.
- 4. After assigning per pupil costs, the quintile share of aggregate calculated primary and secondary education expenditures was determined.
- 5. The quintile share of primary and secondary expenditures was multiplied by the actual national sum of primary and secondary school expenditures according to budgetary sources to estimate the primary and secondary school expenditures for each quintile.

Similar procedures were followed to estimate quintile expenditures on persons enrolled in public post-secondary education. (In future analyses, this procedure should be refined to account for differences in per pupil spending within states by income class and to account for potential quintile differences in enrollment in private schools.)

#### **Estimating the Allocation of Population-Based Services**

Wherever possible, this paper has allocated the cost of population-based services for households in proportion to their estimated utilization of those services. For example, the use of public transit was assumed to be proportionate to household private expenditures on public transit. The quintile allocation of public transit subsidies among households was estimated to be proportionate to the quintile shares of public transit spending by households reported in the Consumer Expenditure Survey (CEX). When no specific data on utilization of services was available, the quintile share of a population-based expenditure was assumed to be proportionate to the quintile share of the population.

Government spending on roads and highways is an important component of population-based expenditures. Half of government highway spending is assumed to benefit businesses and is allocated according to highway taxes on business (described below). The other half of highway spending is assumed to benefit households as users of motor vehicles. The quintile share of household use of highways and highway spending is assumed to be proportional to the quintile shares of household expenditures on gasoline as reported in the CEX.

### **Estimating the Allocation of the Costs of General Government and Administrative Support Services**

Allocation of the costs of general government services such as tax collections and legislative functions presents difficulties since there are no apparent direct beneficiaries. Most taxpayers would regard IRS collection activities as a burden, not a benefit; however, while government administrative function *per se* do not benefit the public, they do provide necessary foundation that makes all other government benefit and service programs possible. They are an essential secondary government that makes primary functions possible. It seems reasonable to integrate proportionally the cost of government support services into the cost of other government functions that depend on those services. Following this reasoning, the expenditures for general government and administrative support have been allocated among families in the same

proportions that total direct benefits, means-tested benefits, education, and population-based services are distributed among families.<sup>26</sup>

#### Estimating the Allocation of Financial Obligations Relating to Past Government Activities

When government revenues do not cover the full cost of government benefits and services, a portion of annual costs is passed on to be paid in future years, through two mechanisms. First, when government expenditures exceed revenues, the government runs a deficit and borrows funds. The cost of borrowing is passed to future years in the form of interest payments and repayments of principal on public debt. Second, when a government employee provides a service to the public, part of the cost of that service is paid for immediately through the employee's salary, but the employee may also receive government retirement benefits in the future in compensation for services provided in the present. Expenditures on public-sector retirement systems are thus, to a considerable degree, present payments in compensation for services delivered in the past.

The allocation procedure for these costs associated with past services among the present-day population is uncertain. Consequently, such costs have been excluded from the analysis in this paper; the costs do not appear in any of the tables or figures provided.

#### **Estimating the Allocation of Pure Public Goods**

Government pure public goods include expenditures on defense, veterans, international affairs, scientific research, and part of spending on the environment, as well as debt obligations relating to past public good spending. Because one person's use of these services does not diminish the use by others, pure public goods expenditures are not included in the analysis in this paper: no attempt is made to allocate such expenditures among households or quintiles.

#### **Estimating the Distribution of Taxes and Revenues**

To calculate the distribution of overall government taxes and revenues, separate estimates were made of the allocation of over 35 specific government tax and revenue categories. The findings for each category are shown in Appendix table 5. The text below describes the allocation methods for most of the larger tax and revenue categories.

#### **Estimating the Allocation of Direct Taxes**

Federal and state income taxes and FICA taxes are allocated among the quintiles according to tax data provided in the CPS. The estimating procedures were the same as those used for direct and means-tested benefits.

#### **Estimating Federal and State Consumption and Excise Taxes**

<sup>26</sup> Approximately 27 percent of total federal expenditure is devoted to pure public good function; thus, 27 percent of federal support service expenditure was assumed to assist public good functions.

Sales and excise taxes were assumed to fall on the consumers; tax payments were estimated based on the share of total consumption of relevant commodity or commodities in the Consumer Expenditure Survey (CEX). The quintile share of a given excise tax was assumed to be proportionate to the quintile share of spending on the relevant item in the CEX. For example, the quintile shares of the tobacco excise tax payments were assumed to be proportionate to the quintile share of tobacco purchases in the CEX. The quintile shares of general sales taxes were assumed to be proportionate to the quintile shares of total consumption in the CEX minus consumption of items typically exempt from sales taxes such as food consumed in the home and health care expenses.

#### **Estimating Federal and State Corporate Profit Taxes**

Half of corporate profit taxes were assumed to be paid by workers and half by business owners and investors. The worker share of tax was allocated according to the distribution of earned income in the CPS. The investor share was allocated according to the distribution of property income (interest, rent, and dividends) in the CPS.

#### **Estimating Property Taxes on Owner-occupied and Rented Domiciles**

Half of overall property taxes were assumed to be paid by home owners and renters. The quintile share of taxes paid was assumed to be proportionate to the quintile share of spending on shelter costs in the CEX. Renting households were assumed to pay the full property tax on the property where they reside.

#### **Estimating Taxes Paid on Business Property**

Half of all property taxes were assumed represent taxes on business properties such as stores, offices and factories. Half of these taxes were assumed to be passed on to consumers through higher prices. The allocation of these taxes on consumers was assumed to be proportionate to the distribution of total consumption in the CEX. Half of these taxes were assumed to be paid by the owners of businesses and was allocated in proportion to the distribution of property income in the CPS.

#### **Estimating Highway Trust Fund Taxes**

Half of these taxes are assumed to fall on business and half on the private owners of motor vehicles. The business share of the tax is assumed to fall, in turn, half on consumers and half on property owners. The consumer share of tax paid is estimated to be proportionate to the distribution of total consumption in the CEX. The business share of tax paid is estimated to be proportionate to the distribution of property income in the CPS. The quintile distribution of tax paid by owners of motor vehicles is assumed to be proportionate to the quintile share of expenditures on gasoline in the CEX.

#### **Estimating Estate and Gift Taxes**

The analysis assumes all these taxes are paid by the top income quintile.

#### **Section VII: Results**

Using the methods described above, our analysis estimated the distribution of government benefits, services, taxes and other revenues. The principal objective was to determine the aggregate fiscal balance for each quintile: the aggregate value of taxes and revenues paid by the quintile minus the cost of all benefits and services received. A quintile would be in fiscal deficit if the cost of benefits and services received exceeded the taxes and revenues paid. Conversely, a quintile would be in fiscal surplus if taxes and revenues paid exceed the cost of benefits and services received.

It should be noted that all figures produced by this analysis apply to each quintile as a whole and not to specific households within the quintile. For example, while the first and second quintiles, in aggregate, generate large fiscal deficits, it is possible that many individual households within these quintiles generate individual fiscal surpluses.

#### Insert tables 3 and 4 (before Appendix)

The findings (presented in detail in tables 3 and 4) are in agreement with previous research on fiscal distribution. The allocation of present government goods and services (including direct benefits, means-tested benefits, education services, and general population-based services) among the income quintiles was found to be relatively even, although slightly greater at lower incomes than at higher. For example, in 2004, the bottom quintile was found to receive 25.3 percent of present benefits and services at a cost of \$667 billion. The top quintile was found to receive 18.7 percent of government benefits and services at a cost of \$494 billion.

The apparent evenness of the distribution of benefits and services between the household quintiles is, however, to a considerable degree an artifact driven by differences in the number of persons residing in each quintile. In particular the top income quintile of households has nearly 80 percent more persons than the bottom income quintile. When benefits and services received are converted to a per person basis, the apparent evenness in distribution disappears. The bottom quintile of households was found have substantially higher receipt of benefits (at \$16,345 per person) than top income quintile (at \$6,704 per person).

In contrast to distribution of benefits, the distribution of total taxes and revenues was found to be highly unequal. Overall the distribution in taxes and revenues was found to be roughly proportional to the distribution of income. As table 4 shows, the bottom income quintile paid 2.9 percent of all taxes and revenues while the top income quintile paid 47.3 percent. Tax and revenue payments from the top quintile amounted to \$1.6 trillion. This sum was more than sixteen times greater than the \$97 billion in payments made by the bottom quintile.

The rough equality in benefits and services received combined with the asymmetry in taxes paid generates a substantial redistribution of economic resources from higher to lower income households. The aggregate fiscal deficits or surpluses of each quintile are shown in Figure 2. The lowest income quintile received \$569 billion more in benefits and services than it paid in taxes. By contrast, the top quintile paid \$1.1 trillion more in taxes than it received in benefits and services.

Overall, as Figures 1 and 2 show, there was a transfer of roughly \$1 trillion in economic resources from the top two quintiles to the bottom three. The lowest three quintiles received some \$1.7 trillion in benefits and services while paying only around \$700 billion in taxes. The resource gap of one trillion dollars was financed by higher income groups or by deficit financing.

The fourth and fifth income quintiles received some \$928 billion in government benefits and services while paying \$2.25 billion in taxes, thereby generating a fiscal surplus of around \$1.3 trillion. This surplus was used to fund benefits for lower income households, pay debt obligations and fund public goods expenditures.

Figures 3 and 4 show the benefits and services received and taxes and revenues paid by the average household within each quintile. In the bottom quintile, the average household received \$29,015 in benefits and paid \$4,251 in taxes, generating an average fiscal deficit of \$24,764 per household. In the top quintile, the average household paid \$69,704 in taxes and received \$21,515 in benefits and services, yielding an average fiscal surplus of \$48,189 per household.

Figure 5 shows the benefits and services received and taxes paid per person within each quintile. The average individual in the bottom quintile received government benefits and services costing \$16,345 in 2004 while paying \$2,345 in taxes and revenues to the government. By contrast the average individual in the top income quintile, received \$6,704 in government benefits and services while paying \$21,721 in taxes in revenues.

Figure 6 expresses the benefits to tax balance within each quintile as a ratio of benefits and services received per \$1.00 in taxes paid. The bottom quintile of households received \$6.82 in benefits and services for each \$1.00 in taxes paid. The second quintile received \$2.59 in benefits and services for each \$1.00 in taxes paid. By contrast the top quintile received 31 cents in benefits and services for every \$1.00 in taxes paid.

Figure 1: Aggregated Benefits and Services Received and Taxes Paid by Quintile (in billions)

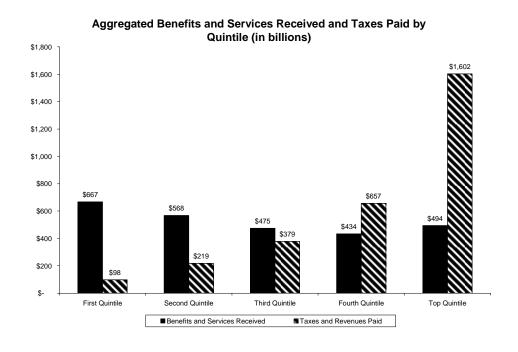


Figure 2: Aggregate Tax Surplus or Deficit by Quintile (in billions)

#### Aggregate Tax Surplus or Deficit by Quintile (in billions)

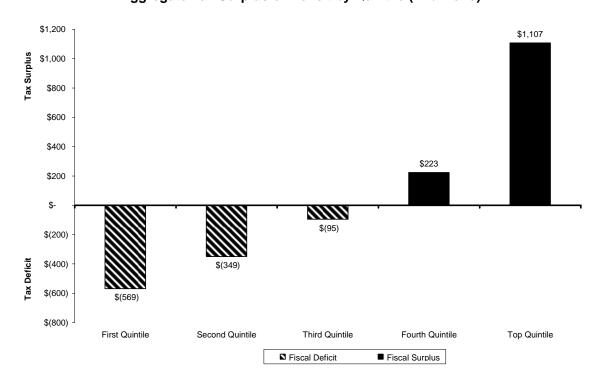


Figure 3: Average Benefits Received and Taxes Paid per Household

#### Average Benefits Received and Taxes Paid per Household

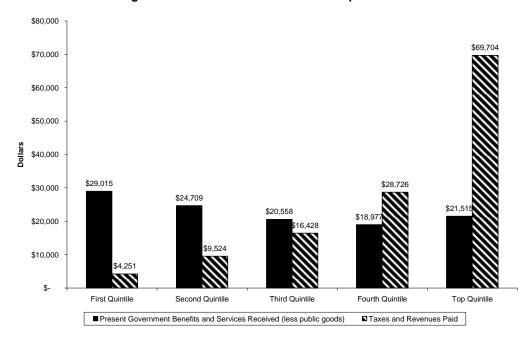


Figure 4: Net Fiscal Surplus or Deficit per Average Household (in dollars)

#### Net Fiscal Surplus or Deficit Per Average Household (in dollars)

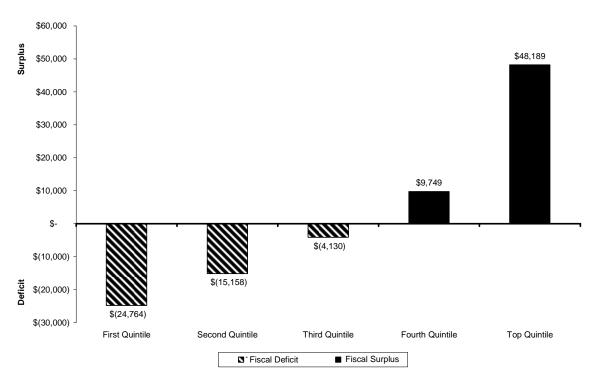


Figure 5: Average Benefits Received and Taxes Paid per Person

#### Average Benefits Received and Taxes Paid per Person

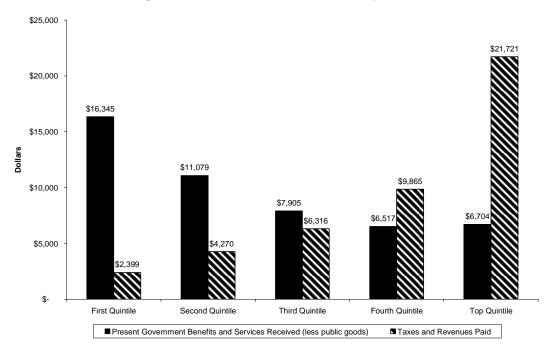
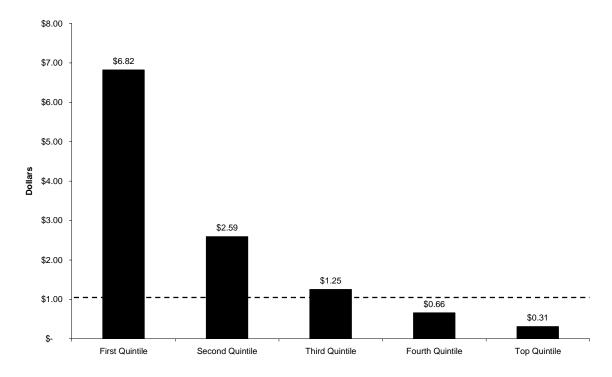


Figure 6: Benefits and Services Received per One Dollar in Taxes Paid

#### Benefits and Services Received Per One Dollar in Taxes Paid



#### **Discussion**

The overall transfer of a trillion dollars between quintiles is similar to that estimate of Chamberlain and Prante although details differ between the studies. One suspects that the estimated net transfer of a trillion dollars between income classes is somewhat larger than the sum imagined by liberals and smaller than that imagined by conservatives.

The current analysis suggests certain caveats and directions for future research. First, the ranking of households into quintiles based on money income is not a true pre-transfer ranking since money income includes Social Security and other government cash benefits. An analysis which employed pre-transfer definition of income for the initial ranking of households might show a greater magnitude of redistribution from the top to the bottom.

Second, a portion of the redistribution reflected in these numbers represents transfers from working age adults to retired adults. Redistribution between individuals over a lifetime may be less than redistribution over a single year.

Third, sensitivity analysis should be employed to test the role of various assumptions on the estimation results, (although the Chamberlain and Plante study showed stable results across a range of assumptions).

Fourth, micro-level analysis at the household rather than the quintile level would provide superior results but would be far more complex to perform.

#### Conclusion

A major function of modern government is the redistribution of economic resources. Economic redistribution can occur as a result of the direct transfer of benefits as well as the provision of services funded by other taxpayers. The present analysis suggests that one trillion dollars in resources is transferred from the two highest income household quintiles to the rest of the population. Roughly speaking, this sum would represent about 15 percent of income the higher income households. Further, public good expenditures (such as national defense and scientific research) and interest payments on the debt are financed solely by the two highest income quintiles. Lower income households benefit from these expenditures but do pay sufficient taxes to support them.

Table 3

Government Expenditures on Present Benefits and Services

<b>Aggregate</b>	Government	Expenditures

Quintile of Cash Money Income	First Qunitile Less than	Second Quintile \$17,600 to	Third Quintile \$33,801 to	Fourth Quintile \$55,001 to	Top Quintile	Total
Quintile Income Boundaries	\$17,599	\$33,800	\$55,000	\$87,490	Over \$87,491	
	Expenditures (in millions)	Expenditures (in millions)	Expenditures (in millions)	Expenditures (in millions)	Expenditures (in millions)	Expenditures (in millions)
Direct Benefits	189,901.16	243,942.85	173,317.82	126,216.55	108,442.73	841,821.10
Education Benefits	75,097.87	82,449.71	107,764.96	130,334.55	194,445.37	590,092.46
Means-tested Benefit Total	305,480.87	130,862.64	70,019.21	38,145.65	20,400.76	564,909.12
Transportation	12,676.21	20,424.84	27,579.44	37,013.95	56,204.26	153,898.70
Justice, Police and Public Safety	30,704.20	40,205.67	47,090.74	52,199.09	57,802.42	228,002.12
Resources Recreation and Enviroment	8,954.82	12,096.77	14,554.04	16,751.43	20,064.69	72,421.76
Other Health Related	5,809.16	7,606.81	8,909.45	9,875.94	10,936.07	43,137.42
Miscellaneous	9,375.46	5,813.47	4,856.13	4,469.36	4,446.09	28,960.51
General Government Administrative Support	29,503.71	25,129.16	20,999.06	19,191.60	21,861.54	116,685.07
Total Present Benefits and Services	667,503.45	568,531.92	475,090.85	434,198.11	494,603.94	2,639,928.26
Quintile Share of Present Benefits and Services	25.3%	21.5%	18.0%	16.4%	18.7%	100.0%

#### Government Expenditures Per Household

	First Qunitile (in dollars)	Second Quintile (in dollars)	Third Quintile (in dollars)	Fourth Quintile (in dollars)	Top Quintile (in dollars)	All Households (in dollars)
Direct Benefits	8,255	10,602	7,500	5,517	4,717	7,321
Education Benefits	3,264	3,583	4,663	5,696	8,458	5,132
Means-tested Benefits	13,279	5,687	3,030	1,667	887	4,913
Transportation	551	888	1,193	1,618	2,445	1,338
Justice, Police and Public Safety	1,335	1,747	2,038	2,281	2,514	1,983
Resources Recreation and Enviroment	389	526	630	732	873	630
Other Health Related	253	331	386	432	476	375
Miscellaneous	408	3 253	210	195	193	252
Government Administrative Support	1,282	1,092	909	839	951	1,015
Total Present Benefits and Services Per Household	29,015	5 24,709	20,558	18,977	21,515	22,957

Table 3 Continued

#### Government Expenditures Per Person

	First Qunitile (in dollars)	Second Quintile (in dollars)	Third Quintile (in dollars)	Fourth Quintile (in dollars)	Top Quintile (in dollars)	All Households (in dollars)
Direct Benefits Total	\$4,650	\$4,754	\$2,884	\$1,895	\$1,470	\$2,877
Education Benefits Total	\$1,839	\$1,607	\$1,793	\$1,956	\$2,636	\$2,016
Means-tested Benefit Total	\$7,480	\$2,550	\$1,165	\$573	\$277	\$1,930
Transportation Sub-total	\$310	\$398	\$459	\$556	\$762	\$526
Justice, Police and Public Safety	\$752	\$784	\$784	\$784	\$784	\$779
Resources Recreation and Environment	\$219	\$236	\$242	\$251	\$272	\$247
Other Health Related	\$142	\$148	\$148	\$148	\$148	\$147
Miscellaneous	\$230	\$113	\$81	\$67	\$60	\$99
General Government Administrative Support	\$722	\$490	\$349	\$288	\$296	\$399
Total Present Government Benefits and Services per Person	\$16,345	\$11,079	\$7,905	\$6,517	\$6,704	\$9,021

Table 4
Federal, State and Local Government Taxes and Revenues

#### Aggregate Government Taxes and Revenues

Aggregate Government Taxes and Revenues  Quintile Boundaries	First Qunitile Less than \$17,599 Revenues (in millions)	Second Quintile \$17,600 to \$33,800 Revenues (in millions)	Third Quintile \$33,801 to \$55,000 Revenues (in millions)	Fourth Quintile \$55,001 to \$87,490 Revenues (in millions)	Top Quintile Over \$87,491 Revenues (in millions)	Total  Revenues (in millions)
Federal Revenues Federal Income Tax FICA Federal Corporate Income Tax Federal Highway Trust Fund Federal Excise Taxes Federal Estate and Gift Taxes Federal Unemployment Insurance Tax Federal Retirement Other Federal Taxes Total Federal Revenues	1,152.66 10,385.45 2,919.21 1,175.06 4,569.22 0.00 428.66 40.31 279.91	5 49,906.37 1 10,754.16 5 2,391.66 2 6,707.4 0 0.00 6 950.11 1 203.56 1 783.47	7 106,314.63 6 21,413.70 5 3,701.75 8,701.38 0 0.00 1 1,433.64 4 654.47 7 1,352.66	3 180,998.47 39,776.03 6,758.42 3 11,240.21 0.00 4 1,794.38 1,272.47 2,129.44	337,395.20 114,308.25 20,629.20 15,834.78 24,831.00 2,111.21 2,397.65 4,620.48	685,000.12 189,171.34 34,656.11 47,053.00 24,831.00 6,718.00 4,539.20 9,165.96
State Revenues State Income Tax State Corporate Profit Tax Property Taxes General Sales and Consumption Taxes Lottery State Workmen's Compensation and Unemployment Insurance Other State and Local Earnings on Trust Fund and Other Assets Other General Revenue (Unallocable	563.51 519.72 23,209.22 27,840.30 12990.23 5,399.62 6,321.30	4 1,914.64 4 35,514.03 0 49,182.42 3 12990.23 2 8,715.75	3 3,812.51 3 47,468.30 2 66,142.90 3 6495.11 5 11,802.17	7,081.76 70,131.89 97,307.45 6495.11 7 15,427.73	20,351.55 141,751.24 138,864.74 6495.11 18,774.12	33,680.25 318,074.70 379,337.88 45465.80 60,119.38
Total State Revenues  Combined Federal and State Taxes and Revenues	76,843.93 97,794.39					
Quintile Share of Combined Taxes and Revenues  Total Revenues Minus Total Expenditures Ratio: Benefits Received to Taxes Paid  Average Fiscal Surplus or Deficit Per Household	2.9% -569,709.05 682.6% -\$24,763.91	5 -349,398.3° 6 259.4%	-95,445.47 5 125.1%	7 223,056.68 6 66.1%	1,107,832.14 30.9%	747,040.13

Table 4 Continued

#### Government Taxes and Revenues Per Household

	First Qunitile	Second Quintile	Third Quintile	Fourth Quintile	Top Quintile	All Households
Federal Revenues	(in dollars)	(in dollars)	(in dollars)	(in dollars)	(in dollars)	(in dollars)
Federal Income Tax	\$50	\$838	\$2,594	\$6,274	\$25,434	\$7,032
FICA	\$451	\$2,169	\$4,600	\$7,911	\$14,676	\$5,957
Federal Corporate Income Tax	\$127	\$467			\$4,972	\$1,645
Federal Highway Trust Fund	\$51				\$897	\$301
Federal Excise Taxes	\$199				\$689	
Federal Estate and Gift Taxes	\$0				\$1,080	
				* -		
Federal Unemployment Insurance Tax	\$19					
Federal Retirement	\$2				\$104	\$39
Other Federal Taxes	\$12					\$80
Total Federal	\$911	\$3,954	\$8,806	\$16,938	\$48,146	\$15,738
State Revenues						
State Income Tax	\$24	\$325	\$940	\$2,018	\$6,060	\$1,872
State Corporate Profit Tax	\$23					
Property Taxes	\$1.009				\$6,166	
General Sales and Consumption Taxes	\$1,210				\$6,040	
•	\$1,210 \$565				\$6,040 \$283	
Lottery						
State Workmen's Compensation and Unemployment Insurance	\$235				\$817	
Other State and Local	\$275				\$1,307	
Total State and Local	\$3,340	\$5,570	\$7,622	\$11,789	\$21,558	\$9,970
Combined Federal and State Tax Revenues Per Household	04.054	00.504	040.400	, Ann 700	A00 704	005 700
Combined rederal and State Tax Revenues Fer Household	\$4,251	\$9,524	\$16,428	\$28,726	\$69,704	\$25,708
					T 0 : ::	All I I accept a late
Government Taxes and Revenues Per Person	First Qunitile	Second Quintile	Third Quintile	Fourth Quintile	Top Quintile	All Households
Government Taxes and Revenues Per Person	First Qunitile (in dollars)	Second Quintile (in dollars)	(in dollars)	(in dollars)	(in dollars)	(in dollars)
Government Taxes and Revenues Per Person  Federal Revenues						
		(in dollars)	(in dollars)	(in dollars)		
Federal Revenues	(in dollars)	(in dollars) \$375.74	(in dollars) \$997.28	(in dollars) \$2,154.83	(in dollars)	(in dollars) \$2,763.18
Federal Revenues Federal Income Tax	(in dollars)	(in dollars) \$375.74 \$972.56	(in dollars) \$997.28 \$1,768.90	(in dollars) \$2,154.83 \$2,716.80	(in dollars) \$7,925.81	(in dollars) \$2,763.18 \$2,340.68
Federal Revenues Federal Income Tax FICA	(in dollars) \$28.23 \$254.31	(in dollars) \$375.74 \$972.56 \$209.57	(in dollars) \$997.28 \$1,768.90 \$356.29	(in dollars) \$2,154.83 \$2,716.80 \$597.04	(in dollars) \$7,925.81 \$4,573.40	(in dollars) \$2,763.18 \$2,340.68 \$646.41
Federal Revenues Federal Income Tax FICA Federal Corporate Income Tax	(in dollars) \$28.23 \$254.31 \$71.48	(in dollars) \$375.74 \$972.56 \$209.57 \$46.61	(in dollars) \$997.28 \$1,768.90 \$356.29 \$61.59	(in dollars)  \$ \$2,154.83  \$ \$2,716.80  \$ \$597.04  \$ \$101.44	\$7,925.81 \$4,573.40 \$1,549.45 \$279.63	(in dollars) \$2,763.18 \$2,340.68 \$646.41
Federal Revenues Federal Income Tax FICA Federal Corporate Income Tax Federal Highway Trust Fund Federal Excise Taxes	(in dollars) \$28.23 \$254.31 \$71.48 \$28.77	(in dollars) \$375.74 \$972.56 \$209.57 \$46.61 \$130.71	\$997.28 \$1,768.90 \$356.29 \$61.59 \$144.78	(in dollars)  \$ \$2,154.83  \$ \$2,716.80  \$ \$597.04  \$ \$101.44  \$ \$168.72	\$7,925.81 \$4,573.40 \$1,549.45 \$279.63 \$214.64	\$2,763.18 \$2,340.68 \$646.41 \$118.42 \$160.78
Federal Revenues Federal Income Tax FICA Federal Corporate Income Tax Federal Highway Trust Fund Federal Excise Taxes Federal Estate and Gift Taxes	(in dollars) \$28.23 \$254.31 \$71.48 \$28.77 \$111.85 \$0.00	(in dollars) \$375.74 \$972.56 \$209.57 \$46.61 \$130.71 \$0.00	\$997.28 \$1,768.90 \$356.29 \$61.58 \$144.78 \$0.00	(in dollars)  \$ \$2,154.83  \$ \$2,716.80  \$ \$597.04  \$ 101.44  \$ \$168.72  \$ \$0.00	\$7,925.81 \$4,573.40 \$1,549.45 \$279.63 \$214.64 \$336.58	\$2,763.18 \$2,340.68 \$646.41 \$118.42 \$160.78 \$84.85
Federal Revenues Federal Income Tax FICA Federal Corporate Income Tax Federal Highway Trust Fund Federal Excise Taxes Federal Estate and Gift Taxes Federal Unemployment Insurance Tax	(in dollars) \$28.23 \$254.33 \$71.44 \$28.77 \$111.85 \$0.00 \$10.55	(in dollars) \$375.74 \$972.56 \$209.57 \$46.61 \$130.71 \$0.00 \$18.52	\$997.28 \$1,768.90 \$356.29 \$61.59 \$144.78 \$0.00 \$23.85	(in dollars)  \$ \$2,154.83 \$2,716.80 \$597.04 \$101.44 \$ \$168.72 \$ \$0.00 \$ \$26.93	\$7,925.81 \$4,573.40 \$1,549.45 \$279.63 \$214.64 \$336.58 \$28.62	\$2,763.18 \$2,340.68 \$646.41 \$118.42 \$160.78 \$84.85 \$22.96
Federal Revenues Federal Income Tax FICA Federal Corporate Income Tax Federal Highway Trust Fund Federal Excise Taxes Federal Estate and Gift Taxes Federal Unemployment Insurance Tax Federal Retirement	(in dollars) \$28.25 \$254.31 \$71.44 \$28.77 \$111.85 \$0.00 \$10.55 \$0.98	(in dollars)  \$375.74 \$972.56 \$209.57 \$46.61 \$130.71 \$0.00 \$18.52 \$3.97	(in dollars) \$997.28 \$1,768.90 \$356.29 \$61.59 \$144.77 \$0.00 \$23.85 \$10.89	(in dollars)  \$ \$2,154.83  \$ \$2,716.80  \$ \$597.04  \$ 101.44  \$ \$168.72  \$ 0.00  \$ \$26.93  \$ \$19.10	(in dollars) \$7,925.81 \$4,573.40 \$1,549.45 \$279.63 \$214.64 \$336.58 \$28.62 \$32.50	\$2,763.18 \$2,340.68 \$646.41 \$118.42 \$160.78 \$84.85 \$22.96 \$15.51
Federal Revenues Federal Income Tax FICA Federal Corporate Income Tax Federal Highway Trust Fund Federal Excise Taxes Federal Estate and Gift Taxes Federal Unemployment Insurance Tax Federal Retirement Other Federal Taxes	(in dollars) \$28.23 \$254.3* \$71.44 \$28.77 \$111.85 \$0.00 \$10.55 \$0.96	(in dollars)  \$375.74 \$972.56 \$209.57 \$46.61 \$130.71 \$0.00 \$18.52 \$3.97	\$997.28 \$1,768.90 \$356.28 \$61.58 \$14.78 \$0.00 \$23.85 \$10.88 \$22.51	(in dollars)  \$ \$2,154.83 \$ \$2,716.80 \$ \$597.04 \$ \$101.44 \$ \$168.72 \$ \$0.00 \$ \$26.93 \$ \$19.10 \$ \$31.96	(in dollars) \$7,925.81 \$4,573.40 \$1,549.45 \$276.33 \$214.64 \$336.58 \$28.62 \$32.50 \$62.63	\$2,763.18 \$2,340.68 \$24,340.68 \$646.41 \$118.42 \$160.78 \$84.85 \$22.96 \$15.51 \$31.32
Federal Revenues Federal Income Tax FICA Federal Corporate Income Tax Federal Highway Trust Fund Federal Excise Taxes Federal Estate and Gift Taxes Federal Unemployment Insurance Tax Federal Retirement Other Federal Taxes Total Federal	(in dollars) \$28.2: \$254.31 \$71.48 \$28.77 \$111.88 \$0.00 \$10.55 \$0.99 \$6.88	(in dollars)  \$\\$375.74 \$\\$972.56 \$\\$209.57 \$\\$46.61 \$\\$130.77 \$\\$0.00 \$\\$18.52 \$\\$3.97 \$\\$15.27 \$\\$1,772.94	(in dollars) \$997.28 \$1,768.90 \$356.29 \$61.52 \$44.78 \$0.00 \$23.85 \$10.88 \$22.51	(in dollars)  \$ \$2,154.83 \$ \$2,716.80 \$ \$597.04 \$ \$101.44 \$ \$168.72 \$ \$0.00 \$ \$26.93 \$ \$19.10 \$ \$31.96 \$ \$5,816.83	(in dollars) \$7,925.81 \$4,573.40 \$1,549.45 \$279.63 \$214.64 \$336.58 \$28.62 \$32.60 \$62.63 \$15,003.26	\$2,763.18 \$2,340.68 \$646.41 \$118.42 \$160.78 \$84.85 \$22.96 \$15.51 \$31.32 \$6,184.11
Federal Revenues Federal Income Tax FICA Federal Corporate Income Tax Federal Highway Trust Fund Federal Excise Taxes Federal Estate and Gift Taxes Federal Unemployment Insurance Tax Federal Retirement Other Federal Taxes	(in dollars) \$28.23 \$254.3* \$71.44 \$28.77 \$111.85 \$0.00 \$10.55 \$0.96	(in dollars)  \$\\$375.74 \$\\$972.56 \$\\$209.57 \$\\$46.61 \$\\$130.77 \$\\$0.00 \$\\$18.52 \$\\$3.97 \$\\$15.27 \$\\$1,772.94	(in dollars) \$997.28 \$1,768.90 \$356.29 \$61.52 \$44.78 \$0.00 \$23.85 \$10.88 \$22.51	(in dollars)  \$ \$2,154.83 \$ \$2,716.80 \$ \$597.04 \$ \$101.44 \$ \$168.72 \$ \$0.00 \$ \$26.93 \$ \$19.10 \$ \$31.96 \$ \$5,816.83	(in dollars) \$7,925.81 \$4,573.40 \$1,549.45 \$276.33 \$214.64 \$336.58 \$28.62 \$32.50 \$62.63	\$2,763.18 \$2,340.68 \$646.41 \$118.42 \$160.78 \$84.85 \$22.96 \$15.51 \$31.32 \$6,184.11
Federal Revenues Federal Income Tax FICA Federal Corporate Income Tax Federal Highway Trust Fund Federal Excise Taxes Federal Estate and Gift Taxes Federal Unemployment Insurance Tax Federal Retirement Other Federal Taxes Total Federal check State Revenues	(in dollars) \$28.2: \$254.31 \$71.44 \$28.77 \$111.85 \$0.00 \$10.50 \$0.95 \$6.68 \$513.02	(in dollars)  \$\\$375.74 \$\\$972.56 \$\\$209.57 \$\\$46.61 \$\\$130.77 \$\\$0.00 \$\\$18.52 \$\\$3.97 \$\\$1,772.94	\$997.28 \$1,768.90 \$356.22 \$61.55 \$144.77 \$0.00 \$23.85 \$10.88 \$25.55 \$3,386.08	(in dollars)  \$ \$2,154.83  \$2,716.80  \$597.04  \$101.44  \$168.72  \$0.00  \$26.93  \$19.10  \$1.96  \$5,816.83	(in dollars) \$7,925.81 \$4,573.40 \$1,549.45 \$279.63 \$214.64 \$336.58 \$28.62 \$32.50 \$66.63 \$15,003.26	\$2,763.18 \$2,340.68 \$646.41 \$118.42 \$160.78 \$84.85 \$22.96 \$15.51 \$31.32 \$6,184.11
Federal Revenues Federal Income Tax FICA Federal Corporate Income Tax Federal Highway Trust Fund Federal Excise Taxes Federal Estate and Gift Taxes Federal Unemployment Insurance Tax Federal Retirement Other Federal Taxes Total Federal check	(in dollars)  \$28.25 \$254.31 \$71.44 \$28.77 \$111.85 \$0.00 \$10.50 \$0.99 \$6.86 \$513.02	(in dollars)  \$375.74 \$972.56 \$2209.57 \$46.61 \$130.71 \$0.00 \$18.52 \$3.97 \$15.27 \$1,772.94	\$997.28 \$1,768.90 \$356.22 \$61.55 \$144.78 \$0.00 \$23.86 \$10.88 \$22.51 \$3,386.08	(in dollars)  \$ \$2,154.83 \$2,716.80 \$597.04 \$101.44 \$168.72 \$0.00 \$26.93 \$19.10 \$31.96 \$5,816.83 \$5,816.83	(in dollars)  \$7,925.81 \$4,573.40 \$1,549.45 \$279.63 \$214.64 \$336.58 \$28.62 \$32.50 \$62.63 \$15,003.26 \$11,888.45	\$2,763.18 \$2,340.68 \$646.41 \$118.42 \$160.78 \$84.85 \$22.96 \$15.51 \$31.32 \$6,184.11 \$6,184.11
Federal Revenues Federal Income Tax FICA Federal Corporate Income Tax Federal Highway Trust Fund Federal Excise Taxes Federal Estate and Gift Taxes Federal Unemployment Insurance Tax Federal Retirement Other Federal Taxes Total Federal check State Revenues	(in dollars) \$28.2: \$254.31 \$71.44 \$28.77 \$111.85 \$0.00 \$10.50 \$0.95 \$6.68 \$513.02	(in dollars)  \$375.74 \$972.56 \$2209.57 \$46.61 \$130.71 \$0.00 \$18.52 \$3.97 \$15.27 \$1,772.94	\$997.28 \$1,768.90 \$356.22 \$61.55 \$144.78 \$0.00 \$23.85 \$10.88 \$22.51 \$3,386.08 \$3,386.08	(in dollars)  \$ \$2,154.83 \$2,716.80 \$597.04 \$101.44 \$168.72 \$0.00 \$26.93 \$19.10 \$31.96 \$5,816.83 \$5,816.83	(in dollars) \$7,925.81 \$4,573.40 \$1,549.45 \$279.63 \$214.64 \$336.58 \$28.62 \$32.50 \$66.63 \$15,003.26	\$2,763.18 \$2,340.68 \$646.41 \$118.42 \$160.78 \$84.85 \$22.96 \$15.51 \$31.32 \$6,184.11 \$6,184.11
Federal Revenues Federal Income Tax FICA Federal Corporate Income Tax Federal Highway Trust Fund Federal Excise Taxes Federal Estate and Gift Taxes Federal Unemployment Insurance Tax Federal Retirement Other Federal Taxes Total Federal check State Revenues State Income Tax	(in dollars)  \$28.25 \$254.31 \$71.44 \$28.77 \$111.85 \$0.00 \$10.50 \$0.99 \$6.86 \$513.02	(in dollars)  \$375.74 \$972.56 \$2209.57 \$46.61 \$130.71 \$0.00 \$18.52 \$3.97 \$15.27 \$1,772.94	\$997.28 \$1,768.90 \$356.22 \$61.59 \$144.78 \$0.00 \$23.85 \$10.88 \$22.51 \$3,386.08 \$3,386.08	(in dollars)  \$ \$2,154.83 \$2,716.80 \$597.04 \$101.44 \$168.72 \$0.00 \$26.93 \$19.10 \$31.96 \$5,816.83 \$5,816.83	(in dollars)  \$7,925.81 \$4,573.40 \$1,549.45 \$279.63 \$214.64 \$336.58 \$28.62 \$32.50 \$62.63 \$15,003.26 \$11,888.45	\$2,763.18 \$2,340.68 \$646.41 \$118.42 \$160.78 \$84.85 \$22.96 \$15.51 \$31.32 \$6,184.11 \$735.51 \$115.09
Federal Revenues Federal Income Tax FICA Federal Corporate Income Tax Federal Highway Trust Fund Federal Excise Taxes Federal Estate and Gift Taxes Federal Unemployment Insurance Tax Federal Retirement Other Federal Taxes Total Federal check  State Revenues State Income Tax State Corporate Profit Tax	(in dollars)  \$28.23 \$254.3' \$71.44 \$28.77 \$111.8' \$0.00 \$10.55 \$0.99 \$6.85 \$513.02 \$13.80 \$13.80	(in dollars)  \$ \$375.74 \$972.56 \$209.57 \$46.61 \$130.77 \$0.00 \$18.52 \$3.97 \$1,772.94 \$1,772.94 \$145.68 \$37.31 \$692.08	\$997.28 \$1,768.90 \$356.22 \$61.55 \$144.77 \$0.00 \$23.85 \$10.88 \$23.85 \$3,386.08 \$3,386.08	(in dollars)  \$ \$2,154.83  \$ \$2,716.80  \$ \$597.04  \$ \$101.44  \$ \$168.72  \$ \$0.00  \$ \$26.93  \$ \$19.10  \$ \$1.96  \$ \$5,816.83  \$ \$692.90  \$ \$106.30  \$ \$1,052.69	(in dollars)  \$7,925.81 \$4,573.40 \$1,549.45 \$279.63 \$214.64 \$336.58 \$28.62 \$32.50 \$62.63 \$15,003.26 \$1,888.45 \$275.87	\$2,763.18 \$2,340.68 \$646.41 \$118.42 \$160.78 \$84.85 \$22.96 \$15.51 \$31.32 \$6,184.11 \$735.51 \$115.09
Federal Revenues Federal Income Tax FICA Federal Corporate Income Tax Federal Highway Trust Fund Federal Excise Taxes Federal Estate and Gift Taxes Federal Unemployment Insurance Tax Federal Retirement Other Federal Taxes Total Federal check  State Revenues State Income Tax State Corporate Profit Tax Property Taxes	(in dollars)  \$28.2; \$254.31 \$71.44 \$28.77 \$111.85 \$0.00 \$10.51 \$0.95 \$6.88 \$513.02 \$13.06 \$13.06 \$13.06	(in dollars)  \$ \$375.74 \$972.56 \$209.57 \$46.61 \$130.71 \$0.00 \$18.52 \$3.97 \$15.27 \$1,772.94 \$1,772.94 \$337.31 \$690.08 \$958.45	\$997.28 \$1,768.90 \$356.22 \$61.55 \$144.78 \$0.00 \$23.85 \$10.89 \$22.51 \$3.386.08 \$3,386.08 \$3,386.08	(in dollars)  \$ \$2,154.83 \$2,716.80 \$597.04 \$101.44 \$168.72 \$0.00 \$26.93 \$19.10 \$31.96 \$5,816.83 \$5,816.83 \$1,062.69 \$1,062.69 \$1,052.69 \$1,460.59	(in dollars)  \$7,925.81 \$4,573.40 \$1,549.45 \$279.63 \$214.64 \$336.58 \$28.62 \$32.50 \$66.63 \$15,003.26 \$1,888.45 \$275.87 \$1,921.44	\$2,763.18 \$2,340.68 \$646.41 \$118.42 \$160.78 \$84.85 \$22.96 \$15.51 \$31.32 \$6,184.11 \$735.51 \$115.09 \$1,086.88 \$1,296.22
Federal Revenues Federal Income Tax FICA Federal Corporate Income Tax Federal Highway Trust Fund Federal Excise Taxes Federal Estate and Gift Taxes Federal Unemployment Insurance Tax Federal Retirement Other Federal Taxes Total Federal check State Revenues State Income Tax State Corporate Profit Tax Property Taxes General Sales and Consumption Taxes	(in dollars)  \$28.25 \$254.31 \$71.44 \$28.77 \$111.85 \$0.00 \$10.55 \$0.99 \$6.88 \$513.02 \$513.02	(in dollars)  \$375.74 \$972.56 \$2209.57 \$46.61 \$130.71 \$0.00 \$18.52 \$3.97 \$15.27 \$1,772.94 \$1,772.94	\$997.28 \$1,768.90 \$356.22 \$61.59 \$144.78 \$0.00 \$23.85 \$10.88 \$22.51 \$3,386.08 \$3,386.08 \$3,386.09 \$3,386.09 \$3,386.09	(in dollars)  \$ \$2,154.83 \$2,716.80 \$597.04 \$101.44 \$168.72 \$0.00 \$26.93 \$19.10 \$31.96 \$5,816.83 \$5,816.83 \$1,052.69 \$1,460.59 \$17.49	(in dollars)  \$7,925.81 \$4,573.40 \$1,549.45 \$279.63 \$214.64 \$336.58 \$28.62 \$32.50 \$62.63 \$15,003.26 \$11,888.45 \$275.87 \$1,921.44 \$1,882.31	\$2,763.18 \$2,340.68 \$646.41 \$118.42 \$160.78 \$84.85 \$22.96 \$15.51 \$31.32 \$6,184.11 \$735.51 \$115.09 \$1,086.88 \$1,296.22 \$155.36
Federal Revenues Federal Income Tax FICA Federal Corporate Income Tax Federal Highway Trust Fund Federal Excise Taxes Federal Estate and Gift Taxes Federal Unemployment Insurance Tax Federal Retirement Other Federal Taxes Total Federal check  State Revenues State Income Tax State Corporate Profit Tax Property Taxes General Sales and Consumption Taxes Lottery	(in dollars)  \$28.23 \$254.31 \$71.44 \$28.77 \$111.85 \$0.00 \$10.50 \$0.99 \$6.86 \$513.02 \$513.02 \$513.02	(in dollars)  \$\\\\\$375.74 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\$997.28 \$1,768.90 \$356.22 \$61.55 \$144.78 \$0.00 \$23.85 \$10.85 \$22.51 \$3,386.08 \$3,386.08 \$3,386.08 \$1,100.51 \$10.80 \$25.51 \$3,386.08	(in dollars)  \$ \$2,154.83  \$ \$2,716.80  \$ \$597.04  \$ \$101.44  \$ \$168.72  \$ \$0.00  \$ \$26.93  \$ \$19.10  \$ \$1.81  \$ \$5,816.83  \$ \$692.90  \$ \$1,052.69  \$ \$1,052.69  \$ \$1,460.59  \$ \$97.49  \$ \$231.57	(in dollars)  \$7,925.81 \$4,573.40 \$1,549.45 \$279.63 \$214.64 \$336.58 \$28.62 \$32.50 \$65.35 \$15,003.26 \$15,003.26 \$1,888.45 \$275.87 \$1,921.44 \$1,882.31 \$88.04	\$2,763.18 \$2,340.68 \$646.41 \$118.42 \$160.78 \$84.85 \$22.96 \$15.51 \$331.32 \$6,184.11 \$6,184.11 \$735.51 \$115.09 \$1,086.88 \$1,296.22 \$155.36 \$205.43
Federal Revenues Federal Income Tax FICA Federal Corporate Income Tax Federal Highway Trust Fund Federal Excise Taxes Federal Estate and Gift Taxes Federal Lumemployment Insurance Tax Federal Retirement Other Federal Taxes Total Federal check State Revenues State Income Tax State Corporate Profit Tax Property Taxes General Sales and Consumption Taxes Lottery State Workmen's Compensation and Unemployment Insurance	(in dollars)  \$28.2; \$254.31 \$71.44 \$28.7; \$111.8; \$0.00 \$10.55 \$0.95 \$6.8; \$513.02 \$13.03 \$13.86 \$12.75 \$668.3; \$681.75 \$318.05 \$13.22	(in dollars)  \$ \$375.74 \$972.56 \$209.57 \$46.61 \$130.71 \$0.00 \$18.52 \$3.97 \$15.27 \$1,772.94  \$145.68 \$37.31 \$692.08 \$958.45 \$253.15 \$16.925 \$240.94	\$997.28 \$1,768.90 \$356.22 \$61.55 \$144.78 \$0.00 \$23.85 \$10.89 \$22.51 \$3.386.08 \$3,386.08 \$1.100.51 \$1.100.51 \$10.89	(in dollars)  \$ \$2,154.83 \$2,716.80 \$5597.04 \$101.44 \$168.72 \$0.00 \$26.93 \$19.10 \$31.96 \$5,816.83 \$5,816.83 \$1,062.69 \$1,062.69 \$1,460.59 \$97.49 \$231.57 \$407.08	(in dollars)  \$7,925.81 \$4,573.40 \$1,549.45 \$279.63 \$214.64 \$336.58 \$28.62 \$32.50 \$62.63 \$15,003.26 \$11,888.45 \$275.87 \$1,921.44 \$1,882.31 \$88.04 \$254.48	\$2,763.18 \$2,340.68 \$646.41 \$118.42 \$160.78 \$84.85 \$22.96 \$15.51 \$31.32 \$6,184.11 \$735.51 \$115.09 \$1,086.88 \$1,296.22 \$155.36 \$205.43
Federal Revenues Federal Income Tax FICA Federal Corporate Income Tax Federal Highway Trust Fund Federal Excise Taxes Federal Estate and Gift Taxes Federal Unemployment Insurance Tax Federal Retirement Other Federal Taxes Total Federal check  State Revenues State Income Tax State Corporate Profit Tax Property Taxes General Sales and Consumption Taxes Lottery State Workmen's Compensation and Unemployment Insurance Other State and Local Total State and Local	(in dollars)  \$28.2; \$254.31 \$71.44 \$28.77 \$111.85 \$0.00 \$10.55 \$0.99 \$6.88 \$513.02 \$13.08 \$13.86 \$12.77 \$568.33 \$881.77 \$318.70 \$13.82.22 \$154.77 \$1,881.66	(in dollars)  \$ \$375.74 \$972.56 \$2209.57 \$46.61 \$130.77 \$0.00 \$18.52 \$3.97 \$1,772.94 \$1,772.94 \$145.68 \$37.31 \$692.08 \$958.45 \$253.15 \$169.85 \$240.94 \$2,497.46	\$997.28 \$1,768.90 \$356.22 \$61.55 \$144.77 \$0.00 \$23.85 \$10.85 \$23.86.08 \$3,386.08 \$3,386.08 \$3,386.08 \$1,100.51 \$108.07 \$196.37 \$310.88 \$2,930.59	(in dollars)  \$ \$2,154.83 \$2,716.80 \$597.00 \$101.44 \$168.72 \$0.00 \$26.93 \$19.10 \$31.96 \$5,816.83 \$5,816.83 \$106.30 \$1,052.69 \$1,460.59 \$231.57 \$407.08 \$4,048.62	(in dollars)  \$7,925.81 \$4,573.40 \$1,549.45 \$279.63 \$214.64 \$336.58 \$28.62 \$32.50 \$66.63 \$15,003.26 \$11,888.45 \$275.87 \$1,921.44 \$1,882.31 \$88.04 \$254.48 \$407.19	\$2,763.18 \$2,340.68 \$646.41 \$118.42 \$160.78 \$84.85 \$22.96 \$15.51 \$331.32 \$6,184.11 \$6,184.11 \$735.51 \$115.09 \$1,086.88 \$1,296.22 \$155.36 \$205.43 \$323.01 \$3,917.50
Federal Revenues Federal Income Tax FICA Federal Corporate Income Tax Federal Highway Trust Fund Federal Highway Trust Fund Federal Excise Taxes Federal Unemployment Insurance Tax Federal Netirement Other Federal Taxes Total Federal check  State Revenues State Income Tax State Corporate Profit Tax Property Taxes General Sales and Consumption Taxes Lottery State Workmen's Compensation and Unemployment Insurance Other State and Local	(in dollars)  \$28.25 \$254.31 \$71.44 \$28.77 \$111.85 \$0.00 \$10.55 \$0.99 \$6.88 \$513.02 \$513.02 \$13.80 \$12.27 \$568.33 \$681.77 \$318.00 \$132.22 \$154.75	(in dollars)  \$ \$375.74 \$972.56 \$2209.57 \$46.61 \$130.77 \$0.00 \$18.52 \$3.97 \$1,772.94 \$1,772.94 \$145.68 \$37.31 \$692.08 \$958.45 \$253.15 \$169.85 \$240.94 \$2,497.46	\$997.28 \$1,768.90 \$356.22 \$61.55 \$144.77 \$0.00 \$23.85 \$10.85 \$23.86.08 \$3,386.08 \$3,386.08 \$3,386.08 \$1,100.51 \$108.07 \$196.37 \$310.88 \$2,930.59	(in dollars)  \$ \$2,154.83 \$2,716.80 \$597.00 \$101.44 \$168.72 \$0.00 \$26.93 \$19.10 \$31.96 \$5,816.83 \$5,816.83 \$106.30 \$1,052.69 \$1,460.59 \$231.57 \$407.08 \$4,048.62	(in dollars)  \$7,925.81 \$4,573.40 \$1,549.45 \$279.63 \$214.64 \$336.58 \$28.62 \$32.50 \$62.63 \$15,003.26 \$11,888.45 \$275.87 \$1,921.44 \$1,882.31 \$88.04 \$254.48	\$2,763.18 \$2,340.68 \$646.41 \$118.42 \$160.78 \$84.85 \$22.96 \$15.51 \$331.32 \$6,184.11 \$6,184.11 \$735.51 \$115.09 \$1,086.88 \$1,296.22 \$155.36 \$205.43 \$323.01 \$3,917.50

#### Appendix Table 1: Federal Outlays - FY2004

#### Federal Outlays, FY 2004

Function and Subfunction	Total Outlays	Program Type
	(in millions of dollars)	
50 National defense:		
051 Department of Defense—Military:		
Military personnel	\$113,576	Public good
Operation and Maintenance	\$174,045	Public good
Procurement	\$76,216	Public good
Research, Development, Test, and Evaluation	\$60,759	Public good
Military construction	\$6,312	Public good
Family housing	\$3,905	Public good
Other	\$1,708	Public good
051 Subtotal, Department of Defense—Military	\$436,521	Public good
053 Atomic energy defense activities	\$16,625	Public good
054 Defense-related activities	\$2,762	Public good
Total, National defense	\$455,908	Public good
50 International affairs:		
151 International development and humanitarian assistance	\$13,825	Public good
152 International security assistance	\$8,369	Public good
153 Conduct of foreign affairs	\$7,897	Public good
154 Foreign information and exchange activities	\$1,141	Public good
155 International financial programs	-\$4,341	Public good
Total, International affairs	\$26,891	Public good
50 General science, space and technology:		
251 General science and basic research	\$8,416	Public good
252 Space flight, research, and supporting activities	\$14,637	Public good
Total, General science, space and technology	\$23,053	Public good
70 energy:		
271 Energy supply	-\$1,555	
272 Energy conservation	\$926	
274 Emergency energy preparedness	\$158	
276 Energy information, policy, and regulation	\$305	
Total, energy	-\$166	Population-based Services
00 Natural resources and environment:		
301 Water resources	\$5,571	Public good
302 Conservation and land management	\$9,758	Public good
303 Recreational resources 304 Pollution control and abatement	\$2,963	Population-based Services
	\$8,485	Population-based Services
306 Other natural resources	\$3,948 \$30,725	Public good
Total, Natural resources and environment	\$30,725	
50 agriculture: 351 Farm income stabilization	411 100	Direct han afit
	\$11,186	Direct benefit
352 Agricultural research and services Total, agriculture	\$4,254 \$15,440	Public good
70 Commerce and housing credit:		
371 Mortgage credit	\$2,659	Direct benefit

373 Deposit insurance	-\$1,976	Direct benefit
376 Other advancement of commerce	\$8,660	Population-based Services
Total, Commerce and housing credit	\$5,273	
400 transportation:		
401 Ground transportation	\$40,743	Population-based Services
Highways and Roads	\$32,336	Population-based Services
riigiiways aliu Koaus		•
Other ground transportation	\$8,407	Population-based Services
402 Air transportation	\$16,743	Population-based Services
403 Water transportation	\$6,898	Population-based Services
407 Other transportation	\$242	Population-based Services
Total, transportation	\$64,626	
450 Community and regional development:		
451 Community development	\$6,167	Not applicable
452 Area and regional development	\$2,329	Not applicable
453 Disaster relief and insurance	\$7,301	Not applicable
Total, Community and regional development	\$15,797	Duplicates below
450 Community and regional development: Duplicate Accounts		
Community and regional development proportional	\$13,754	Population-based Services
Community and regional development: public good (homeland security)	\$2,043	Public good
Total	\$15,797	
FOO Education training amplement and assist consists		
500 Education, training, employment, and social services:	#24.2E7	Educational honofite
501 Elementary, secondary, and vocational education	\$34,357	Educational benefits
502 Higher education	\$25,264	Educational benefits
503 Research and general education aids	\$3,005	Public good
504 Training and employment	\$7,912	Means-tested
505 Other labor services	\$1,552	Population-based Services
506 Social services (Including Head Start)	\$15,855	Means-tested
Total, Education, training, employment, and social services	\$87,945	
550 Health:		
551 Health care services, public health, metal health, substance abuse	\$19,888	Population-based Services
551 Health care services, means-tested	\$190,204	Means-tested
552 Health research and training	\$27,099	Public good
554 Consumer and occupational health and safety	\$2,943	Population-based Services
Total, health	\$240,134	r opalation based Services
rotal, ricalar	Ψ210,131	
570 Medicare:		
571 Medicare	\$269,360	Direct benefit
371 Hedicare	Ψ205,300	Direct beliefic
600 Income security:		
601 General retirement and disability insurance (excluding social security)(pension benefit guarantee, black lung and disable miners, railroad	\$6,573	Direct benefit
retirement)	4-7	
602 Federal employee retirement and disability: total	\$88,729	Interest and Other Financial
	\$00,729	Obligations
602 Federal employee retirement and disability due to past public good functions + subtotal	\$23,868	Public good
602 Federal employee retirement and disability, all other: sub-total	\$64,861	Interest and Other Financial
	ψο./ου1	Obligations Not applicable
603 Unemployment compensation (counted as state expenditure)	+26 566	Not applicable
604 Housing assistance	\$36,568	Means-tested
605 Food and nutrition assistance	\$46,012	Means-tested
609 Other income security (Supplemental Security Income, Refundable Earned Income Credit, Temporary Assistance to Needy Families, Low Income		
Energy Assistance, Foster Care, Child Care and Child Development Block	\$109,961	Means-tested
Grant)		
Total, Income security	\$332,837	

\$495,548   Direct benefit   \$700   Veterans   \$11,654   Public good   \$702   Veterans education, training, and rehabilitation   \$2,751   Public good   \$702   Veterans education, training, and rehabilitation   \$2,751   Public good   \$703   Yeterans education, training, and rehabilitation   \$2,751   Public good   \$704   Veterans housing   \$1,980   Public good   \$704   Veterans housing   \$1,980   Public good   \$705   Other veterans benefits and services   \$59,779   Public good   \$705   Other veterans benefits and services   \$59,779   Public good   \$750   Administration of justice:   \$19,090   Population-based Services   \$751   Pederal law enforcement activities   \$19,090   Population-based Services   \$752   Federal litigative and judicial activities   \$9,685   Population-based Services   \$753   Pederal correctional activities   \$9,685   Population-based Services   \$753   Pederal correctional activities   \$9,595   Population-based Services   \$754   Criminal justice assistance   \$11,251   Population-based Services   \$754   Criminal justice assistance   \$11,251   Population-based Services   \$800   General government:   \$801   Legislative functions   \$3,187   Population-based Services   \$802   Executive direction and management   \$31,87   Population-based Services   \$803   Central fiscal operations   \$9,339   Population-based Services   \$804   General property and records management   \$21,822   Population-based Services   \$805   Central personnel management   \$21,822   Population-based Services   \$808   Central personnel management   \$2,228   Population-based Services   \$809   Deductions   \$6,628   Population-based Services   \$809   Deductions   \$6,628   Population-based Services   \$809   Deductions   \$6,628   Population-based Services   \$900   Net interest   \$15,952   Population-based Services   \$900   Net interest   \$90	650 Social security:		
701 Income security for veterans       \$31,654       Public good         702 Veterans education, training, and rehabilitation       \$2,751       Public good         703 Hospital and medical care for veterans       \$26,783       Public good         704 Veterans housing       -\$1,980       Public good         705 Other veterans benefits and services       \$571       Public good         705 Total, Veterans benefits and services       \$59,779       Public good         751 Federal law enforcement activities       \$19,090       Population-based Services         752 Federal litigative and judical activities       \$9,685       Population-based Services         753 Federal correctional activities       \$9,685       Population-based Services         754 Criminal justice assistance       \$11,251       Population-based Services         754 Criminal fuscion of justice       \$3,187       Population-based Services         800 General government:       \$3,187       Population-based Services         801 Legislative functions       \$3,187       Population-based Services         802 Executive direction and management       \$11,251       Population-based Services         803 Central fiscal operations       \$9,339       Population-based Services         804 General purpose fiscal assistance       \$7,675       Population-based Services </th <th>651 Social security</th> <th>\$495,548</th> <th>Direct benefit</th>	651 Social security	\$495,548	Direct benefit
701 Income security for veterans       \$31,654       Public good         702 Veterans education, training, and rehabilitation       \$2,751       Public good         703 Hospital and medical care for veterans       \$26,783       Public good         704 Veterans housing       -\$1,980       Public good         705 Other veterans benefits and services       \$571       Public good         705 Total, Veterans benefits and services       \$59,779       Public good         751 Federal law enforcement activities       \$19,090       Population-based Services         752 Federal litigative and judical activities       \$9,685       Population-based Services         753 Federal correctional activities       \$9,685       Population-based Services         754 Criminal justice assistance       \$11,251       Population-based Services         754 Criminal fuscion of justice       \$3,187       Population-based Services         800 General government:       \$3,187       Population-based Services         801 Legislative functions       \$3,187       Population-based Services         802 Executive direction and management       \$11,251       Population-based Services         803 Central fiscal operations       \$9,339       Population-based Services         804 General purpose fiscal assistance       \$7,675       Population-based Services </th <th></th> <th></th> <th></th>			
702 Veterans education, training, and rehabilitation       \$2,751       Public good         703 Hospital and medical care for veterans       \$26,783       Public good         704 Veterans housing       \$1,980       Public good         705 Other veterans benefits and services       \$59,779       Public good         750 Administration of justice:       750 Administration of justices         751 Federal law enforcement activities       \$19,090       Population-based Services         752 Federal litigative and judicial activities       \$9,685       Population-based Services         753 Federal correctional activities       \$5,509       Population-based Services         754 Criminal justice assistance       \$11,251       Population-based Services         754 Criminal justice assistance       \$11,251       Population-based Services         754 Criminal justice assistance       \$1,1251       Population-based Services         755 Rederal government:       \$3,187       Population-based Services         800 General government:       \$3,187       Population-based Services         801 Legislative functions       \$3,187       Population-based Services         802 Executive direction and management       \$1,592       Population-based Services         803 Central fiscal operation assessed Services       \$1,593       Population-	700 Veterans benefits and services:		
703 Hospital and medical care for veterans       \$26,783       Public good         704 Veterans housing       -\$1,980       Public good         705 Other veterans benefits and services       \$571       Public good         750 Administration of justice:       ****       *****         751 Federal law enforcement activities       \$19,090       Population-based Services         752 Federal litigative and judicial activities       \$9,685       Population-based Services         753 Federal correctional activities       \$5,509       Population-based Services         754 Criminal justice assistance       \$11,251       Population-based Services         754 Criminal justice assistance       \$11,251       Population-based Services         754 Criminal justice assistance       \$11,251       Population-based Services         800 General government:       ***       ***         801 Legislative functions       \$3,187       Population-based Services         802 Executive direction and management       \$10       Population-based Services         803 Central fiscal operations       \$9,339       Population-based Services         804 General property and records management       \$2,28       Population-based Services         805 Central personnel management       \$2,28       Population-based Services         806	701 Income security for veterans	\$31,654	Public good
704 Veterans housing 705 Other veterans benefits and services 705 Other veterans benefits and services 751 Public good 705 Other veterans benefits and services 752 Federal and services 753 Federal law enforcement activities 755 Federal litigative and judicial activities 756 Federal litigative and judicial activities 7575 Federal litigative and judicial activities 758 Federal correctional activities 759 Federal correctional activities 750 Population-based Services 751 Federal correctional activities 752 Federal instraction of justice 753 Federal correctional activities 754 Criminal justice assistance 755 Federal correctional activities 756 Population-based Services 757 Population of justice 757 Population of justice 758 Population of justice 758 Population of justice 759 Population of justice 759 Population of justice 759 Population-based Services 759 Population Population Population-based Services 759 Population-based Serv	702 Veterans education, training, and rehabilitation	\$2,751	Public good
705 Other veterans benefits and services  Total, Veterans benefits and services  \$59,779  Public good  750 Administration of justice:  751 Federal law enforcement activities  752 Federal litigative and judicial activities  753 Federal correctional activities  753 Federal correctional activities  754 Criminal justice assistance  754 Criminal justice assistance  754 Criminal justice assistance  755 Rederal government:  801 Legislative functions  802 Executive direction and management  803 Central fiscal operations  804 General property and records management  805 Central personnel management  806 General purpose fiscal assistance  807 Senderal property and records management  808 Office general government:  809 Deductions for offsetting receipts  750 Depulation-based Services  809 Deductions for offsetting receipts  751 Oppulation-based Services  809 Deductions for offsetting receipts  809 Other interest  901 Interest on Treasury debt securities (gross)  902 Interest received by on-budget trust funds  903 Interest received by off-budget trust funds  904 Ceneral government  905 Other interest  906 Other interest  907 Other interest  908 Other interest  909 Other interest  909 Other interest  909 Other interest  909 Other interest  Net Interest Due to Past Public Good Functions  8117,139  Interest and Other Financial Obligations  Public good  Interest and Other Financial Obligations	703 Hospital and medical care for veterans	\$26,783	Public good
Total, Veterans benefits and services         \$59,779         Public good           750 Administration of justice:         751 Federal law enforcement activities         \$19,090         Population-based Services           752 Federal litigative and judicial activities         \$9,685         Population-based Services           753 Federal correctional activities         \$5,509         Population-based Services           754 Criminal justice assistance         \$11,251         Population-based Services           754 Criminal justice assistance         \$45,535         Population-based Services           750 General government:         ***         ***           800 General government:         ***         ***           801 Legislative functions         \$3,187         Population-based Services           802 Executive direction and management         \$510         Population-based Services           804 General property and records management         \$218         Population-based Services           805 Central personnel management         \$217         Population-based Services           805 Central personnel management         \$218         Population-based Services           806 General purpose fiscal assistance         \$7,675         Population-based Services           808 Detuctions for offsetting receipts         \$1,679         Population-based Services     <	704 Veterans housing	-\$1,980	Public good
750 Administration of justice: 751 Federal law enforcement activities 752 Federal litigative and judicial activities 753 Federal litigative and judicial activities 753 Federal correctional activities 754 Criminal justice assistance 755 Criminal justice assistance 756 Criminal justice assistance 757 Criminal justice assistance 758 Criminal justice assistance 759 Criminal justice assistance 759 Criminal justice assistance 750 Legislative functions 750 Legislative functions 750 Executive direction and management 751 Population-based Services 752 Executive direction and management 751 Population-based Services 753 Central fiscal operations 755 Central personnel management 756 Services 757 Population-based Services 758 Population-based Services 759 Population-based Services 750 Population-based Services 750 Population-based Services 750 Po	705 Other veterans benefits and services	\$571	Public good
751 Federal law enforcement activities\$19,090Population-based Services752 Federal litigative and judicial activities\$9,685Population-based Services753 Federal correctional activities\$5,509Population-based Services754 Criminal justice assistance\$11,251Population-based ServicesTotal, Administration of justice\$45,535Population-based Services800 General government:\$3,187Population-based Services801 Legislative functions\$3,187Population-based Services802 Executive direction and management\$510Population-based Services803 Central fiscal operations\$9,339Population-based Services804 General property and records management\$228Population-based Services805 Central personnel management\$217Population-based Services806 General purpose fiscal assistance\$7,675Population-based Services809 Deductions for offsetting receipts\$1,679Population-based Services809 Deductions for offsetting receipts\$1,679Population-based ServicesTotal, General government\$21,822Population-based ServicesGeneral government, all other\$15,952Population-based Services900 Net interest:901 Interest on Treasury debt securities (gross)\$321,679Not applicable902 Interest received by on-budget trust funds\$43,00Not applicable903 Interest received by off-budget trust funds\$46,228Not applicable909 Other investment income\$4,473Not applicable <th>Total, Veterans benefits and services</th> <th>\$59,779</th> <th>Public good</th>	Total, Veterans benefits and services	\$59,779	Public good
751 Federal law enforcement activities\$19,090Population-based Services752 Federal litigative and judicial activities\$9,685Population-based Services753 Federal correctional activities\$5,509Population-based Services754 Criminal justice assistance\$11,251Population-based ServicesTotal, Administration of justice\$45,535Population-based Services800 General government:\$3,187Population-based Services801 Legislative functions\$3,187Population-based Services802 Executive direction and management\$510Population-based Services803 Central fiscal operations\$9,339Population-based Services804 General property and records management\$228Population-based Services805 Central personnel management\$217Population-based Services806 General purpose fiscal assistance\$7,675Population-based Services809 Deductions for offsetting receipts\$1,679Population-based Services809 Deductions for offsetting receipts\$1,679Population-based ServicesTotal, General government\$21,822Population-based ServicesGeneral government, all other\$15,952Population-based Services900 Net interest:901 Interest on Treasury debt securities (gross)\$321,679Not applicable902 Interest received by on-budget trust funds\$43,00Not applicable903 Interest received by off-budget trust funds\$46,228Not applicable909 Other investment income\$4,473Not applicable <th>750 Administration of justice:</th> <td></td> <td></td>	750 Administration of justice:		
753 Federal correctional activities \$5,509 Population-based Services 754 Criminal justice assistance \$11,251 Population-based Services 754 Criminal justice assistance \$11,251 Population-based Services 754 Criminal justice \$45,535 Population-based Services 754 Criminal justice \$45,535 Population-based Services 8500 General government:  801 Legislative functions \$3,187 Population-based Services 802 Executive direction and management \$510 Population-based Services 803 Central fiscal operations \$9,339 Population-based Services 804 General property and records management \$228 Population-based Services 805 Central personnel management \$217 Population-based Services 805 General purpose fiscal assistance \$7,675 Population-based Services 808 Other general government \$2,345 Population-based Services 809 Deductions for offsetting receipts \$1,679 Population-based Services 809 Deductions for offsetting receipts \$1,679 Population-based Services Total, General government \$21,822 Population-based Services General government \$1,950 Population-based Services 900 Net interest:  900 Net interest:  901 Interest on Treasury debt securities (gross) \$321,679 Population-based Services 900 Net interest received by on-budget trust funds \$56,7761 Not applicable 903 Interest received by off-budget trust funds \$66,228 Not applicable 908 Other interest \$60,225 Not applicable 909 Other interest \$60,245 Not applicable 909 Other interest \$10,245 Not applicable 909 Other interest \$10,245 Not applicable 909 Other interest public Good Functions \$43,106 Public good Interest and Other Financial Obligations 9100 Not interest, all other \$117,139 Interest and Other Financial Obligations 9100 Not interest, all other \$117,139 Interest and Other Financial Obligations 9100 Not interest, all other \$117,139 Interest and Other Financial Obligations 9100 Not interest, all other \$117,139 Interest and Other Financial Obligations 91000 Not interest, all other \$117,139 Interest and Other Financial Obligations 91000 Not interest \$10,0000 Not interest \$10,0000 Not i	-	\$19,090	Population-based Services
754 Criminal justice assistance Total, Administration of justice  800 General government:  801 Legislative functions 802 Executive direction and management 803 Central fiscal operations 804 General property and records management 805 Central personnel management 806 General purpose fiscal assistance 807 Central personnel management 808 Other general government 809 Deductions for offsetting receipts 809 Depulation-based Services 809 Depulation-based Services 809 Depulation-based Ser	752 Federal litigative and judicial activities	\$9,685	Population-based Services
800 General government:\$31,87Population-based Services801 Legislative functions\$3,187Population-based Services802 Executive direction and management\$510Population-based Services803 Central fiscal operations\$9,339Population-based Services804 General property and records management\$228Population-based Services805 Central personnel management\$217Population-based Services806 General purpose fiscal assistance\$7,675Population-based Services808 Other general government\$2,345Population-based Services809 Deductions for offsetting receipts\$1,679Population-based ServicesTotal, General government\$21,822Population-based ServicesGeneral government in support of public good functions\$5,870Public goodGeneral government, all other\$15,952Population-based Services900 Net interest:901 Interest on Treasury debt securities (gross)\$321,679Not applicable903 Interest received by on-budget trust funds\$46,7761Not applicable903 Interest received by off-budget trust funds\$86,228Not applicable909 Other investment income\$2,992Not applicable10tal, Net interest\$160,245Not applicableNet Interest Due to Past Public Good Functions\$43,106Public goodInterest and Other Financial ObligationsInterest and Other Financial ObligationsTotal, we interest, all other\$1,000Interest and Other Financial Obligations	753 Federal correctional activities	\$5,509	Population-based Services
800 General government:         801 Legislative functions       \$3,187       Population-based Services         802 Executive direction and management       \$9,339       Population-based Services         803 Central fiscal operations       \$9,339       Population-based Services         804 General property and records management       \$228       Population-based Services         805 Central personnel management       \$217       Population-based Services         806 General purpose fiscal assistance       \$7,675       Population-based Services         808 Other general government       \$2,345       Population-based Services         809 Deductions for offsetting receipts       \$1,679       Population-based Services         Total, General government       \$21,822       Population-based Services         General government in support of public good functions       \$5,870       Public good         General government, all other       \$15,952       Population-based Services         900 Net interest:         901 Interest on Treasury debt securities (gross)       \$321,679       Not applicable         903 Interest received by onf-budget trust funds       \$6,7761       Not applicable         903 Other interest       \$4,473       Not applicable         909 Other investment income       \$2,972 <td< th=""><th>754 Criminal justice assistance</th><th>\$11,251</th><th>Population-based Services</th></td<>	754 Criminal justice assistance	\$11,251	Population-based Services
801 Legislative functions\$3,187Population-based Services802 Executive direction and management\$510Population-based Services803 Central fiscal operations\$9,339Population-based Services804 General property and records management\$228Population-based Services805 Central personnel management\$217Population-based Services806 General purpose fiscal assistance\$7,675Population-based Services808 Other general government\$2,345Population-based Services809 Deductions for offsetting receipts-\$1,679Population-based ServicesTotal, General government\$21,822Population-based ServicesGeneral government in support of public good functions\$5,870Public goodGeneral government, all other\$15,952Population-based Services900 Net interest901 Interest on Treasury debt securities (gross)\$321,679Not applicable902 Interest received by off-budget trust funds-\$67,761Not applicable903 Interest received by off-budget trust funds-\$67,761Not applicable908 Other interest-\$4,473Not applicable909 Other interest-\$4,473Not applicableNet Interest Due to Past Public Good Functions\$43,106Public goodNet Interest Due to Past Public Good Functions\$43,106Public goodNet interest, all other\$117,139Interest and Other Financial Obligations	Total, Administration of justice	\$45,535	Population-based Services
801 Legislative functions\$3,187Population-based Services802 Executive direction and management\$510Population-based Services803 Central fiscal operations\$9,339Population-based Services804 General property and records management\$228Population-based Services805 Central personnel management\$217Population-based Services806 General purpose fiscal assistance\$7,675Population-based Services808 Other general government\$2,345Population-based Services809 Deductions for offsetting receipts-\$1,679Population-based ServicesTotal, General government\$21,822Population-based ServicesGeneral government in support of public good functions\$5,870Public goodGeneral government, all other\$15,952Population-based Services900 Net interest901 Interest on Treasury debt securities (gross)\$321,679Not applicable902 Interest received by off-budget trust funds-\$67,761Not applicable903 Interest received by off-budget trust funds-\$67,761Not applicable908 Other interest-\$4,473Not applicable909 Other interest-\$4,473Not applicableNet Interest Due to Past Public Good Functions\$43,106Public goodNet Interest Due to Past Public Good Functions\$43,106Public goodNet interest, all other\$117,139Interest and Other Financial Obligations			
802 Executive direction and management  803 Central fiscal operations  804 General property and records management  805 Central personnel management  805 Central personnel management  806 General purpose fiscal assistance  806 General purpose fiscal assistance  808 Other general government  809 Deductions for offsetting receipts  809 Deductions for offsetting receipts  809 Ceneral government  800 Ceneral government  800 Deductions for offsetting receipts  800 Total, General government  800 Ceneral government  800 Deductions for offsetting receipts  801 Total Outlays with offsetting receipts  802 Executive directions  803 Central personnel management  \$21,822 Population-based Services  809 Population-based Services  809 Deductions for offsetting receipts  \$21,822 Population-based Services  800 Po	800 General government:		
803 Central fiscal operations 804 General property and records management 805 Central personnel management 805 Central personnel management 806 General purpose fiscal assistance 806 General purpose fiscal assistance 808 Other general government 809 Deductions for offsetting receipts 809 Deductions for offsetting receipts 809 Ceneral government 809 Deductions for offsetting receipts 809 Total, General government 809 Ceneral government 809 Ceneral government 809 Deductions for offsetting receipts 809 Total, General government 809 Deductions for offsetting receipts 809 Depulation-based Services 809 Dep	801 Legislative functions	\$3,187	Population-based Services
804 General property and records management 805 Central personnel management 806 General purpose fiscal assistance 806 General purpose fiscal assistance 808 Other general government 82,345 809 Deductions for offsetting receipts 809 Deductions for offsetting receipts 809 Deductions for offsetting receipts 809 Ceneral government \$21,822 809 Population-based Services 809 Deductions for offsetting receipts 809 Total, General government \$21,822 809 Population-based Services 809 Deductions for offsetting receipts 809 Total, General government in support of public good functions 809 General government, all other 800 Net interest:  900 Net interest:  901 Interest on Treasury debt securities (gross) 902 Interest received by on-budget trust funds 903 Interest received by off-budget trust funds 904 Other interest 905 Other interest 906 Other interest 907 Other investment income 908 Other investment income 909 Other investment income 909 Other investment income 909 Other investment income 900 Other investment income 900 Other interest 900 Other investment income 900 Other interest 900 Other	802 Executive direction and management	\$510	Population-based Services
805 Central personnel management 806 General purpose fiscal assistance 806 General purpose fiscal assistance 808 Other general government \$2,345 Population-based Services 809 Deductions for offsetting receipts -\$1,679 Population-based Services 809 Deductions for offsetting receipts -\$1,679 Population-based Services Total, General government \$21,822 Population-based Services General government in support of public good functions General government, all other  \$55,870 Public good Population-based Services  900 Net interest:  901 Interest on Treasury debt securities (gross) 902 Interest received by on-budget trust funds 903 Interest received by off-budget trust funds 908 Other interest 909 Other interest 909 Other interest 154,473 Not applicable 909 Other investment income -\$2,972 Not applicable Total, Net interest 1610,245 Net Interest Due to Past Public Good Functions Net interest, all other  Total Outlays with offsetting receipts  \$2,305,758	803 Central fiscal operations	\$9,339	Population-based Services
806 General purpose fiscal assistance 808 Other general government 809 Deductions for offsetting receipts 7-\$1,679 809 Deductions for offsetting receipts 7-\$1,679 809 Deductions for offsetting receipts 7-\$1,679 809 Population-based Services 809 Deductions for offsetting receipts 7-\$1,679 809 Population-based Services 809 Deductions for offsetting receipts 821,822 82 8321,822 84 84 85,870 84 85,870 84 85,870 84 85,870 86 87 800 Net interest: 800 Net interest:  901 Interest on Treasury debt securities (gross) 902 Interest received by on-budget trust funds 903 Interest received by off-budget trust funds 903 Interest received by off-budget trust funds 908 Other interest 909 Other investment income 909 Other investment income 1-\$2,972 816,245 8160,245 8160,245 8160,245 817,139 817,139 817,139 817,139 817,139 817,139 82,305,758	804 General property and records management	\$228	Population-based Services
808 Other general government 809 Deductions for offsetting receipts 7 total, General government \$21,822 Population-based Services Fotal, General government \$21,822 Population-based Services General government in support of public good functions General government, all other \$5,870 Public good General government, all other  900 Net interest:  901 Interest on Treasury debt securities (gross) 902 Interest received by on-budget trust funds 903 Interest received by off-budget trust funds 908 Other interest 909 Other interest 909 Other investment income 7	805 Central personnel management	\$217	Population-based Services
809 Deductions for offsetting receipts  Total, General government General government in support of public good functions General government in support of public good functions General government, all other  \$5,870 Public good Population-based Services  900 Net interest:  901 Interest on Treasury debt securities (gross) 902 Interest received by on-budget trust funds 903 Interest received by off-budget trust funds 908 Other interest 909 Other interest 909 Other investment income 7\$2,972 Not applicable Total, Net interest Net Interest Due to Past Public Good Functions Net interest, all other  *\$2,305,758	806 General purpose fiscal assistance	\$7,675	Population-based Services
Total, General government General government in support of public good functions General government, all other  900 Net interest:  901 Interest on Treasury debt securities (gross) 902 Interest received by on-budget trust funds 903 Interest received by off-budget trust funds 908 Other interest 909 Other interest 909 Other investment income Total, Net interest Net Interest Due to Past Public Good Functions  Total Outlays with offsetting receipts  \$21,822 Population-based Services  Population-based Services  Public good Population-based Services  \$321,679 Population-based Services  Public good Population-based Services  \$321,679 Not applicable Not applicable Population-based Services  \$431,679 Not applicable Not applicable Public good Interest and Other Financial Obligations  \$43,106 Public good Interest and Other Financial Obligations	808 Other general government	\$2,345	Population-based Services
General government in support of public good functions General government, all other  900 Net interest:  901 Interest on Treasury debt securities (gross) 902 Interest received by on-budget trust funds 903 Interest received by off-budget trust funds 908 Other interest 909 Other investment income 7-\$4,473 909 Other investment income 7-\$2,972 Not applicable  Not applicable 9100 Other investment income 9100 Other investmen	809 Deductions for offsetting receipts	-\$1,679	Population-based Services
General government, all other\$15,952Population-based Services900 Net interest:901 Interest on Treasury debt securities (gross)\$321,679Not applicable902 Interest received by on-budget trust funds-\$67,761Not applicable903 Interest received by off-budget trust funds-\$86,228Not applicable908 Other interest-\$4,473Not applicable909 Other investment income-\$2,972Not applicableTotal, Net interest\$160,245Net Interest Due to Past Public Good Functions\$43,106Public goodNet interest, all other\$117,139Interest and Other Financial ObligationsTotal Outlays with offsetting receipts\$2,305,758	Total, General government	\$21,822	Population-based Services
900 Net interest:  901 Interest on Treasury debt securities (gross) 902 Interest received by on-budget trust funds 903 Interest received by off-budget trust funds 908 Other interest 909 Other investment income 7-\$4,473 909 Other investment income 7-\$2,972 Not applicable  Total, Net interest Net Interest Due to Past Public Good Functions Net interest, all other  Total Outlays with offsetting receipts  \$2,305,758			•
901 Interest on Treasury debt securities (gross) \$321,679 Not applicable 902 Interest received by on-budget trust funds -\$67,761 Not applicable 903 Interest received by off-budget trust funds -\$86,228 Not applicable 908 Other interest -\$4,473 Not applicable 909 Other investment income -\$2,972 Not applicable  Total, Net interest \$160,245 Net Interest Due to Past Public Good Functions \$43,106 Public good Net interest, all other \$117,139 Interest and Other Financial Obligations  Total Outlays with offsetting receipts \$2,305,758	General government, all other	\$15,952	Population-based Services
902 Interest received by on-budget trust funds 903 Interest received by off-budget trust funds 908 Other interest 909 Other investment income 910 Other investment income	900 Net interest:		
903 Interest received by off-budget trust funds 908 Other interest 909 Other investment income 909 Other investment income 752,972 Total, Net interest Net Interest Due to Past Public Good Functions Net interest, all other  Total Outlays with offsetting receipts  Not applicable Public good Interest and Other Financial Obligations  \$2,305,758	901 Interest on Treasury debt securities (gross)	\$321,679	Not applicable
908 Other interest -\$4,473 Not applicable 909 Other investment income -\$2,972 Not applicable  Total, Net interest \$160,245 Net Interest Due to Past Public Good Functions \$43,106 Public good Net interest, all other \$117,139 Interest and Other Financial Obligations  Total Outlays with offsetting receipts \$2,305,758	902 Interest received by on-budget trust funds	-\$67,761	Not applicable
909 Other investment income -\$2,972 Not applicable  Total, Net interest \$160,245  Net Interest Due to Past Public Good Functions \$43,106 Public good  Net interest, all other \$117,139 Interest and Other Financial Obligations  Total Outlays with offsetting receipts \$2,305,758	903 Interest received by off-budget trust funds	-\$86,228	Not applicable
Total, Net interest  Net Interest Due to Past Public Good Functions  Net interest, all other  *117,139  Total Outlays with offsetting receipts  \$2,305,758	908 Other interest	-\$4,473	Not applicable
Net Interest Due to Past Public Good Functions \$43,106 Public good  Net interest, all other \$117,139 Interest and Other Financial Obligations  Total Outlays with offsetting receipts \$2,305,758	909 Other investment income	-\$2,972	Not applicable
Net interest, all other \$117,139 Interest and Other Financial Obligations  Total Outlays with offsetting receipts \$2,305,758	Total, Net interest	\$160,245	
Total Outlays with offsetting receipts \$117,139 Obligations	Net Interest Due to Past Public Good Functions	\$43,106	Public good
	Net interest, all other	\$117,139	
	Total Outlays with offsetting receipts	\$2,305.758	
(=:::::::::::::::::::::::::::::::::::::	(Excludes unemployment insurance)		

Source Budget Historical Tables For FY2006; Budget Codes 401 Details Taken from FY2006 Budget Appendix, pp. 792-824.

# Appendix Table 2: State and Local Outlays Minus Federal Grants in Aid and User Fees and Charges

State and Local Outlays Net Federal Grants in Aid and Net fees and Charges	Final Net Expenditures	Type of Program
	(in millions)	
Total income security, health, and social services		
Means tested Aid and services	158,239.53	Means tested
Other income, health and services	8,808.39	Population-based
Total transportation		
Highways	78,498.76	Population-based
Air transportation (airports)	1,727.56	Population-based
Parking facilities	-203.93	Population-based
Sea and inland port facilities	939.84	Population-based
Transit subsidies	346.66	Population-based
Total education and training		
Higher education	100,823.83	Educational benefits
Elementary & secondary	425,206.94	Educational benefits
Other education	9,095.47	Direct benefits
Training	-4,325.00	Educational benefits
Libraries	9,064.51	Population-based
Total resources and environment		
Natural resources	12,611.90	Population-based
Parks and recreation	22,246.96	Population-based
Sewerage	5,742.49	Population-based
Solid waste management	8,289.80	Population-based
Justice and public safety	182,467.12	Population-based
Veterans	1,049.74	Interest and other costs due to past services
General government	58,733.37	Population-based
Protective inspection and regulation	11,498.04	Population-based
Administration and unallocated expenditure	38,734.62	Population-based
Employment security administration Interest on general debt	2,029.16 81,723.06	Direct benefits Interest and other costs due to past services
Insurance trust expenditure		
Unemployment compensation	43,277.64	Direct benefits
Employee retirement	137,537.44	Interest and other costs due to past services
Workers' compensation	12,299.80	Direct benefits
Other insurance trust	4,289.89	Population-based
Utility expenditure		
Water supply	8,719.05	Population-based
Electric power	3,318.36	Population-based
Gas supply	211.20	Population-based
Transit	26,676.34	Population-based
Liquor store expenditure	-1,024.71	Population-based
TOTAL STATE AND LOCAL EXPENDITURES	1,448,653.82	
Summary		
Direct Benefit Total	57,606.60	
Means-tested Total	158,239.53	
Educational Benefits Total	530,801.24	
Population-Based Services	481,696.22	
Interest and Other Financial Obligation Due to Past Activities	219,260.50	
Pure Public Good Expenditures	1,049.74	
TOTAL STATE AND LOCAL EXPENDITURES	1,448,653,82	

**Appendix Table 3: Government Taxes and Revenues** 

Federal Revenue Receipts FY 2004	Aggregate Revenue	Revenue Sub-Totals
From Taxes and Related Sources	(in millions)	(in millions)
Individual income taxes	808,959	
Corporate income taxes	189,371	
Federal insurance contributions act (FICA)	685,334	
Old Age and Survivors Insurance		457,120
Disability insurance		77,625
Hospital insurance		150,589
Unemployment insurance - federal receipts	6,718	
Other retirement receipts	8,620	
Railroad retirement		2,297
Railroad social security equivalent account		1,729
Federal employees retirement employee share		4,543
Non-federal Employees Retirement		51
Excise taxes	69,855	
Alcohol excise tax		8,105
Tobacco excise tax		7,926
Telephone excise tax		5,997
Transportation fuels excise tax		1,381
Other taxes		1,157
Trust fund excise taxes		
Highway		34,711
Airport		9,174
Other		1,404
Estate and Gift Tax	24,831	
Customs duties and fees	21,083	
Other miscellaneous receipts	12,913	
Miscellaneous: fees for permits and regulatory and judicial services		8,675
Miscellaneous: fines, penalties and forfeitures		3,902
Other miscellaneous federal receipts		336
TOTAL FEDERAL RECIEPTS*	1,827,684	

\*Excludes \$32.6 billion in unemployment insurance receipts from state

governments

and \$19.6 billion in earnings of the federal reserve system

State and Local Revenue	Aggregate Revenue	Revenue Sub-totals
From Taxes and Related Sources	(in millions)	(in millions)
Taxes		
Property	318,242	
General sales	244,891	
Selective sales	115,738	
Motor fuel		34,944
Alcoholic beverage		4,986
Tobacco products		12,626
Public utilities		21,427
Other selective sales		41,756
Individual income	215,215	
Corporate income	33,716	
Motor vehicle license	18,709	
Other taxes	63,766	
Miscellaneous general revenue	165,139	
Interest earnings		53,194
Special assessments		6,453
Sale of property		1,960

Lottery receipts		45,466
Other general revenue		58,066
Insurance trust revenue	66,024	
Unemployment compensation		38,362
Workers' compensation		21,758
Other insurance trust revenue		5,904
Employee retirement trust revenue*	365,318	
Employee contribution		30,786
Earnings on investments		315,554
Other		18,974
TOTAL STATE AND LOCAL REVENUE	1,606,758	

#### TOTAL FEDERAL, STATE, AND LOCAL REVENUE

3,434,442

From Taxes and Related Sources

Sources: Federal Source: Analytic Perspectives, Budget of the United States Government, Fiscal Year 2006; State and Local Source:U.S. Census, Survey of Governments, http://www.census.gov/govs/estimate/0400ussl\_1.html.

<sup>\*</sup>Excludes intra-governmental transfers to retirement trust funds.

### Appendix Table 4 Aggregate Government Expenditures

	Allocation Algorithms for Expenditures by Quintile	Sį	Aggregate Federal pending (in millions)	Sp	Aggregate State and Local pending (in millions)	Combined Aggregate pending (in millions)	First Qunitile (share)	Second Quintile (share)	Third Quintile (share)	Fourth Quintile (share)	Top Quintile (share)
Direct Benefits	0.1.11.01.47.1						1			1	1
Social Security Benefits	Quintile Share of Total Program Expenditures in the CPS	\$	495,548.00			\$ 495,548.00	0.219	0.304	0.208	0.149	0.122
Medicare Benefits	Quintile Share of Total Program Expenditures in the CPS	\$	269,360.00			\$ 269,360.00	0.282	0.298	0.190	0.128	0.102
Other Cash Transfers and Benefits						\$ 76,048.60					
Unemployment Compensation	Quintile Share of Total Program Expenditures in the CPS			\$	45,306.81	\$ 45,306.81	0.092	0.187	0.249	0.255	0.217
Workman's Compensation	Quintile Share of Total Program Expenditures in the CPS			\$	12,299.80	\$ 12,299.80	0.063	0.196	0.264	0.235	0.246
Other Federal Retirement (Railroad and Black Lung Disability)	Quintile Share of Total Program Expenditures in the CPS	\$	6,573.00			\$ 6,573.00	0.043	0.237	0.485	0.175	0.060
Agricultural Subsidies	Quintile Share of Total Program Expenditures in the CPS	\$	11,186.00			\$ 11,186.00	0.000	0.059	0.121	0.205	0.622
Mortgage Credit and Deposit Insurance	Quintile Share of Interest Income in the CPS	\$	683.00			\$ 683.00	0.023	0.059	0.088	0.177	0.650
Direct Benefits Total		\$	783,350.00	\$	57,606.60	\$ 840,956.60					
Education Benefits											
Higher education Elementary & secondary	See Text See Text	\$	25,264.00 34,357.00		100,823.83 425,206.94	\$ 126,087.83 459,563.94	0.126 0.128	0.159 0.134	0.200 0.177	0.235 0.216	0.279 0.344
Training and Other Education Education Benefits Total	Quintile Share of the Non- elderly Adult Population	\$	59.621.00	\$	4,770.50 530.801.27	4,770.50	0.110	0.155	0.209	0.245	0.281

Appendix Table 4 Continued				Α	ggregate							
Means-tested Benefits	Allocation Algorithms for Expenditures	Sp	aggregate Federal pending (in millions)	Sp	tate and Local ending (in nillions)	Sp	Combined Aggregate pending (in millions)	First Qunitile (share)	Second Quintile (share)	Third Quintile (share)	Fourth Quintile (share)	Top Quintile (share)
ineans-tested benefits	Quintile Share of Total	<u> </u>	illillions)		illillolis)		illillions)	(Silaie)	(Silaie)	(Silaie)	(Silaie)	(Silaie)
Public Aid	Program Expenditures in the CPS	\$	6,485.00	\$	10,082.00	\$	16,567.00	0.573	0.262	0.116	0.037	0.013
001	Quintile Share of Total Program Expenditures in		0.4.000.00	•	F 4 40 00	•	00.000.00	0.450	0.055	0.450	0.005	0.050
SSI	the CPS  Quintile Share of Total  Program Expenditures in	\$	34,693.00	Э	5,146.00	\$	39,839.00	0.453	0.255	0.153	0.085	0.056
EITC	the CPS	\$	34,012.00			\$	34,012.00	0.307	0.456	0.151	0.061	0.025
Additional Child Credit (Refundable Portion)	Quintile Share of Total Program Expenditures in the CPS	\$	9,113.00			\$	9,113.00	0.072	0.450	0.340	0.108	0.029
F 10:	Quintile Share of Total Program Expenditures in		00.404.00	•	0.500.00		00.000.00	0.074	0.044	0.007	0.047	0.004
Food Stamps	the CPS Quintile Share of Total Program Expenditures in	\$	28,431.00	ф	2,562.00		30,993.00	0.671	0.241	0.067	0.017	0.004
School Lunch and Breakfast	the CPS  Quintile Share of	\$	8,531.00			\$	8,531.00	0.282	0.302	0.209	0.120	0.088
WIC	Beneficiaries in the CPS	\$	4,899.00			\$	4,899.00	0.370	0.334	0.207	0.064	0.025
Housing	Quintile Share of Total Program Expenditures in the CPS	\$	38,881.00	\$	0.80	\$	38,881.80	0.791	0.148	0.047	0.011	0.003
<u> </u>	Quintile Share of Total Program Expenditures in					·	·					
Energy	the CPS  Quintile Share of Total  Program Expenditures in	\$	2,118.00	\$	141.00	\$	2,259.00	0.665	0.252	0.081	0.002	0.000
Daycare	the CPS	\$	13,158.00	\$	4,946.00	\$	18,104.00	0.372	0.311	0.181	0.088	0.048
Indian Health	Quintile Share of Beneficiaries in the CPS	\$	3,706.00			\$	3,706.00	0.285	0.203	0.168	0.195	0.149
Training	Quintile Share of Beneficiaries in the CPS	\$	6,131.00	\$	876.00	\$	7,007.00	0.336	0.277	0.188	0.119	0.080

Appendix Tal	le 4 Continued
--------------	----------------

Appendix Table 4 Continued				Α	ggregate							
		A	ggregate		State and	(	Combined					
			Federal		Local	į	Aggregate	First	Second	Third	Fourth	Top
Means-tested Benefits	Allocation Algorithms	Spe	ending (in	Sr	ending (in		pending (in	Qunitile	Quintile	Quintile	Quintile	Quintile
(continued)	for Expenditures		nillions)		millions)		millions)	(share)	(share)	(share)	(share)	(share)
	Quintile Share of Total		,		,		,		,	(/	( , , , ,	
Medicaid: Elderly in General	Program Expenditures in											
Population	the CPS					\$	28,017.99	0.524	0.219	0.111	0.084	0.061
Medicaid: Non-elderly Disabled	Quintile Share of Total											
Adults in the General	Program Expenditures in											
Population	the CPS					\$	105,978.67	0.486	0.237	0.139	0.094	0.045
Medicaid: Non-elderly Able-	Quintile Share of Total											
bodied Adults in the General	Program Expenditures in											
Population	the CPS					\$	35,828.59	0.359	0.284	0.189	0.110	0.059
Medicaid: Children in the	Quintile Share of Total											
General Population Including	Program Expenditures in											
Children on SCHIP	the CPS					\$	59,966.28	0.325	0.315	0.193	0.108	0.060
Medicaid: Elderly in Nursing												
Facilities	See text					\$	45,014.97	1.0	0.000	0.000	0.000	0.000
Medicaid: Non-elderly Disabled												
Adults in Nursing Facilities	See text					\$	14,654.64	1.0	0.000	0.000	0.000	0.000
Medicaid: Non-elderly Able-												
bodied Adults in Nursing												
Facilities	See text					\$	90.09	1.0	0.000	0.000	0.000	0.000
Meidcaid: Children in Nursing	_					_						
Facilities	See text					\$	60.06	1.0	0.000	0.000	0.000	0.000
Medicaid: Elderly in ICF MR						_						
(Mentally Retarded)	See text					\$	1,081.08	1.0	0.000	0.000	0.000	0.000
Medicald: Non-elderly Disabled												
Adults in ICF MR (Mentally						_						
Retarded)	See text					\$	16,156.14	1.0	0.000	0.000	0.000	0.000
Medicaid: Non-elderly Able-												
bodied Adults in ICF MR						_	00.00	4.0	0.000	0.000	0.000	0.000
(Mentally Retarded)	See text					\$	30.03	1.0	0.000	0.000	0.000	0.000
Medicald: Children in ICF MR	Coo tout					φ.	60.00	1.0	0.000	0.000	0.000	0.000
(Mentally Retarded)	See text	Φ.	470 740 00	Φ.	407.004.00	\$	60.06	1.0	0.000	0.000	0.000	0.000
Medicaid/SCHIP Total	Allocated in Proportion to	\$	179,712.00	\$	127,221.00	\$	306,933.20					
	the Sum of Total Means-											
Other Means-tested Aid	tested Expenditures											
	Reported Individually in											
medical care)	the CPS	\$	36,642.00	¢	7,264.73	\$	43,901.12	0.54	0.232	0.124	0.068	0.036
	uic Oro	\$	406.512.00	\$		_	564.751.53	0.54	0.232	0.124	0.000	0.030
Means-tested Benefit Total	l	Ф	400,512.00	Ф	158,239.53	\$	504,751.53					

Appendix Table 4 Continued					Aggregate							
			ggregate Federal		State and Local		Combined Aggregate	First	Second	Third	Fourth	Тор
General Government	Allocation Algorithms	Sp	ending (in	S	ending (in	S	ending (in	Qunitile	Quintile	Quintile	Quintile	Quintile
Services	for Expenditures	r	nillions)		millions)		millions)	(share)	(share)	(share)	(share)	(share)
Transportation												
Highways, Roads, and Parking	Quintile Share of Gasoline											
Facilities	Tax (See Revenue Table)	\$	32,336.00	\$	78,294.86	\$	110,630.86	0.09	0.14	0.20	0.26	0.31
Air Transportation (airports)	N/A	\$	16,743.00	\$	1,727.56	\$	18,470.56					
	Quintile Share of Total											
Sea and Inland Port Facilities	Consumption in the CEX	\$	6,898.00	\$	939.84	\$	7,837.84	0.08	0.13	0.17	0.24	0.38
	Quintile Share of Public											
Other Federal Ground	Transit Consumption in											
Transportation	the CEX	\$	8,407.00			\$	8,407.00	0.06	0.10	0.13	0.19	0.53
	Quintile Share of Public											
	Transit Consumption in											
	the CEX			\$	27,023.00	\$	27,023.00	0.06	0.10	0.13	0.19	0.53
Other	Unallocated	\$	242.00			\$	242.00					
Transportation Total		\$	64,626.00	\$	107,985.26	\$	172,611.26					
Justice, Police and Public	Quintile Share of Total											
Safety	Population	\$	45,535.00	\$	182,467.12	\$	228,002.12	0.135	0.176	0.207	0.229	0.254
Resources Recreation and En	viroment											
	Quintile Share of the Total											
Natural Resources	Population			\$	12,611.90	\$	12,611.90	0.135	0.176	0.207	0.229	0.254
	Quintile Share of the Total											
Parks and Recreation	Population	\$	2,963.00	\$	22,246.96	\$	25,209.96	0.135	0.176	0.207	0.229	0.254
	Quintile Share of the Total											
Sewage	Population			\$	5,742.49	\$	5,742.49	0.135	0.176	0.207	0.229	0.254
	Quintile Share of the Total											
Solid Waste Management	Population			\$	8,289.80	\$	8,289.80	0.135	0.176	0.207	0.229	0.254
Public Utility Spending: Expen	nditures Exceeding User	Char	ges									
	Quintile Share of Water											
Water Supply	Consumption in the CEX			\$	8,719.05	\$	8,719.05	0.10	0.15	0.20	0.24	0.31
	QuintileShare of											
	Electricity Consumption in											
Electric Power	the CEX			\$	3,318.36	\$	3,318.36	0.13	0.17	0.20	0.23	0.28
	Quintile Share of Natural											
	Gas Consumption in the											
	CEX			\$	211.20	\$	211.20	0.11	0.16	0.20	0.23	0.30
	Quintile Share of Total					Ė						
Abatement	Consumption in the CEX	\$	8,485.00			\$	8,485.00	0.08	0.13	0.17	0.24	0.38
	Quintile Share of the Total					Ė						
	Population	\$	(166.00)			\$	(166.00)	0.135	0.176	0.207	0.229	0.254
Resources Recreation and En		\$	11.282.00	\$	61.139.76	\$	72.421.76					

Appendix Table 4 Continued												
	Allocation Algorithms for Expenditures	Sp	ggregate Federal ending (in millions)	Sp	Aggregate State and Local Dending (in millions)	Sp	Combined Aggregate bending (in millions)	First Qunitile (share)	Second Quintile (share)	Third Quintile (share)	Fourth Quintile (share)	Top Quintile (share)
Other Health Related												
General Health (Mental Health,	<b> </b>											
Substance Abuse, Public	Quintile Share of the Total	_										
Health)	Population	\$	19,888.00	\$	8,808.39	\$	28,696.39	0.135	0.176	0.207	0.229	0.254
Consumer and Occupational	Quintile Share of the Total					١.						
Health	Population	\$	2,943.00			\$	2,943.00	0.135	0.176	0.207	0.229	0.254
Protective Inspection and	Quintile Share of the Total					١.						
Regulation	Population			\$	11,498.04		11,498.04	0.135	0.176	0.207	0.229	0.254
Other Health Related: Sub-to	tal	\$	22,831.00	\$	20,306.42	\$	43,137.42					
Miscellaneous												
Other Labor Services	Quintile Share of Earners	\$	1,552.00			\$	1,552.00	0.064	0.141	0.213	0.267	0.314
Other Advancement of	Quintile Share of the Total											
Commerce	Population	\$	8,660.00			\$	8,660.00	0.135	0.176	0.207	0.229	0.254
	Quintile Share of the Total											
Postal Service	Population	\$	(4,070.00)			\$	(4,070.00)	0.135	0.176	0.207	0.229	0.254
	Quintile Share of Means-											
Community Development	tested Aid	\$	13,754.00			\$	13,754.00	0.541	0.232	0.124	0.068	0.036
	Quintile Share of the Total											
Libraries	Population			\$	9,064.51	\$	9,064.51	0.135	0.176	0.207	0.229	0.254
Miscellaneous: Sub-Total		\$	19,896.00	\$	9,064.51	\$	28,960.51					
General Government/Administrative Support												
General Government		\$	21,822.00	\$	58,733.37	\$	80,555.37					
General Government Activities												
in Support of Public Good	This amount subtracted											
Functions (Deduction)	from total.	\$	5,870.12									
	Quintile Share of Total											-
	Direct, Means-tested and											
General Government Less	Education Benefits and											
Activities in Support of Public	other Population-based											
Good Functions	Benefits	\$	15,951.88	\$	58,733.37	\$	74,685.25	0.253	0.215	0.180	0.164	0.187

Appendix Table 4 Continued				Aggregate							
	Allocation Algorithms for Expenditures	Aggregate Federal Spending (in millions)		State and Local pending (in millions)	S	Combined Aggregate pending (in millions)	First Qunitile (share)	Second Quintile (share)	Third Quintile (share)	Fourth Quintile (share)	Top Quintile (share)
Unallocated Expenditures	Quintile Share of Total Direct, Means-tested and Education Benefits and other Population-based Benefits		\$	37,709.92	\$	37,709.92	0.253	0.215	0.180	0.164	0.187
Other insurance trust	Quintile Share of Total Direct, Means-tested and Education Benefits and other Population-based Benefits		\$	4,289.89	\$	4.289.89	0.253	0.215	0.180	0.164	0.187
General Government/Administrative Support: Sub-Total	Deficitio	\$ 15,951.88	Ť	100,733.18		116,685.07	0.255	0.213	0.160	0.104	0.167
Total General Government Sc Administrative Costs (Transp Recreation and Enviroment, I Miscellaneous, and Administ	portation, Justice, Health-related,	\$ 180,121.88		481,696.26		661,818.14					
Total Present Benefits and So Means-tested Benefits, Educ Social Services and Administ	ational Services, General	\$ 1,429,604.88	\$	1,228,343.66	\$ 2	2,657,948.54					

# Appendix Table 5 Tax and Revenue Algorithms and Calculations

Federal Taxes and	Alexander for the recognition of the state of		gregate tax receipt (in	First Qunitile	Second Quintile	Third Quintile	Fourth Quintile	Top Quintile
Revenues Federal Individual	Algorithms for tax revenue estimates  CPS tax payment figures with adjustment	ı	millions)	(share)	(share)	(share)	(share)	(share)
Income Tax	for under-reporting	\$	808,959.00	0.001	0.024	0.074	0.177	0.723
moome rax	CPS tax payment figures with adjustment	Ψ	000,303.00	0.001	0.024	0.014	0.177	0.720
FICA Taxes	for under-reporting	\$	685,334.00	0.015	0.073	0.155	0.264	0.492
Federal Corporate	Incidence assumed to be 50 percent on	Ť	000,0000	0.0.0	0.0.0	000	0.20	01.102
Income Tax	workers and 50 percent on owners	\$	189,371.00					
Federal Corporate			,					
Income Tax on	50 percent of total tax times share of							
Workers	earned income in CPS			0.013	0.064	0.140	0.240	0.543
Federal Corporate								
Income Tax on	50 percent of total tax times share of							
Owners	dividend, interest and rental income in CPS			0.018	0.050	0.086	0.180	0.665
Unemployment	Assume incidence falls 100 percent on							
Insurance - Federal	workers; quintile share of tax paid equals							
Reciepts	their share of earners in the CPS	\$	6,718.00	0.064	0.141	0.213	0.267	0.314
	Incidence assumed to fall half on private							
	owners of motor vehicles; one quarter on							
	owners of business; and one quarter on							
Highway Trust Fund	general consumers	\$	34,711.00					
Highway Trust Fund								
Taxes on Private	One half of total tax times quintile share of							
Vehicle Drivers	spending on gasoline in CEX			0.09	0.14	0.20	0.26	0.31
Highway Trust Fund	Speriding on gasoline in CEX			0.09	0.14	0.20	0.20	0.31
Taxes on Business	One quarter of of total tax times share of							
Owners	dividend, interest and rental income in CPS			0.018	0.050	0.086	0.180	0.665
				0.010	0.000	0.000	0.100	0.000
Highway Trust Fund	One quarter of total tax times quintile share							
on Consumers	of total consumption in CEX			0.08	0.13	0.17	0.24	0.38
Airport and Airway	Quintile share estmated to equal share of							
Taxes	total income in CPS	\$	9.174.00	0.031	0.085	0.147	0.232	0.504

**Appendix Table 5 Continued** 

Appendix Table 5 C	onunaca	Ag	gregate tax	First	Second	Third	Fourth	Тор
Federal Taxes and	Algorithms for housheholds headed by	r	eceipt (in	Qunitile	Quintile	Quintile	Quintile	Quintile
Revenues	persons without a high school degree		millions)	(share)	(share)	(share)	(share)	(share)
Federal Excise	Total tax times quintile share of spending							
Taxes: Alcohol	on alcohol in CEX	\$	8,105.00	0.08	0.11	0.18	0.24	0.38
Federal Excise	Total tax times quintile share of spending							
Taxes: Tobacco	on tobacco in CEX	\$	7,926.00	0.14	0.20	0.24	0.23	0.19
Federal Excise	Total tax times quintile share of telephone							
Taxes: Telephone	expenditures in CEX	\$	5,997.00	0.11	0.16	0.19	0.24	0.29
Federal Excise	Total tax times quintile share of spending							
Taxes: Fuels	on fuels in CEX	\$	1,381.00	0.13	0.16	0.18	0.23	0.29
Federal Excise	Total tax times quintile share of total							
Taxes: All Other	consumption in CEX	\$	2,561.00	0.08	0.13	0.17	0.24	0.38
Federal Retirement			·					
Receipts								
•								
Railroad and Other	Total receipts times share of railroad							
Retirement Receipts		\$	4,077.00	0.002	0.042	0.105	0.253	0.600
Federal Employees	Total receipts times quintile share of							
Retirement	federal employee retirement contributions							
Employee Share	in the CPS	\$	4,543.00	0.007	0.043	0.142	0.278	0.526
Federal Gift and								
Estate tax	Total tax assumed to be paid by top quintile	\$	24,831.00	0	0	0	0	1
Customs, Duties,	total tax times quintile share of total							
Fees	consumption in CEX	\$	21,083.00	0.08	0.13	0.17	0.24	0.38
Miscellaneous: Fees								
for Permits and								
Regulatory and								
Judicial Services	Not Applicable	\$	8,675.00					
Miscellaneous:								
Fines, Penalties and								
Forfeitures	Not Applicable	\$	3,902.00					
Other Miscellaneous								
Federal Receipts	Not Applicable	\$	336.00					
Federal Total Taxes	and Revenues	\$1	,827,684.00					

**Appendix Table 5 Continued** 

Appendix Table 5 ( State and Local		Aggregate tax	First	Second	Third	Fourth	Тор
Taxes and		receipt (in	Qunitile	Quintile	Quintile	Quintile	Quintile
Revenues	Algorithms for Housheholds	millions)	(share)	(share)	(share)	(share)	(share)
State and Local							
Individual Income	Total tax times quintile share of tax						
Taxes	payments in the CPS	\$ 215,214.67	0.003	0.035	0.101	0.214	0.647
State and Local							
Corporate Income	Incidence assumed to fall 50 percent on						
Tax	workers and 50 percent on owners	\$ 33,715.79					
State and Local	50 percent of total tax times the quintile						
Corporate Income	share of total earnings as reported in the						
Tax on Workers	CPS		0.013	0.064	0.140	0.240	0.543
	50 percent of total tax times the quintile						
State and Local	share of total interest, dividends and rent						
Corporate Income	received by households as reported in the						
Tax on Owners	CPS		0.018	0.050	0.086	0.180	0.665
	Incidence is assumed to fall half on homes						
	and rented apartments; half on						
	bussinesses. The business portion is						
D T	further assumed to fall half on consumers						
Property Taxes	and half on owners.	\$ 318,242.46					
Property Taxes on							
Owner Occupied and Rented	One half of tatal tan time as an intil above of						
Domiciles	One half of total tax times quintile share of shelter costs in CEX		0.10	0.13	0.17	0.23	0.37
Domiciles	Sheller costs in CEX		0.10	0.13	0.17	0.23	0.37
	One guarter of total tax times the guintile						
Property Taxes on	share of total interest, dividends and rent						
Owners	received by households in the CPS		0.018	0.050	0.086	0.180	0.665
Property Taxes on	One quarter of total tax times quintile share		0.010	0.000	0.000	0.100	0.003
Consumers	ot total consumption in the CEX		0.08	0.13	0.17	0.24	0.38
General Sales	Total Tax Times quintile share of non-		0.00	0.10	Ü.,,	<u> </u>	0.00
Taxes	exempt consumption in the CEX	\$ 244,891.33	0.06	0.12	0.16	0.26	0.40

**Appendix Table 5 Continued** 

Appendix Table 5 C State and Local		Aa	gregate tax	First	Second	Third	Fourth	Тор
Taxes and	Algorithms for allocation of tax	receipt (in		Qunitile	Quintile	Quintile	Quintile	Quintile
Revenues	revenues paid	millions)		(share)	(share)	(share)	(share)	(share)
ROVOITAGO	Incidence assumed to fall half on private	1		(Gridio)	(Gridio)	(Gildio)	(6.10.0)	(Gridio)
	owners of motor vehicles; one quarter on							
	owners of business; and one quarter on							
Motor Fuel Tax	general consumers	\$	34,943.57					
Motor Fuel Tax on	general concumere	Ť	0 1,0 10.01					
Drivers of Personal	One half total tax times quintile share of							
Vehicles	gasoline consumption in the CEX			0.09	0.14	0.20	0.26	0.31
Motor Fuel Tax on	One quarter of total tax times quintile				<b>9</b> 11 1			
Consumers	share of total consumption in the CEX			0.09	0.14	0.20	0.26	0.31
	One quarter of total tax on gasoline times				<u> </u>			
Motor Fuel Tax on	the quintile share of interest, divdends and							
Business Owners	rents in the CPS			0.09	0.14	0.20	0.26	0.31
	total tax times quintile share of tobacco				-			
Tobacco Tax	expenditures in the CEX	\$	12,625.78	0.09	0.14	0.20	0.26	0.31
	total tax times the quintile share of alocohol	Ť	,		-			
Alcohol Tax	expenditures in the CEX	\$	4,985.71	0.09	0.14	0.20	0.26	0.31
Other Selective	total tax times quintile share of total		,					
Sales Tax	consumption in the CEX	\$	41,755.92	0.09	0.14	0.20	0.26	0.31
	total tax times the quintile share of		·					
Motor Vehicle	expenditures on vehicle licenses in the							
Licenses	CÉX	\$	18,708.98	0.09	0.14	0.20	0.26	0.31
	total tax times quintile share of							
Public Utilities Tax	expenditures on utilities in the CEX	\$	21,426.58	0.09	0.14	0.20	0.26	0.31
Other General								
Taxes State and								
Local (mainly estate,								
stock transaction								
and severance								
taxes)	Assume total taxes paid by top quintile	\$	63,766.48	0.09	0.14	0.20	0.26	0.31
Insurance Trust Rev	enue			0.09	0.14	0.20	0.26	0.31
	Assume incidence falls 100 percent on							
Unemployment	workers; quintile share of tax paid equals							
Compensation	quintile share of earners in the CPS	\$	38,361.50	0.09	0.14	0.20	0.26	0.31
	Assume incidence falls 100 percent on							
Workers'	workers; quintile share of tax paid equals							
Compensation	quintile share of earners in the CPS	\$	21,757.88	0.09	0.14	0.20	0.26	0.31
Other Insurance								
Trust Revenue	Unknown	\$	5,904.38					

**Appendix Table 5 Continued** 

State and Local	Algorithms for housheholds headed by	_	gregate tax	First	Second	Third	Fourth	Тор
Taxes and	immigrants without a high school		receipt (in	Qunitile	Quintile	Quintile	Quintile	Quintile
Revenues	degree		millions)	(share)	(share)	(share)	(share)	(share)
Employee								
Retirement Trust								
Revenue								
	Total Receipts times the quintile share of							
Employee	state and local employee retirement							
Contributions	contibutions in the CPS	\$	30,785.80	0.019	0.101	0.200	0.349	0.329
Earnings on								
Investments	not applicable	\$	315,553.95					
Other	not applicable	\$	18,978.75					
Interest Earnings	not applicable	\$	53,194.26					
Sale of Property	not applicable	\$	1,959.55					
Special								
Assessments	not applicable	\$	6,452.75					
Other General								
Revenue	unknown	\$	58,066.00					
	Total receipts times quintile share of adults							
	in the CPS assuming that lower income							
	adults spend 50 percent more per capita							
Lottery Receipts	than the average adult	\$	45,465.80	0.28571429	0.28571429	0.14285714	0.14285714	0.14285714
Total State and Local Taxes and Revenues		\$ 1	1,606,757.89				-	
Total Federal State and Local Taxes and Revenues		\$3	3,434,441.89					

#### References

- Aaron, Henry, & McGuire, Martin. (1970). Public Goods and Income Distribution. *Econometrica*, 38(6), 907-920.
- Bianchi, Suzanne. (1995). The Changing Demographic and Socioeconomic Characteristics of Single Parent Families. *Journal of Marriage and Family*, 20, 71-95.
- Bird, Richard. (1980). Income Redistribution Through the Fiscal System: The Limits of Knowledge. *The American Economic Review*, 70(2), pp. 77-81.
- Bishop, George. (1967). Tax Burdens and Benefits of Government Expenditures By Income Class, 1961 and 1965. Washington, DC: Tax Foundation.
- Brenna, Geoffrey. The Distributional Impact of Public Goods. *Econometrica*, 44(2), 391-399.
- Buchanan, James M. (1968). The Demand and Supply of Public Goods. Liberty Fund, Library of Economics and Liberty. Available October 20, 2007, from <a href="http://ecsocman.edu.ru/db/msg/22866.html">http://ecsocman.edu.ru/db/msg/22866.html</a>.
- Chamberlain, Andrew, & Prante, Gerald. (2007). Who Pays Taxes and Who Receives Government Spending? An Analysis of Federal, State, and Local Tax and Spending Distributions, 1991-2004. Tax Foundation Working Paper No.1.
- Congressional Research Service. (2006). Cash and Non-Cash Benefits for Persons with Limited Income: Eligibility Rules, Recipient and Expenditure Data, FY2002-2004.
- Conrad, Alfred H. (1954) Redistribution Through Government Budgets in the United States, 1950. In Alan Peacock (Ed.), Income Redistribution and Social Policy: A set of Studies. Westport, CT: Greenwood Press Publishers.
- Crane, Steven E. (1983). Interpreting the Distribution of Government Expenditures in Budget Incidence Studies. *National Tax Journal*, 36(2), 243 246.
- Cronin, Julie-Anne. (1999). U.S. Treasury Distributional Analysis Methodology. U.S. Department of the Treasury, OTA Paper 85.
- Demery, Lionel. (2000). Benefit Incidence: A Practitioner's Guide. The World Bank.
- Devarajan, Shantayana, & Hossain, Shaikh L. (1995). The Combined Incidence of Taxes and Public Expenditures in the Philippines. Policy Research Working Paper No. 1543. The World Bank.
- Dyck, Dagmar. (2003). Fiscal Redistribution in Canada, 1994-2000. Department of Finance, Working Paper.
- Gale, William G., & Slemrod, Joel. (2001). Rethinking the Estate and Gift Tax: Overview, NBER Working Paper No. 8205.

- Garvey, D., & Espenshade, T. (1996). Fiscal Impact of New Jersey's Immigrant and Native Households on State and Local Government: A New Approach and New Estimates. Office of Population Research, Princeton University.
- Gillespie, Irwin. (1965). Effect of Public Expenditures on the Distribution of Income. In Richard A. Musgrave (Ed.), *Essays in Fiscal Federalism* (122-186). Washington, DC: Brookings Institution.
- Goldman, Kalman, Pilgrim, John, & Flanagan, Edward. (1974). Local Government Fiscal Incidence by Socioeconomic Class and Type of Public Service. *Nebraska Journal of Economics and Business*, 13, 9-29.
- Greene, Kenneth V., Neenan, William G., & Scott, Claudia D. (1976). Fiscal Incidence in the Washington Metropolitan Area. *Land Economics*, 52(1), 13-31.
- Hammes, David L., & Wills, Douglas T. (1987). Public Debt, Interest and Fiscal Incidence. *Review of Income and Wealth*, 33(4), 439-442.
- Harding, Ann, Lloyd, Rachel, & Warren, Neil. (2004). The Distribution of Taxes and Government Benefits in Australia. Paper presented at the Conference on the Distributional Effects of Government Spending and Taxation, The Levy Economics Institute.
- Kaplow, Louis. (2006). Public Goods and the Distribution of Income. *European Economic Review*, 50, 1627-1660.
- Lanjouw, Peter, & Ravallion, Martin. (1999). Benefit Incidence, Public Spending Reforms, and the Timing of Program Capture. *The World Bank*, 13(2), 257-273.
- MaCurdy, Thomas, Nechyba, Thomas, & Bhattacharya, Jay. (1998). An Economic Framework for Assessing the Fiscal Impacts of Immigration. In James P. Smith and Barry Edmonston, (Eds.), *The Immigration Debate: Studies on the Economic, Demographic and Fiscal Effects of Immigration*. Washington, DC: National Academy Press.
- Maital, Shlomo. (1973). Public Goods and Income Distribution: Some Further Results. *Econometrica*, 41(3), 561-568.
- Martinez-Vazquez, Jorge. (1982). Fiscal Incidence at the Local Level. *Econometrica*, 50(5), 1207-1218.
- Menchik, Paul. (1991). The Distribution of Federal Expenditure. *National Tax Journal*, 44(3), 269-276.
- Office of Management and the Budget (OMB). (2006a). Analytical Perspective, Budget of the United States Government, Fiscal Year 2006.
- Office of Management and the Budget (OMB). (2006b). Historical Tables, Budget of the United States Government, Fiscal Year 2006.
- Randolph, William C. (2006). "International Burdens of the Corporate Income Tax," Congressional Budget Office *Working Paper* No. 2006-09.

- Rector, Robert & Kim, Christine, (2007). *The Fiscal Cost of Low-Skill Immigrants to the U.S. Taxpayer*, The Heritage Foundation Special Report, SR-14, May 2007
- Reynolds, Morgan, & Smolensky, Eugene. (1977). *Public Expenditures, Taxes and the Distribution of Income*. New York, NY: Academic Press.
- Ruggles, Patricia, & O'Higgins, Michael. (1981). The Distribution of Public Expenditure Among Households in the United States. *Review of Income & Wealth*, 27(2), 137-164.
- Samuelson, Paul A. (1954). The Pure Theory of Public Expenditure. *The Review of Economics and Statistics*, 36(4), 387-389.
- Schwartz, Gerd, Ter-Minassian. (2000). The Distributional Effect of Public Expenditure. *Journal of Economic Surveys*, 14(3), 337-357.
- Smeeding, Timothy *et al.* (1993). Poverty, Inequality, and Family Living Standards Impacts Across Seven Nations: The Effect of Noncash Subsidies for Health, Education and Housing. *Review of Income and Wealth*, 39(3), 229-256.
- Smith, James P., & Edmonston, Barry (eds.). (1997). *The New Americans: Economic, Demographic, and Fiscal Effects of Immigration*. Washington, D.C.: National Academy Press.
- Sommers. Anna *et al.* (2006). Medicaid's Long-Term Care Beneficiaries: An Analysis of Spending Patterns. Kaiser Commission on Medicaid and the Uninsured.
- Tax Foundation. (1981). "Allocation Tax Burdens and Government Benefits By Income Class, 1972-73 and 1977," Government Finance Brief No. 31. Washington, DCL: Tax Foundation.
- U.S. Census Bureau. Current Population Survey (CPS) Definitions and Explanations. Available October 17, 2007, from <a href="http://www.census.gov/population/www/cps/cpsdef.html">http://www.census.gov/population/www/cps/cpsdef.html</a>.
- U.S. Census Bureau, Survey of Government. October 19, 2007, from http://www.census.gov/govs/www/estimate.html.
- U.S. Census Bureau. (2000). Federal, State and Local Governments: 1992 Government Finance and Employment Classification Manual. October 17, 2007, from http://www.census.gov/govs/www/class.html.
- U.S. Census Bureau. (2006) Government Division, Public Education Finances, 2004. October 17, 2007, from http://www.census.gov/govs/www/school.html.
- U.S. Department of Health and Human Services, Centers for Medicare and Medicaid Services. (2006). Medicare & Medicaid Statistical Supplement. October 17, 2007, from http://www.cms.hhs.gov/MedicareMedicaidStatSupp/.
- van de Walle, Dominique. (1996). Assessing the Welfare Impacts of Public Spending. Policy Research Working Paper 1670. Washington, DC: The World Bank.

Wolff, Edward N., & Zacharias, Ajit. (2004). "An Overall Assessment of the Distributional Consequences of Government Spending and Taxation in the U.S., 1989 and 2000," Paper presented at the Levy Economics Institute Conference.