# Metropolitan Area Disposable Personal Income Methodology and Results for 2001-2007 

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## Abstract

The Bureau of Economic Analysis (BEA) publishes annual statistics of state disposable personal income, the difference between state personal income and state personal current taxes. BEA also publishes annual statistics of personal income for sub-state areas, but BEA does not publish corresponding statistics of disposable personal income (DPI) due to the absence of sub-state statistics of personal current taxes. This paper expands on earlier work to present new statistics of disposable personal income for 2005-2007 for the current 366 metropolitan areas. ${ }^{1}$

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## Introduction


#### Abstract

In the Bureau of Economic Analysis's (BEA) working paper Metropolitan Area Disposable Personal Income - Methodology and Results for 2001-2002 (WP2006-04), BEA proposed a methodology to derive statistics of disposable personal income for sub-state areas. This paper presents updated and revised statistics for the current 366 metropolitan areas for 2001-2007 using this methodology and evaluates the resulting statistics. ${ }^{2}$ Currently, the BEA produces annual statistics of both state personal income (SPI) and state disposable personal income (SDPI). SPI is defined as the income received by, or on behalf of, all the residents of the state from all sources.


Personal income is the sum of:

- Wage and salary disbursements
- Supplements to wages and salaries,
- Proprietors' income with inventory valuation and capital consumption adjustments
- Rental income of persons with capital consumption adjustment (including an imputation of the net rental income from owner occupied housing)
- Personal dividend income
- Personal interest income
- Personal current transfer receipts
- Less contributions for government social insurance. ${ }^{3}$

[^1]SDPI is state personal income less personal current taxes. BEA provides personal income statistics for local areas and metropolitan areas, but does not measure disposable personal income (DPI) for any substate area. Personal tax receipts consist primarily of the federal income tax, state and local income taxes, motor vehicle taxes paid by persons, motor vehicle operator licenses and other miscellaneous taxes. Personal taxes do not include the real property taxes paid on owner occupied homes. Personal income includes an imputation for the net rental income of owner occupied housing that is equal to the value of the housing services of owner occupied homes less the costs of providing those services. Real property taxes are subtracted in this imputation as an expense. Often, DPI is defined as "the income available for spending." ${ }^{4}$ The motivation for this work comes from data users’ requests for DPI for metropolitan areas.

[^2]

In 2007, personal taxes were about $\$ 1,491.4$ billion or 12.3 percent of personal income. Of the $\$ 1,491.4$ billion in personal taxes in 2007, income taxes comprised about 98 percent of the total with the federal income tax accounting for about 78 percent, state income tax another 18 percent, and local income taxes of personal taxes less than 2 percent. The proposed methodology relies on the availability of source data for these income taxes at the sub-state level.

There are currently 366 metropolitan areas in the nation. A metropolitan area consists of an urban center (or centers) and adjacent communities that have a high degree of economic and social integration. Over 83 percent of the United States population lives in a metropolitan area. The basic geographic unit used to identify a metropolitan area is a county, but metropolitan areas can and do cross state lines. The metropolitan areas are a diverse set of areas. As the table below shows, nine metropolitan areas have a 2006 population greater than 5 million, accounting for almost 25 percent of the U.S. total population and almost 30 percent of total personal income in 2006. The most populous metropolitan area, New York-Northern New Jersey-Long Island, has a 2006 population of 18.8 million. It has a population slightly less than New York State's population of 19.4 million, but its 2006 total personal income was about 10.5 percent higher than that of New York State. At the other end of the spectrum there are 317 metropolitan areas that have populations of less than one million. Carson City, NV, the smallest metropolitan area in terms of population, had a population in 2006 of only 54,983 . The 25 most populous metropolitan areas in 2006 accounted for 41.5 percent of the U.S. population and 48.4 percent of total SPI. Over 70 percent of the metropolitan areas had a population of less than 500,000 in 2006.

| Distribution of 2006 Population <br> By Metropolitan Area |  |
| :--- | ---: |
| Less than 100,000 | 27 |
| 100,00 to 500,000 | 240 |
| 500,000 to 999,999 | 50 |
| $1,000,000$ to $2,499,999$ | 29 |
| $2,500,000$ to $4,999,999$ | 11 |
| $5,000,000$ or more | 9 |

## Methodology

Counties are the basic units of metropolitan areas. The county level taxes by type of tax are estimated, allocated to state personal tax controls and summed to metropolitan areas. To get a metro/nonmetro breakout for each state the statistics are summed on both state and metropolitan area code. Each major personal tax category source data is described below:

## Federal Personal Income Tax

The Internal Revenue Service (IRS) compiles and publishes selected income tax line items by zip code. The item, Total Tax, is available on the IRS zip code file and used as a proxy for income tax. ${ }^{5}$ Using a BEA zip-to-county crosswalk, it is possible to construct estimates of total income tax by county. ${ }^{6}$ However, a metropolitan area can be comprised of counties from more than one state. For each county in a state, BEA codes the county with a metropolitan code or a blank if the county is not in a metropolitan area. The federal income tax control for that state is allocated to the counties based on the IRS county-based estimates. The resulting county statistics are then combined and summed on the metropolitan area code to yield metropolitan area statistics that are consistent with BEA's state statistics. This also yields metro/nonmetro statistics for each state. ${ }^{7}$

IRS zip code data were unavailable for tax year 2003. As a first approximation for 2003 the distribution of the average 2002 and 2004 county tax liability was used to allocate the 2003 federal income tax state control.

The IRS zip file is available with a two year lag. Estimates for 2007 were approximated by moving the 2006 distribution by the growth in county level wages and salaries.

## State Income Tax

State income tax data by county are available for 26 states for all years except 2007. Seven states (Alaska, Florida, Nevada, South Dakota, Texas, Washington, and Wyoming) have no state

[^3]income taxes. County data are coded for metropolitan areas, allocated to state income tax controls, and summed to the metropolitan area. For states with an income tax but no sub-state data, the federal tax information on adjusted gross income by income class and zip code and the rate structure of the state income tax is used to impute sub-state estimates. Estimates for 2007 were extrapolated at the county level using the growth in wages and salaries. Appendix A details the sub-state source availability. About 83 percent of total state income taxes have actual source data.

## Local Income Tax

The distribution of local income taxes used actual county or school district data for five states (District of Columbia, New York, Maryland, Ohio, Oregon, and Pennsylvania) for 2001-2007. For the remaining 8 states, the 2002 Census of Governments and Census’ State and Local Finance individual unit file was used to obtain statistics of local income taxes. These distributions were used to allocate the BEA state-level local income tax controls to counties. This methodology assumes that the local income tax attributed to a metropolitan area was only paid by that area's residents. ${ }^{8}$

## Other State and Local Taxes

Other state and local government personal taxes totaled less than $\$ 27$ billion in any year and were about 2 percent of total personal taxes for all years. These taxes consist mainly of personal property taxes (mainly property taxes on motor vehicles), motor vehicle registration taxes, motor vehicle operator licenses, and hunting and fishing licenses. The national controls for these taxes are weak and the business/personal splits used are suspect. Because the amount is relatively small, the state aggregate was distributed using the latest Census estimate of county population between 16 years and 85 years. Again, the county estimates were coded for metropolitan areas and allocated to the state controls. The results were then summed by metropolitan area.

## Assumptions

[^4]The above methodology has several assumptions:

- The state and local county distribution data on income taxes, which is usually on a liability basis, approximates the distribution on a "cash" basis. ${ }^{9}$
- The source data is valid and the data suppressions in the source do not distort the metropolitan area results.
- It assumes that the mailing address on the IRS Form 1040 is the filer's resident address. (Complications of part-year residence and addresses that are not the taxpayer's residence are ignored.)
- The zip-to-county crosswalk is reasonably accurate and the method for distributing multicounty zip codes is valid.
- State and local personal taxes are assumed to be paid only by residents.
- State control statistics are valid.


## Results

Per capita personal taxes for the United States averaged \$4,531 in 2006 compared to a revised $\$ 4,336$ in 2001. The average per capita personal taxes for all metropolitan areas was $\$ 4,920$ compared to the average of only $\$ 2,557$ for all nonmetropolitan areas in 2006. The table below summarizes the overall results:

[^5]| Metro/Nonmetro Results 2006 <br> (Thousands of Dollars - Per Capita Dollars) |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| US |  | Metro | Nonmetro | Shares |  | Range |  |
|  |  | Metro |  | Non metro | High | Low |
| Personal Income (PI) | 10,978,053,000 |  | 9,639,015,579 | 1,339,037,421 | 0.88 | 0.12 | 75,796 | 17,390 |
| Per Capita PI | 36,794 | 38,679 | 27,239 |  |  |  |  |
| Disposable PI | 9,626,197,000 | 8,412,849,683 | 1,213,347,317 | 0.87 | 0.13 | 57,822 | 16,160 |
| Per Capita DPI | 32,263 | 33,759 | 24,682 |  |  |  |  |
| Personal Taxes | 1,351,856,000 | 1,226,165,896 | 125,690,104 | 0.91 | 0.09 |  |  |
| Federal | 1,048,539,000 | 953,915,941 | 94,623,059 | 0.91 | 0.09 |  |  |
| State and Local | 303,317,000 | 272,249,955 | 31,067,045 | 0.90 | 0.10 |  |  |
| Per Capita Personal |  |  |  |  |  |  |  |
| Taxes | 4,531 | 4,920 | 2,557 |  |  | 17,914 | 1,218 |
| Per Capita Federal Per Capita | 3,514 | 3,828 | 1,925 |  |  | 14,862 | 940 |
| State \& Local | 1,017 | 1,092 | 632 |  |  | 3,052 | 62 |
| Effective Tax Rate with respect to Personal Income |  |  |  |  |  |  |  |
| Total Personal Taxes | 12.31\% | 12.72\% | 9.39\% |  |  |  |  |
| Federal | 9.55\% | 9.90\% | 7.07\% |  |  |  |  |
| State and Local | 2.76\% | 2.82\% | 2.32\% |  |  |  |  |

Throughout the 2001-2007 period, per capita personal taxes for the metropolitan areas are over 90 percent higher than per capita personal taxes in nonmetropolitan areas. ${ }^{10}$ The chart below illustrates the relationship between metropolitan and nonmetropolitan per capita personal taxes:

10 Not all nonMSAs have low per capita taxes. Teton County, WY, a non-metropolitan county, has the highest effective
federal income tax rate using income tax/adjusted gross income as a measure.


The per capita tax results are driven by the federal income tax, which is a progressive tax. Thus, the primary determinants of per capita personal taxes are not only the taxable income in the area but the income distribution in the area interacting with complex tax laws, including the alternative minimum tax (AMT). According to a Congressional Budget Office (CBO) report released in April 2009, the top quintile of the income distribution paid 86.3 percent of 2006 federal income tax liabilities, with the top 5 percent paying 60.9 percent and the top 1 percent paying 39.1 percent. The lowest two quintiles pay no federal income tax. ${ }^{11}$ Looking at the detailed results for the time period 2001-2007, it is metropolitan areas such as Bridgeport-Stamford-Norwalk, CT; Naples-Marcos Island, FL; San Francisco-Oakland-Fremont, CA; San Jose-Sunnyvale-Santa Clara, CA; Washington-ArlingtonAlexandria, DC-VA-MD-WV, Sebastian-Vero Beach, FL; New York-Northern New Jersey-Long Island, NY-NJ-PA; and Boston-Cambridge-Quincy, MA-NH that consistently appear in the top ranks. As the graph below shows, Bridgeport-Stamford-Norwalk, CT is a definite outlier. It ranks number one in per

[^6]capita personal taxes, per capita personal income, and per capita disposable personal income for all years. Its effective tax rate using personal income as a measure of income is 23.6 percent compared to the national average of 12.3 percent in 2006. ${ }^{12}$ The following charts show the top five and bottom five metropolitan areas ranked by 2006 per capita personal taxes over time. Bridgeport-StamfordNorwalk, CT area is a definite outlier. The border/military metropolitan areas of McAllen, TX; Brownsville, TX; Laredo, TX; and El Paso, TX have the lowest per capita personal taxes. ${ }^{13}$


12 NIPA personal income excludes realized capital gains and retirement income distributions but the income taxes paid on those gains and retirement distributions are included in NIPA personal taxes. NIPA personal income also includes untaxed income such as Medicare, Medicaid, employers' contribution to health insurance, nontaxable military pay, and tax deferred income such as employer and employee pretax contributions to retirement accounts. Also, the NIPA federal personal income tax treats the refundable EITC and the additional child credit as transfer payments, not as reductions in the federal income tax liability.
13 Large portions of military compensation are nontaxable such as employer contributions to retirement, housing and quarter allowances and certain combat pay. Also, some states do not tax military wages. "Legal Residency," or "domicile" for military members, refers to the place where a military member intends to return to and live after discharge or retirement, and which they consider their "permanent home." Legal residency determines what local (state) tax laws a military member is subject to, and in which local (city, county, state) elections they may vote in. This residence may not necessarily be where the military member is stationed.


The tables below detail my results for the top 25 and bottom 25 metropolitan areas ranked by 2006 per capita personal income.

| Rankings of Top Metropolitan Areas in 2006 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Rankings of Bottom Metropolitan Areas in 2006 Per Capita Income

| Metropolitan Area | Rank Per Capita Personal Income 2006 | Per <br> Capita <br> Personal <br> Income <br> 2006 | Rank Per Capita Personal Taxes 2006 | Per Capita Personal Taxes 2006 | Rank Per Capita Disposable Personal Income 2006 | Per Capita Disposable Personal Income 2006 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Greeley, CO | 342 | 25,668 | 206 | 3,240 | 352 | 22,428 |
| Auburn-Opelika, AL | 343 | 25,604 | 268 | 2,807 | 348 | 22,797 |
| Blacksburg-Christiansburg-Radford, VA | 344 | 25,479 | 258 | 2,899 | 350 | 22,580 |
| Danville, IL | 345 | 25,449 | 345 | 2,166 | 342 | 23,283 |
| College Station-Bryan, TX | 346 | 25,435 | 328 | 2,382 | 345 | 23,053 |
| Valdosta, GA | 347 | 25,421 | 329 | 2,370 | 346 | 23,052 |
| El Paso, TX | 348 | 25,182 | 363 | 1,541 | 336 | 23,641 |
| Morristown, TN | 349 | 25,073 | 358 | 1,760 | 340 | 23,314 |
| Albany, GA | 350 | 25,067 | 340 | 2,232 | 347 | 22,834 |
| Pine Bluff, AR | 351 | 24,740 | 352 | 1,960 | 349 | 22,780 |
| Visalia-Porterville, CA | 352 | 24,456 | 351 | 1,970 | 351 | 22,486 |
| St. George, UT | 353 | 24,178 | 239 | 3,034 | 358 | 21,144 |
| Las Cruces, NM | 354 | 23,925 | 346 | 2,157 | 354 | 21,768 |
| Lake Havasu City-Kingman, AZ | 355 | 23,494 | 339 | 2,241 | 356 | 21,253 |
| Merced, CA | 356 | 23,267 | 354 | 1,885 | 355 | 21,381 |
| Hinesville-Fort Stewart, GA | 357 | 23,266 | 364 | 1,403 | 353 | 21,864 |
| Madera-Chowchilla, CA | 358 | 22,892 | 343 | 2,199 | 360 | 20,693 |
| El Centro, CA | 359 | 22,871 | 361 | 1,720 | 357 | 21,151 |
| Hanford-Corcoran, CA | 360 | 22,536 | 360 | 1,723 | 359 | 20,814 |
| Logan, UT-ID | 361 | 22,177 | 344 | 2,193 | 362 | 19,984 |
| Yuma, AZ | 362 | 22,071 | 356 | 1,828 | 361 | 20,243 |
| Provo-Orem, UT | 363 | 21,664 | 263 | 2,848 | 363 | 18,816 |
| Laredo, TX | 364 | 20,262 | 362 | 1,653 | 364 | 18,610 |
| Brownsville-Harlingen, TX | 365 | 18,624 | 366 | 1,218 | 365 | 17,406 |
| McAllen-Edinburg-Mission, TX | 366 | 17,390 | 365 | 1,230 | 366 | 16,160 |



Metropolitan Effective Tax Rates with respect to Personal Income, 2006


Complete 2001-2007 prototype results with a breakout of Federal personal taxes and S\&L personal taxes are now available on the file, "Results.xls," accompanying this working paper.

| Appendix A. States with Sub-state Details by Tax Year |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 2002 | 2003 | 2004 | 2005 | 2006 |
| Alabama | x | x | n.a. | n.a. | n.a. | n.a. |
| Arizona | x | x | x | n.a. | n.a. | n.a. |
| Arkansas | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| California | x | x | x | x | x | x |
| Colorado | x | x | x | x | n.a. | n.a. |
| Connecticut | x | x | x | x | x | x |
| Delaware | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Georgia | x | x | x | x | x | n.a. |
| Hawaii | x | x | x | x | x | x |
| Idaho | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Illinois | x | x | x | x | x | x |
| Indiana | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| lowa | x | x | x | x | x | x |
| Kansas | x | x | x | x | x | x |
| Kentucky | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Louisiana | n.a. | n.a. | n.a. | n.a. | x | x |
| Maine | x | n.a. | n.a. | n.a. | n.a. | n.a. |
| Maryland | x | x | x | x | x | x |
| Massachusetts | x | x | x | x | x | x |
| Michigan | x | x | x | x | x | x |
| Minnesota | x | x | x | x | x | x |
| Mississippi | x | x | x | x | x | x |
| Missouri | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Montana | x | x | x | x | x | x |
| Nebraska | x | x | x | x | x | x |
| New Hampshire | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| New Jersey | x | x | x | x | x | x |
| New Mexico | n.a. | n.a. | n.a. | n.a. | x | n.a. |
| New York | x | x | x | x | x | x |
| North Carolina | x | x | x | X | X | x |
| North Dakota | x | x | n.a. | n.a. | n.a. | n.a. |
| Ohio | x | x |  | x | - | x |
| Oklahoma | n.a. | n.a. | n.a. | n.a. | n.a. | n.a. |
| Oregon | x | x | x | x | x | x |
| Pennsylvania | x | x | x | X | X | x |
| Rhode Island | Entire state in MSA |  |  |  |  |  |
| South Carolina | x | x | x | x | x | x |
| Tennessee | x | x | x | x | X | x |
| Utah | x | x | x | x | x | x |
| Vermont | X | X | x | X | x | $x$ |
| Virginia | x | x | X | x | X | x |
| Washington | No state income tax |  |  |  |  |  |
| West Virginia | x | x | x | x | x | x |
| Wisconsin | x | x | x | x | x | x |
| Alaska, Florida, Nevada, South Dakota, Texas, Washington do not have a state income tax $\boldsymbol{x}$ : State income tax by county, zip code, city or town available <br> n.a. : not available |  |  |  |  |  |  |

## Appendix B

| Progressivity of Federal Income Tax 2006 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Average Pretax Income (CBO) | Average After-tax Income (CBO) | Share of Pretax Income | Share of After-tax Income | Effective Federal Income Tax Rates | Share Federal Income Tax Liabilities |
| Lowest Quintile | 17,200 | 16,500 | 3.9 | 4.7 | -6.8 | -2.8 |
| Second Quintile | 39,400 | 35,400 | 8.4 | 9.5 | -0.8 | -0.8 |
| Middle Quintile | 60,700 | 52,100 | 13.2 | 14.3 | 3.0 | 4.4 |
| Fourth Quintile | 89,500 | 73,800 | 19.5 | 20.3 | 6.0 | 12.9 |
| Highest Quintile | 248,400 | 184,400 | 55.7 | 52.1 | 14.1 | 86.3 |
|  |  |  |  |  |  |  |
| Top 10\% | 366,400 | 265,500 | 41.6 | 38.1 | 16.0 | 72.8 |
| Top 5\% | 564,200 | 400,400 | 31.9 | 28.5 | 17.5 | 60.9 |
| Top 1\% | 1,743,700 | 1,200,300 | 18.8 | 16.3 | 19.0 | 39.1 |

http://www.cbo.gov/publications/collections/tax/2009/summary table 2006.xls
Effective tax rates are calculated by dividing taxes by comprehensive household income.
Comprehensive household income equals pretax cash income plus income from other sources. Pretax cash income is the sum of wages, salaries, self-employment income, rents, taxable and nontaxable interest, dividends, realized capital gains, cash transfer payments, and retirement benefits plus taxes paid by businesses (corporate income taxes and the employer's share of Social Security, Medicare, and federal unemployment insurance payroll taxes) and employee contributions to 401(k) retirement plans. Other sources of income include all in-kind benefits (Medicare, Medicaid, employer-paid health insurance premiums, food stamps, school lunches and breakfasts, housing assistance, and energy assistance).

Income categories are defined by ranking all people by their comprehensive household income adjusted for household size-that is, divided by the square root of the household's size. (A household consists of the people who share a housing unit, regardless of their relationships.) Quintiles, or fifths, contain equal numbers of people. Households with negative income (business or investment losses larger than other income) are excluded from the lowest income category but are included in totals.

Individual income taxes are attributed directly to households paying those taxes.

## References

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Statistics of Income, Internal Revenue Service, "ZIP Code Data Documentation Guide, Tax Year 2004," http://www.irs.gov/pub/irs-soi/01zptxt.txt


[^0]:    1 See BEA Working Paper, Metropolitan Area Disposable Personal Income: Methodology and Results for 2001-2004 (WP2008-02), by Ann E. Dunbar | June 2008 http://www.bea.gov/papers/working_papers.htm

[^1]:    2 The metropolitan area definitions used by BEA for its personal income statistics are the county-based definitions issued by the Office of Management and Budget (OMB) for Federal statistical purposes, last updated November 2008. There are now 366 metropolitan areas compared to 361 in my original paper. OMB’s general concept of a metropolitan area is that of a geographic area consisting of at least one large population nucleus together with adjacent communities having a high degree of economic and social integration with the nucleus. In the November 2008, the OMB updated statistical areas to include changes in principal cities and in area titles.

    3 Contributions for government social insurance consist of employer contributions for government social insurance and employee and self-employed contributions for government social insurance. It is deducted in the calculation of personal income. In 2006, contributions for government social insurance account for 8.4 percent of personal income. Contributions for social insurance consist of the payments made by employers, employees, by the self-employed, and by other individuals who participate in the following programs: Old-age, survivors, and disability insurance (OASDI, or social security); hospital insurance (HI) and supplementary medical insurance (Medicare); railroad retirement; state unemployment insurance; temporary disability insurance; and veterans’ life insurance.

[^2]:    4 This simplified definition is less appropriate as "in-kind" transfer programs like Medicaid, Medicare, and food stamps etc., become larger. In 2006, Medicare and Medicaid accounted for about 6.4 percent of personal income. Also, the Federal Insurance Contribution Act (FICA) and HI contributions are excluded from personal income as contributions to government social insurance. In some contexts, these contributions are treated as payroll taxes.

[^3]:    5 Total Tax corresponds to line 61 in the Tax Year 2006 Form 1040. Total Tax is before the earned income tax credit (EITC) and includes "other taxes." The line item used in the state estimates, line 56 in the Tax Year 2006 Form 1040, Income Tax, excludes these "other taxes," but it was not available.
    6 BEA uses annual United Postal Service Delivery statistics to construct the crosswalk.
    7 The resulting metro/nonmetro split assumes any local income tax is paid by state residents. This is not always the case (e.g. Jefferson County, KY levies a local income tax on both residents and non-residents who work in the county).

[^4]:    8 New York City commuter earnings tax ended for New York state residents by state law and for residents of other states by decision of the New York State Supreme Court Appellate Division on April 4, 2000. Certain Ohio and Pennsylvania school district income taxes are levied on residents only.

[^5]:    9 Current Personal Taxes in BEA’s National Income and Product Accounts (NIPA) are on a receipts basis. However, the only source of a reliable state distribution is a tabulation of Form 1040 line items from the IRS Individual Income Tax Master. The assumption is made that the state "liability" distribution approximates the "receipts" distribution. For tax year 2001, this was not the case. For that year, a "receipts" based distribution was used by adjusting the "Income Tax" item by "Taxes Due" and "Overpayments adjusted for refundable credits." In the following years, the distribution using both series yielded similar distributions. Because the "quality" of the adjustment items is suspect, the simpler "liability" distribution is used unless there is a large discrepancy such as that in 2001 and the resulting state distribution differs materially from the simpler method. More information on the methodology for personal current taxes is available at http://www.bea.gov/regional/docs/spi2007/ .

[^6]:    11 Appendix B summarizes the CBO results for the federal income tax.

