Levy Institute Measure of Economic Well-Being

Wealth and Economic Inequality: Who’s at the Top of the Economic Ladder?

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This report is available on the Levy Institute website at www.levy.org.

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2 LIMEW, December 2006
Preface

This report argues that wealth is an integral aspect of economic well-being. The authors combine income and net worth to demonstrate the importance of wealth inequalities in shaping overall economic inequality and defining the disparities among population subgroups.

Conventional measures of household economic well-being do not adequately reflect the advantages of asset ownership or the disadvantages of financial liabilities. The authors find that the picture of economic well-being in the United States is quite different if the yardstick is their wealth-adjusted income measure (WI) rather than the standard income measure.

WI focuses on total annual household income, which includes the sum of income from wealth and money income from other sources. It differs from the conventional measures by distinguishing between home and nonhome wealth, converting the latter into a lifetime annuity, accounting for differences in portfolio composition of nonhome wealth, and capturing differences in life expectancies among racial groups.

The report shows that the conventional measures understate most aspects of economic well-being: the portion of the aggregate economic pie that goes to the rich; the degree of overall inequality and the contribution of income from wealth to the increase in inequality; and the relative well-being of the elderly. The measures also overstate the relative well-being of minorities. Thus, policies ignoring asset ownership will have only partial success in redressing the relatively high level of economic inequality in the United States.

As always, I welcome your comments and suggestions.

Dimitri B. Papadimitriou, President
December 2006
**Introduction**

Who occupies the top rungs of the economic ladder in America today? Most people would point to the CEOs of big businesses based on their astounding compensation packages. Indeed, they are at the top of the income ladder, and the distance between them and the average employee is huge: the median compensation of top CEOs in 2005 was $6 million, while the median earnings of full-time male and female workers were, respectively, $41,368 and $31,858.¹ These numbers imply that the average “boss” in a top corporation earned 145 times more than the average male worker and 188 times more than the average female worker. The compensation packages of today’s top CEOs are far out of line with the maxim put forward two decades ago by the late management guru Peter Drucker—that the CEO should not earn more than 20 times the salary of the lowest-paid employee in the corporation.² Perhaps his prediction of an “outbreak of bitterness and contempt for the super-corporate chieftains who pay themselves millions” will come true.³

Compared to the attention received by the issues of excessive CEO pay, the accumulation of vast amounts of wealth by a tiny minority receives far less attention. By most commonsense notions of privilege and power, the members of this tiny minority are at the top of the economic ladder. Furthermore, the truly astonishing gap in wealth separating them from the average household makes the CEO-worker compensation gap seem relatively small. Perhaps the best listing of America’s wealthiest is the Forbes 400. In 2004, the median net worth of the individuals on the Forbes list was $1.5 billion, as compared to the median net worth of $93,100 for all other households.⁴ The average “owner” among the wealthiest Americans possessed an amount of wealth that was over 16,000 times larger than that of the average household.

Both income inequality and wealth inequality are quite high in the United States, but the degree of income inequality is lower than that of wealth inequality. The Gini coefficient was 0.47 for household money income in 2005 and 0.81 for household net worth in 2004.⁵ An intuitive understanding of the level of inequality implied by these numbers can be gained by picturing the division of an aggregate economic “pie” worth $100 among a hypothetical group of 10 families. An equal division would be $10 per family. Now suppose that one family got $57, while the remaining families received only $4.78 each. The Gini coefficient of this distribution is 0.47, which is equal to the Gini coefficient for money income among American households.

Consider another distribution of the $100 pie, in which one family got $91 and the remaining families received only $1 each. This distribution results in a Gini coefficient of 0.81, which is equal to the Gini coefficient for wealth among American households.⁶

We argue that wealth is an integral aspect of economic well-being. Most studies of economic inequality focus on inequalities in pay or income. While these are significant dimensions of inequality, it is also important to incorporate wealth explicitly into any measurement of economic inequality. Conventional measures of household economic well-being, such as before-tax or after-tax money income, do not adequately reflect the advantages of asset ownership. They also do not reflect the disadvantages of financial liabilities.

Income generated from asset ownership is usually counted in the form of property income (the sum of dividends, interest, and rent), but this does not reflect the “stock” dimension of the advantages of asset ownership and is, at best, a partial measure of the “flow” dimension. Some of the principle components of household wealth—most importantly, homes and retirement assets—do not generate any current money income. Yet, it is difficult to imagine that ownership of such assets does not contribute to differentials in economic security or well-being among households. Similarly, ownership of substantial amounts of financial wealth adds something more to a household’s economic status than the mere entitlement to an annual flow of dividend and interest income. “Something more” can mean additional economic security, as well as considerable economic and political privilege and power. Improvements along the dimensions of economic security or power may result from the growth in financial wealth, which often does not correspond to any changes in property income.

For a significant number of households at the bottom of the economic ladder, negative net worth—that is, indebtedness—is a serious economic problem. The accrued disadvantages from the burden of debt are not captured in standard income measures. Apart from the fact that carrying substantial amounts of debt implies a diversion of household income toward debt service instead of meeting other needs, there are also other consequences. A bad credit score can mean that you cannot rent the house you want or get a loan for a used car that you absolutely need for getting to work. It can also mean that you become caught in the grip of what is euphemistically called the “subprime” lending market. A serious blemish in your credit record
can carry consequences that last well beyond the date on which an overdue debt was paid off or the default on monthly payments was overcome. Just as ownership of substantial financial wealth confers advantages that go beyond the receipt of dividend and interest income, holding substantial debt imposes disadvantages that extend beyond the burden of debt service.

Our argument, therefore, is that an adequate measure of economic well-being or economic status should account for wealth in a more comprehensive manner than the standard income measures. There is a general consensus among modern economists engaged in the assessment of economic well-being that an adequate measure should approximate potential consumption over a given period of time (Canberra Group 2001). We believe that, apart from a better measure of income from wealth, a comprehensive measure of well-being should include estimates of the value of public provisioning and household production. Indeed, the Levy Institute Measure of Economic Well-Being (LIMEW) has been constructed to fulfill this goal (see Wolff, Zacharias, and Kum 2005). However, we ignore public provisioning and household production here because we would like to present the effects of modifying the conventional measure for wealth in stark detail, rather than obfuscating the effects by incorporating these additional components of well-being.

Our aim is to show that the picture of economic well-being in the United States over the 1980s and the 1990s is quite different if the yardstick of well-being is our wealth-adjusted measure rather than the standard income measure. The differences relate to the share of the rich in aggregate income and the sources of income for the rich; the level of overall inequality and the contribution of different income sources to the changes in overall inequality; and the extent of disparities among racial and age groups.

Alternative Measures of Income from Wealth

Total annual household income is our measure of well-being: the sum of income from wealth and money income from other sources. Income from wealth in the official measures usually includes property income or, sometimes, the sum of property income and realized capital gains. We employ an alternative measure of income from wealth because we think that the conventional measures are inadequate.

There are many studies that have attempted to combine income and wealth (e.g., Weisbrod and Hansen 1968). Typically, net worth is converted into a lifetime annuity for the expected remaining life of the family. The annuity is defined as a stream of equal annual payments that will fully exhaust the stock of initial wealth; it is then added to current money income to obtain an augmented measure of family income. To avoid double counting of the returns from household wealth, property income is subtracted from current money income prior to the addition of the annuity.

Our approach differs from standard measures in four significant ways. First, we distinguish between home and non-home wealth. Housing is a universal need, and owning a house frees the owner from the obligation of paying rent, leaving more resources for spending on other needs. Hence, the benefits from owner-occupied housing are reckoned in terms of the replacement cost of the services derived from ownership (i.e., a rental equivalent).

Second, we convert nonhome wealth into a lifetime annuity. However, in computing lifetime annuities, we use actual historical rates of return rather than an arbitrary interest rate, as in most studies. Third, we take into account the differences in the portfolio composition of nonhome wealth by computing the lifetime annuity as the weighted average of annuity flows generated by the individual components of the portfolio, with the shares of the components in the portfolio serving as weights. Fourth, we use life-tables that are differentiated by sex and race in order to capture the well-known differences in life expectancies among racial groups. The expected remaining life of families is usually based on sex-specific life-tables.

Data and Definitions

Our basic data source is the Federal Reserve Board’s Survey of Consumer Finances (SCF) for 1983 and 2001, for which there were 4,262 completed interviews in 1983 and 4,449 in 2001. Conducted every three years, the SCF is the premier survey on household wealth in the United States. Each survey consists of a nationally representative core sample combined with a high-income supplement. This is the best available source of data for our purposes. In addition, SCF income data are not “top-coded,” which is the practice of not recording, in the interests of individual privacy, the actual income amounts for persons or households that are higher than an arbitrarily determined threshold. The income data reported in the Census Bureau’s annual income surveys, for example, are top-coded.
We use marketable wealth (or net worth) as our preferred wealth definition: the current value of all marketable or fungible assets less the current value of liabilities. Total assets are defined as the sum of (1) the gross value of owner-occupied housing; (2) other real estate owned by the household and net equity in unincorporated businesses; (3) cash and demand deposits, time and savings deposits, certificates of deposit, money market accounts, and the cash surrender value of life insurance plans; (4) government bonds, corporate bonds, foreign bonds, and other financial securities, such as corporate stock, mutual funds, and equity in trust funds; and (5) the cash surrender value of defined-contribution pension plans, including IRAs and Keogh and 401(k) plans. Total liabilities are the sum of mortgage debt and other debt, such as car and credit card loans.

The total real rate of return for each nonhome asset is the average annual rate over a relatively long period of time (i.e., 40 years for most assets, but only 14 years for pension assets). The total rates of return for the data include both capital gains and the income generated by the assets.8 Debts are annuitized using the average annual inflation rate over the 1960–2000 period.9 The total amount of gross imputed rent on (nonfarm) owner-occupied housing is taken from the national income and product accounts (NIPA).

We define income from wealth as the sum of income from home and nonhome wealth. Income from home wealth is the gross imputed rent assigned to each household minus the annuitized value of mortgage debt.10 Income from nonhome wealth is the imputed lifetime annuity from nonhome wealth minus the annuitized value of other debt. Our measure of household income, which we call “wealth-adjusted income” (WI), differs from the standard measure of money income (MI) because we replace property income with our definition of income from wealth.

**Income Gains, Income Shares, and Income Composition**

We begin by examining how income gains over the period from 1982 to 2000 were distributed along the economic ladder. The simplest way to do this is to see how the thresholds changed, causing households to fall into a selected portion of the distribution—say, the bottom 10 percent or the top 5 percent. Figure 1 shows the percentage change in the thresholds for MI and our preferred WI measure. In general, both measures show that there was a strong positive relationship between the initial income level and subsequent income gains. Loosely speaking, the measures show that “the rich got richer.” For example, the minimum amount of MI required to be in the top 5 percent of the MI distribution shot up by 40 percent (from $117,895 to $164,964 in 2001 dollars), while the percentile cutoff for the bottom 5 percent declined by more than 4 percent (from $6,880 to $6,582 in 2001 dollars).

However, there are two important differences between the MI and WI distributions. First, the WI rate of increase is higher for almost all percentiles, including at the median. Especially notable is the fact that the increase in median WI is almost double that of median MI (18 versus 9 percent).11 Second, the gap between the two distributions appears to widen toward the top rungs of the distribution and is widest at the 95th percentile, where the percentage increase of the WI distribution is a whopping 63 percent. The primary factor behind the difference in the two distributions is the steep rise in the annuitized value of nonhome wealth, the mean value of which soared by 93 percent between 1982 and 2000.12

As expected, this pattern of income gains across the distribution was accompanied by a redistribution of aggregate income toward households on the top rungs over the same period (Table 1). The top decile gained 10.0 percentage points according to WI and 9.5 percentage points according to MI. The

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**Figure 1** Percent Change in Money Income (MI) and Wealth-adjusted Income (WI) at Selected Percentiles, 1982 to 2000

Source: Authors’ calculations based on the SCF public-use files
losses suffered by the remaining 90 percent are also roughly the same across income measures. However, a remarkable revelation in the table is that the standard measure understates the share of the top decile in the aggregate economic pie: in 2000, the share of the top decile was 42.9 percent in MI, while the share in WI was substantially higher—48.1 percent. The same relationship holds for the share of the top 1 percent: 17.4 percent in MI, but 20.1 percent in WI.

What income source is propelling the growth in the share of the rich in the aggregate economic pie? On the basis of standard income measures, some analysts believe that it is the relatively rapid growth in labor income (e.g., Piketty and Saez 2003). This conclusion also fits well with the exceptional growth in top managerial pay relative to the salaries of other employees during the period. Indeed, this trend could result in a shift in the composition of the income of the rich away from property income—that is, property income's share of total income would fall. It would then seem that the rich were becoming less reliant on property income and have, in effect, become the "working rich."13

The standard income measures support this view regarding the income sources of the rich (Table 2). The share of income from wealth in the total income of the top decile (90–100) appears to be quite low. Estimates by Piketty and Saez (labeled “PS”) show that, as a proportion of total income, income from wealth fell by half between 1982 and 2000 (from 16 to 8 percent). Our estimate according to MI also shows a decline (from 19 to 12 percent), but it is smaller than the decline indicated by PS. However, there is no such decline according to our preferred definition of income (WI). As a share of total WI of the top decile, income from wealth was 42 percent in both 1982 and 2000. It is also striking that wealth appears as a much larger income source for the rich in WI as compared to MI.

What Drives the Growth in Inequality?

We next turn to trends in inequality as shown by MI and WI (Figure 2). The inequality in MI climbed by a considerable amount (0.093, or 9.3 Gini points) between 1982 and 2000. This may reflect the enhanced salaries of corporate executives, particularly CEOs. However, the share of income from wealth in WI was quite high in 2000 (46 percent) compared to PS and MI (12 and 13 percent, respectively). Accordingly, our preferred definition does not support the conclusion that the so-called “working rich” have fully replaced the “coupon-clipping rentiers” at the top of the economic ladder.

### Table 1 Income Shares of Families in Aggregate Income by Income Measure and Selected Percentiles, 1982 and 2000

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0–25</td>
<td>5.7</td>
<td>5.3</td>
<td>4.2</td>
<td>3.7</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25–50</td>
<td>14.0</td>
<td>13.0</td>
<td>11.4</td>
<td>9.9</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>50–90</td>
<td>46.9</td>
<td>43.6</td>
<td>41.4</td>
<td>38.3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>90–100</td>
<td>33.4</td>
<td>38.1</td>
<td>42.9</td>
<td>48.1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>90–95</td>
<td>10.7</td>
<td>10.3</td>
<td>10.2</td>
<td>10.5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>95–99</td>
<td>12.9</td>
<td>13.7</td>
<td>15.3</td>
<td>17.5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>99–100</td>
<td>9.9</td>
<td>14.1</td>
<td>17.4</td>
<td>20.1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Source: Authors’ calculations based on the SCF public-use files.

### Table 2 Share of Income from Wealth in Total Income, by Income Measure and Selected Percentiles, 1982 and 2000 (in percent)

<table>
<thead>
<tr>
<th>Income Measure</th>
<th>90–100</th>
<th>90–95</th>
<th>95–99</th>
<th>99–100</th>
<th>All Households</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS</td>
<td>16</td>
<td>8</td>
<td>8</td>
<td>4</td>
<td>13</td>
</tr>
<tr>
<td>MI</td>
<td>19</td>
<td>12</td>
<td>13</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>WI</td>
<td>42</td>
<td>42</td>
<td>22</td>
<td>29</td>
<td>36</td>
</tr>
</tbody>
</table>

Sources: PS refers to estimates reported in the data appendix of Piketty and Saez (2003). MI and WI are authors’ calculations based on the SCF public-use files.
However, the most striking result is the much higher level of inequality in WI (4.0 Gini points in 2000). This is consistent with our observations in the last section regarding the significantly larger share of the rich in aggregate WI than in aggregate MI.

Although the change in the Gini coefficient between 1982 and 2000 is similar for MI and WI, is the same income source driving the growth in inequality? To answer this question, we separated total income into two sources: income from wealth and income from all other sources, or “primary income.” We then decomposed the Gini coefficient for each income definition by income source for both years. In the final step, the contribution of the income sources to the change in the Gini coefficient was calculated as the difference between the individual income source contributions in 1982 and 2000. The results of the calculation are shown in Figure 3.

There is a striking asymmetry between the two measures with respect to the contribution of income from wealth to the increase in inequality. Income from wealth had an inequality-reducing effect on MI. Its contribution to the 9.3 Gini point increase was minus 1.6 points, indicating that the increase in inequality was due solely to the increasing inequality of primary income. In contrast, income from wealth and primary income contributed approximately the same amount to the 9.6 Gini point increase in WI. The contribution of income from wealth to changes in inequality thus depends crucially on how income from wealth is measured.

Disparities Among Population Subgroups
An essential aspect of economic inequality in the United States is the disparity among different demographic groups. Here we consider two groups: racial/ethnic and age. Our results show that the pattern of disparities among subgroups is quite sensitive to the definition of income from wealth that is used in the income measure.

Racial/Ethnic Disparities
The ratio of median and mean MI between African Americans and non-Hispanic whites was 0.56 and 0.57, respectively, in 1982 (Table 3). By 2000, the ratio of median income had edged upward to 0.57, while the ratio of mean income had slipped to 0.50 (see also Figure 4 for the comparison between mean MI and mean WI).

The ratio of median WI in 1982 was somewhat lower than that of MI, while the ratio of mean WI was a full 7 percentage points lower. In this case, the ratio of median WI fell from 0.53 in 1982 to 0.49 in 2000, while the ratio of mean WI fell more steeply (from 0.50 to 0.41). Thus, the racial income gap was wider in 2000, and wider still when imputed rent and, particularly, annuitized wealth were added to MI. These results reflect the fact that the wealth gap between African Americans and whites is considerably larger than the income gap, and that there are differences in portfolio composition (i.e., whites have a higher share of assets in stocks).
Table 3  Family Income by Race/Ethnicity and Income Measure, 1982 and 2000 (in 2001 dollars)

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>1982</th>
<th>Ratio to Whites</th>
<th>2000</th>
<th>Ratio to Whites</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Median</td>
<td>Mean</td>
<td>Median</td>
<td>Mean</td>
</tr>
<tr>
<td>Non-Hispanic whites</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Money income (MI)</td>
<td>38,540</td>
<td>51,658</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>2. Wealth-adjusted income (WI)</td>
<td>42,243</td>
<td>62,013</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Memo items:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. Income from home wealth</td>
<td>2,047</td>
<td>3,441</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>b. Income from nonhome wealth</td>
<td>761</td>
<td>12,764</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>African Americans</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Money income (MI)</td>
<td>21,474</td>
<td>29,231</td>
<td>0.56</td>
<td>0.57</td>
</tr>
<tr>
<td>2. Wealth-adjusted income (WI)</td>
<td>22,324</td>
<td>31,093</td>
<td>0.53</td>
<td>0.50</td>
</tr>
<tr>
<td>Memo items:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. Income from home wealth</td>
<td>0</td>
<td>1,164</td>
<td>0.00</td>
<td>0.34</td>
</tr>
<tr>
<td>b. Income from nonhome wealth</td>
<td>0</td>
<td>1,439</td>
<td>0.00</td>
<td>0.11</td>
</tr>
<tr>
<td>Hispanics</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Money income (MI)</td>
<td>25,693</td>
<td>32,912</td>
<td>0.67</td>
<td>0.64</td>
</tr>
<tr>
<td>2. Wealth-adjusted income (WI)</td>
<td>25,719</td>
<td>34,523</td>
<td>0.61</td>
<td>0.56</td>
</tr>
<tr>
<td>Memo items:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. Income from home wealth</td>
<td>0</td>
<td>1,440</td>
<td>0.00</td>
<td>0.42</td>
</tr>
<tr>
<td>b. Income from nonhome wealth</td>
<td>0</td>
<td>576</td>
<td>0.00</td>
<td>0.05</td>
</tr>
<tr>
<td>Asians and other races</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Money income (MI)</td>
<td>38,356</td>
<td>51,619</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>2. Wealth-adjusted income (WI)</td>
<td>40,156</td>
<td>55,303</td>
<td>0.95</td>
<td>0.89</td>
</tr>
<tr>
<td>Memo items:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. Income from home wealth</td>
<td>0</td>
<td>2,400</td>
<td>0.00</td>
<td>0.70</td>
</tr>
<tr>
<td>b. Income from nonhome wealth</td>
<td>19</td>
<td>3,668</td>
<td>0.03</td>
<td>0.29</td>
</tr>
</tbody>
</table>

Source: Authors’ calculations based on the SCF public-use files

The pattern of results is very similar for Hispanics. In particular, there was a more precipitous drop in WI than MI. The ratio of median MI between Hispanics and whites fell from 0.67 in 1982 to 0.59 in 2000 (8 percentage points), and the ratio of mean MI fell from 0.64 to 0.54 (10 percentage points). The corresponding WI ratios declined from 0.61 to 0.50 (11 percentage points) and from 0.56 to 0.43 (13 percentage points), respectively. Overall, the ratios were much lower for WI than for MI in 2000.

The pattern is also similar for Asians and other races (“Asians”). There was virtual parity in MI between Asians and whites in 1982. By 2000, however, the ratio had slipped to 0.80 for median MI, and was likely the result of increased Asian immigration in the intervening years. The ratio of median WI in 1982 was slightly below parity (0.95), but had plummeted to 0.73 by 2000.
Table 4: Family Income by Age of Household Head and Income Measure, 1982 and 2000 (in 2001 dollars)

| Age Group | 1982 | 2000 | | | | | | |
|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|           | Median | Mean | Median | Mean | Median | Mean | Median | Mean | Median | Mean | Median | Mean | Median | Mean | Med | Mean |
| Under 35  |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |     |
| 1. Money income (MI) | 32,166 | 37,646 | 0.90 | 0.78 | 32,931 | 43,680 | 0.84 | 0.67 |       |      |       |      |       |      |     |     |
| 2. Wealth-adjusted income (WI) | 33,173 | 39,072 | 0.86 | 0.69 | 33,608 | 45,729 | 0.75 | 0.54 |       |      |       |      |       |      |     |     |
| Memo items: |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |     |
| a. Income from home wealth | 0 | 1,009 | 0.00 | 0.33 | 0 | 846 | 0.00 | 0.25 |       |      |       |      |       |      |     |     |
| b. Income from nonhome wealth | 5 | 1,173 | 0.01 | 0.11 | 0 | 2,010 | 0.00 | 0.10 |       |      |       |      |       |      |     |     |
| 35 to 44  |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |     |
| 1. Money income (MI) | 49,551 | 58,885 | 1.39 | 1.22 | 51,423 | 74,333 | 1.32 | 1.15 |       |      |       |      |       |      |     |     |
| 2. Wealth-adjusted income (WI) | 51,617 | 63,246 | 1.34 | 1.11 | 55,055 | 82,043 | 1.22 | 0.97 |       |      |       |      |       |      |     |     |
| Memo items: |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |     |
| a. Income from home wealth | 2,063 | 3,049 | 1.30 | 1.00 | 741 | 2,684 | 0.75 | 0.78 |       |      |       |      |       |      |     |     |
| b. Income from nonhome wealth | 396 | 3,739 | 1.03 | 0.35 | 854 | 7,760 | 0.77 | 0.37 |       |      |       |      |       |      |     |     |
| 45 to 54  |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |     |
| 1. Money income (MI) | 47,514 | 60,612 | 1.33 | 1.26 | 55,537 | 89,871 | 1.42 | 1.38 |       |      |       |      |       |      |     |     |
| 2. Wealth-adjusted income (WI) | 52,146 | 71,562 | 1.35 | 1.26 | 61,576 | 107,966 | 1.37 | 1.28 |       |      |       |      |       |      |     |     |
| Memo items: |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |     |
| a. Income from home wealth | 3,147 | 4,455 | 1.99 | 1.45 | 1,517 | 3,970 | 1.54 | 1.15 |       |      |       |      |       |      |     |     |
| b. Income from nonhome wealth | 738 | 11,107 | 1.91 | 1.03 | 2,207 | 19,274 | 2.00 | 0.93 |       |      |       |      |       |      |     |     |
| 55 to 64  |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |     |
| 1. Money income (MI) | 39,979 | 57,467 | 1.12 | 1.20 | 45,252 | 84,620 | 1.16 | 1.30 |       |      |       |      |       |      |     |     |
| 2. Wealth-adjusted income (WI) | 44,908 | 70,610 | 1.16 | 1.24 | 53,211 | 118,918 | 1.18 | 1.41 |       |      |       |      |       |      |     |     |
| Memo items: |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |     |
| a. Income from home wealth | 3,256 | 4,511 | 2.06 | 1.47 | 2,834 | 5,234 | 2.87 | 1.52 |       |      |       |      |       |      |     |     |
| b. Income from nonhome wealth | 2,197 | 17,063 | 5.69 | 1.59 | 3,729 | 36,751 | 3.38 | 1.78 |       |      |       |      |       |      |     |     |
| 65 to 74  |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |     |
| 1. Money income (MI) | 23,487 | 42,410 | 0.66 | 0.88 | 27,563 | 50,580 | 0.71 | 0.78 |       |      |       |      |       |      |     |     |
| 2. Wealth-adjusted income (WI) | 28,923 | 60,980 | 0.75 | 1.07 | 38,959 | 92,959 | 0.87 | 1.10 |       |      |       |      |       |      |     |     |
| Memo items: |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |     |
| a. Income from home wealth | 3,023 | 4,662 | 1.91 | 1.52 | 3,413 | 5,436 | 3.46 | 1.58 |       |      |       |      |       |      |     |     |
| b. Income from nonhome wealth | 3,184 | 27,019 | 8.25 | 2.51 | 5,336 | 45,638 | 4.83 | 2.20 |       |      |       |      |       |      |     |     |
| 75 and over |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |     |
| 1. Money income (MI) | 13,764 | 26,298 | 0.39 | 0.55 | 18,615 | 32,550 | 0.48 | 0.50 |       |      |       |      |       |      |     |     |
| 2. Wealth-adjusted income (WI) | 17,726 | 49,178 | 0.46 | 0.86 | 30,337 | 76,134 | 0.67 | 0.90 |       |      |       |      |       |      |     |     |
| Memo items: |       |      |       |      |       |      |       |      |       |      |       |      |       |      |     |     |
| a. Income from home wealth | 1,861 | 3,115 | 1.18 | 1.02 | 3,603 | 5,410 | 3.65 | 1.57 |       |      |       |      |       |      |     |     |
| b. Income from nonhome wealth | 2,125 | 29,096 | 5.50 | 2.71 | 5,396 | 46,009 | 4.88 | 2.22 |       |      |       |      |       |      |     |     |

Source: Authors' calculations based on the SCF public-use files
addressed these deficiencies. We replaced property income with our estimate of income from wealth derived from imputed rent on owner-occupied housing, net of the annuitized value of mortgage debt (income from home wealth), and a lifetime annuity on nonhome assets, net of the annuitized value of all other debt (income from nonhome wealth). The latter component was mainly responsible for the difference between MI and WI in the stylized facts regarding economic inequality.

There are three factors that determine the distributional effects when adding an annuity flow from nonhome household wealth. The first is the variation of wealth-to-income ratios both across the income distribution and among different demographic groups. The second is the joint distribution of income and wealth. The third consists of differences in portfolio composition among households and rates of return by asset type, and the consequent variation in overall rates of return across households.

These factors were behind the key findings highlighted in this report: that the conventional measures (1) understate the portion of the total economic pie that goes to the rich and the relative importance of wealth for the well-being of the rich; (2) understate the degree of overall inequality and the contribution of income from wealth to the increase in inequality between 1982 and 2000; and (3) overstate the relative well-being of minorities while understating the extent to which they fell behind whites during the 1980s and 1990s. The conventional

**Disparities Among Age Groups**

Table 4 shows the same set of results by age of household head (see also Figure 5). The effect of using WI instead of MI is to increase the relative well-being of older groups relative to younger ones. There are two reasons for this. First, the wealth-to-income ratios are higher for older households. Second, mortality rates are higher for older people, which result in larger annuity flows per dollar of wealth. Moreover, because of the tilt in age-wealth profiles in favor of older households over the 1982 to 2000 period, WI grows faster relative to MI for older groups than for younger ones.

The results are quite dramatic. The ratio of median MI to the overall median in 1982 was 0.66 for the 65–74 age group, while the corresponding ratio for WI was 0.75. Likewise, the ratio of mean MI to the overall mean in 1982 was 0.88 for the same age group, while the corresponding ratio for WI was 1.07. While the ratio of median MI to the overall median grew modestly over the 1982–2000 period (from 0.66 to 0.71), the corresponding ratio for WI climbed by 12 percentage points (from 0.75 to 0.87). The ratio of mean MI to the overall mean fell by 10 percentage points (from 0.88 to 0.78) over the period, while the corresponding ratio for WI rose by 3 percentage points (from 1.07 to 1.10). The results are similar for the 75 and over age group. By 2000, the mean WI reached 90 percent of the overall mean, compared to 50 percent for MI.

For the 45–54 and 55–64 age groups, the WI figures relative to the overall figures are similar to those for MI. On the other hand, both the under-35 and 35–44 age groups show deterioration in the relative level of well-being when WI figures are used instead of MI figures. For the under-35 age group, the ratio of mean WI to the overall mean was 0.54 in 2000, compared to 0.67 for MI, while the corresponding ratios for the 35–44 age group were 0.97 and 1.15. WI also shows slower growth than MI relative to the overall figures for both age groups over the 1982–2000 period.

**Conclusion**

Wealth and income are not interchangeable as indicators of economic status or well-being. Rather, wealth is an additional dimension of well-being, over and above income. Conventional measures of well-being do not adequately reflect the advantages from asset ownership and neglect the disadvantages from financial liabilities. Our wealth-adjusted income measure (WI)
measures also understate the relative well-being of the elderly and the extent of improvement during the 1980s and 1990s. Most studies of disparities in well-being employ MI as the metric of well-being. Since earnings are the overwhelming proportion of MI, academic and policy discussions center on tax-transfer policies and differences in earnings capacity among those in the labor force to alleviate the income shortfalls of individuals outside the labor force. Economic inequality tends to be aligned with earnings inequality.

By employing a combined income–net worth measure, we have attempted to demonstrate the importance of wealth inequalities in shaping overall economic inequality and disparities among population subgroups. While further research is required on several of the issues raised here, we are certain that policies ignoring questions of asset ownership will have only partial success in redressing the relatively high level of economic inequality in the United States.

Notes
1. We calculated the median CEO compensation from the report by Wall Street Journal/Mercer Human Resource Consulting (2006) covering 350 of the largest U.S. public companies. We used “realized direct compensation” as our measure of pay. Our data on median earnings are taken from the report based on the annual income survey conducted by the U.S. Census Bureau (DeNavas-Walt, Proctor, and Lee 2006, p. 7).
4. We calculated the median net worth of the Forbes 400 from the data published on the magazine’s website, http://www.forbes.com/2004/09/22/rl04land.html. The median net worth of all other households was taken from a report based on the latest official triennial survey on household wealth (Bucks, Kennickell, and Moore 2006, p. A8). The official survey excludes the people on the Forbes list, but contains a special subsample of the superrich.
7. Findings for 1989 and 1995, in addition to the two years reported here, are discussed in Wolff and Zacharias (2006).
8. The source of data is the Flow of Funds tables published by the Federal Reserve. For details regarding data on rates of return and other items mentioned in this section, see Wolff and Zacharias (2006).
9. We use the Consumer Price Index for Urban Consumers (CPI-U), published by the U.S. Bureau of Labor Statistics, as our gauge of inflation.
10. The amount of gross imputed rent assigned to each household is according to its share in the aggregate gross value of houses.
11. The median WI in 2000 was, in fact, about 17 percent higher than MI ($45,578 versus $39,081), reflecting the larger size of our definition of income from wealth, as compared to property income.
12. Income from wealth increased from $13,815 to $24,149 per household between 1982 and 2000 (in 2001 dollars), an increase of 75 percent. In contrast, mean property income increased from $6,069 to $9,403, a rise of 55 percent. As the estimates show, property income was only about 40 percent of income from wealth in 2000.
13. Forbes popularized this term. However, the magazine used it in the sense that the wealthiest Americans hold jobs rather than in the sense that the wealthiest depend mainly on labor income as their chief source of income.
14. Mathematically, the operation can be described as follows. Let $G$ be the Gini coefficient. Using the method discussed in Lerman and Yitzhaki (1985), decompose the Gini as: $G = K_p + K_w$, where the first term represents the contribution of primary income and the second term represents the contribution of income from wealth. It follows that we can calculate the change in the Gini between two years, say, Year 0 and Year 1, as: $G_1 - G_0 = (K_{p1} - K_{p0}) + (K_{w1} - K_{w0})$, where the first term represents the contribution of primary income to the change in the Gini and the second term represents the contribution of income from wealth to the change in the Gini. The estimates of the terms within the parentheses are shown in Figure 3 for MI and WI.
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