Date: 5/19/05

# **Blueprint for Expanded and Integrated**

U.S. Accounts: Review, Assessment, and Next Steps

by

Dale W. Jorgenson and J. Steven Landefeld

Conference on Research in Income and Wealth
New Architecture for the U.S. National Accounts
Washington, D.C.

**April 16-17, 2004** 

# Table of Contents

I. Introduction	4
II. Measuring Economic Activity in the Market Sector	5
1. Introduction – Overview of Existing Sets of U.S. Accounts	5
2. BEA's NIPAs	
3. BEA's Other Flow Accounts	7
4. BEA's Capital and Financial Accounts	7
5. BLS Productivity Estimates	
6. FRB Flow of Funds and Balance Sheet Accounts	
7. Overview of the International System of National Accounts	
8. Evolution of the U.S. National Income and Product Accounts: Responses to Change	
Economy and Policy Needs	
9. Remaining Challenges	
10. Expanding the Boundary of the Accounts	
10.1 Expanded Price and Quantity Measures	
10.1a Consumer Durables, Government, and Nonprofit Capital Services	
10.1b Valuing Output in Both Consumers and Producers Prices	
10.2 Decomposition of Proprietor's Income into Labor and Capital Components	
10.3 R&D and Other Intangibles, Human Capital, and Other Expansions	
III. Measuring Economic Activity in the Non-market Sector	
1. Economic vs. Welfare Accounts	
2. Satellite Accounting	
3. Integrated Economic and Environmental Satellite Accounts (IEESA)	
IV. What Is Now Required	
Building an Integrated and Consistent System of National Accounts	
Blueprint for a Complete Accounting System      Income and Wealth	
3.1 Introduction.	
3.2 Production Account	
3.3 Income and Expenditures Accounts	
3.4 Accumulation Accounts	
3.5 Wealth Accounts	
4. Price and Quantity Indexes	
4.1 Introduction.	
4.2 Index Number Systems	
4.3 Taxes	
5. Domestic Income and Product Account in Constant Prices	
5.1 Introduction.	
5.2 Output and Labor Income	
5.3 Capital Income	
6. Income and Expenditure, Domestic Capital, and Wealth Accounts	
6.1 Introduction.	
6.2 Income and Expenditures	
6.3 Domestic Capital Account	
6.4 Wealth Accounts	

7. The Sources and Uses of Economic Growth	37
8. Summary and Conclusions	42
Appendix: The U.S. National Accounts: Guide to Data, Concepts, and Methods	
References	

# I. Introduction

The U.S. possesses some of the best-developed sets of economic accounts in the world. These accounts have been regularly updated and have served researchers and policy makers well. Certain components of these sets of accounts, however, were developed independently to meet differing policy and analytical needs. As a result, while the flow of funds and balance sheet accounts produced by the Federal Reserve Board (FRB), the productivity statistics produced by the Bureau of Labor Statistics (BLS), and the rest of the national accounts produced by the Bureau of Economic Analysis (BEA) are among the best in the world, they are not completely comprehensive or fully integrated. The lack of integration and problems of consistency have hampered analysis of such issues as the downtrend in personal saving and the sources of the improvement in growth and productivity in the latter half of the 1990's.

Longer standing issues also raise questions about the scope and structure of the nation's economic accounts. Since their inception, there have been suggestions to expand the scope of the accounts to include non-market activities. Simon Kuznets, one of the primary architects of the U.S. accounts, recognized the limitations of focusing on market activities and excluding household production and a broad range of other non-market activities and assets that have productive value or yield satisfaction. The need to better understand the sources of economic growth in the post-war era led to the development—much of it by academic researchers—of various supplemental series, such as investments in human capital.

More recently, some data users have suggested that the overall architecture of the accounts—which has been regularly updated throughout its history but whose basic structure has remained largely unchanged for over 50 years—needs to be re-examined. Alternative structures, such as ownership-based accounting for international transactions or macro accounts that are linked to micro accounts are examples.

In this paper, we examine these issues in the context of a review and assessment of the accounts and find that the existing accounts have served the nation well, but they have required continuing incremental updates, supplements, and reconciliation. At this point in time, we believe that there is no need for a new paradigm but an expansion and integration of the accounts produced by BEA, BLS, and the FRB in coordination with the U.S. Census Bureau, a primary supplier of source data. This effort would consist of (1) an expansion and integration of the accounts to include a complete production account for the analysis of growth and productivity; (2) an expansion of the accounts to cover goods and services that are important to the analysis of growth and productivity but not fully captured in the existing accounts, such as mineral resources, human capital, and R&D; and (3) an expansion of the accounts to non-market goods and services that are important to the economy, but also have large welfare implications—such as environmental and health accounts.

In the last section of the paper, we present an illustrative framework and set of estimates that build on the work of Jorgenson et al. and on BEA's seven account framework, estimates introduced as part of BEA's 2003 benchmark revision of the national income and product accounts (NIPAs). The framework's scope is restricted to the existing boundaries of market accounts and is focused on presenting an integrated, complete, and consistent set of accounts, but the framework can be expanded to cover intangible assets important to the analysis of growth and productivity, such as R&D, as well as non-market activities, such as household production.

\_

<sup>&</sup>lt;sup>1</sup> "We" is used to describe the cumulative work discussed in Christensen and Jorgenson (1996), Jorgenson and Fraumeni (1996a, 1996b), and Jorgenson, Gollop, and Fraumeni (1987) to build integrated accounts as well as the continuation of that work discussed in this article.

# II. Measuring Economic Activity in the Market Sector

# 1. Introduction – Overview of Existing Sets of U.S. Accounts

The existing sets of U.S. accounts are already interrelated through their use of and sharing of the same data. BEA has responsibility for most of the U.S. economic accounts, including the national income, product, and reproducible wealth accounts; the balance of payments and international investment position accounts; the gross domestic product (GDP)-by-industry and input-output accounts; the regional accounts; and a number of related accounts. These are estimated using Census, BLS, Internal Revenue Service (IRS), U.S. Treasury, FRB, and other data. FRB uses BEA's estimates of reproducible wealth, international balance of payment flows and positions, in combination with FRB estimates of domestic financial stocks and flows, to produce the nation's flow of funds and balance sheets accounts. BLS uses BEA estimates of real output, investment, and capital and labor income as inputs into its aggregate, multifactor, and industry estimates of output and productivity.

BEA's NIPAs record the value and composition of national production as measured by expenditures and the distribution of incomes generated in producing that output. BEA's input-output and industry accounts measure national output by each industry's value-added to production, estimate each industry's gross output and intermediate inputs, trace the flow of goods and services among industries in the production process, and provide a detailed commodity breakdown of national production. BLS productivity estimates measure labor productivity, multifactor productivity, and related measures thereby providing a picture of each industry and labor, capital, and other inputs contributions to productivity growth.

BEA's wealth accounts measure stocks and changes in stocks of reproducible assets, while BEA's international investment position accounts measure international assets and liabilities and changes in these assets and liabilities. The FRB's flow of funds accounts detail the role of financial institutions and financial instruments in intermediating saving and investment and the changes in assets and liabilities across sectors that result. The FRB balance sheets record the distribution of these assets and liabilities at the end of each quarter.

BEA's supporting international accounts measure U.S. residents' transactions with the rest of the world and trace those transactions by types of goods and services, incomes, and transfers as well as by type of payment for those transactions. BEA's regional accounts disaggregate the national accounts by geographic area, providing many of the same types of information and serving the same purposes as the national accounts.

Taken together, these sets of national accounts paint a comprehensive picture of economic activity. The system provides an interconnected set of accounts that measures the flow of current economic transactions (expenditures, incomes, and production), prices, and stocks of productive assets and wealth. The accounts are double-entry accounts that are linked to one another so as to give users an integrated and comprehensive picture of economic activity for macroeconomic monitoring, analysis, and decision making. In an evaluation conducted by the United Nations (UN) and the International Monetary Fund (IMF) in the late 1990's, the United States and Canada were the only countries to receive a rating of 6 out of 6 in terms of the completeness of their sets of accounts as specified by the internationally recognized System of National Accounts (SNA 1993). The U.S. accounts are also regarded as amongst the most accurate, up-to-date, and timely set of accounts (as measured by GDP revisions, incorporation of new measurement concepts and methods, and release of GDP data).

The three most commonly cited difficulties with the U.S. accounts have been (1) incomplete integration, consistency, and gaps in the U.S. accounts that can for certain purposes reduce their analytic value; (2)

inconsistency with the sectoring, structure, and presentation recommended by the SNA 1993 that reduces international comparability and analyses (a real problem when the U.S. economy is the benchmark and numeraire for cross-country comparisons); and (3) lack of expanded—and integrated—measures of economic activity (and welfare). A fourth and more recent complaint is that the U.S. accounts have moved ahead too fast in updating concepts and methods to measure the U.S. economy, resulting in reduced comparability of the U.S. accounts with other nations that have been slower in updating their accounts.

#### 2. BEA's NIPAs

While there are many summary statistics, accounts, and sub-accounts in the NIPAs and SNA 1993, the best known is gross domestic product (GDP). GDP is an unduplicated measure of domestic production and can be measured in the following three ways: (1) by final expenditures, (2) by incomes earned in production, or (3) by the production approach, which is measured by industry value-added, the value of gross output less the value of intermediate input. In concept, all three measures should be the same; in practice, they differ because they rely on different and incomplete source data.

BEA prepares variants of all three of these measures of output. BEA's final expenditures-based estimate is GDP; the income-based measures are gross domestic income (GDI), nominal GDP-by-industry, and gross state product (GSP); and the production value-added estimates come from BEA's input-output accounts and real GDP-by-industry.

BEA's seven summary accounts in the NIPAs feature the GDP and GDI estimates and include quarterly and annual re-estimates in nominal and real terms. The NIPAs are double-entry sets of accounts in which the use of resources (expenditures) recorded in one account for one sector are also recorded as a source of resources (receipts) in the account of another sector or, if it is an intra-sectoral transaction, in the same sector.

The first account is the domestic income and product account presented in Table 1. This shows the consolidated (unduplicated) production of all sectors of the economy as the sum of goods and services sold to final users on the right hand side of the account and the income generated by that production on the left side of the account. The other six accounts are consistent with and map into the domestic income and product account, providing additional detail on the aggregates presented in account 1. These supporting summary accounts include nearly 300 detailed supporting tables and sub-accounts.

Accounts 2 through 5 present the receipts and expenditures of the major sectors of the economy. The second account, for example, is the private enterprise income account that provides additional information on the sources of funds (receipts) to private companies and other business enterprises on the right hand side and information on the uses of those funds (payments) on the left hand side. Account 3 is the personal sector account (including households and nonprofit institutions serving households); account 4 is the government sector, and account 5 is the external, or foreign, sector.

Account 6, the domestic capital account, shows the sources of domestic saving and their use in domestic investment and capital transfers. Net borrowing from the foreign sector is the balancing item that fills the shortfall between domestic investment and domestic saving. Account 7 is the external, or foreign, sector capital account.

The United States has a rich set of monthly and quarterly indicators on both the income and the expenditure side of the U.S. accounts. As a result, while the U.S. national accounts are benchmarked to the U.S. benchmark input-output accounts every five years, the expenditure and income estimates in the quarterly and annual NIPAs are estimated independently from the annual production (value-added) estimates of GDP-by-industry and input-output estimates, which are in turn are benchmarked to each other but also estimated separately. The result is a set of interrelated accounts that are highly consistent with the current indicators of the economy normally associated with each set of estimates (such as the expenditure estimates and the current data from Census on trade sales, inventories, capital goods shipments, international trade, and corporate profits). This relationship is very important to U.S. financial markets, business analysts, and planners who focus heavily on the most recent data.

A number of countries—many with less current period indicators and direct measures—depend heavily on their input-output accounts to develop current period GDP and GDI estimates tied more directly to the production or value-added approach. The result is a highly consistent set of national accounts, but one in which current period estimates are based on fixed proportions of value-added to gross output by industry. This method may be inconsistent with direct measures of wages and profits or of final expenditures from monthly or quarterly indicators, which are likely to vary from month to month and quarter to quarter. Although lacking direct measures for these variables, it is often impossible to tell. Sometime after the initial estimates—often once-a-year—such countries balance their production accounts with their expenditure and income-based estimates.

The NIPAs feature the expenditure-based GDP and income-based GDI estimates mainly because BEA believes that the quality of the U.S. source data for expenditures and income are, in general, superior to the value-added estimates (mainly due to inadequacies in the data on intermediate inputs). Clearly, a better approach would be the joint estimation of the expenditure, income, and production (value-added) estimates on a concurrent basis using a methodology that weights the relative quality of the source data and methods used in each technique. This would produce a common and, presumably, more accurate set of estimates that is balanced on an ongoing basis and consistent over time.

#### 3. BEA's Other Flow Accounts

BEA international and regional accounts map into the NIPAs, providing further detail on the associated components that appear in the NIPAs. The concepts, source data, and methods used are generally consistent across the accounts, although there are still some differences and reconciliation tables are available to compare the alternative estimates. The remaining differences largely reflect the differing needs in these areas. These differences have been reduced over time, particularly in the international area, as a result of efforts to harmonize the IMF's balance of payments manual and SNA 1993.

# 4. BEA's Capital and Financial Accounts

BEA produces what SNA 1993 describes as capital stocks. These estimates include real, current-cost, and historical-cost estimates of reproducible household, business, and government wealth, including opening and closing net stocks, investment flows, depreciation, average age, and valuation adjustments. The estimates are available by type of asset, by sector, and by industry. They are all consistent with the NIPAs.

BEA also produces capital and financial accounts as part of its international accounts. Within the balance of payments, the current account records flows of goods and services, income, and transfers, while the capital account records transactions related to tangible assets—such as the transfer of the assets of the Panama Canal to Panama. The financial account records changes in U.S. international assets and liabilities, and the international investment position displays the year-end levels for those assets and liabilities.

# **5. BLS Productivity Estimates**

The NIPAs and the associated industry accounts contain many components of a production account, but they, like SNA 1993, lack a measure of capital services. The BLS multifactor productivity estimates address this gap and present estimates for the value of capital services based on imputed rental prices, as well as measures of labor services that adjust for differences in labor quality and measures of intermediate inputs, all within the structure of a neoclassical production function. The BLS multifactor productivity estimates build on the large body of work by U.S. researchers, notably Denison and later Jorgenson and his colleagues, that extended and reformulated the NIPAs in an attempt to better explain the sources of economic growth. The BLS accounts follow this tradition, and the estimates are largely consistent with the NIPAs.

#### 6. FRB Flow of Funds and Balance Sheet Accounts

The NIPAs and BEA's wealth estimates contain stock and flow data on reproducible wealth by sector. BEA's balance of payments accounts contain stock and flow data on international financial assets and liabilities, but neither accounts contain data on domestic financial assets and liabilities. The FRB takes these data and adds estimates on domestic financial assets and liabilities and changes in those balances to create the flow of funds and balance sheet accounts. These accounts are generally consistent with the NIPAs, with the balance of payments accounts, and with the wealth accounts and cover most of the economy.

# 7. Overview of the International System of National Accounts

SNA 1993 is a highly articulated integrated accounts structure that is the international guideline for national accounts around the world. The accounts are jointly sponsored by the UN, IMF, the Organisation for Economic Co-operation and Development (OECD), and the European Union (EU). As shown in Table 2, they present flow and stock information similar to that presented in the U.S. accounts. The structure of SNA 1993 differs from the U.S. accounts mainly with respect to its focus on the production account, the degree of consolidation, and its sectoring.

Whereas the U.S. accounts feature GDP as measured by the expenditure approach, the SNA 1993 structure features value-added measurement as estimated by the production approach. Like the NIPAs, it then details the distribution of the incomes earned in production by sector and details the sources and uses of those funds. The familiar GDP as measured by C+I+G+(X-M) is not presented, except in a disaggregated fashion in the auxiliary goods and services transactions accounts. In practice, while most countries (as described above) use the production approach in estimating value-added output and GDP, when reporting national accounts estimates and GDP estimates, countries—and organizations including the UN, OECD, and IMF—feature GDP and its expenditure components, which are balanced to their production-based estimates, in their presentations of the national accounts. Also, most countries do not produce all of the highly detailed information specified by SNA 1993.

<sup>2 ~</sup> 

<sup>&</sup>lt;sup>2</sup> See Denison (1967), Jorgenson (1996b), and Christensen and Jorgenson (1996).

The U.S. accounts differ from SNA 1993 in that they are more consolidated. SNA 1993, for example, presents households incomes in several separate accounts (generation of income, allocation of primary income, secondary distribution of income, redistribution of income, and use of income accounts). In NIPA account 3, the personal income and outlay account, all sources of personal income are consolidated. For example, wages, salaries, dividends, taxes, and transfer payments are all included in the consolidated personal income and outlay account. There are also counter entries for these transactions in the other sectoral accounts (private enterprise, government, and foreign).

Finally, the U.S. accounts differ from SNA 1993 in sectoring. SNA 1993, for example, breaks out nonprofit institutions serving households (NPISH) from households. The U.S. accounts are moving in this general direction, in this area, with the introduction of such a separation in the 2003 comprehensive revision. BEA introduced separate estimates of the income and outlays of the households and of the NPISHs. However, in other areas, institutional arrangements in the United States suggest that current BEA definitions are better suited for the U.S. than SNA 1993.

# 8. Evolution of the U.S. National Income and Product Accounts: Responses to Changes in the Economy and Policy Needs

Prior to the development of the NIPAs, policymakers had to guide the economy using limited and fragmentary information—such as stock prices, freight car loadings, and incomplete indexes of industrial production—about the state of the economy. The Great Depression and the growing role of government in managing the economy during World War II underlined the problems of incomplete data and led to the development of the national accounts.

In response to the lack of economic data in the 1930's, the Department of Commerce commissioned Nobel laureate Simon Kuznets to develop national income estimates which later evolved into a set of national economic accounts. This work was a coordinated effort with the National Bureau of Economic Research (NBER) and the Conference on Research in Income and Wealth (CRIW) was founded—with Simon Kuznets as its first Chair—to assist in the formation of the accounts. Kuznets headed a small group within the Bureau of Foreign and Domestic Commerce's Division of Economic Research. Kuznets coordinated the work of researchers at the NBER in New York and his staff at Commerce. The original set of accounts was presented in a report to Congress in 1934 and in a research report, *National Income*, *1929–32*.

Early in 1942, annual estimates of gross national product (GNP) were introduced to complement the estimates of national income and to facilitate wartime planning. Wartime planning needs also helped to stimulate the development of input-output accounts. Nobel laureate Wassily Leontief developed the U.S. input-output accounts that subsequently became an integral part of the NIPAs. In commenting on the usefulness of the national accounts, Wesley C. Mitchell, Director, NBER, said: "Only those who had a personal share in the economic mobilization for World War I could realize in how many ways and how much estimates of national income covering 20 years and classified in several ways facilitated the World War II effort."

Over time, in response to policy needs and changes in the economy, the accounts have been expanded to provide quarterly estimates of GDP and monthly estimates of personal income and outlays, regional accounts, wealth accounts, industry accounts, and expanded international accounts.

In the 1940's, World War II planning needs were the impetus for the development of product or expenditure estimates (at that time gross national product). By 1947, the accounts had evolved into a consolidated set of income and product accounts, providing an integrated birds-eye view of the economy. In the late 1950's and early 1960's, interest in stimulating economic growth and in the sources of growth led to the development of official input-output tables, capital stock estimates, and more detailed and timely state and local personal income estimates. In the late 1960's and 1970's, accelerating inflation prompted the development of improved measures of prices and inflation-adjusted output.

In the 1980's, the internationalization of trade in services led to an expansion of the estimates of international trade in services in the NIPAs. In response to rapid technological innovation and the increasing importance in computers—and problems in measuring their prices—BEA did pioneering work with IBM in the development of quality-adjusted price and output measures for computers. In the 1990's, BEA introduced more accurate chain-weighted measures of prices and inflation-adjusted output, developed estimates of investments in computer soft ware, and incorporated updated measures of high-tech products and banking output.

BEA has continued to update its accounts in recent years, developing more accurate measures of changing aspects of the economy ranging from finance and insurance to corporate profits and pensions. BEA has worked to improve the accuracy, expand the scope, and improve the timeliness of BEA's industry (production-based) accounts. Finally, BEA has—as noted above—changed the basic national accounts structure to increase international comparability and to provide expanded information in an easier to use format.

In general, most observers reviewing the history of the accounts have concluded that the basic structure and concepts are sound and that the Department of Commerce and BEA have done a good job of updating the accounts to keep pace with changes in the economy and in policy needs. As Federal Reserve Board Chairman Alan Greenspan said in reviewing the history of the accounts:

"...the Department of Commerce has treated the national income accounts, and specifically the GDP, as living documents; that is, an endeavor to recognize that the American economy is continuously changing. Its nature is being altered by technology and all sorts of other institutional effects. And as a result, how one measures the notion of what is the market value of goods and services produced, of necessity, has been changing over the years. And I must say that it is really quite impressive the extent to which the Department of Commerce has been able to keep up with the various changes that have evolved."

# 9. Remaining Challenges

Although over time the accounts have mainly addressed users' needs, there have been gaps relating to scope, to integration, and to non-market goods and services. As economists attempted to chronicle and analyze the sources of economic growth in the post-WWII era, it became clear that important sources of economic growth were omitted from the accounts. The accounts were directed more to issues of Keynesian fiscal policy than to accounting for the sources of growth. As a result, the focus was on expenditure and income flows with limited focus on capital inputs and capital stocks.

Lacking complete data from the NIPAs, Denison, Jorgenson, Griliches, and other researchers used the national accounts data on income shares, investment, and other information to build a rich set of data and analytical findings on the sources of economic growth. As noted above, the BLS multifactor productivity

\_

<sup>&</sup>lt;sup>3</sup> December 7, 1999 press conference in Washington, DC. Full remarks were reprinted in Landefeld (2000).

estimates built upon this important work and developed a comprehensive and consistent official framework and data set for the analysis of productivity growth.

The BEA NIPA and industry account data and the BLS productivity data are widely used to study economic growth, productivity, and structural change. The general picture of economic activity is consistent regardless of which data sources are used, but there are some differences. These differences largely arise from the disparate purposes for which the data are constructed, which are reflected in agency choices on methodology, coverage, and index number procedures.

For example, within the BEA sets of accounts, the current period NIPAs, as noted above, are—except for benchmarking—estimated independently from the annual production-based input-output accounts and GDP-by-industry. This independence reflects decisions about the focus of each of the accounts, the quality of the underlying source data, and the need for each set of accounts to be consistent with its own set of methods and current indicators—Census data in the case of the input-output accounts and income data in the case of the GDP-by-industry accounts. The resulting set of accounts are less accurate and consistent than they might otherwise be and present differing results to researchers depending on which account's data is used. Examples of complications include uncertainty in budgeting, in monetary policy, and in business planning or analyses of sources of growth across industries during the latter half of the 1990's when trend growth using the income approach exceeded that derived using the expenditure approach.

Further variations between BEA and BLS data also reflect differences in the focus of each series. BEA strives to provide complete and consistent coverage of the entire economy in the NIPAs, whereas BLS primarily seeks to achieve maximum reliability in its various measures of productivity. These differing goals are not necessarily inconsistent with one another, since both require reliable output and input measures, but they can lead to differences in definition and coverage as well as in methodology. BEA covers all industries, even those for which output measures are sometimes at best tenuous. BLS, on the other hand, can focus on those industries for which measures are quite robust.

Part of the differences, especially at detailed industry levels, also reflects different choices for underlying source data and aggregation techniques. For example, BEA uses a Fisher index-number formula to aggregate components of the NIPA price and quantity indexes consistently, decomposing the nominal change in GDP. BLS, on the other hand, uses a Tornquist index to aggregate components of its multifactor productivity accounts because it is an exact and superlative index that matches the econometric and statistical properties needed for multifactor productivity analysis. BEA and BLS use depreciation formulas that can differ for specific industries and types of assets. Until the recent NIPA comprehensive revision, moreover, BEA and BLS defined the business sector differently to suit their particular needs.

In general, the quantitative importance of the differences caused by dissimilarities in index number formula and depreciation method is small, and the change in the BEA definition of the business sector has removed the sometimes significant differences in growth rates caused by the old definitional difference for that sector. As Diewert and others have shown, all superlative numbers closely approximate each other. Even over long periods, indexes produced by Tornquist and Fisher indexes are identical to the 5<sup>th</sup> decimal place. Differences in depreciation rates can have an effect on capital services and multifactor productivity, but even the large

-

<sup>&</sup>lt;sup>4</sup> See for example the Council of Economic Advisers (1997), Office of Management and Budget (1997), and Congressional Budget Office (1997).

<sup>&</sup>lt;sup>5</sup> See Diewert (1978).

changes in depreciation for non-residential buildings introduced by BEA and BLS in 2001 had extremely small effects on capital inputs and multifactor productivity. In addition, BLS and BEA work together to ensure consistency in depreciation rates.<sup>6</sup>

Most of the significant differences between the BEA and BLS estimates are the result of decisions made over time by individual analysts regarding source data, mainly for price deflators rather than any agency views regarding the use of hedonics, or other broad methodological issues. Indeed, most of the differences between BEA and BLS estimates for manufacturing industries were eliminated by a concerted effort in recent years to agree on common deflators for industries where real growth rates differed. However, there are remaining differences in selected manufacturing industries and in a number of nonmanufacturing industries.

These remaining differences between the BEA and BLS estimates have led many researchers to construct their own measures of productivity, particularly for studying the "new economy" of the late 1990's. Results of these studies have sometimes differed significantly, depending partly on data sources and the level of detail provided, leading to differing interpretations of the sources of productivity growth. For example, Nordha us (2002) found faster labor productivity growth for the non-farm business sector using BEA's value-added by industry data rather than the official BLS measure. Baily and Lawrence (2001), also using BEA's value-added by industry data, and Stiroh (2002), using BEA's gross output by industry data, concluded that the post-1995 productivity acceleration had spread from information technology (IT) producing industries to IT-using industries. Gordon (2001), however, questioned whether such a spillover actually occurred after finding conflicting evidence from several BEA and BLS output measures. Triplett and Bosworth (2004) have documented how productivity estimates may differ significantly for broad sectors and for individual industries, depending upon whether BEA or BLS data are used. These differences can hinder integrated analysis of the sources of productivity growth. Divergences in the data force researchers to either choose one set of estimates over the other, or to develop their own estimates.

Similar issues arise regarding differences between BEA's and the FRB's measures of saving and each agencies' measure of wealth stocks. BEA's and the FRB's measures of saving and wealth stocks are developed in concert, and taken as a whole, they both provide consistent and integrated information on trends in saving and wealth. There are, however, important differences between the two series and issues in reconciliation. Similar to the differences between the BEA and BLS, many issues relate to the different purposes for which the data are used. For example, the FRB definition of saving includes saving in the form of purchases of consumer durables. The NIPAs do not, largely because this definition would logically require the treatment of consumer durables as investment and require the estimation of the capital services from these consumer durables, as well as the further step of a full household production account that measures household labor as well as capital services.

These and other statistical and methodological differences between the two agencies' data have led economists to generate their own series. In the early 1980's, Ruggles and Ruggles developed an integrated version of the NIPAs and flow of funds accounts. More recently, Gale and Sablehaus (1999) made adjustments to the BEA and FRB data to create an alternate definition of savings in order to analyze the decline in U.S. saving over the last decade. These adjusted measures showed that saving had fallen less than the official measures and the sectoral composition of the decline was different. Their analysis also underlined the importance of an integrated presentation of saving, capital gains, and other changes in household wealth.

<sup>&</sup>lt;sup>6</sup> See Bureau of Labor Statistics (2001).

<sup>&</sup>lt;sup>7</sup> Jorgenson, Ho, and Stiroh (2005) use a hybrid of BEA and BLS data to construct estimates of productivity.

# 10. Expanding the Boundary of the Accounts

Over the years, researchers interested in issues other than the sources of growth have advocated and developed expanded and better integrated sets of accounts. Kendrick (1961), Ruggles and Ruggles (1982), and Eisner (1989) extended the NIPAs to better analyze business, household, and governmental decisionmaking. This section discusses the various extensions of the existing accounts required to meet some of the needs raised by these researchers and those raised by the needs of researchers interested in the sources of economic growth.

# 10.1 Expanded Price and Quantity Measures

BEA's accounts are presented in nominal and real terms, but the presentation is incomplete. A complete production account requires price and quantity measures for all stocks and flows. The NIPAs present prices and quantities for output (expenditures, gross output), intermediate inputs, certain assets (residential and nonresidential fixed capital, inventories, consumer durables, and government fixed capital), and selected income aggregates (gross domestic income, gross national product, and disposable personal income). What is missing—for a complete production account and other purposes—is price and quantity measures for all factor inputs (all components of labor and capital income and of value-added), saving, and financial assets and liabilities.

The problem with developing such price and quantity measures has been the absence of clear conceptual or empirical guidance on the appropriate deflators for these measures. For goods sold in markets, there are observable prices per unit, but what is the appropriate per unit price for corporate profits, or saving? Alternatively, while one can measure the price of residential houses to deflate the nominal value of the fixed stock of residential structures, what price should be used to deflate the value of corporate equities? One answer has been to use some form of a purchasing power index. BEA, for example, deflates the value of disposable personal income with the price index for consumer spending. Deflating other incomes, however, is more difficult. Deflating corporate profits, for example, might require a weighted average of the deflators for consumer spending (dividends), fixed and inventory investment (retained earnings), and government (taxes).

#### 10.1a Consumer Durables, Government, and Nonprofit Capital Services

Other required components for a complete production account, as well as expanded accounts for the analysis of household and government, are (1) the capitalization of investments in consumer durables and the addition of a service value from these consumer durables and (2) the addition of a complete service value for government and nonprofit fixed assets.

In the existing accounts (SNA 1993 and the NIPAs), investments in consumer durables are treated as current consumption, despite the fact that—like investments by business—they yield a flow of benefits over time. The rise in motor vehicle leasing has further highlighted this inconsistency. If, for example, a vehicle is leased by a household, it is treated as investment in the year it is purchased—by the leasing company—and then yields a flow of capital services (rental payments) that add to GDP over the term of the lease. In contrast, if the car is purchased by the household it is treated as consumption in the year it is purchased, and there is no additional flow of capital services over the life of the car.

The inconsistency related to government capital is similar. While the existing accounts do treat government expenditures on capital goods as investment, they include only a partial value for the services of government

capital by counting the value of depreciation on government capital (no value is included for the services of nonprofit capital). In theory, the value of any capital service should be at least equal to the rent that would have to be paid to the owner of an asset: the return that the owner could make if the current market value of the asset were invested elsewhere, or the compensation to the owner for the decline in the value of the asset due to its use in production. The present treatment of government capital implicitly assumes that the net return to government capital is zero, despite a positive opportunity cost. (And the treatment of nonprofits assumes no service value, net return, or depreciation.)

If leasing markets and data were complete then including complete service values for consumer durables and government would not be difficult. BEA already has estimates of capital stocks and depreciation and could use market rents to estimate the implicit return to apply to the net stocks of capital. However, the absence of such data means that the net return to the capital stock must estimated and added to depreciation to develop a service value. This estimation raises conceptual issues relating to the appropriate opportunity cost and empirical issues in estimating this cost.

There is a longstanding debate in the economic literature on the opportunity cost of government capital, which includes suggestions to use the household rate of return, the government borrowing rate, the rate of return to business, or some weighted average rate. Also, there are significant empirical difficulties in determining the appropriate values for these alternative rates. What government borrowing rate, for example, should one use—short-term rates, long-term rates, or some weighted average and over what time period?

As a result of this uncertainty, many researchers have simply picked a rate, applied it to the net stock of capital and added depreciation to estimate the return. The resulting indirectly estimated service values tend to move in line with movements in the capital stocks and tend to smooth movements in GDP. Such imputations are considered an undesirable characteristic to business, tax, and other analysts interested in movements in the business cycle and the "cash" components of the economy.

An example of how the inclusion of non-market transactions influence the national accounts can already be seen in the current calculation of GDP. One of the largest non-market activities included in GDP is owner-occupied housing, the rent that owners "pay" themselves to use their property. Although market rents are available, the imputation methodology results in a series that moves roughly in line with the growth in the stock of housing. Owner-occupied housing is a large addition to market sector GDP (as would be an imputed rent for consumer durables), has ranged in size from 5 to 8 percent of GDP since 1960, and has experienced less volatility in real growth than GDP. During quarters of recessions between 1960:I and 2003:IV (quarters of recession as defined by NBER), GDP declined 1.6 percent on average while implicit housing grew 3.6 percent. Excluding owner-occupied housing, GDP during recessionary quarters would have declined by 1.9 percent, 0.3 percent more decline than stand alone GDP. During the expansions of the same time frame (1960:I-2003:IV), owner-occupied housing moderated growth. Stand alone GDP grew 4.2 percent on average. Excluding owner-occupied housing, GDP would have grown 4.3 percent. Volatility also decreases by including owner-occupied housing in GDP. Absolute quarter-to-quarter change in real growth is lower for stand alone GDP at 3.3 percent versus 3.5 percent if owner-occupied housing is excluded.

Because of this smoothing effect and the uncertainty regarding the appropriate rate of return, the solution for non-business capital services may be the initial introduction of supplemental, or satellite, accounts estimates

\_

<sup>&</sup>lt;sup>8</sup> This is a simplified view of the service value for an asset, as noted below, the formula for the service value becomes more complicated when taxes and capital gains and losses are considered.

accompanied by further research and data collection of market rental values. Ultimately, after experimenting with different source data and methods and after vetting by users, hybrid estimates—that utilize a mix of market and imputed returns—could be integrated into an expanded set of core accounts.

# 10.1b Valuing Output in Both Consumers and Producers Prices

Sales, excise, and other taxes charged against output (output taxes) drive a wedge between the prices paid by consumers and the prices for the same products received by producers. Analysis of production or expenditures suggests that the valuation of output and expenditures should be done using the prices each of these sets of economic actors confront. SNA 1993 recommends this treatment, with industry and sectoral output value at the prices received by producers (what they call basic prices, or market prices less output taxes) and final expenditures at the market prices (including output taxes) confronted by consumers, investors, and government.

While BEA's input-output accounts decompose sectoral and industry output into producer and purchases prices, the GDP-by-industry accounts value industry and sectoral output at market prices. This treatment is largely motivated by a desire to completely—in one step—decompose GDP, which is valued at market prices. Given BEA's new procedures (described elsewhere in this volume) of estimating and producing consistent annual I-O and GDP estimates that are available simultaneously, sectoral and industry estimates are now available on both basis. An aggregate production account using the NIPAs, however, requires deducting output taxes from consumption and each of the other components of GDP to transform it from an expenditure to a production account valued at producer prices.

# 10.2 Decomposition of Proprietor's Income into Labor and Capital Components

The NIPA's present a single estimate for proprietor's income with no decomposition of the return to the proprietor for his or her labor and the return to the capital invested in the business. A complete production account, however, requires the decomposition of returns from production into labor and capital. The difficulties with developing such a breakdown are twofold. First, proprietors do not breakdown their income and report the total amount as business income to the tax and statistical authorities. Second, indirect estimates that apply average wages to estimates of hours worked by self-employed persons or capital returns to estimates of capital stocks employed by proprietors result in either negative returns to capital or labor depending upon which imputation is estimated first. The reasons for this are not clear, but may be related to the extent to which proprietors underreport income to tax and statistical authorities, problems in measuring hours worked and capital invested by the self-employed, and the non-pecuniary benefits of self employment.

Better data on proprietor income will have to await improvements in the reporting of self-employment income and hours, but in the meantime various methods can be employed to produce estimates that correctly capture the rough order of magnitude of labor and capital income and changes in these returns. The BLS in their productivity estimates assume that proprietor's labor and capital returns are distributed in the same proportions as in the corporate sector. In the estimates presented below, wages specific to the characteristics of the self-employed are employed, and the resulting residual for capital is lower than average returns to capital, but still positive.

# 10.3 R&D and Other Intangibles, Human Capital, and Other Expansions

Other important expansions to the accounts are human capital (Jorgenson and Fraumeni 1996a, Eisner 1989, and Kendrick 1961) research and development (Christensen and Jorgenson 1996, Eisner 1989), and natural resources (Wright 1990). More recent work (Hall and Hall 1993 and Corrado, Haltiwanger, and Sichel 2005)

has also pointed to the importance of counting the value of management innovations and other intangibles. While it is clear that all of these assets are important to growth, investment in these assets are normally made by the individuals or the firms that use the capital and the "finished" assets are rarely bought and sold. The result is that although these are all economic assets that are "produced" by markets they are often regarded as non-market assets because there are no significant third-party markets and associated market prices for these assets that can be used to value either the assets or services provided by these assets.

As is the case with consumer durables and government capital, what is needed is the development of an expanded set of satellite accounts that include R&D and other intangibles, human capital, and natural resources accompanied by a research program to improve the valuation basis for these expanded accounts.

# III. Measuring Economic Activity in the Non-market Sector

#### 1. Economic vs. Welfare Accounts

Since the founding of the U.S. national accounts, there has been an ongoing debate regarding the treatment of natural resources and the environment, as well as the treatment of a whole set of broader welfare-based measures of economic and social progress, including some of the items discussed above. One school, exemplified by Kuznets (1946), favored development of a much broader set of welfare-orientated accounts that would focus on sustainability and address the externalities and social costs associated with economic development. Another, exemplified by Jaszi (1971), insisted that the national accounts must be objective and descriptive and thus based on observable market transactions. Jaszi felt that, conceptually, the accounts should be extended to treat the economic discovery, depletion, and stocks of natural resources symmetrically with plant and equipment and other economic resources. The absence of observable market transactions and the subjectivity associated with such estimates led him to conclude, however, that they should not be included in the accounts. As a result—as described above—analysts such as Jorgenson et al. developed their own extensions to the accounts for production analysis—as opposed to welfare analysis.

In the 1960's and early 1970's another more environmentally focused move to broaden the accounts arose out of concern about environmental degradation and fears that the world was running out of resources and approaching the "limits to growth." Externalities associated with economic growth also prompted renewed interest in broader social accounting. Work by Nordhaus and Tobin (1973), among others, on adjusting traditional economic accounts for changes in leisure time, disamenities of urbanization, exhaustion of natural resources, population growth, and other aspects of welfare produced indicators of economic well-being. However, the seemingly limitless scope, the range of uncertainty, and the degree of subjectivity involved in such measures of non-market activities limited the usefulness of and interest in these social indicators. It was felt that inclusion of such measures would sharply diminish the usefulness of traditional economic accounts for analyzing market activities. Attention subsequently focused on more readily identifiable and directly relevant market issues, such as the extent to which expenditures that relate to the protection and restoration of the environment (and other so-called defensive expenditures) are identifiable in the economic accounts.

#### 2. Satellite Accounting

<sup>&</sup>lt;sup>9</sup> See Meadows et al. (1972) which summarizes the running out of resources. In addition, Nordhaus and Tobin (1973) discuss the broader issue of the measurement of economic growth.

The development of the UN system of environmental and economic accounting (SEEA) and the use of supplemental, or satellite, accounts went a long way towards resolving the long-standing impasse between those who advocated broader sets of accounts and those concerned with maintaining the usefulness of the existing economic accounts. The supplemental accounts allowed conceptual and empirical research to move forward with estimates that can be linked to the existing accounts without diminishing their usefulness. Satellite accounts are also useful in expanding the level of detail of certain sectors or broadening the definition of an industry. For example, transportation appears much smaller in the national accounts than that actual industry since many companies own their own trucking fleet or other delivery system and transportation is often times not a final product.

The SEEA is a flexible, expandable satellite system. It draws on the materials balance approach to present the full range of interactions between the economy and the environment. This accounting approach attempts to take inventory of assets or stocks by measuring initial levels and tracking additions to or subtractions from those levels. The SEEA builds on, and is designed to be used with, SNA 1993.

#### 3. Integrated Economic and Environmental Satellite Accounts (IEESA)

In the 1990's, BEA presented a prototype integrated economic and environmental satellite account (Landefeld, Carson, et al. 1994). <sup>10</sup> In constructing this account, BEA built on several key lessons from the social accounting experience of the 1970's and on the framework of the SEEA. First, such accounts should be focused on a specific set of issues. Second, given the kind of uses to which the estimates would be put, the early stage of conceptual development and the statistical uncertainties (even if the estimates are limited to the environment's effects on market activities), such estimates should be developed in a supplemental, or satellite, framework. Third, such accounts should not focus on sustainability or some normative objective but should cover those interactions that can be tied to productive market activities and valued using market values or proxies thereof. Fourth, in keeping with the focus of the existing accounts, the supplemental accounts should be constructed in such a manner as to be consistent with the existing accounts and thus allow analysis of the effects of the interactions between the environment and the economy on production, income, consumption, and wealth. Tables 3 and 4 show the structure of BEA's IEESAs.

The existing economic accounts do not provide normative data and neither did the integrated economic and environmental accounts developed by the BEA. They would describe activities which bear upon the market in the monetary terms of the market, without implying any conclusions about whether the reflected situation is "right." The IEESAs were designed to either report market values or proxies for market values. If a problem with property rights leads to the under-valuation and overexploitation of a resource, a set of integrated economic accounts will not reveal the right price or the correct level of stocks. However, they will provide the data for objective analysis of the problem for items such as the changes in the value of stocks or the share of income to be attributed to a resource. Integrated economic and environmental accounting aims to provide a picture of the interactions between the economy and the environment, including uses of resources and feedback effects.

1

<sup>&</sup>lt;sup>10</sup> In addition to the IEESAs, BEA has developed satellite accounts in a number of other areas including household production (Landefeld and Howell 1997), research and development (Fraumeni and Okubo 2005), tourism (Okubo and Planting 1998), transportation (Fang, Han, Okubo, and Lawson 2000), and ownership based accounts for international transactions (Landefeld, Whichard, and Lowe 1993).

In accordance with the first criterion, BEA limited the IEESAs to those interactions that directly affect the economy and are thus relevant to the objective of economic accounts. From this standpoint, the environment can be thought of as consisting of a range of natural resource and environmental assets that provide an identifiable and significant flow of goods and services to the economy. The economy's uses of these productive natural assets and the goods and services they provide can be grouped into two general classes. When use of the natural asset permanently or temporarily reduces its quantity, this is viewed as involving a flow of a good or service, and the quantitative reduction in the asset is called depletion. When use of the natural asset reduces its quality, the qualitative reduction in the asset is called degradation. However, the use of natural assets describes only part of the interaction between the economy and the environment. There are also feedback effects, such as the reduction in the future yield of crops, timber, fisheries etc. from current pollution or overharvesting. Materials balance and energy accounting highlight both the use of the natural assets and the feedback effects from the use; thus, they capture the full interaction between the economy and the environment. In the case of environmental assets, feedback is more complicated, with effects that often fall on other industries and consumers. While this picture has numerous elements and is complex, by definition it does not cover many of the transformations and interactions within the environment itself, for example, the disposal of waste products from wild fish and mammals or the conversion of natural carbon dioxide into oxygen by plant matter on land and in the oceans.

In accord with the second criterion, the IEESAs had two main structural features. First, natural and environmental resources are treated like productive assets and only the economically productive aspects of the resources are considered. These resources, along with structures and equipment, were treated as part of the nation's wealth, and the flow of goods and services from them is identified and their contribution to production measured. Second, the accounts are designed to provide substantial detail on expenditures and assets relevant to understanding and analyzing the production process. Fully implemented IEESAs would permit identification of the economic contribution of natural and environmental resources by industry, by type of income, by product, and ultimately by region.

BEA's decision to treat natural and environmental resources like productive assets in the IEESAs was based on their similarity to man-made capital for labor and materials in that they are devoted to producing fixed assets and then yield a flow of services over time. Inventories, on the other hand, are stocks held pending further processing, sale, delivery, or intermediate use.

The distinction between fixed assets and inventories is not always clear. Proved mineral reserves may seem to be similar to inventories since they are a set number of units waiting to be used up in production. Yet, they also fit the classic characteristics of fixed capital expenditures in that materials and labor are needed to produce ("prove") them, and they yield a stream of product over long periods of time. Further, like a fixed asset such as a machine, the number of units extracted from a new mine or field is uncertain and varies over time and over the service life used up in production. Finally, the treatment of mineral reserves as fixed assets serves equally well as a reminder of the reproducibility of proved reserves.

The valuation basis for the IEESAs is market prices or proxies thereof. While alternative methods such as maintenance cost and contingent valuation have attractive theoretical characteristics, they are not appropriate for BEA 's purpose, and the associated practical difficulties outweigh their pluses. In keeping with the goals and criteria stated above, market pricing was the optimal choice for the IEESAs. First, market pricing maintains objectivity by avoiding the biases that may be inherent in "willingness to pay" surveys. Second, market pricing is consistent with conventional accounts, as well as the SEEA, and facilitates international comparability.

Finally, market pricing is consistent with the limits placed on included interactions because it values those interactions from the perspective of the market.

# IV. What Is Now Required

# 1. Building an Integrated and Consistent System of National Accounts

The foregoing review identifies a clear need to update, integrate, and extend the U.S. system of national accounts. Our first and most important objective is to make the NIPAs consistent with the accounts for productivity compiled by BLS and the flow of funds accounts constructed by the FRB. The boundaries of production, income and expenditures, accumulation, and wealth accounts must be identical throughout the system in order to achieve consistency. Development of a fully integrated and consistent system of accounts will require close collaboration among BEA, BLS, and the FRB, as well as coordination with Census, the most important agency for generating primary source data.

This section lays out a blueprint for revamping the U.S. national accounts that builds directly on the new seven-account NIPA framework and the work of Jorgenson, et al., as well as the estimates presented in the 2003 benchmark revision of the NIPAs. While this blueprint does not include non-market extensions to the accounts, it could be extended to near-market and non-market sectors along the lines outlined by Abraham and Mackie (2005) and Nordhaus (2005). Building on the lessons of the past, any such extension should be in the form of satellite, or supplementary, accounts. These accounts could then focus on non-market goods and services that contribute to production, can be valued in market prices, and are consistent with the economic concepts in the existing accounts.

Our initial goal is to integrate the BLS multifactor productivity measures with the production account of the NIPAs, as proposed by Fraumeni, et al. (2005). Following BEA, our measure of output represents the GDP, while our measure of input corresponds to GDI. The GDP is given in current and constant prices, as in the NIPAs, while GDI is given in current and constant prices, as in the BLS productivity accounts. Multifactor productivity is defined as the ratio of GDP to GDI in constant prices. This re-formulation of the production account has been advocated, historically, by Denison (1967) and Christensen and Jorgenson (1996). More recently, the proposal has been supported by Hill (1999), Jorgenson (2001), and Moulton (2004).

The major challenge in implementing a consistent and integrated production account is the construction of a measure of GDI in constant prices. SNA 1993 and BLS (1993) have provided appropriate measures of the price and quantity of labor services. These can be combined with the price and quantity of capital services introduced by BLS (1983) to generate price and quantity indexes of GDI, as well as multifactor productivity. The primary obstacle to constructing capital service measures is the lack of market rental data for different types of capital. Although rental markets exist for most types of assets, such as commercial and industrial real estate and equipment, relatively little effort has been made to collect rental prices, except for renter-occupied housing.

An alternative approach for measuring rental prices, employed by BLS, is to impute these prices from market prices for the assets, utilizing the user cost formula introduced by Jorgenson (1963). This requires estimates of depreciation and the rate of return, as well as asset prices. Measures of asset prices and depreciation, as well as investment and capital stocks, are presented in BEA's (1999) reproducible wealth accounts. BLS has generated estimates of the rate of return by combining property income from the NIPAs with capital stocks derived from

BEA's estimates of investment. BLS employs the imputed rental prices to weight accumulated stocks of assets in generating price and quantity measures of capital services.

Our second goal is to integrate estimates of tangible wealth and the U.S. international position into a wealth account for the U.S. economy. This balance sheet represents an extension and consolidation of the balance sheets for individual sectors given by Teplin, et al. (2005). Tangible wealth includes equipment, structures, inventories, and land in private business, household and government sectors. Consolidation of these sectors eliminates claims among the sectors and requires only U.S. claims on the rest of the world (ROW) and ROW claims on the U.S. in addition to tangible assets. Estimates of these claims are presented in the U.S. International Position, generated by BEA, so that the international accounts for the U.S. economy can be incorporated into our blueprint without alternation.

An important issue, discussed at length by Fraumeni and Okubo (2001) and Moulton (2004), is the appropriate treatment of consumer durables. Moulton (2004) endorses BEA's current practice of including this investment in the tangible assets accounts, but excluding the services of these durables from the GDP. Starting from the premise that the boundaries of production, income and expenditure, accumulation, and wealth accounts should be the same, we treat the services of consumers' durables as an output as well as an input in the production account. These services are also a source of income and a form of expenditures in the income and expenditures account.

Our proposed treatment of consumer durables has the advantage of accounting for owned and rented assets in the same way, following BEA's treatment of owner-occupied and renter-occupied housing. The principal disadvantage is that the scope of the GDP and the corresponding measure of GDI must be increased. The argument for this change is that BEA already compiles detailed accounts for investment and stocks of consumer durables as part of its accounts for reproducible assets. The only additional step required to make the accounts for housing and consumer durables fully consistent is to introduce imputed rental prices for consumer durables based on asset prices, like those employed in the BLS productivity accounts.

Similar, but distinct, issues arise for intangible forms of investment such as software and research and development. We follow SNA 1993 and the NIPAs in treating software as a form of investment, but extend this treatment by imputing a flow of services from stocks of software in household, government, and business sectors. This requires an extension of the scope of the GDP and the GDI for the output and input of capital services in the household and government sectors. While we could account for research and development in the same way, we follow Fraumeni and Okubo (2005) and Moulton (2004) in recommending that this be treated as part of a satellite accounting system until more satisfactory data are available on the prices of assets generated by research and development activities.

# 2. Blueprint for a Complete Accounting System

A schematic representation of our prototype accounting system is given in Figure 1. The complete accounting system includes a production account, incorporating data on output and input; an income and expenditures account, giving data on income, expenditures, and saving; and an accumulation account, allocating saving to various types of capital formation. A national balance sheet contains data on national wealth. The production, income and expenditures, and accumulation accounts are linked through markets for commodities and factor services. Finally, the accumulation accounts are related to the wealth accounts through the

accounting identity between period-to-period changes in wealth and the sum of net saving and the revaluation of assets.

The structure of our prototype system is similar to the NIPAs. The NIPAs currently present current price measures for outputs and inputs, but constant price measures only for outputs. The key innovation in the BLS accounts for multifactor productivity is to present both outputs and inputs in current and constant prices. Constant price measures of inputs and multifactor productivity are essential in accounting for the sources of economic growth. We also provide current and constant price measures of income and expenditures in order to account for the generation of income and its disposition as uses of economic growth. Finally, we present current and constant price measures of saving and capital formation to provide the necessary link between current economic activity and the accumulation of wealth.

Following the NIPAs, we generate a Domestic Income and Product Account for the U.S. economy, featuring GDP and GDI. Both GDP and GDI are presented in current and constant prices. The fundamental accounting identity is that GDP is equal to GDI in current prices. Multifactor productivity, a summary measure of economic performance, is defined as the ratio of GDP to GDI in constant prices. The interpretation of output, input, and productivity requires the concept of a production possibility frontier. <sup>11</sup> In each period the inputs of capital and labor services are transformed into outputs of consumption and investment goods. This transformation depends on the level of productivity.

The most important difference between our prototype system and the NIPAs is the creation of a consolidated Income and Expenditures Account. By consolidating the income and expenditures accounts for household, business, and go vernment sectors presented in the NIPAs, we obtain a single account presenting income and its disposition. This has the advantage of radically simplifying the accounts by excluding all transactions among the sectors. For example, the taxes paid by private business are expenditures by the business sector and sources of income to the government sector. In the consolidated Income and Expenditures Account, these tax payments cancel out.

For the Income and Expenditures Account the fundamental accounting identity is that income is equal to expenditures in current prices. Income includes labor and property income from the Domestic Income and Product Account, evaluated at market prices, income received from the rest of the world, net of income payments to the rest of the world, and net current taxes and transfers to the rest of the world. Expenditures include personal consumption expenditures, government consumption expenditures, and saving, net of depreciation. Income and expenditures are presented in current and constant prices in order to account for the generation of income and its disposition through expenditures and saving and uses of economic growth. The interpretation of these magnitudes in constant prices requires the notion of a social welfare function. <sup>12</sup>

Consumption expenditures in constant prices represent the current flow of goods and services for consumption, while net saving in constant prices corresponds to increments in the current period of future flows of consumption.

The Domestic Capital Account allocates saving to various forms of investment. The fundamental accounting identity is that saving is equal to investment in current prices. We take saving and investment in constant prices to be identical as well. Investment in constant prices is an essential link between current economic activity and the accumulation of stocks of capital. As in the Income and Expenditures Account, we radically simplify the

<sup>12</sup> This interpretation is developed by Samuelson (1961), Nordhaus and Tobin (1973), and Weitzman (1976, 2003).

21

<sup>&</sup>lt;sup>11</sup> This interpretation is developed by Jorgenson (1996), Jorgenson and Stiroh (2000), and Jorgenson (2001).

Domestic Capital Account by consolidating the capital accounts for household, business, and government sectors. Claims among the sectors cancel out, so that we present only investment in tangible assets and changes in the U.S International Position.

The Wealth Account completes the domestic side of our prototype system of U.S. national accounts. Our Wealth Account is consistent with the balance sheets for financial sectors presented by Teplin, et al. (2005). We have augmented these balance sheets by including all tangible wealth of business, government, and household sectors, as well as the U.S. International Position. The principal difference between our system of accounts for capital and wealth and SNA 1993 is that we have combined the SNA's capital and revaluation accounts into a single accumulation account. This account also includes period-to-period changes in wealth. Our treatment of consumer durables also differs from the international system. <sup>13</sup>

Although it will eventually be desirable to provide a breakdown of our prototype system of U.S. national accounts by industrial sectors, our initial blueprint is limited to aggregates for the U.S. economy as a whole. Disaggregating our production account by industrial sector will require a fully integrated system of input-output accounts and accounts for gross product originating by industry, as described by Lawson, et al. (2005). This can be combined with measures of capital, labor, and intermediate inputs by industry, like those presented by Jorgenson, et al. (2005), to generate production accounts by sector. <sup>14</sup> The principles for constructing these production accounts are discussed by Fraumeni, et al. (2005).

Our Foreign Transactions Current and Capital Accounts are identical to the NIPAs. Similarly, we incorporate the U.S. International Position from the NIPAs without modification. The income and expenditures, capital, and wealth accounts in our prototype system are limited to national aggregates. This has the advantage that transactions among domestic sectors are not required in accounting for income and expenditures and claims among domestic sectors are not required in accounting for capital formation and wealth. The basic similarities between our approach and current accounting practice can be recognized through our reliance on data from the most recent benchmark revision of the NIPAs, published in December 2003.

The first step in implementing an accounting system is to develop accounts in current prices. In section 3 we present production, income and expenditures, accumulation, and wealth accounts for the U.S. economy for 1948–2002. In section 4, we introduce accounts in constant prices with a description of index numbers for prices and quantities. Our accounts in constant prices begin with the Domestic Income and Product Account in section 5. The product side includes consumption and investment goods output in constant prices. The income side includes labor and capital inputs in constant prices. The ratio of real product to real input is multifactor productivity. In section 6 we give income and expenditures, accumulation, and wealth accounts in constant prices for the U.S. domestic economy and the rest of the world.

#### 3. Income and Wealth

#### 3.1 Introduction

The measurement of income and wealth requires a system of seven accounts. These must be carefully distinguished for the new system of seven accounts employed in presenting the U.S. National Income and Product Accounts (NIPAs). Our Domestic Income and Product Account provides data on the outputs of the U.S.

<sup>&</sup>lt;sup>13</sup> SNA 1993, 9.40, p. 208.

<sup>&</sup>lt;sup>14</sup> A system of production accounts for industrial sectors of the U.S. economy is given by Jorgenson, Gollop and Fraumeni (1987) and has been updated and revised by Jorgenson, Ho, and Stiroh (2005).

economy, as well as inputs of capital and labor services. Incomes and expenditures are divided between two accounts – the Income and Expenditures Account and the Foreign Transactions Current Account. Capital accumulation is recorded in two accounts – the Domestic Capital Account and the Foreign Transactions Capital Account. Finally, assets and liabilities are given in the Wealth Account and the U.S. International Position.

#### 3.2 Production Account

We implement the Domestic Income and Product Account for the U.S. domestic economy, including business, household, and government sectors. <sup>15</sup> In order to achieve consistency between investment goods production and property compensation we introduce imputations for the services of consumer durables and durables used by nonprofit institutions, as well as the net rent on government durables and government and institutional real estate. The services of these assets are included in the output of services, together with the services of owner-occupied dwellings; both also appear in property compensation. This assures that the accounting identity between the value of output and the value of input is preserved.

Gross Domestic Product is divided among non-durable goods, durable goods, and structures, as well as services, in the NIPAs. The output of durables includes consumer durables and producer durables used by governments and nonprofit institutions, as well as producer durables employed by private businesses. The output of structures includes government structures, private business structures, institutional structures, and new residential housing. The purpose of our imputations for the property compensation of governments, households, and nonprofit institutions is to provide a consistent treatment of investment goods output and property compensation throughout the system.

In the NIPAs the rental value of owner-occupied residential real estate, including structures and land, is imputed from market rental prices of renter-occupied residential real estate. The value of these services is allocated among net rent, interest, taxes, and consumption of fixed capital. A similar imputation is made for the services of real estate used by nonprofit institutions, but the imputed value excludes net rent. Finally, depreciation on government capital is included, while net rent on this capital is excluded. No property compensation for the services of consumer durables or producer durables used by nonprofit institutions is included. By imputing the value of these services and the net rent of government capital and real estate used by nonprofit institutions, we align the treatment of property compensation for these assets with that for assets used by private businesses.

We distinguish between taxes charged against revenue, such as excise or sales taxes, and taxes that are part of the outlay on capital services, such as property taxes. We exclude output taxes from the value of output, reflecting prices from the producers' point of view. However, we include taxes on input, since these taxes are included in the outlay of producers. Taxes on output reduce the proceeds of the sector, while subsidies increase these proceeds; accordingly, the value of output includes production subsidies. To be more specific, we exclude excise and sales taxes, business non-tax payments, and customs duties from the value of output and include other indirect business taxes plus subsidies. Our valuation of output corresponds to the value of output at basic prices in SNA 1993. The Domestic Income and Product Account for 2002 is presented in Table 5.

Gross Domestic Income includes income originating in private enterprises and private households and institutions, as well as income originating in government. We add the imputed rental value of consumer durables, producer durables utilized by institutions, and the net rent on government durables and real estate and

<sup>&</sup>lt;sup>15</sup> Our estimates are based on those of Jorgenson (2001), updated through 2002 to incorporate data from the 2003 benchmark revision of the U.S. national accounts.

institutional real estate, together with indirect taxes included in the value of these inputs. The value of capital inputs also includes consumption of fixed capital and the statistical discrepancy; consumption of fixed capital is a component of the rental value of capital services. The value of Gross Domestic Income for 2002 is presented in Table 5.

Product and income accounts are linked through capital formation and property compensation. To make this link explicit we divide Gross Domestic Product between consumption and investment goods and Gross Domestic Income between labor and property compensation. Investment goods production is equal to the total output of durable goods and structures. Consumption goods production is equal to the output of non-durable goods and services from the NIPAs, together with our imputations for the services of consumer and institutional durables and the net rent on government durables and real estate, as well as institutional real estate.

Property income includes the statistical discrepancy and taxes included in property compensation, such as motor vehicle licenses, property taxes, and other taxes. The imputed value of the services of government, consumer and institutional durables, and the net rent on government and institutional real estate are also included. Labor income includes the compensation of employees of private enterprises, households and nonprofit institutions, as well as government. The value of labor input also includes the labor compensation of the self-employed. We estimate this compensation from the incomes received by comparable categories of employees. <sup>16</sup> Gross Domestic Product, divided between investment and consumption goods output, and Gross Domestic Income, divided between labor and property income, are given for 1948-2002 in Table 6.

# 3.3 Income and Expenditures Accounts

We define Net Income as proceeds from the sale of factor services from the Domestic Income and Product Account, plus income receipts from the result of the world, less income payments, and net current taxes and transfers to the rest of the world, less depreciation. We define Net Expenditures as personal and government consumption expenditures from the Domestic Income and Product Account, evaluated at market prices, plus net saving. These expenditures exclude purchases of durable goods, but include the services of accumulated stocks of these durables. The value of Net Income for the year 2002 is presented in Table 7.

Consumption expenditures include personal and government expenditures on services and non-durable goods, together with our imputation for the services of consumer, institutional, and government durables and the net rent of institutional and government real estate. Purchases of consumer durables, included in personal consumption expenditures in the NIPAs, are excluded from expenditures and included in investment in the Domestic Capital Account described below. The value of personal and government consumption includes taxes and excludes subsidies on output, reflecting prices from the purchasers' point of view. The value of Net Expenditures for the year 2002 is presented in Table 7.

Income and expenditure accounts are linked through saving and the resulting property income. To make this link explicit we divide Net Income between labor and property income, net of depreciation, and Net Expenditures between net saving and consumption. Net income and expenditures in current prices for 1948-2002 are given in Table 8. Income is divided between labor and property income, net of depreciation, while expenditures are divided between personal and government consumption and net saving.

<sup>&</sup>lt;sup>16</sup> Details are provided by Jorgenson, Ho, and Stiroh (2005).

The Foreign Transactions Current Account in the NIPAs gives receipts from exports and income receipts from the rest of the world. This is balanced against outlays for imports, income payments, current taxes and transfers to the rest of the world, and the balance on current account. Receipts, outlays, and the balance on current account are presented for the year 2002 in Table 9. These data are given in current prices for 1948-2002 in Table 10.

#### 3.4 Accumulation Accounts

The NIPAs include a Domestic Capital Account that presents investment and saving. We implement this account by consolidating the accounts of business and government sectors with those of households and institutions. Financial claims on the business sector by households and institutions are liabilities of the business sector; in the consolidated accounts these assets and liabilities cancel out. Similarly, financial claims on the government sector by households and institutions cancel out.

Investment includes gross private domestic investment, government investment, and expenditures on durable goods by households and institutions, all evaluated at market prices, and the balance on current accounts. Net saving includes gross saving, as defined in the NIPAs, less consumption of fixed capital for households, institutions, and governments. Domestic saving and investment are given for 2002 in Table 11, together with the revaluation of fixed assets and the change in wealth. Domestic investment is presented in current prices for 1948-2002 in Table 12. Gross saving, depreciation, net saving, revaluation of assets, and the change in wealth are given in Table 13.

Our estimates of revaluations for net claims on foreigners are based on accounts at market prices included in the U.S. International Position. We estimate revaluations as the difference between the period-to-period changes in these stocks and the deficit of the rest of world sector. The NIPAs include a Foreign Transactions Capital Account that links net claims on foreigners to the balance on current account from the NIPAs. Data from the Foreign Transactions Account are given for 2002 in Table 14 and for the period 1948-2002 in Table 15.

# 3.5 Wealth Accounts

All of the accounts we have considered up to this point contain data on flows. The wealth accounts contain data on stocks. These accounts are presented in balance sheet form with the value of assets equal to the value of liabilities as an accounting identity. The Wealth Account includes the tangible assets of household, business, and government sectors and net claims on the rest of the world. The U.S. International Investment Position includes foreign holdings of U.S. domestic assets and U.S. holdings of foreign assets. The Wealth Account for 2002 is presented in Table 16, while the U.S. International Position for 2002 is given in Table 18. Annual data on domestic wealth for the period 1948-2002 are presented in Table 17, while the U.S. International Investment Position for this period is given in Table 19.

#### 4. Price and Quantity Indexes

#### 4.1 Introduction

We have presented data in current prices for our prototype system of U.S. national accounts in the preceding section. To express any accounting magnitude in constant prices we must separate the value in current prices between components associated with price and quantity indexes. Data in constant prices are associated with the quantity index, while the implicit deflator is associated with the price index. As an illustration, GDP in current prices in the Domestic Income and Product Account is the product of GDP in constant prices and the implicit

deflator for GDP. Similarly, GDI in current prices is the product of GDI in constant prices and the implicit deflator for GDI.

As a second illustration, income in current prices from the Income and Expenditures Account can be separated between income in constant prices and the implicit deflator for income. Similarly, the value of expenditures can be separated into price and quantity components. Market prices that include production and sales taxes are used in evaluating private and government consumption expenditures, reflecting the purchasers' perspective. We extend the price and quantity decomposition to saving and investment in order to link investment in constant prices to the change in wealth.

#### 4.2 Index Number Systems

To illustrate the construction of price and quantity index numbers we consider the value of output in the Domestic Income and Product Account. Suppose that m components of output are distinguished in the accounts; the value of output, say qY, can be written:

$$qY = q_1Y_1 + q_2Y_2 + \cdots + q_mY_m.$$

Our system of index numbers consists of a price index for output q and a quantity index for output Y, defined in terms of the prices  $(q_i)$  and quantities  $(Y_i)$  of the m components. We choose the base for all price indexes as 1.000 in 2000, following the December 2003 benchmark revision of the NIPAs. The base for the quantity indexes is the corresponding value in 2000.

Gross Domestic Product (GDP) is presented in current and constant prices in the NIPAs. The index number system is based on the Fisher ideal index, a geometric average of Laspeyres and Paasche index numbers. The Laspeyres index of quantity of output, say  $Y^L$ , is defined by:

$$Y_1^L = \frac{\sum q_{i0} Y_{i1}}{\sum q_{i0} Y_{i0}}.$$

The Paasche index uses current prices, rather than base period prices as weights:

$$Y_{1}^{P} = \frac{\sum q_{i1} Y_{i1}}{\sum q_{i1} Y_{i0}}.$$

The corresponding price index is obtained by dividing Gross Domestic Product in current prices by the Fisher ideal quantity index.

Landefeld and Parker (1997) provide a detailed exposition of the chained Fisher ideal price and quantity indexes employed in the NIPAs and Moulton (2000a) discusses the implications of this index number system. Erwin Diewert (1976) has defined a superlative index number as an index that exactly replicates a flexible representation of the underlying technology (or preferences). A flexible representation provides a second-order approximation to an arbitrary technology (or preference system). Konus and Byushgens (1926) first showed that the Fisher ideal index employed in the NIPAs is superlative in this sense. Laspeyres and Paasche indexes are not superlative and fail to capture substitutions among products in response to price changes.

The BLS multifactor productivity program employs a superlative quantity index for measuring real input that replicates a translog representation of technology:

$$\log Y_t - \log Y_{t-1} = \sum \overline{w}_{it} (\log Y_{it} - \log Y_{i,t-1}).$$

The relative share of the *i*-th output in the value of total output, say  $w_i$ , as:

$$w_i = \frac{q_i Y_i}{\sum q_i Y_i}.$$

The weights  $(\overline{w}_{it})$  are arithmetic averages of the relative shares in the two periods,

$$\overline{W}_{it} = \frac{1}{2} W_{it} + \frac{1}{2} W_{i,t-1}.$$

The corresponding price index is obtained by dividing the value of output by the translog quantity index. 17

In SNA 1993, superlative systems of index numbers like those employed in the U.S. national accounts are recommended for the output side of the production account. As the base period is changed from time to time, chain-linking of the resulting price and quantity indexes is recommended. Our index numbers are chain-linked Fisher ideal indexes of components from the NIPAs.

#### 4.3 Taxes

At a number of points we present data net and gross of taxes, reflecting differences between sellers and buyers that result from tax wedges. As one illustration, consumer expenditures on goods and services in the Income and Expenditures Account include sales and excise taxes, reflecting the purchasers' point of view. Sales of the same goods and services in the Domestic Income and Product Account exclude these taxes, reflecting the perspective of producers. The prices net of taxes are denoted basic prices in SNA 1993. We treat sales and excise taxes as part of the price paid by consumers, so that we can separate the value of transactions into three components—price, quantity, and tax rate.

To illustrate the construction of price, quantity, and tax indexes we consider the value of consumer expenditure as it enters the Income and Expenditures Account. Suppose that m components of consumer expenditure are distinguished in the account; the value of output, gross of tax, say  $q^+Y$ , may be written:

$$q^+Y = q_1^+Y_1 + q_2^+Y_2 + \dots + q_m^+Y_m.$$

The prices  $(q_i^+)$  include sales and excise taxes; the quantities  $(Y_i)$  are measured in the same way as in the Domestic Income and Product Account. Price and quantity indexes based on these prices and quantities are defined as before.

To introduce taxes into the system of index numbers we let the market price of output  $q^+$  be equal to the price received by the producer, say q, multiplied by unity plus the effective tax rate, t; the value of output at market prices is:

 $<sup>^{17}</sup>$  Translog index numbers were originally discussed by Fisher (1922) .

$$(1+t)qY = \sum_{i} (1+t_i)q_iY_i$$

where the prices paid by the consumers  $(q_i^+)$  are expressed in terms of prices received by producers  $(q_i)$  and tax rates  $(t_i)$ . Accordingly, we construct an index of taxes 1+t by dividing the value of transactions at purchasers' prices by the value of transactions at producers' prices. The price and quantity indexes at market prices differ from the corresponding indexes at producer prices since taxes enter the weights  $(w_i)$  employed in constructing the indexes.

#### 5. Domestic Income and Product Account in Constant Prices

#### 5.1 Introduction

Our principal innovation in presenting the Domestic Income and Product Account in constant prices is to introduce a user cost formula for imputing the rental price of capital services. Systems of national accounts have traditionally relied on market rental prices for making these imputations, but data on market rentals are too limited in scope to cover the capital services required for an integrated and consistent system of U.S. national accounts. In this section we present the Domestic Income and Product Account in constant prices.

# 5.2 Output and Labor Income

To construct a quantity index for GDP we first allocate the value of output between consumption and investment goods. Investment goods include durable goods and structures. Consumption goods include non-durable goods and services. Data for prices and quantities of consumption and investment goods are presented in the NIPAs. We construct price and quantity index numbers for the services of consumer, institutional and government durables, as well as institutional and government real estate, as part of our imputation for the value of the capital services.

The value of output from the point of view of the producing sector excludes sales and excise taxes and includes subsidies. We have allocated these taxes and subsidies in proportion to the consumption and investment goods output in current prices. The price index for each type of output is implicit in the value and quantity of output included in the GDP. We construct price and quantity indexes of GDP by applying chained Fisher ideal index numbers to price and quantity data for consumption and investment goods product. The results are given in Table 20.

Construction of a quantity index of labor income begins with data on hours worked and labor compensation per hour. We obtain hours worked and labor compensation by sex, age, educational attainment, and employment class from the Census of Population and the Current Population Survey. These data are based on household surveys. Control totals for hours worked and labor compensation are taken from the NIPAs. These totals are based on establishment surveys and reflect payroll records. <sup>18</sup>

Denoting the labor income quantity index by L and the corresponding price index by  $p_L$ , we represent the value of labor input as the sum over all categories of labor input:

$$p_L L = \sum p_{L,i} L_i,$$

-

<sup>&</sup>lt;sup>18</sup> Details are given by Jorgenson, Ho, and Stiroh (2005).

where  $p_{L,j}$  is the price of the *j*-th type of labor input and  $L_j$  is the number of hours worked by workers of this type. Price and quantity indexes of labor income are constructed from chained Fisher ideal quantity indexes, as recommended by SNA 1993.

Price and quantity indexes of labor income for 1948-2002 are given in Table 21, along with employment, weekly hours, hourly compensation, and hours worked. Labor quality in Table 21 is defined as the ratio of the quantity index of labor income to hours worked. Labor quality captures changes in the composition of the work force by the characteristics of individual workers, as suggested by BLS (1993). A more detailed description of our estimates is provided by Jorgenson, Ho, and Stiroh (2005).

# 5.3 Capital Income

Estimates of capital income, property compensation, depreciation, and capital assets in constant prices require data on both prices and quantities of capital goods. We next describe the construction of these data. <sup>19</sup> The starting point for a quantity index of capital income is a perpetual inventory of capital stocks. Under the assumption that efficiency of capital assets declines geometrically with age, the rate of depreciation, say  $\delta$ , is a constant. Capital stock at the end of every period can be estimated from investment and capital stock at the beginning of the period:

$$K_{t} = A_{t} + (1 - \mathbf{d})K_{t-1},$$

where  $K_t$  is end of period capital stock,  $A_t$  the quantity of investment and  $K_{t-1}$  the capital stock at the beginning of the period. To transform capital stocks into flows of capital services, we introduce an assumption about the time required for new investment to begin to contribute to production, namely that the capital service from each asset is proportional to the arithmetic average of current and lagged capital stocks<sup>20</sup>.

Our perpetual inventory estimates of capital stocks are based on BEA's reproducible wealth accounts, described by Herman (2000). These data include investment by asset class for 61 types of non-residential assets from 1901-2000, 48 types of residential assets for the same period, and 13 types of consumers' durables from 1925-2000. As described by Fraumeni (1997), the reproducible wealth accounts use efficiency functions for most assets that decline geometrically with age. To simplify the accounts for tangible wealth, we approximate age-efficiency profiles that are not geometric by Best Geometric Average (BGA) profiles that are geometric, following Hulten and Wykoff (1982). Benchmark estimates of capital stocks in 2002, expressed in constant prices of 2000, rates of depreciation, and the sources of price indexes for each type of capital are presented in Table 22.

The official price indexes for computers provide the paradigm for economic measurement. These indexes capture the steady decline in IT prices and the recent acceleration in this decline. The official price indexes for central office switching equipment and prepackaged software also hold performance constant. Our price indexes for reproducible assets are taken from the NIPAs. An important assumption is that these prices are measured in "efficiency" units, holding the quality of assets constant over time. For example, we hold the performance of computers and peripheral equipment constant, using the constant quality price indexes constructed by a BEA-

1,

<sup>&</sup>lt;sup>19</sup> Further details are given by Jorgenson, Ho, and Stiroh (2005).

<sup>&</sup>lt;sup>20</sup> This assumption is employed by Jorgenson and Stiroh (2000), Jorgenson (2001), Jorgenson, Ho, and Stiroh (2005) and Oliner and Sichel (2000). Jorgenson, Gollop and Fraumeni (1987) had assumed that capital services were proportional to lagged capital stocks.

IBM team and introduced into the NIPAs in 1985. Triplett's (1986) discussion of the economic interpretation of these indexes brought the rapid decline of computer prices to the attention of a very broad audience.

Dulberger (1989) presented a more detailed report on her research on the prices of computer processors for the BEA-IBM project. Speed of processing and main memory played central roles in her model. Triplett (1989, 2005) has provided exhaustive surveys of research on hedonic price indexes for computers. Gordon (1989, 1990) gave an alternative model of computer prices and identified computers and communications equipment, along with commercial aircraft, as assets with the highest rates of price decline.

Communications technology is crucial for the rapid development and diffusion of the Internet, perhaps the most striking manifestation of information technology in the American economy. Flamm (1989) was the first to compare the behavior of computer prices and the prices of communications equipment. He concluded that the communications equipment prices fell only a little more slowly than computer prices. Gordon (1990) compared Flamm's results with the official price indexes, revealing substantial bias in the official indexes. Unfortunately, constant quality price indexes cover only a portion of communications equipment. Switching and terminal equipment rely heavily on semiconductor technology, so that product development reflects improvements in semiconductors. Grimm's (1997) constant quality price index for digital telephone switching equipment was incorporated into the national accounts in 1996. The output of communications equipment in the NIPA also incorporates a constant quality price index for cellular phones.

Much communications investment takes the form of the transmission gear, connecting data, voice, and video terminals to switching equipment. Technologies such as fiber optics, microwave broadcasting, and communications satellites have progressed at rates that outrun even the dramatic pace of semiconductor development. Mark Doms (2005) has provided comprehensive price indexes for terminals, switching gear, and transmission equipment. These have been incorporated into the Federal Reserve's Index of Industrial Production, as described by Corrado (2003), but are not yet included in the NIPAs.

Both software and hardware are essential for information technology and this is reflected in the large volume of software expenditures. The eleventh comprehensive revision of the national accounts, released by BEA on October 27, 1999, re-classified computer software as investment <sup>21</sup>. Before this important advance, business expenditures on software were treated as current outlays, while personal and government expenditures were treated as purchases of non-durable goods. Software investment is growing rapidly and is now much more important than investment in computer hardware.

Parker and Grimm (2000) describe the new estimates of investment in software. BEA distinguishes among three types of software -- prepackaged, custom, and own-account software. Prepackaged software is sold or licensed in standardized form and is delivered in packages or electronic files downloaded from the Internet. Custom software is tailored to the specific application of the user and is delivered along with analysis, design, and programming services required for customization. Own-account software consists of software created for a specific application. However, only price indexes for prepackaged software hold performance constant.

Parker and Grimm (2000) present a constant quality price index for prepackaged software. This combines a hedonic model of prices for business applications software and a matched model index for spreadsheet and word processing programs developed by Oliner and Sichel (1994). Prepackaged software prices decline at more than ten percent per year over the period 1962-1998. Since 1998 the BEA has relied on a matched model price

\_

<sup>&</sup>lt;sup>21</sup> Brent Moulton (2000b) describes the 11<sup>th</sup> comprehensive revision of NIPA and the 1999 update.

index for all prepackaged software from the Producers Price Index (PPI) program of the Bureau of Labor Statistics. BEA's prices for own-account and custom software incorporate data on programmer wage rates. Custom and own-account software prices are a weighted average of prepackaged software prices and programmer wage rates with arbitrary weights of 75 percent for programmer wage rates and 25 percent for prepackaged software.

Given market rental prices by class of asset, the implicit rental values paid by owners for the use of their property can be imputed by applying these rental rates. This method of imputation is used to estimate the rental value of owner-occupied dwellings in the U.S. national accounts. The total rental value is divided among taxes, consumption of fixed capital, interest payments, and net rent. A similar method of imputation is used for the space rental value of institutional buildings, but net rent is omitted from the imputation. The main obstacle to broader application of this method is the lack of data on market rental prices. A substantial proportion of the capital goods employed in the U.S. economy has an active rental market; most classes of structures can be rented and a rental market exists for many types of equipment, especially air craft, trucks, construction equipment, computers, and so on. Unfortunately, very little effort has been devoted to compiling data on rental rates for either structures or equipment.

We extend the perpetual inventory method to rental prices of capital services in order to provide an alternative approach for imputation of the rental values. <sup>22</sup> For each type of capital we prepare perpetual inventory estimates of acquisition prices, service prices, depreciation, and revaluation. Under our assumption of geometrically declining relative efficiency of capital goods, the acquisition prices decline geometrically with vintage. The formula for the value of capital stock,

$$q_{A,t}K_{t} = \sum q_{A,t}(1-\mathbf{d})^{t}A_{t-t}$$

is the sum of past investments weighted by relative efficiencies and evaluated at the price for acquisition of new capital goods  $q_{A,t}$ . Second, depreciation  $q_{D,t}$  is proportional to the value of beginning of period capital stock:

$$q_{D,t}K_{t-1} = dq_{A,t}K_{t-1}$$
.

Finally, revaluation  $(q_{A,t} - q_{A,t-1})K_{t-1}$  is equal to the change in the acquisition price of new capital goods multiplied by beginning of period capital stock.

Households and institutions and government are not subject to direct taxes. Non-corporate business is subject to personal income taxes, while corporate business is subject to both corporate and personal income taxes. Businesses and households are subject to indirect taxes on the value of property. In order to take these differences in taxation into account we first allocate each class of assets among the five sectors of the U.S. domestic economy — corporations, non-corporate business, households and institutions and government. The relative proportions of capital stock by asset class for each sector for 2002 are given in Table 23.

For a sector not subject to either direct or indirect taxes, we can utilize the capital service price  $q_{K,t}$ ,

$$q_{K,t} = q_{A,t-1}[r_t - \mathbf{p}_t + (1 + \mathbf{p}_t) \ \mathbf{d}],$$

\_

<sup>&</sup>lt;sup>22</sup> A detailed presentation of this extension of the perpetual inventory method is given by Christensen and Jorgenson (1996).

where  $r_t$  is the nominal rate of return and  $\boldsymbol{p}_t$  is the rate of inflation in the acquisition price of new capital goods. This formula can be applied to government and nonprofit institutions by choosing an appropriate rate of return, as described below. 23

Given the rate of return for government and nonprofit institutions, we can construct estimates of capital service prices for each class of assets held by these sectors—land held by government and institutions, residential and nonresidential structures, producer and consumer durables. Price and quantity measures of capital input by class of asset can be combined into price and quantity index numbers of capital input by government and institutions, using the chained Fisher ideal index numbers employed in the NIPAs.

Households hold consumer durables and owner-occupied dwellings that are taxed indirectly through property taxes. To incorporate property taxes into our estimates of the price and quantity of capital services we add taxes to the cost of capital, depreciation, and revaluation, obtaining the capital service price:

$$q_{K,t} = q_{A,t-1}[r_t - \boldsymbol{p}_t + (1 + \boldsymbol{p}_t) \ \boldsymbol{d} + (1 - t_e)\boldsymbol{t}_t],$$

where  $t_t$  is the rate of property taxation and  $t_e$  is the average marginal tax rate on income from which property taxes are deductible.

The household rate of return:

$$r_t - \boldsymbol{p} = \boldsymbol{b}[(1 - t_e)i_t - \boldsymbol{p}_t] + (1 - \boldsymbol{b})[\boldsymbol{r}_t - \boldsymbol{p}_t],$$

is a weighted average of the rate of interest i, and the nominal rate of return on equity in household assets  $r_i$ , with weights that depend on the ratio of debt to the value of household capital stock  $b_i$  and the average marginal individual tax rate on income from household property  $t_e$ . We set the nominal rate of return on equity equal to the corresponding rate of return for owner-occupied housing after all taxes.

Given the rate of return for households, we can construct estimates of capital service prices for each class of assets held by households—land, residential structures, and consumer durables. We employ separate effective tax rates for owner-occupied residential property, both land and structures, and for consumer durables. Price and quantity measures of capital income by class of asset are combined into price and quantity index numbers of capital income by households, using chained Fisher ideal index numbers.

Our measure of the GDP differs from the NIPAs in the treatment of durables and real estate held by households and institutions and government. We assign personal and government consumption expenditures on durables to investment rather than consumption. This leaves GDP unchanged. We add the service flow from household, institutional, and government durables to the value of output and the value of capital input. We also add the net rent component of the services of institutional and government real estate to values of both output and input.

We next consider the measurement of price and quantity of capital services for non-corporate business. The main challenge is to separate the income of unincorporated enterprises between labor and property

<sup>&</sup>lt;sup>23</sup> Alternative methods for imputing the rate of return to capital are reviewed by Moulton (2004). A detailed derivation of prices of capital services is given by Jorgenson and Yun (2001).

compensation. We estimate labor compensation of the self-employed from the incomes received by comparable categories of employees. <sup>24</sup> Property compensation as the sum of income originating in business, other than corporate business and government enterprises and the net rent of owner-occupied dwellings, less the imputed labor compensation of proprietors and unpaid family workers, plus non-corporate consumption of fixed capital, less allowances for owner-occupied dwellings and institutional structures, and plus indirect business taxes allocated to the non-corporate sector. We also allocate the statistical discrepancy to non-corporate property compensation.

To obtain an estimate of the non-corporate rate of return we must take into account the personal income tax. The capital service price, modified to incorporate income tax and indirect business taxes, becomes:

$$q_{K,t} = \left[\frac{1 - t_e z_t - k_t + y_t}{1 - t_e}\right] q_{A,t-1} [r_t - \boldsymbol{p}_t + (1 + \boldsymbol{p}_t) \ \boldsymbol{d}] + q_{A,t-1} \boldsymbol{t}_t,$$

where indirect business taxes  $q_{A,t-1}t_t$  are deducted from non-corporate property compensation before taxes as an expense,  $t_e$  is the average marginal tax rate on non-corporate property compensation,  $z_t$  is the present value of depreciation allowances on one dollar's worth of investment,  $k_t$  the investment tax credit, and  $y_t = k_t u_t z_t$ . The variable  $y_t$  is set equal to zero for all years but 1962 and 1963; it is used in accounting for the fact that the investment tax credit was deducted from the value of an asset for depreciation in those years. The tax credit and depreciation allowances are different from zero only for durables and structures.

The non-corporate rate of return:

$$r_t - \mathbf{p} = \mathbf{b}[(1 - t_e)i_t - \mathbf{p}_t] + (1 - \mathbf{b})[\mathbf{r}_t - \mathbf{p}_t(1 - t_e)],$$

is a weighted average of the rate of interest  $i_t$  and the nominal rate of return on non-corporate assets  $r_t$  with weights that depend on the ratio of debt to the value of non-corporate capital stock b, the average marginal individual tax rate on income from non-corporate property  $t_e$ , and the marginal tax rate on capital gains on non-corporate assets  $t_g$ .

We multiply the capital service price by the quantity of capital services for each asset held by non-corporate business, sum over assets, and solve for the rate of return. Given data on prices of acquisition, stocks, tax rates, and replacement rates, we can estimate capital service prices for each class of assets held by the non-corporate sector. Price and quantity measures of capital input by class of asset are combined into price and quantity index numbers of capital input, using chained Fisher ideal index numbers, as before.

Finally, we consider the measurement of prices and quantities of capital services for corporate business. We measure corporate property compensation as income originating in corporate business, less compensation of employees, plus corporate consumption of fixed capital, plus business transfer payments, plus the indirect business taxes allocated to the corporate sector. To obtain an estimate of the corporate rate of return we must take into account the corporate income tax. The capital service price becomes:

. .

<sup>&</sup>lt;sup>24</sup> Estimation of the labor compensation of the self-employed is discussed by Jorgenson, Ho, and Stiroh (2005).

$$q_{K,t} = \left[\frac{1 - uz_{t} - k_{t} + y_{t}}{1 - u}\right] q_{A,t-1}[r_{t} - \boldsymbol{p}_{t} + (1 + \boldsymbol{p}_{t}) \ \boldsymbol{d}] + q_{A,t-1}\boldsymbol{t}_{t},$$

where indirect business taxes  $q_{A,t-1}t_t$  are deducted from corporate property compensation before taxes as an expense, u is the corporate tax rate,  $z_t$  is the present value of depreciation allowances,  $k_t$  the investment tax credit, and  $y_t = k_t u_t z_t$ .

The corporate rate of return:

$$r_t - \boldsymbol{p} = \boldsymbol{b}[(1-u)i_t - \boldsymbol{p}_t] + (1-\boldsymbol{b}) \left[ \frac{\boldsymbol{r}_t - \boldsymbol{p}_t(1-t_g)}{(1-t_e)\boldsymbol{a} + (1-t_g)(1-\boldsymbol{a})} \right],$$

is a weighted average of the rate of interest  $i_t$  and the nominal rate of return on corporate assets  $\mathbf{r}_t$  with weights that depend on the ratio of debt to the value of corporate capital stock  $\mathbf{b}$ , the average marginal individual tax rate on income from corporate property  $t_e$ , the marginal tax rate on capital gains on corporate equities  $t_e$ , and the dividend payout ratio  $\mathbf{a}$  from corporate income after corporate taxes.

Our method for estimating the corporate rate of return is the same as for the non-corporate rate of return. Property compensation in the corporate sector is the sum of the value of services from residential and nonresidential structures, producer durable equipment, inventories, and land held by the sector. To estimate the rate of return in the corporate sector we require estimates of the variables that enter the value of capital services except, of course, for the rate of return. We then solve for the rate of return in terms of these variables and total property compensation. Price and quantity indexes of capital input by class of asset are combined into price and quantity indexes of capital input for the corporate sector.

We assume that the nominal rate of return is the same for all assets within a given sector. For the corporate and non-corporate sectors this rate of return is inferred from the value of property compensation, acquisition prices and stocks of capital goods, rates of replacement, and variables describing the tax structure. For households the rate of return is inferred from income from owner-occupied housing. For government, the imputed rate of return is set equal to the average of corporate, non-corporate, and household rates of return after both corporate and personal taxes. To obtain price and quantity indexes of capital income for the domestic sector we apply chained Fisher ideal index numbers to price and quantity indexes for each of the five subsectors—corporations, non-corporate business, households, institutions, and government. Price and quantity indexes of capital income for corporations, non-corporate business, households, institutions, and government, as well as the U.S. domestic economy are given for 1948-2002 in Table 24.

We construct price and quantity index numbers for the GDI by combining indexes of labor and capital income. The weights for labor and capital are the relative shares of labor and capital income in the GDI. Price and quantity indexes of GDI for the U.S. domestic economy are given for 1948-2002 in Table 25. Multifactor productivity, also given in Table 25, is defined as the ratio of GDP in constant prices to GDI in constant

prices.<sup>25</sup> Growth in multifactor productivity can be interpreted as an increase in efficiency of the use of input to produce output or as a decline in the cost of input required to produce a given value of output.

# 6. Income and Expenditure, Domestic Capital, and Wealth Accounts

#### 6.1 Introduction

In the previous section we have presented the Domestic Income and Product Account for the U.S. economy in constant prices. In this section we present Income and Expenditure, Domestic Capital, and Wealth Accounts in constant prices. We describe the accounts for the domestic economy in detail. The accounts for the rest of the world are identical to those generated by BEA.

# 6.2 Income and Expenditures

We begin with estimates of gross saving and household and government consumption outlays in constant prices for the U.S. domestic economy. To construct price and quantity indexes of household and government expenditures, we obtain data for consumption expenditures on non-durable goods and services, excluding the services of institutional real estate, from the Domestic Income and Production Account. We evaluate consumption expenditures on market prices and combine these data with imputed values of the services of household, institutional, and government durables and the services of institutional and government real estate.

The value of consumption expenditures at market prices includes customs duties, excise and sales taxes, and excludes subsidies. We construct price and quantity indexes of consumption expenditures from the price and quantity indexes of non-durables, services, and our estimates of capital services by using chained Fisher ideal index numbers. Gross and net saving in constant prices are taken from the Domestic Capital Account, described below. Price, quantity, and tax indexes for personal and government consumption expenditures are presented in Table 26.

The starting point for estimating price and quantity components of Domestic Capital Income is the price and quantity of capital income in the Domestic Income and Product Account. To construct price and quantity indexes of capital income our procedure is analogous to the methods we have used for the Domestic Income and Product Account. The most important innovation is in the use of a rental price formula to impute the price of capital services. Price and quantity indexes of capital income are presented in Table 27. Similarly, prices and quantities of the different categories of labor services are combined into price and quantity indexes of labor income using chained Fisher idea index numbers. Price and quantity indexes of labor, capital, and gross income are presented in Table 28.

The quantity index of Net Expenditures is a measure of social welfare; it consists of the quantity of current consumption and the quantity of net increments to future consumption in the current time period, as suggested by Weitzman (1976, 2003). Similarly, the quantity index of Net Income is a measure of the labor and property incomes generated by the U.S. economy. The ratio of expenditures in constant prices to income in constant prices is the Level of Living, a quantity index of welfare generated from current and future consumption in proportion to the effort required in the form of supply of labor and capital services. This must be carefully distinguished from multifactor productivity, the ratio of GDP to GDI, a measure of productive efficiency. Price and quantity indexes of Net Expenditures, Net Income and the Level of Living index are presented in Table 29.<sup>26</sup>

\_

<sup>&</sup>lt;sup>25</sup> For further discussion of this index of multifactor productivity, see Jorgenson (2001).

<sup>&</sup>lt;sup>26</sup> For further discussion, see Hulten (1992).

#### 6.3 Domestic Capital Account

The fundamental accounting identity for the Domestic Capital Account is that gross saving from the Income and Expenditures Account is equal to investment. Investment and saving are equal in current and constant prices. Investment is a chained Fisher ideal quantity index of private and government investment, evaluated at market prices. The quantities are taken from the Domestic Income and Product Account, while the prices include sales and excise taxes paid by purchasers of investment goods. Price, quantity, and tax indexes of Gross Investment are given for 1948-2002 in Table 30.

To complete the saving side of the Domestic Capital Account in constant prices we require depreciation and the revaluation of assets in constant prices. If the decline in efficiency of capital goods is geometric, the change in wealth from period to period for a single capital good may be written:

$$\begin{split} W_{t} - W_{t-1} &= q_{A,t} K_{t} - q_{A,t-1} K_{t-1} \\ &= q_{A,t} (K_{t} - K_{t-1}) + (q_{A,t} - q_{A,t-1}) K_{t-1} \\ &= q_{A,t} A_{t} - q_{A,t} dK_{t-1} + (q_{A,t} - q_{A,t-1}) K_{t-1}. \end{split}$$

Gross saving is represented by  $q_{A,t}A_t$ , which is equal to gross investment and has the same price and quantity components.

Depreciation is represented by  $q_{A,t}dK_{t-1}$ . We construct the price and quantity indexes of depreciation from the lagged stocks,  $K_{t-1}$ , with depreciation prices  $q_{D,t}$  as weights. Revaluation is represented by  $(q_{At} - q_{A,t-1})K_{t-1}$ . We construct price and quantity indexes of revaluation from lagged capital stocks with revaluation prices  $(q_{A,t} - q_{A,t-1})$  as weights. Chained Fisher ideal price and quantity index numbers of private national saving, depreciation, and revaluation for the period 1948-2002 are presented in Table 31.

#### 6.4 Wealth Accounts

Changes in the value of wealth from period to period can be separated between price and quantity components. Net Investment is the quantity component of the change in the value of wealth under the assumption of geometric decline in efficiency of capital goods, while revaluation is the price component. The value of wealth is:

$$W_{t} = q_{A} K.$$

Wealth is the product of the price index  $q_{A,t}$  and quantity index  $K_t$ . Acquisition prices and quantities of capital stocks can be combined into price and quantity indexes for wealth, using chained Fisher index numbers.

Our Wealth Account for the U.S. economy includes tangible assets held by businesses, households and institutions, and government and net claims on foreigners. We estimate the price and quantity of assets for each of the five sectors by applying chained Fisher ideal index numbers to price and quantity data for each class of assets held by the sector. We have constructed the price and quantity indexes of private domestic tangible assets, government tangible assets, and wealth for 1948-2002 given in Table 32 by applying these index numbers to the price and quantity indexes for the five sectors.

#### 7. The Sources and Uses of Economic Growth

In this section we illustrate the applications of our prototype system of national accounts for the United States. The main advantage of these prototype accounts is that they provide a framework for an integrated analysis of the U.S. economy. This framework consists of (1) an integrated production account; (2) an integrated capital and wealth account; and (3) the linking of these accounts to underlying industry, asset, and liability accounts detail. These accounts can be used for both aggregate and disaggregated analysis of such issues as the sources of economic growth, the effect of changes in the size and composition of wealth on consumption and saving, and the effect of trade deficits on wealth.

We first consider the sources of post-war U.S. economic growth. This application utilizes measures of output, input, and multifactor productivity from the Production Account presented in Table 25. We next discuss the uses of economic growth. This draws on estimates of income, expenditures, and the level of living from the Domestic Income and Expenditures Account given in Table 29. Finally, we present an analysis of data on investment, saving, and wealth from the Domestic Capital and Wealth Accounts in Tables 30, 31, and 32.

The interpretation of outputs, inputs, and productivity requires the production possibility frontier introduced by Jorgenson (1996):

$$Y(I,C) = A \cdot X(K,L),$$

Gross Domestic Product in constant prices Y consists of outputs of investment goods I and consumption goods C. These products are produced from capital services K and labor services L. These factor services are components of Gross Domestic Income in constant prices X and are augmented by multifactor productivity A.

The key feature of the production possibility frontier is the explicit role it provides for changes in the relative prices of investment and consumption outputs. The aggregate production function, a competing methodology, gives a single output as a function of capital and labor inputs. There is no role for separate prices of investment and consumption goods. Under the assumption that product and factor markets are in competitive equilibrium, the share-weighted growth of outputs is the sum of the share-weighted growth of inputs and growth in multifactor productivity:

$$\overline{w}_I \Delta I + \overline{w}_C \Delta \ln C = \overline{v}_K \Delta \ln K + \overline{v}_L \Delta \ln L + \Delta \ln A$$
,

where  $\overline{w}$  and  $\overline{v}$  denote average shares of the outputs and inputs, respectively, in the value of Gross Domestic Product in current prices.

We calculate the average value shares for the two outputs from estimates of investment and consumption goods in current prices presented in Table 6. The growth rates of these outputs are obtained from estimates in constant prices in Table 20. Similarly, we calculate the average value shares for capital and labor inputs from the estimates of capital and labor services in current prices from Table 6. The growth rates of labor input are generated from the estimates in constant prices in Table 21 and the growth rates of capital input from constant price estimates in Table 24. Given the accounting identity between the value of outputs and the value of inputs, the value shares of outputs and inputs sum to one.

Table 33 presents accounts for U.S. economic growth during the period 1948-2002 and various subperiods, following Jorgenson (2001). The earlier sub-periods are divided by the business cycle peaks in 1973 and 1989. The period since 1989 is divided in 1995, the beginning of a powerful resurgence in U.S. economic growth linked to information technology. The contribution of each output is its growth rate weighted by the relative value share. Similarly, the contribution of each input is its weighted growth rate. The contribution of multifactor productivity is the difference between growth rates of output and input.

The value shares of outputs and inputs are represented in Figure 2. The shares of capital and labor inputs reveal little evidence of trends over the period 1948-2002. The share of investment has gradually declined, while the share of consumption has risen. Figure 3 depicts the contributions to U.S. economic growth by investment and consumption goods outputs and the sources of economic growth -- the contributions of capital and labor services and multifactor productivity.

The graphical picture of the growth the U.S. economy before and after 1973 reveals familiar features of the historical record. After strong output and productivity growth in the 1950's, 1960's and early 1970's, the U.S. economy slowed markedly from 1973 through 1989. Output growth fell from 4.06 to 3.06 percent and multifactor productivity growth declined precipitously from 0.93 to 0.11 percent. The contribution of capital input also slowed from 2.00 percent for 1948-73 to 1.79 percent for 1973-89, more than offsetting the slight increase in the labor input contribution from 1.13 to 1.17 percent. U.S. economic growth declined further from 1989 to 1995, as the contributions of capital and labor inputs slumped to 0.87 percent and 0.90 percent, counterbalancing a revival in productivity growth to 0.56 percent.

U.S. economic growth surged to 3.64 percent during the period 1995-2002. Between 1989-1995 and 1995-2002 the contribution of capital input jumped by 1.27 percentage points, accounting for almost all of the increase in output growth of 1.31 percent. The contribution of capital input reflects the investment boom of the late 1990's, as businesses, households, and governments poured resources into plant and equipment, especially computers, software, and communications equipment. However, this period also includes the short and shallow recession of 2001 and the recovery of 2002. The contribution of labor input declined by 0.11 percent, while multifactor productivity growth accelerated by 0.15 percent.

Although consumption predominates in the growth of output throughout the post-war period, investment has increased in relative importance since 1995. Capital input is the most important source of economic growth for the post-war period; labor input is next in importance and multifactor productivity the least important. Productivity accounts for a little over twenty percent of post-war U.S. economic growth, while capital and labor inputs account for almost eighty percent. The contribution of capital input exceeds that of labor input, except for the period 1989-1995.

The estimates of the sources of U.S. economic growth can be further decomposed to show, for example, how much of the spurt in the growth of output and productivity after 1995 was due to the increased efficiency in the production of IT equipment and software and other investment goods. These estimates can be used to identify the proportion of growth due to increased investment and capital deepening. The accounts also show how much of the growth in labor inputs was due to growth in labor hours and the quality of labor.

Without an integrated set of production accounts, the analysis of sources of economic growth at the aggregate and industry level must rely on a mixture of BEA industry accounts estimates and BLS productivity estimates, combined with an analyst's estimates of missing information, such as labor quality growth. Different

analysts can produce inconsistent results on the sources of economic growth during periods of higher or lower growth, such as the post-1973 productivity slowdown and the more recent spurt in productivity growth since 1995.

We next consider the uses of economic growth, based on the measures of income, expenditures, and the level of living from the Income and Expenditures Account presented in Table 29. The interpretation of expenditures requires a social welfare function, like the one considered by Weitzman (2003). Expenditures include personal and government consumption and represent the flow of goods and services for current consumption. Expenditures also include saving, net of depreciation, corresponding to the increment in future flows of consumption during the current period.

Economic growth creates opportunities for both present and future consumption. These opportunities are generated by expansion in the supply of capital and labor services, augmented by changes in the level of living:

$$Z(C,S) = B \cdot W(L,N),$$

Net Domestic Expenditures in constant prices Z consist of consumption expenditures C and saving S, net of depreciation. These expenditures are generated by Net Incomes in constant prices W, comprising labor incomes L and property incomes N, also net of depreciation.

The level of living B must be carefully distinguished from multifactor productivity A. An increase in the level of living implies that for given supplies of the factor services that generate labor and property incomes, the U.S. economy generates greater opportunities for present and future consumption. The share-weighted growth of expenditures is the sum of the share-weighted growth of incomes and growth in the level of living:

$$\overline{w}_C \Delta \ln C + \overline{w}_S \Delta S = \overline{v}_L \Delta \ln L + \overline{v}_N \Delta \ln N + \Delta \ln B$$
.

where  $\overline{w}$  and  $\overline{v}$  denote average value shares for expenditures and incomes, respectively.

We calculate the average shares for the two components of expenditures – consumption and saving – from the estimates of personal consumption expenditures, government consumption expenditures, and net saving in current prices in Table 8. The shares of labor and capital incomes are obtained from current price estimates of these incomes in the same table. We generate the growth rates of expenditures from the estimates in constant prices in Table 26 and the growth rates of labor and property incomes from the constant price estimates in Table 18. The level of living is given in Table 29.

Table 34 presents a decomposition of the uses of economic growth for the period 1948-2002. The growth rate of expenditures is a weighted average of growth rates of personal consumption expenditures, government consumption expenditures, and net saving. The contribution of each category of expenditures is the growth rate weighted by the relative share. Similarly, the contributions of labor and property incomes are the

<sup>27</sup> 

<sup>&</sup>lt;sup>27</sup> An integrated set of U.S. accounts, using common methodology and source data, will help to eliminate differences due to variations in source data and methods. This will provide an improved baseline for analysis of economic growth, extensions of the accounting system, and alternative sets of estimates.

growth rates weighted by the relative shares. The contribution of the level of living is the difference between growth rates of expenditures and incomes.

The value shares of expenditures and incomes are represented in Figure 4. The shares of capital and labor incomes, like the shares of capital and labor inputs in the Production Account, are stationary over the period 1948-2002. The share of personal consumption expenditures has gradually risen over this period, especially after 1973, while the share of government consumption rose and fell. Net saving has steadily trended downward. Figure 5 shows the contributions to the growth of expenditures by supplies of capital and labor services and increases in the level of living. This figure also portrays current consumption and increments to future consumption through net saving.

The growth of net expenditures largely reflects the pattern of output growth with strong growth of expenditures during the period 1948-1973, followed by a showdown after 1973, a further deceleration after 1989, and a sharp revival after 1995. The growth of expenditures for the post-war period as a whole was 3.23 percent, by comparison with output growth of 3.52 percent. However, the growth of expenditures diverged from the growth of output after 1995, rebounding by only 0.96 percent, by comparison with a jump in output of 1.31 percent.

The precipitous fall in saving has attracted a great deal of attention, for example, in the work of Gale and Sablehaus (1999) and Reinsdorf (2005). The most arresting feature of the uses of economic growth is the gradual disappearance of Net Saving. This added a he althy 0.48 percent to growth during 1948-1973. The contribution of current consumption, both personal and government, declined during 1973-1989, but the contribution of Net Saving nearly vanished, falling to 0.04 percent before reviving modestly to 0.18 percent from 1989-1995, and plunging to a negative 0.18 percent during 1995-2002. Both the investment boom of the late 1990's and the resurgence of consumption were financed by foreign borrowing.

The integration of wealth accounts can help explain the long-term decline in saving out of current income. The U.S. tax system taxes future consumption more than current consumption and provides incentives for saving in the form of capital gains for residential housing and corporate equities. The effect of the these provisions of the tax code can be seen in Table 13 that shows the rise in the share of the annual change in wealth accounted for by revaluations versus saving out of current income from an average of 41 percent between 1950 and 1960 to 54 percent between 1995 and 2000.

We obtain further insight into the relationship between investment and saving from the Domestic Capital and Wealth Accounts presented in Tables 30, 31, and 32. Gross Investment and Gross Saving are identical in both current and constant prices. Gross Saving is reduced by Depreciation to yield Net Saving. This is combined with Revaluation to generate the Change in Wealth. Finally, Wealth is comprised of private domestic tangible assets, government tangible assets, and the U.S. International Position. With integrated accounts and the underlying detail in the Federal Reserve Board Balance Sheets and the NIPAs we can focus on the household sector. Much of the increase in net worth was in the household sector. Between 1990 and 2000 39 percent was in equity values and mutual funds and 22 percent in residential housing.

We calculate the average value shares of private investment, government investment, and ROW investment, the components of Gross Investment, from the estimates in current prices presented in Table 12. The growth rates of these components are obtained from the estimates in constant prices given in Table 30. Similarly, we calculate the average value shares of Depreciation and Net Saving from the current price

estimates in Table 13. The growth rates of these components of Gross Saving are generated from the constant price estimates in Table 31.

One link from the Domestic Capital Account to the Domestic Wealth Account is Net Saving, a measure of change in the quantity of assets; a second link is Revaluation, a measure of change in asset prices. The two together make up the Change in Wealth presented in current prices in Table 13 and the average value shares are obtained from this table. We calculate the growth rates of the two components of Change in Wealth from the constant price estimates in Table 31. Finally, we provide the asset side of the Domestic Wealth Account in current prices in Table 17. The estimates in this table are utilized in generating average value shares of the three components. Growth rates are calculated from the constant price estimates in Table 32.

Table 35 presents decompositions of Gross Investment and Gross Saving. The contribution of each component is its growth rate, weighted by the relative value share. The contribution of private investment is almost the same as the growth of Gross Investment for the period 1948-2002. The contribution of government investment nearly offsets the negative contribution of ROW investment. Throughout the post-war period foreigners have been accumulating assets in the U.S. faster that the U.S. has been accumulating assets abroad. In fact, the contribution of ROW investment was negative in all sub-periods, except 1989-1995, when it was very slightly positive.

The value shares of Gross Investment and Gross Saving are presented in Figure 6. The share of private investment has been trending upward throughout the post-war period and exceeded one hundred percent after 1995. Government investment peaked in the early 1950's and has been declining gradually. ROW investment was essentially zero until the early 1980's, dipped into negative territory until 1991, when it was positive for a single year, and then plunged deeper and deeper into the negative range through the end of the period in 2002. Net Saving has been declining as a share of Gross Saving in current prices, while Depreciation has been rising. This reflects the shift in the composition of investment toward shorter-lived assets, including information technology equipment and software.

Figure 7 depicts the contributions to capital formation by private investment, government investment, and ROW investment. Gross Investment dropped from 4.16 percent in 1948-1973 to 3.13 percent in 1973-1989. This remained essentially constant through the end of the period in 2002. However, dramatic changes in the composition of Gross Investment took place after 1995. The contribution of private investment was surprisingly stable until it soared to 5.39 percent for 1995-2002 from 2.97 percent for 1989-1995. This reflects the spectacular boom in investment after 1995, powered by the surge of investment in information technology equipment and software. However, the rise in private investment was completely offset by a decline in the contribution of ROW investment, which sank from a positive 0.09 percent in 1989-1995 to a negative 2.82 percent in 1995-2002.

The contribution of Net Saving has a strong negative trend, falling from 1.55 percent in 1948-1973 to 0.23 percent in 1973-1989, before recovering to 0.67 percent in 1989-1995. Net Saving then plunged to a negative 0.79 percent in 1995-2002. By contrast the contribution of Depreciation rose gradually, reaching 3.91 percent in 1995-2002. A different perspective on Net Saving is presented in Table 36, where the contributions of Net Saving and Revaluation are combined to generate Change in Wealth. The contribution of Revaluation has fluctuated sharply from a negative 0.13 percent in 1948-1973, when asset prices were falling, to a positive 3.61 percent in 1973-1989, a period of relatively rapid asset inflation that included much of the 1970's and

1980's. The contribution of Revaluation was a negative 1.14 percent during 1989-1995, before leaping to 3.07 percent from 1995-2002.

Finally, Table 36 provides a decomposition of the growth of Domestic Wealth. The growth rate of Domestic Wealth attained a post-war high of 4.02 percent during 1948-1973, before declining to 3.29 percent during 1973-1989. Wealth grew at only 0.26 percent during 1989-1995, but recovered to 2.70 percent in 1995-2002. The contribution of the U.S. International Investment Position was essentially zero from 1948-1973 before moving into the negative range, ultimately declining at 0.74 percent in 1995-2002. Private tangible assets increased in relative importance throughout the period.

These integrated and consistent accounts can extend the double-entry capacity of the existing accounts to put the U.S. trade deficit in perspective. The key features are the accounting identity between national saving and investment and the trade deficit and the relationship between the trade deficit, net borrowings from abroad, and the U.S. international investment position. The extended accounts show that U.S. trade surpluses and net U.S. lending resulted in an international investment position that rose from 1.7 percent of wealth in 1948 to a peak of 3.1 percent in 1980. After that domestic demand, represented by expenditures, grew faster than supply, given by GDP, and trade surpluses turned to deficits. Net lending by the U.S. turned to net borrowing, so that by 1989 the international position was a negative 0.2 percent of U.S. wealth, falling to a negative -5.7 percent in 2002.

The integrated accounts facilitate relative comparisons of net debt to wealth that provide perspective on the magnitude of the U.S. net international position, a negative \$2.6 trillion, and comparisons with external debt levels of other countries. Similarly, the NIPAs help put in perspective the trade deficit and the Federal budget deficit as a percent of GDP. Currently, differences in the concepts and methods make it difficult to trace changes in BEA's data on net exports and the U.S. International Investment Position to changes in the Federal Reserve Board's balance sheets.

In summary, the sources of U.S. economic growth reveal the origins of the slowdown that followed 1973 and worsened after 1989, but also the genesis of the U.S. growth resurgence after 1995. The uses of economic growth display the vanishing role of Net Saving throughout the post-war period. The investment boom and the surge in consumption of the late 1990's were financed by foreign borrowing. This is put into sharp relief by the behavior of ROW investment. Rapid accumulation of U.S. assets by foreigners is a long-standing trend that is also apparent in the deterioration in the U.S. International Investment Position. A less familiar fact, put into sharp relief by our prototype system, is the substantial fluctuations in asset prices reflected in Revaluation as a component of the Change in Wealth.

### 8. Summary and Conclusions

We have now completed our blueprint for a consistent and integrated system of national accounts for the United States. We have limited ourselves to national aggregates and accounts based on market transactions. The major innovation in our system of national accounts is the systematic utilization of imputed rental prices for capital assets, based on the user cost formula introduced by Jorgenson (1963). This is the key to integration of the NIPAs generated by BEA with the BLS productivity accounts.

In order to achieve consistency between investment goods production and capital income we impute capital income to households, institutions, and governments, as well as corporations and non-corporate businesses. For

residential housing we follow BEA in imputing the rental value of owner-occupied housing from the rental value of renter-occupied housing. This imputation is based on market rental prices. We impute the rental value of consumer durables, as well as durables and real estate owned by non-profit institutions, from market prices for the assets. We employ a similar approach for the rental value of government assets, including equipment and software, as well as government real estate.

We exclude investment in consumer durables from household consumption, but include this investment in the GDP, together with the imputed rental value of the services of the corresponding assets. We employ a similar approach for assets owned by non-profit institutions and the government sector. As a consequence of treating investment goods production and capital income symmetrically for household, government, and business sectors, our estimate of GDP in Table 5 is nearly ten percent higher than the estimate of GDP given in the NIPAs.

The NIPAs present GDP in current and constant prices and GDI in current prices, while the Domestic Income and Product Account provides GDI in current and constant prices, as well as multifactor productivity, defined as the ratio of GDP in constant prices to GDI in constant prices. The Domestic Income and Product Account we have presented in Table 6 gives the data required for the analysis of the sources of economic growth for the U.S. economy presented by Jorgenson (2001). The sources of economic growth are the contributions of labor and capital inputs and the growth of productivity.

Our blueprint continues with a consolidated Income and Expenditures Account. Income includes proceeds from the sale of factor services, plus income receipts from the rest of the world less income payments, and net current taxes and transfers from the rest of the world. Expenditures include personal and government expenditures at market prices, plus net saving from the Domestic Capital Account. Our Income and Expenditures Accounts consolidates three income and expenditures accounts from the NIPAs for household, business, and government income and expenditures. This has the advantage that payments among sectors cancel out in the consolidated account, resulting in a considerable simplification.

In order to provide data for an analysis of the disposition of income as expenditures and net saving, we present the Income and Expenditures Account in both current and constant prices in Table 29. The uses of economic growth include personal consumption expenditures, government expenditures, and net saving. Net saving is generated in the Domestic Capital Account and the Foreign Transactions Capital Account and is equal to gross saving less depreciation. We present the level of living, defined as the ratio of Net Expenditures to Net Income. This gives current consumption and increments to future consumption in the current period as a proportion of the capital and labor services that generate the income that is required.

Our Domestic Capital Account parallels the corresponding account in the NIPAs. Investment includes private domestic investment, government investment, and expenditures on durable goods by households and nonprofit institutions, all evaluated at market prices. The Domestic Capital Account presents the change in wealth, which is equal to the sum of net saving and the revaluation of assets. This provides a necessary link between the current economic activity reflected in the Domestic Income and Product Account and the Income and Expenditures Account and the accumulation of the wealth presented in the Wealth Account. The boundaries of these accounts are consistent throughout our prototype system of national accounts.

Finally, our Wealth Account, together with the Domestic Capital Account, is consistent with the FRB flow of funds accounts. We consolidate the detailed accounts presented in the flow of funds accounts and the national

balance sheets for different financial sectors. This simplifies the accounts for saving, investment, and wealth by eliminating claims among the domestic sectors, including household, government, and business sectors. We retain the Foreign Transactions Current and Capital Accounts from the NIPAs, as well as the U.S. International Position.

## Appendix: The U.S. National Accounts: Guide to Data, Concepts, and Methods

Information on the availability of national accounts data, the concepts that underpin the estimates, and the methods used to develop them are spread among the agencies that produce the accounts and the international bodies that develop guides to national accounts. Below is a list of primary references for understanding the Nation's economic accounts.

#### U.S. Resources

### Bureau of Economic Analysis (BEA) (www.bea.gov)

The upcoming schedule of releases for the following year is published in the December issue of the *Survey of Current Business (SCB)* and on the web site. The December issues also contain a subject guide to articles that have appeared in the *SCB* throughout the year, articles covering methodologies, research, and recent data releases. Articles since 1994 are available on the Web site (<a href="www.bea.gov/bea/pubs.htm">www.bea.gov/bea/pubs.htm</a>), and a link to the data release schedule is also available from the home page.

National accounts (www.bea.gov/bea/dn1.htm): Quarterly and annual data from the NIPAs and monthly and annual data on personal income and corporate profits are available in press releases, SCB articles, and in interactive formats on the Web site, including underlying detail for selected NIPA series. Annual tangible wealth (fixed asset) data are also available in interactive table form. A brief history of the accounts can be found in an SCB article titled "GDP: One of the Great Inventions of the 20th Century" that appeared in January 2000 issue. Methodologies and source data are available from the national accounts section of the BEA Web site as well as selected analytical articles and brief overviews on national accounts topics ranging from chain indexes to saving.

International accounts (www.bea.gov/bea/di1.htm): Quarterly and annual balance of payments (BOP) data and annual international investment position (IIP) data are available in press releases and in *SCB* articles. BOP interactive data and annual IIP data are accessible from the international section of the BEA Web site. Methodology articles for the international accounts and other guides and articles are also available.

Regional accounts (www.bea.gov/bea/regional/data.htm): State personal income (SPI), local personal income, and gross state product (GSP) data and press releases are located in the regional section of the BEA Web site. Separate interactive tables are available for annual SPI, quarterly SPI, annual local area income, and annual GSP. Methodology articles, recent releases, and SCB articles for the regional accounts can be accessed from the main regional page.

*Industry accounts* (www.bea.gov/bea/dn2.htm): Quarterly and annual GDP-by-industry data and annual and benchmark input-output (I-O) account data are accessible from the main industry page of the BEA Web site. Interactive tables are available for GDP-by-industry, for annual I-O tables, and for benchmark I-O tables.

### Federal Reserve Board (FRB) (www.federalreserve.gov)

Flow of funds accounts (FOF): Recent quarterly and annual FOF data are available at www.federalreserve.gov/releases/z1/. Longer time series of FOF data, including access to downloadable PRN

files, are located at <a href="www.federalreserve.gov/releases/z1/Current/data.htm">www.federalreserve.gov/releases/z1/Current/data.htm</a>. Within the FOF data are the balance sheet data which use the tangible asset data provided by BEA. The *Guide to the Flow of Funds Accounts* provides a thorough methodology of the accounts and part of it can be viewed online. The entire two-volume book can be ordered from FRB.

### Bureau of Labor Statistics (BLS) (www.bls.gov)

Productivity accounts: BLS publishes three productivity series. Annual and quarterly major sector productivity and annual industry productivity data are located at <a href="www.bls.gov/lpc/home.htm#overview">www.bls.gov/lpc/home.htm#overview</a>. This main page provides links to recent releases, methodology articles, and detailed data series. Articles are also published in the <a href="mainto:Monthly Labor Review">Monthly Labor Review</a> and are available online since 1982 (<a href="www.bls.gov/opub/mlr/mlrhome.htm">www.bls.gov/opub/mlr/mlrhome.htm</a>). Major sector productivity estimates are constructed based on GDP data published by BEA. Industry productivity data is estimated using basic data published by various public and private agencies. Annual multifactor productivity (MFP) data, recent releases, methodology articles, and detailed data series are available at <a href="www.bls.gov/mfp/home.htm">www.bls.gov/mfp/home.htm</a>. The MFP data series is constructed using the investment and output data provided by BEA and the labor data collected by BLS. The <a href="mainto:BLS Handbook of Methods">BLS Handbook of Methods</a> provides a thorough guide to methodologies for BLS data series (<a href="www.bls.gov/opub/hom/homtoc\_pdf.htm">www.bls.gov/opub/hom/homtoc\_pdf.htm</a>).

#### **Additional Resources**

### System of National Accounts 1993 (SNA 1993)

SNA 1993 is an internationally recognized integrated economic accounting system. The manual and accounting project was sponsored by Commission of the European Communities, International Monetary Fund (IMF), Organisation for Economic Co-operation and Development, United Nations (UN), and World Bank. The complete manual can be ordered from the UN (www.un.org).

*Balance of Payments Manual, 5<sup>th</sup> edition* (www.imf.org/external/np/sta/bop/biblio.htm#mg)
Published by the IMF, the BOP manual provides international guidelines for the compilation of international accounts. The 5<sup>th</sup> edition was published in 1993.

#### References

Abraham, Katharine, and Christopher Mackie. 2005. "A Framework for Non-Market Accounting," this volume.

Baily, Martin N., and Robert Z. Lawrence. 2001. "Do We Have a New E-conomy?" *American Economic Review*, Vol. 91, No. 2, May, 308-312.

Bureau of Economic Analysis. 1999. "Fixed Reproducible Tangible Wealth in the United States, 1925-94." Washington, DC, U.S. Government Printing Office. August.

 2004. Survey of Current Business, Vol. 84, No. 2, February, 37-38.
2004. Survey of Current Business, Vol. 84, No. 8, August, 36-166.

Bureau of Labor Statistics. 1983. *Trends in Multifactor Productivity*, 1948-1981. Washington, DC, U.S. Government Printing Office.

- \_\_\_\_\_ 1993. "Labor Composition and U.S. Productivity Growth, 1948-1990," *Bureau of Labor Statistics Bulletin 2426*, Washington, DC, U.S. Department of Labor.
- 2001. "Revisions to Capital Inputs for the BLS Multifactor Productivity Measures," formerly available online, BLS Web site.
- Christensen, Laurits R., and Dale W. Jorgenson. 1996. "Measuring Economic Performance in the Private Sector," in Dale W. Jorgenson (1996a), 175-272.
- Congressional Budget Office. 1997. "An Economic Model for Long-Run Budget Simulations," *CBO Memorandum*.
- Corrado, Carol. 2003. "Industrial Production and Capacity Utilization: The 2002 Historical and Annual Revision," *Federal Reserve Bulletin*, April, 151-176.
- Corrado, Carol, John Haltiwanger, and Daniel Sichel, eds. 2005. *Measuring Capital in the New Economy*, Chicago, University of Chicago Press.
- Council of Economic Advisers. 1997. *Economic Report of the President*, Washington, DC, U.S. Government Printing Office, 72-74.
- Denison, Edward F. 1967. Why Growth Rates Differ. Washington, D.C, The Brookings Institution.
- Diewert, W. Erwin. 1976. "Exact and Superlative Index Numbers", *Journal of Econometrics*, Vol. 4, No. 2, May, 115-146.
- \_\_\_\_\_ 1978. "Superlative Index Numbers and Consistency in Aggregation." *Econometrica*, Vol. 46. No. 4. (July). pp. 883-900.
- Doms, Mark 2005. "Communications Equipment: What Has Happened to Prices?" in Corrado, Haltiwanger, and Sichel (2005), eds., forthcoming.
- Dulberger, Ellen R. 1989. "The Application of a Hedonic Model to a Quality-Adjusted Price Index for Computer Processors," in Jorgenson and Landau (1989), eds., 37-76.
- Eisner, Robert. 1989. The Total Income System of Accounts. Chicago, University of Chicago Press.
- Fang, Bingsong, Xiaoli Han, Sumiye Okubo, and Ann M. Lawson. 2000. "U.S. Transportation Satellite Accounts for 1996," *Survey of Current Business*, Vol. 80, No. 5, May, 14-22.
- Fisher, Irving. 1922. The Making of Index Numbers, Boston, Houghton-Mifflin.

- Flamm, Kenneth. 1989. "Technological Advance and Costs: Computers versus Communications," in Robert C. Crandall and Kenneth Flamm, eds., *Changing the Rules: Technological Change, International Competition, and Regulation in Communications*, Washington, DC, The Brookings Institution, 13-61.
- Fraumeni, Barbara M. 1997. "The Measurement of Depreciation in the U.S. National Income and Product Accounts," *Survey of Current Business*, Vol. 77, No. 7, July, 7-23.
- \_\_\_\_\_ 2001. "The Jorgenson System of National Accounting," in Lawrence J. Lau, ed., *Econometrics and the Cost of Capital*, Cambridge, MA, The MIT Press, 111-142.
- Fraumeni, Barbara M., and Sumiye Okubo. 2001. "Alternative Treatments of Consumer Durables in the National Accounts," paper presented at a meeting of the BEA Advisory Committee, May 11.
- and \_\_\_\_\_ 2005. "R&D in the National Income and Product Accounts: A First Look at Its Effect on GDP," in Corrado, Haltiwanger, and Sichel (2005), eds., forthcoming.
- Fraumeni, Barbara M., Robert Yuskavage, Michael Harper, and Susan Powers. 2005. "An Integrated BEA/BLS Production Account: A First Step and Theoretical Considerations," this volume.
- Gale, William G., and John Sabelhaus. 1999. "Perspective on the Household Saving Rate," in *Brooking Papers on Economic Activity*, 1, 181-224.
- Gordon, Robert J. 1989. "The Postwar Evolution of Computer Prices," in Jorgenson and Landau (1989), eds., 77-126.
- \_\_\_\_\_ 1990. The Measurement of Durable Goods Prices. Chicago: University of Chicago Press.
- 2001. "Did the Productivity Revival Spill Over from Manufacturing to Services? Conflicting Evidence from Four Data Sources," paper presented at the National Bureau of Economic Research Summer Institute, July 27.
- Griliches, Zvi. 1973. "Research Expenditures and Growth Accounting," in B. R. Williams, ed., *Science and Technology in Economic Growth*, New York, Halstead Press, 59-94.
- Grimm, Bruce T. 1997. "Quality Adjusted Price Indexes for Digital Telephone Switches," Washington, DC, Bureau of Economic Analysis, May 20.
- Hall, Bronwyn H., and Robert E. Hall. 1993. "The Value and Performance of U.S. Corporations," *Brookings Papers on Economic Activity*, 1993:1, 1-34.
- Herman, Shelby W. 2000. "Fixed Assets and Consumer Durable Goods for 1925-99," *Survey of Current Business*, Vol. 80, No. 9, September, 19-30.
- Hill, Peter. 1999. "Capital Stocks, Capital Services and Depreciation," paper presented at a meeting of the Canberra Group on Capital Stock Statistics, Washington, DC, November 8-10.

- Hulten, Charles R. 1992. "Account for the Wealth of Nations: The Net versus Gross Output Controversy and Its Ramifications," *Scandinavian Journal of Economics*, Vol. 94, Supplement, 9-24.
- Hulten, Charles R., and Frank C. Wykoff. 1982. "The Measurement of Economic Depreciation," in Charles R. Hulten, ed., *Depreciation, Inflation and the Taxation of Income from Capital*, Washington, Urban Institute Press, 81-125.
- International Monetary Fund. 1993. Balance of Payments Manual. 5th edition. Washington, DC, IMF.
- Jaszi, George. 1971. "Review: An Economic Accountant's Ledger." In "The Economic Accounts of the United States: Retrospect and Prospect." Survey of Current Business. Part II, 50<sup>th</sup> anniversary issue, Vol. 51, No. 7, July, 221-225.
- Jorgenson, Dale W. 1963. "Capital Theory and Investment Behavior," American Economic Review, Vol. 53, No. 2, May, 247-259.
- \_\_\_\_\_ 1996a. Postwar U.S. Economic Growth, Cambridge, MA, The MIT Press.
- \_\_\_\_\_ 1996b. "Productivity and Postwar U.S. Economic Growth," in Dale W. Jorgenson (1996a), 1-24.
- \_\_\_\_\_ 2001. "Information Technology and the U.S. Economy," *American Economic Review*, Vol. 91, No. 1, March, 1-32.
- 2003. "Information Technology and the G7 Economies." *World Economics*, Vol. 4, No. 4, October/December, 139-169.
- Jorgenson, Dale W., and Barbara M. Fraumeni. 1996a. "The Accumulation of Human and Nonhuman Capital, 1948-84," in Jorgenson (1996a), 273-332.
- Jorgenson, Dale W., and Barbara M. Fraumeni. 1996b. "The Output of the Education Sector," in Jorgenson (1996a), 333-370.
- Jorgenson, Dale W., Frank M. Gollop, and Barbara M. Fraumeni. 1987. *Productivity and U.S. Economic Growth*, Cambridge, MA, Harvard University Press.
- Jorgenson, Dale W., Mun S. Ho, and Kevin J., Stiroh. 2005. "Growth in U.S. Industries and Investments in Information Technology and Higher Education", in Corrado, Haltiwanger, and Sichel, eds., forthcoming.
- Jorgenson, Dale W., and Ralph Landau, eds. 1989. *Technology and Capital Formation*. Cambridge, The MIT Press.
- Jorgenson, Dale W., and Kevin J. Stiroh. 2000. "Raising the Speed Limit: U.S. Economic Growth in the Information Age," *Brookings Papers on Economic Activity*, 1, 125-211.

- Jorgenson, Dale W., and Kun-Young Yun. 2001. Lifting the Burden, Cambridge, MA, The MIT Press.
- Kendrick, John. 1961. *Productivity trends in the United States*, New York, National Bureau of Economic Research.
- Konus, Alexander A., and S. S. Byushgens. 1926. "On the Problem of the Purchasing Power of Money," *Economic Bulletin of the Conjuncture Institute*, Supplement, 151-72.
- Kuznets, Simon. 1946. *National Income: A Summary of Findings*, New York, National Bureau of Economic Research.
- Landefeld, J. Steven. 2000. "GDP: One of the Great Inventions of the 20<sup>th</sup> Century," *Survey of Current Business*, Vol. 80, No. 1, January, 6-14.
- Landefeld, J. Steven, and Carol S. Carson. 1995. "Mid-Decade Strategic Review of BEA's Economic Accounts: Maintaining and Improving Their Performance," *Survey of Current Business*, Vol. 75, No. 2, February, 36-66.
- Landefeld, J. Steven, Carol S. Carson, Gerald F. Donahoe, Bruce T. Grimm, Stephanie L. Howell, Arnold J. Katz, Gary L. Rutledge, Timothy F Slaper, and Eric J. Troyer. 1994. "Integrated Economic and Environment Satellite Accounts," *Survey of Current Business*, Vol. 74, No. 4, April, 33-49.
- Landefeld, J. Steven, and Stephanie L. Howell. 1997. "Accounting for Nonmarketed Household Production within a National Accounts Framework," presentation at the Conference on Time-Use, Nonmarket Work, and Family Well-being, Bureau of Labor Statistics and MacArthur Network on the Family and the Economy Conference, Washington, DC, November 20-21.
- Landefeld, J. Steven, and Stephanie L. Howell. 1998. "USA: Integrated Economic and Environmental Accounting: Lessons from the IEESA," in Kimio Uno and Peter Bartelmus eds. *Environmental Accounting in Theory and Practice*, Vol. 11. Hingham, MA: Kluwer Academic Publishers, 113-129.
- Landefeld, J. Steven, and Robert P. Parker. 1997. "BEA's Chain Indexes, Time Series, and Measures of Long-Run Growth," *Survey of Current Business*, Vol. 77, No. 5, May, 58-68.
- Landefeld, J. Steven, Obie G. Whichard, and Jeffrey H. Lowe. 1993. "Alternative Frameworks for U.S. International Transaction," *Survey of Current Business*, Vol. 73, No. 9, September, 50-61.
- Lawson, Ann, Brian Moyer, Sumiye Okubo, and Mark Planting. 2005. "Integrating Industry and National Economic Accounts: First Steps and Future Improvements," this volume.
- Lusardi, Annamaria, Jonathan Skinner, and Steven Venti. 2001. "Saving Puzzles and Saving Policies in the United States." Working paper no. 8237. Cambridge, MA, National Bureau of Economic Research, April.
- Meadows, Donnella H., Dennis L. Meadows, William W. Behrens, and Jorgen Randers. 1972. *The Limits to Growth: A Report for the Club of Rome's Project on the Predicament of Mankind*, New York, Signet.

- Moulton, Brent R. 2000a. "Getting the 21<sup>st</sup>-Century GDP Right: What's Underway?" *The American Economic Review*, Vol. 90, No. 2, May, 253-258.
- 2000b. "Improved Estimates of the National Income and Product Accounts for 1929-99: Results of the Comprehensive Revision," *Survey of Current Business*, Vol. 80, No. 4, April, 11-17, 36-145.
- \_\_\_\_\_ 2001. "Working with Chain-Type Indexes: A Few Tricks," paper presented at the Forecasters Club of New York, June 16.
- 2004. "The System of National Accounts for the New Economy: What Should Change?" *Review of Income and Wealth*, Vol. 50, No. 2, June, pp. 261-278.
- National Research Council. 1999. Nature's Numbers, Washington, National Academy Press.
- Nordhaus, William D. 2002. "Productivity Growth and the New Economy," *Brookings Papers on Economic Activity*, 2, 211-265.
- 2005. "Principles of National Accounting for Non-Market Accounts," this volume.
- Nordhaus, William D., and James Tobin. 1973. "Is Growth Obsolete?" in Milton Moss, ed., *The Measurement of Economic and Social Performance*. New York, Columbia University Press, 509-532.
- Office of Management and Budget. 1997. *Analytical Perspectives: Budget of the United State Government Fiscal Year 1998*, Washington, DC, 5-6.
- Okubo, Sumiye, and Mark A. Planting. 1998. "U.S. Travel and Tourism Satellite Accounts for 1992," *Survey of Current Business*, Vol. 78, No. 7, July, 8-22.
- Oliner, Stephen D., and Daniel E. Sichel. 1994. "Computers and Output Growth Revisited: How Big is the Puzzle?" *Brookings Papers on Economic Activity*, 2, 273-317.
- and \_\_\_\_\_ 2000. "The Resurgence of Growth in the Late 1990's: Is Information Technology the Story?" *Journal of Economic Perspectives*, Vol. 14, No. 4, Fall, 3-22.
- Parker, Robert P., and Bruce T. Grimm. 2000. "Recognition of Business and Government Expenditures on Software as Investment: Methodology and Quantitative Impacts, 1959-98," Washington, Bureau of Economic Analysis, November 14.
- Peach, Richard, and Charles Steindel. 2000. "A Nation of Spendthrifts? An Analysis of Trends in Personal and Gross Saving." *Current Issues in Economics and Finance*. September, 1-6.
- Perozek, Maria G., and Marshal B. Reinsdorf. 2002. "Alternative Measures of Personal Saving." *Survey of Current Business*, Vol. 82, No. 4, April, 13-24.
- Reinsdorf, Marshall B. 2005. "Saving, Wealth, Investment, and the Current-Account Deficit", *Survey of Current Business*, Vol. 85, No. 4, April, 3.

- Ruggles, Richard and Nancy D. Ruggles. 1982. "Integrated Economic Accounts for the United States, 1947-80," *Survey of Current Business*, Vol. 62, No. 5, May, 1-53.
- Samuelson, Paul A. 1961. "The Evaluation of 'Social Income': Capital Formation and Wealth", in Friedrich A. Lutz and Douglas C. Hague, eds., *The Theory of Capital*, London, Macmillan, 32-57.
- Stiroh, Kevin. 2002. "Information Technology and the U.S. Productivity Revival: What Do the Industry Data Say?" *American Economic Review*, Vol. 92, No. 5, December, 1559-1576.
- System of National Accounts. 1993. Commission of the European Communities, International Monetary Fund, Organization for Economic Co-operation and Development, United Nations, and World Bank, Brussels.
- Teplin, Albert M., Rochelle Antoniewicz, Susan Hume McIntosh, Michael Palumbo, Genevieve Solomon, Charles Ian Mead, Brent Moulton, and Karin Moses. 2005. "Integrated Macroeconomic Accounts for the United States: Draft SNA-USA," this volume.
- Triplett, Jack E. 1986. "The Economic Interpretation of Hedonic Methods," *Survey of Current Business*, Vol. 66, No. 1, January, 36-40.
- \_\_\_\_\_ 1989. "Price and Technological Change in a Capital Good: Survey of Research on Computers," in Jorgenson and Landau (1989), 127-213.
- \_\_\_\_\_ 2005. "Performance Measures for Computers," in Charles Wessner, ed., *Deconstructing the Computer*, Washington, National Academy Press, forthcoming.
- Triplett, Jack E., and Barry P. Bosworth. 2004. *Productivity in the U.S. Services Sector: New Sources of Economic Growth*, Washington, DC, The Brookings Institution.
- United Nations. 1993. *Integrated Environmental and Economic Accounting*. Studies in Methods, Handbook of National Account, Series F, No. 61. New York, United Nations.
- Weitzman, Martin L. 1976. "On the Welfare Significance of National Product in a Dynamic Economy," *Quarterly Journal of Economics*, Vol. 90, No. 364, February, 156-162.
- \_\_\_\_\_ 2003. Income, Wealth, and the Maximum Principle. Cambridge, MA, Harvard University Press.
- Wright, Gavin. 1990. "The Origins of American Industrial Success, 1879-1940," *American Economic Review*, September, 651-668.

## Table 1: NIPA Summary Accounts, 2002

9 PERSONAL TAXES, OUTLAYS, AND SAVING

Account 1. Dome	estic Inc	ome and Product Account	
Line		Line	
1 Compensation of employees, paid	6,024.3	15 Personal consumption expenditures (3-3)	7,385.3
2 Wage and salary accruals	4,979.8	16 Durable goods	911.3
3 Disbursements (3-12 and 5-11)	4,979.8	17 Nondurable goods	2,086.0
4 Wage accruals less disbursements (4-9 and 6-11)	0.0	18 Services	4,388.0
5 Supplements to wages and salaries (3-14)	1,044.5	19 Gross private domestic investment	1,589.2
6 Taxes on production and imports (4-16)	760.1	20 Fixed investment (6-2)	1,583.9
7 Less: Subsidies (4-8)	38.2	21 Nonresidential	1,080.2
8 Net operating surplus 9 Private enterprises (2-19)	2,523.2 2,520.3	22 Structures 23 Fouriement and software	266.3
10 Current surplus of government enterprises (4-26)	2,320.3	<ul><li>Equipment and software</li><li>Residential</li></ul>	813.9 503.7
11 Consumption of fixed capital (6-13)	1,288.6	25 Change in private inventories (6-4)	5.4
11 Consumption of fixed capital (6-13)	1,200.0	26 Net exports of goods and services	-426.3
12 Gross domestic income	10,558.0	27 Exports (5-1)	1,006.8
	,	28 Imports (5-9)	1,433.1
13 Statistical discrepancy (6-19)	-77.2	29 Government consumption expenditures and gross investment (4-1 and 6-	1,932.5
		30 Federal	679.5
		31 National defense	438.3
		32 Nondefense	241.2
		33 State and local	1,253.1
14 GROSS DOMESTIC PRODUCT	10,480.8	34 GROSS DOMESTIC PRODUCT	10,480.8
Account 2. Pri	vate Ent	erprise Income Account	
Line		Line	
1 Income payments on assets	2,316.7	19 Net operating surplus (1-9)	2,520.3
2 Interest and miscellaneous payments (3-20 and 4-21)	2,267.7	20 Income receipts on assets	1,761.1
3 Dividend payments to the rest of the world (5-14)	42.1	21 Interest (3-20)	1,558.7
4 Reinvested earnings on foreign direct investment in the U.S. (5-15)	6.9	22 Dividend receipts from the rest of the world (5-6)	81.5
5 Business current transfer payments (net)	89.8	23 Reinvested earnings on U.S. direct investment abroad (5-7)	121.0
6 To persons (net) (3-24)	42.6		
7 To government (net) (4-24)	46.8		
8 To the rest of the world (net) (5-19)	0.4		
9 Proprietors' income with inventory valuation and capital consumption			
adjustments (3-17)	797.7		
10 Rental income of persons with capital consumption adjustment (3-18)	173.0		
11 Corporate profits with inventory valuation and capital consumption	004.2		
adjustments 12 Taxes on corporate income	904.2 195.0		
13 To government (4-17)	185.9		
13 To government (4-17) 14 To the rest of the world (5-19)	9.2		
15 Profits after tax with inventory valuation and capital consumption	7.2		
adjustments	709.1		
16 Net dividends (3-21 and 4-22)	398.3		
17 Undistributed corporate profits with inventory valuation and capital			
consumption adjustments (6-10)	310.8		
18 USES OF PRIVATE ENTERPRISE INCOME	4,281.5	24 SOURCES OF PRIVATE ENTERPRISE INCOME	4,281.5
Account 3. Pers	onal Inc	ome and Outlay Account	
Line		Line	
1 Personal current taxes (4-15)	1,053.1	10 Compensation of employees, received	6,019.1
2 Personal outlays	7,674.0	11 Wage and salary disbursements	4,974.6
3 Personal consumption expenditures (1-15)	7,385.3	12 Domestic (1-3 less 5-11)	4,971.4
4 Personal interest payments (3-20)	194.7	13 Rest of the world (5-3)	3.2
5 Personal current transfer payments	94.0	14 Supplements to wages and salaries (1-5)	1,044.5
6 To government (4-25)	58.6	Employer contributions for employee pension and insurance funds	680.4
7 To the rest of the world (net) (5-17)	35.4	16 Employer contributions for government social insurance	364.1
8 Personal saving (6-9)	183.2	17 Proprietors' income with inventory valuation and capital consumption	797.7
		adjustments (2-9) 18 Rental income of persons with capital consumption adjustment (2-10)	173.0
		19 Personal income receipts on assets	1,378.5
		20 Personal interest income (2-2 and 3-4 and 4-7 and 5-5 less 2-21 less	1,570.5
		4-21 less 5-13)	982.4
		21 Personal dividend income (2-16 less 4-22)	396.2
		22 Personal current transfer receipts	1,292.2
		23 Government social benefits (4-4)	1,249.5
		24 From business (net) (2-6)	42.6
		25 Less: Contributions for government social insurance (4-19)	750.3

8,910.3 26 PERSONAL INCOME

8,910.3

## Table 1: NIPA Summary Accounts, 2002 (Continued)

Account 4. Governme	nt Recei	pts and Expenditures Account	
Line		Line	
1 Consumption expenditures (1-29)	1,595.4	14 Current tax receipts	2,006.2
2 Current transfer payments	1,271.1	15 Personal current taxes (3-1)	1,053.1
3 Government social benefits	1,252.3	16 Taxes on production and imports (1-6)	760.1
4 To persons (3-23)	1,249.5	17 Taxes on corporate income (2-13)	185.9
5 To the rest of the world (5-18)	2.7	18 Taxes from the rest of the world (5-18)	7.2
6 Other current transfer payments to the rest of the world (net) (5-18)	18.8	19 Contributions for government social insurance (3-25)	750.3
7 Interest payments (3-20)	319.3	20 Income receipts on assets	116.1
8 Subsidies (1-7)	38.2	21 Interest and miscellaneous receipts (2-2 and 3-20)	114.0
9 Less: Wage accruals less disbursements (1-4)	0.0	22 Dividends (3-21)	2.1
10 Net government saving (6-12)	-243.3	23 Current transfer receipts	105.3
11 Federal	-240.0	24 From business (net) (2-7)	46.8
12 State and local	-3.2	25 From persons (3-6)	58.6
12 COMPRIMENT CURRENT EMPENDITURES AND NEW CAND.	2 000 7	26 Current surplus of government enterprises (1-10)	2.8
13 GOVERNMENT CURRENT EXPENDITURES AND NET SAVI		27 GOVERNMENT CURRENT RECEIPTS	2,980.7
Account 5. Forei	gn Trans	sactions Current Account	
Line		Line	
1 Exports of goods and services (1-27)	1,006.8	9 Imports of goods and services (1-28)	1,433.1
2 Income receipts from the rest of the world	299.1	10 Income payments to the rest of the world	277.6
3 Wage and salary receipts (3-13)	3.2	11 Wage and salary payments (1-3)	8.4
4 Income receipts on assets	296.0	12 Income payments on assets	269.2
5 Interest (3-20)	93.5	13 Interest (3-20)	220.2
6 Dividends (2-22)	81.5	14 Dividends (2-3)	42.1
7 Reinvested earnings on U.S. direct investment abroad (2-23)	121.0	15 Reinvested earnings on foreign direct investment in the U.S. (2-4)	6.9
		16 Current taxes and transfer payments to the rest of the world (net)	59.3
		17 From persons (net) (3-7)	35.4
		18 From government (net) (4-5 and 4-6 less 4-18)	14.3
		19 From business (net) (2-8 and 2-14)	9.6
		20 Balance on current account, national income and product accounts (7-1) 21 CURRENT PAYMENTS TO THE REST OF THE WORLD	-464.1
8 CURRENT RECEIPTS FROM THE REST OF THE WORLD	1,306.0	AND BALANCE ON CURRENT ACCOUNT	1,306.0
Account 6	. Domest	tic Capital Account	
Line		Line	
1 Gross domestic investment	1,926.3	8 Net saving	250.8
2 Private fixed investment (1-20)	1,583.9	9 Personal saving (3-8)	183.2
3 Government fixed investment (1-29)	337.1	10 Undistributed corporate profits with inventory valuation and capital	100.2
(/		consumption adjustments (2-17)	310.8
4 Change in private inventories (1-25)	5.4	11 Wage accruals less disbursements (private) (1-4)	0.0
5 Capital account transactions (net) (7-2)	1.3	12 Net government saving (4-10)	-243.3
6 Net lending or net borrowing (-), national income and product		13 Plus: Consumption of fixed capital (1-11)	1,288.6
accounts (7-3)	-465.4	14 Private	1,077.8
		15 Government	210.8
		16 General government	177.6
		17 Government enterprises	33.2
		18 Equals: Gross saving	1,539.4
		19 Statistical discrepancy (1-13)	-77.2
7 GROSS DOMESTIC INVESTMENT, CAPITAL ACCOUNTS			
TRANSACTIONS, AND NET LENDING	1,462.2	20 GROSS SAVING AND STATISTICAL DISCREPANCY	1,462.2
Account 7. Fore	ign Tran	sactions Capital Account	
Line		Line	
		2 Capital account transactions (net) (6-5)	1.3
		3 Net lending or net borrowing (-), national income and product	
		accounts (6-6)	-465.4
1 BALANCE ON CURRENT ACCOUNT, NATIONAL INCOME AS PRODUCT ACCOUNTS (5-20)	ND -464.1	4 CAPITAL ACCOUNT TRANSACTIONS (NET) AND NET LENDII NATIONAL INCOME AND PRODUCT ACCOUNTS	NG, -464.1

Source: Survey of Current Business, February 2004, pp. 37-38.

Note: Table 1 is consistent with the 2002 Benchmark Revision of the U.S. National Accounts, while subsequent tables and figures are based on the 2003 Annual Revision, which appears in <u>Survery of Current Business</u>, August 2004, pp. 36-166.

## Table 2: System of National Accounts 1993

	Non-		General				Rest	
		Financial	govern-	House-		Total	of the	
	corp.	corp.	ment	holds	NPISHs	economy	world	Total
Current accounts				Uses & l	Resources			
Production/external account of goods and services								
Distribution and use of income accounts								
Generation of income account								
Allocation of primary income account								
Secondary distribution of income account								
Redistribution of income in kind account								
Use of income account								
Accumulation accounts		Changes in assets & Changes in liabilities and net worth						
Capital account								
Financial account								
Other changes in volume of assets account								
Revaluation account								
Balance sheets				Assets &	Liabilities			
Opening balance sheet								
Changes in balance sheet								
Closing balance sheet								

Source: Commission of the European Communities, International Monetary Fund, Organisation for Economic Cooperation and Development, United Nations, and the World Bank.

<u>System of National Accounts 1993</u>. Brussels/Luxembourg, New York, Paris, and Washington D.C. 1993. pp. 28, 60-65.

*NPISH* = *Nonprofit institutions serving households.* 

Table 3: IEESA Production Account

			Industri	es				Final uses	(GDP)			
				·		Final cor	nsumption		_	_		
			Mining,									
			utilities,					~			~~~	
			water,					Gross			GDP	Total
		Agriculture,	and					domestic			(5+6+	commodity
		forestry, and		Other		House-		capital			7+8+9	output
	Row	fisheries		industries			ment	formation				(4+10)
COMMODITIES		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
COMMODITIES Made	1											
Assets												
Fixed assets	2 3											
Environmental management	4											
Pollution abatement and control	5											
Other	6											
Inventories	7											
Government	8											
Nonfarm	9											
Farm	10											
Other	11											
Environmental cleanup and waste disposal services	12											
Other	13											
Natural and environmental assets	14											
Fixed	15											
Cultivated biological resources: Natural growth	16											
Proved subsoil assets	17											
Developed land	18											
Uncultivated biological resources: Natural growth	19											
Unproved subsoil assets	20											
Undeveloped land	21											
Water	22											
Air	23											
Work-in-progress inventories (natural growth products)	24											
Total intermediate inputs	25											
VALUE ADDED												
Compensation of employees	26											
Indirect business taxes, etc.	27											
Corporate profits and other property income	28											
Depreciation of fixed made assets: Structures and												
equipment	29											
Environmental management	30											
Pollution abatement and control	31											
Other	32											
Depletion and degradation of fixed natural and												
environmental assets	33											
Growth products: Fixed	34											
Proved subsoil assets	35											
Developed land	36											
Uncultivated biological resources	37											
Unproved subsoil assets	38											
Undeveloped land	39											
Water	40											
Air	41											
Green value added (GDP) (resum 25 : 27 : 29 : 20 : 22)	42											
Gross value added (GDP) (rows 25+27+28+29+33) Depreciation, depletion, and degradation (rows 29+33)	42											
Net value added (NDP) (rows 42-43)	43 44											
rect value added (ND1 ) (10WS 42-43)	44											
TOTAL INDUSTRY OUTPUT	45											
		l				1						L

Source: Survey of Current Business, April 1994, pg. 47.

Table 4: IEESA Asset Account

				Chs	nge		
				Depreciation,	<del>-</del> 5~	Revaluation	Closing
		Opening	Total, net	depletion,	Capital	and other	stocks
	Row	stocks	(3+4+5)	degradation	formation	changes	(1+2)
		(1)	(2)	(3)	(4)	(5)	(6)
PRODUCED ASSETS							
Made assets	1						
Fixed assets	2 3						
Residential structures and equipment, private and government							
Fixed nonresidential structures and equipment, private and governmen							
Natural resource related	5						
Environmental management	6						
Conservation and development	7						
Water supply facilities	8						
Pollution abatement and control	9						
Sanitary services	10						
Air pollution abatement and control	11						
Water pollution abatement and control	12						
Other	13						
Inventories	14						
Government	15						
Nonfarm	16						
Farm (harvested crops, and livestock other than cattle and claves)	17						
Corn	18						
Soybeans	19						
All wheat	20						
Other	21						
Developed natural assets	22						
Cultivated biological resources	23						
Cultivated fixed natural growth assets	24						
Livestock for breeding, dairy, draught, etc.	25						
Cattle	26						
Fish stock	27						
Vineyards, orchards	28						
Trees on timberland	29						
Work-in-progress on natural growth products	30						
Livestock raised for slaughter	31						
Cattle	32						
Fish stock	33						
Calves	34						
Crops and other produced plants, not yet harvested	35						
Proved subsoil assets	36						
Oil (including natural gas liquids)	37						
Gas (including natural gas liquids)	38						
Coal	39						
Metals	40						
Other minerals	41 42						
Developed land							
Land underlying structures (private)	43						
Agricultural land (excluding vineyards, orchards) Soil	44 45						
Recreational land and water (public)	46 47						
Forest and other wooded land	4/						
NONDDODICED/ENVIDONMENTAL ACCETS							
NONPRODUCED/ENVIRONMENTAL ASSETS Uncultivated biological resources	48						
Wild fish	49						
	50						
Timber and other plants of uncultivated forests Other uncultivated biological resources	51						
Unproved subsoil assets	52						
Undeveloped land	53						
Water (economic effects of changes in the stock)	54						
Air (economic effects of changes in the stock)	55						
An (economic effects of changes in the stock)		1	]				

Source: Survey of Current Business, April 1994, pg. 41.

# Figure 1: Blueprint for an Expanded and Integrated Set of Accounts for the United States

### 1. PRODUCTION

Gross Domestic Product Equals Gross Domestic Factor Outlay

2. DOMESTIC RECEIPTS	3. FOREIGN TRANSACTION CURRENT ACCOUNT
AND EXPENDITURES	Receipts from Rest of World Equal
Domestic Receipts Equal	Payments to Rest of World and
Domestic Expenditure	Balance on Current Account
	- <u> </u>
4. DOMESTIC CAPITAL ACCOUNT	5. FOREIGN TRANSACTION CAPITAL ACCOUNT
Gross Investment Equals	Balance on Current Account Equals
Gross Savings	Payments to Rest of the World and
	Net Lending or Borrowing
	_
6. DOMESTIC BALANCE SHEET	7. U.S. INTERNATIONAL POSITION
Domestic Wealth Equals	U.SOwned Assets Abroad Equal
Domestic Tangible Assets and	Foreign-Owned Assets in U.S. and
U.S. Net International Position	U.S. Net International Position

Table 5: Domestic Income and Product Account, 2002

Line	Product	Source	Total
1	GDP (NIPA)	NIPA 1.1.5 line 1	10,487.0
2	+ Services of consumers' durables	our imputation	1,082.2
3	+ Services of durables held by institutions	our imputation	31.8
4	+ Services of durables, structures, land, and inventories held by government	our imputation	340.6
5	- General government consumption of fixed capital	NIPA 3.10.5 line 5	178.0
6	- Government enterprise consumption of fixed capital	NIPA 3.1 line 38 - 3.10.5 line 5	33.2
7	- Federal taxes on production and imports	NIPA 3.2 line 4	87.3
8	- Federal current transfer receipts from business	NIPA 3.2 line 16	14.0
9	- S&L taxes on production and imports	NIPA 3.3 line 6	675.3
10	- S&L current transfer receipts fom business	NIPA 3.3 line 18	32.8
11	+ Capital stock tax	-	0.0
12	+ MV tax	NIPA 3.5 line 28	6.9
13	+ Property taxes	NIPA 3.3 line 8	291.5
14	+ Severance, special assessments, and other taxes	NIPA 3.5 line 29,30,31	47.8
15	+ Subsidies	NIPA 3.1 line 25	38.2
16	- Current surplus of government enterprises	NIPA 3.1 line 14	2.8
17 =	Gross domestic product		11,303.1
Line	Income	Source	Total
1	+ Consumption of fixed capital	NIPA 5.1 line 13	1,303.9
2	+ Statistical discrepancy	NIPA 5.1 line 26	-15.3
3	+ Services of consumers' durables	our imputation	1,082.2
4	+ Services of durables held by institutions	our imputation	31.8
5	+ Services of durables, structures, land, and inventories held by government	our imputation	340.6
6	- General government consumption of fixed capital	NIPA 3.10.5 line 5	178.0
7	- Government enterprise consumption of fixed capital	NIPA 3.1 line 38 - 3.10.5 line 5	33.2
8	+ National income	NIPA 1.7.5 line 16	9,225.4
9	- ROW income	NIPA 1.7.5 line 2-3	27.1
10	- Sales tax	Product Account	463.2
11	+ Subsidies	NIPA 3.1 line 25	38.2
12	- Current surplus of government enterprises	NIPA 3.1 line 14	2.8

Table 6: Domestic Income and Product Account, 1948-2002

		inesue n	icome and	i i ioduc	Accoun
(Billions of C		Instruction and Consider	C		
Year	Gross Domestic Product	Investment Goods Product	Consumption Goods Product	Labor Income	Capital Income
1948	290.8	78.7	212.1	173.2	116.9
1949	285.6	72.2	213.5	173.6	111.2
1950	319.9	92.4	227.5	187.0	132.0
1951	366.3	106.3	260.0	213.6	152.1
1952	387.1	103.8	283.3	228.7	158.0
1953	409.6	110.7	298.8	244.4	165.0
1954	415.5	107.2	308.3	244.5	171.2
1955	448.0	127.0	321.0	262.7	185.4
1956	475.7	132.0	343.8	283.6	192.6
1957	493.5	134.8	358.6	297.5	195.3
1958	512.7	126.8	385.9	299.3	213.7
1959	542.1	145.0	397.1	323.5	218.7
1960	576.9	148.5	428.5	339.5	237.2
1961	588.8	150.3	438.5	348.7	239.8
1962	626.4	165.7	460.7	371.3	255.2
1963	658.4	176.1	482.4	388.9	269.3
1964	713.4	190.8	522.6	416.2	297.0
1965	779.9	212.9	567.0	446.6	333.2
1966	864.4	234.7	629.6	490.3	374.1
1967	900.4	236.8	663.5	522.6	377.9
1968	980.9	257.1	723.8	575.2	405.7
1969	1,063.0	276.5	786.5	632.1	431.1
1970	1,096.3	272.9	823.5	673.1	422.9
1971	1,197.6	303.5	894.0	719.0	478.5
1972	1,350.5	343.8	1,006.7	789.3	561.1
1973	1,525.7	398.2	1,127.5	880.9	644.9
1974	1,652.2	415.5	1,236.7	966.1	686.0
1975	1,789.6	427.3	1,362.4	1,029.5	760.0
1976	2,012.7	508.6	1,504.1	1,147.5	865.3
1977	2,265.3	590.8	1,674.5	1,279.4	986.0
1978	2,558.3	687.3	1,871.0	1,448.6	1,109.5
1979	2,803.2	774.9	2,028.2	1,628.4	1,174.9
1980	3,000.7	784.8	2,215.9	1,792.6	1,207.8
1981	3,338.3	884.9	2,453.4	1,980.5	1,358.1
1982	3,489.8	837.4	2,652.4	2,090.2	1,399.4
1983	3,845.2	904.1	2,941.1	2,219.2	1,626.1
1984	4,308.4	1,093.3	3,215.0	2,447.9	1,860.6
1985	4,575.2	1,140.4	3,434.9	2,626.0	1,949.2
1986	4,814.6	1,177.1	3,637.5	2,785.0	2,030.0
1987	5,105.7	1,241.1	3,864.6	2,978.8	2,126.7
1988	5,546.9	1,320.5	4,226.4	3,214.1	2,332.7
1989	5,939.4	1,413.9	4,525.5	3,402.5	2,537.1
1990	6,245.4	1,436.7	4,808.7	3,610.4	2,635.2
1991	6,427.8	1,377.5	5,050.2	3,733.9	2,693.6
1992	6,790.5	1,454.4	5,336.1	3,931.5	2,858.8
1993	7,087.0	1,552.1	5,534.8	4,118.3	2,968.7
1994	7,501.0	1,705.2	5,795.8	4,332.5	3,168.3
1995	7,859.4	1,782.8	6,076.5	4,535.5	3,323.9
1996	8,340.0	1,934.2	6,405.8	4,749.1	3,591.2
1997	8,908.0	2,132.6	6,775.4	5,035.2	3,872.7
1998	9,366.3	2,266.8	7,099.5	5,409.0 5,763.1	3,956.9
1999	9,943.0	2,409.0	7,534.0	5,763.1	4,180.0
2000	10,525.6	2,528.8	7,996.8	6,204.4	4,321.6
2001	10,958.6	2,476.4	8,482.3	6,367.8	4,590.7
2002	11,303.1	2,439.4	8,863.7	6,493.5	4,809.4

## Table 7: Income and Expenditures Account, 2002

Line	Income	Source	Total
1	+ Gross income	Product Account	11,303.1
2	+ Sales tax	Product Account	463.2
3	- Subsidies	NIPA 3.1 line 25	38.2
4	+ Current surplus of government enterprises	NIPA 3.1 line 14	2.8
5	= Gross domestic income at market prices		11,730.9
6	+ Income receipts from the rest of the world	NIPA 1.7.5 line 2	301.8
7	- Income payments to the rest of the world	NIPA 1.7.5 line 3	274.7
8	- Current taxes and transfers to the rest of the world (net)	NIPA 4.1 line 25	59.8
9	= Gross income		11,698.2
10	- Depreciation	our imputation	1,934.3
11	= Net income		9,763.9
Line	Expenditures	Source	Total
1	+ Personal consumption expenditures		7,574.0
2	PCE nondurable goods (NIPA)	NIPA 2.3.5 line 6	2,080.1
3	PCE services	NIPA 2.3.5 line 13	4,379.8
4	Less space rental value of inst building and nonfarm dwellings	our imputation	3,605.9
5	Services of consumers' durables	our imputation	1,082.2
6	Services of structures and land	our imputation	773.9
7	Services of durables held by institutions	our imputation	31.8
8	+ Government consumption expenditures		1,738.7
9	Government consumption nondurable goods	NIPA 3.10.5 line 8	162.4
10	Government intermediate purchases, durable goods	NIPA 3.10.5 line 7	47.7
11	Government consumption services total		226.4
12	Government consumption services	NIPA 3.10.5 line 9	498.7
13	Less sales to other sectors	NIPA 3.10.5 line 11	272.3
14	Services of durables, structures, land, and inventories held by government	our imputation	340.6
15	Less government enterprise consumption of fixed capital	NIPA 3.1 line 38 - 3.10.5 line 5	33.2
16	Government compensation of employees exluding force account labor	NIPA 3.10.5 line 4-10	994.8
17	+ Gross national saving and statistical discrepancy	Capital Account	2,385.2
	- Depreciation	our imputation	1,934.3
18	= Net domestic expenditures		9,763.6

Table 8: Income and Expenditures Account, 1948-2002

(Billions of Current \$)

1948	Year	Net Income	Labor Income	Net Capital Income	Personal Consumption Expenditures	Government Consumption Expenditures	Net Saving and Statistical Discrepancy
1950	1948	262.5	173.2	89.2	179.0	39.5	43.9
1951   3272   213.6	1949	252.2	173.7	78.5	176.8	43.3	32.0
1952   347.0   228.7   118.3   227.0   68.4   51.4   1953   367.1   244.4   122.7   234.4   79.5   53.1   1954   369.7   244.5   125.2   247.1   76.4   46.1   1955   400.3   262.6   137.6   262.0   74.9   63.4   1955   400.3   262.6   137.6   282.7   77.2   63.1   1957   435.0   297.4   137.6   290.2   83.8   60.9   1958   452.5   299.2   153.3   308.4   96.5   47.4   1959   478.0   323.4   134.6   318.1   96.8   63.2   1960   512.1   339.4   172.7   343.8   104.0   64.4   1961   521.3   348.6   172.7   355.5   102.6   63.4   1962   558.4   371.2   187.2   371.4   110.3   76.9   1963   588.0   388.9   199.1   388.2   115.7   84.3   1964   640.5   446.7   256.2   454.6   136.0   112.5   1965   702.9   446.7   256.2   454.6   136.0   112.5   1966   778.6   490.3   288.3   500.1   153.9   124.4   1967   805.8   522.6   283.2   519.9   170.1   115.7   1968   879.4   575.2   304.1   567.5   187.2   124.8   1969   951.2   632.2   319.1   626.6   194.1   130.5   1970   970.2   673.2   297.1   664.8   193.0   112.5   1971   106.15   719.0   342.5   723.1   208.2   231.1   106.5   1974   1,470.3   966.1   504.2   969.8   321.7   178.9   1975   1,569.5   1,029.5   540.0   1,054.5   307.8   1977   2,006.2   1,279.4   726.8   1,319.7   439.4   247.1   1978   2,264.5   1,485.8   860.2   281.1   201.3   1979   2,469.1   1,628.4   840.7   1,641.7   485.3   342.1   1988   3,786.1   2,447.7   1,338.4   2,527.0   838.8   420.2   1988   4,178.9   2,799.8   2,090.0   99.7   2,134.0   632.2   233.7   178.9   1978   2,264.5   1,485.8   3,122.3   1,188.1   563.3   1,198.4   3,786.1   2,447.7   1,338.4   2,527.0   838.8   420.2   1,299.8   2,090.0   99.7   2,134.0   632.2   233.7   1,488.2   1,498.2   2,999.8   2,090.0   99.7   2,134.0   632.2   233.7   1,988   3,41.3   2,217.4   1,435.8   3,122.3   918.7   3,799.9   3,848.3   3,401.2   1,788.1   3,654.8   1,044.4   4,603.3   1,985.5   3,985.5   1,987.6   4,587.5   1,398.5   1,999.5   5,915.5   3,988.5   1,987.0   4,310.9   1,211.3   3,932.1   1,988   4,005.2   2,625.8   1,379.4   2	1950	285.6	187.1	98.5	189.6	47.3	48.6
1953   367.1   244.4   122.7   234.4   79.5   53.1     1954   369.7   244.5   125.2   247.1   76.4   46.1     1955   400.3   262.6   137.6   262.0   74.9   63.4     1956   423.1   283.5   139.6   282.7   77.2   63.1     1957   435.0   297.4   137.6   290.2   83.8   60.9     1958   452.5   299.2   153.3   308.4   96.5   47.4     1959   478.0   323.4   154.6   318.1   96.8   63.2     1960   512.1   339.4   172.7   343.8   104.0   64.4     1961   521.3   348.6   172.7   343.8   104.0   64.4     1962   558.4   371.2   187.2   371.4   110.3   76.9     1963   588.0   388.9   199.1   388.2   115.7   84.3     1964   640.5   416.2   224.3   417.5   127.1   96.0     1965   702.9   446.7   256.2   454.6   136.0   112.5     1966   778.6   490.3   288.3   500.1   153.9   124.4     1967   805.8   522.6   283.2   519.9   170.1   115.7     1968   879.4   575.2   304.1   567.5   187.2   124.8     1969   951.2   632.2   319.1   626.6   194.1   130.5     1971   1,061.5   719.0   342.5   723.1   208.2   130.1     1972   1,198.8   789.3   409.6   799.0   248.1   151.7     1973   1,368.7   880.9   487.8   886.2   281.1   201.3     1974   1,470.3   966.1   504.2   960.8   321.7   178.9     1975   1,569.5   1,029.5   540.0   1,054.9   360.6   53.9     1976   1,778.7   1,147.4   631.3   1,167.2   405.5   206.0     1977   2,006.2   1,279.4   726.8   1,319.7   439.4   247.1     1978   2,264.5   1,448.5   816.0   1,479.0   477.8   307.8     1988   2,993.1   1,628.4   840.7   1,641.7   485.3   342.1     1988   2,993.1   1,980.4   922.8   1,998.5   572.9   331.8     1982   2,999.8   2,090.0   90.7   2,134.0   632.2   233.7     1984   3,786.1   2,447.7   1,338.4   2,527.0   888.8   420.2     1985   3,603.1   1,980.4   922.8   1,998.5   572.9   331.8     1982   2,999.8   2,090.0   90.7   2,134.0   632.2   233.7     1984   3,786.1   2,447.7   1,338.4   2,527.0   888.8   402.2     1985   4,603.2   3,603.1   1,815.4   3,914.2   1,086.2   423.2     1995   5,648.3   4,331.4   2,313.2   1,878.2   4,072.7   1,158.4     379.1   1,444.4   460.3   3,	1951	327.2	213.6	113.6	213.3	56.4	57.4
1954   369.7   244.5   125.2   247.1   76.4   46.1   1955   400.3   262.6   137.6   262.0   74.9   63.4   1956   423.1   283.5   139.6   282.7   77.2   63.1   1957   435.0   297.4   137.6   290.2   83.8   60.9   1958   452.5   299.2   153.3   308.4   96.5   47.4   1959   478.0   323.4   154.6   318.1   96.8   63.2   1960   512.1   339.4   172.7   343.8   104.0   64.4   1962   558.4   371.2   187.2   371.4   110.3   76.9   1963   558.0   388.9   199.1   388.2   115.7   84.3   1964   640.5   416.2   224.3   417.5   127.1   96.0   1965   702.9   446.7   256.2   454.6   136.0   112.5   1966   778.6   490.3   288.3   500.1   153.9   124.4   1967   805.8   522.6   283.2   519.9   170.1   115.7   1968   879.4   575.2   304.1   567.5   187.2   124.8   1970   970.2   673.2   239.1   664.8   193.0   112.5   1970   970.2   673.2   239.1   664.8   193.0   112.5   1971   1.061.5   719.0   342.5   723.1   208.2   130.1   1972   1,198.8   789.3   409.6   799.0   248.1   151.7   1973   1,368.7   880.9   487.8   886.2   281.1   201.3   1976   1,778.7   1,147.4   631.3   1,167.2   405.5   206.0   1978   2,264.5   1,448.5   816.0   1,479.0   477.8   307.8   1981   2,264.5   1,448.5   816.0   1,479.0   477.8   307.8   1988   4,178.9   4,178.3   2,291.1   1,988   4,179.2   4,179.3   4	1952	347.0	228.7	118.3	227.0	68.4	51.4
1954   369.7   244.5   125.2   247.1   76.4   46.1   1956   403.3   262.6   137.6   262.0   74.9   63.4   1956   423.1   283.5   139.6   282.7   77.2   63.1   1957   435.0   297.4   137.6   290.2   83.8   60.9   1958   452.5   299.2   153.3   308.4   96.5   47.4   1959   478.0   323.4   154.6   318.1   96.8   63.2   1960   512.1   339.4   172.7   343.8   104.0   64.4   1961   521.3   348.6   172.7   355.5   102.6   63.4   1962   558.4   371.2   187.2   371.4   110.3   76.9   1963   588.0   388.9   199.1   388.2   115.7   84.3   1964   640.5   416.2   224.3   417.5   127.1   96.0   1965   702.9   446.7   256.2   454.6   136.0   112.5   1966   778.6   490.3   288.3   500.1   153.9   124.4   1967   805.8   522.6   283.2   519.9   170.1   115.7   1968   879.4   575.2   304.1   567.5   187.2   124.8   1970   970.2   673.2   297.1   664.8   193.0   112.5   1971   1,061.5   719.0   342.5   723.1   208.2   130.1   1972   1,198.8   789.3   409.6   799.0   248.1   151.7   1973   1,368.7   880.9   487.8   886.2   281.1   201.3   1974   1,470.3   966.1   504.2   506.0   1,54.9   360.6   153.9   1976   1,778.7   1,147.4   631.3   1,167.2   405.5   206.0   1977   2,066.2   1,279.4   762.8   1,319.7   439.4   477.1   1,988   789.3   409.6   799.0   248.1   151.7   1973   1,368.7   880.9   487.8   886.2   281.1   201.3   1974   1,470.3   966.1   504.2   969.8   321.7   178.9   1975   1,569.5   1,029.5   540.0   1,054.9   360.6   153.9   1976   1,778.7   1,147.4   631.3   1,167.2   405.5   206.0   1978   2,264.5   1,448.5   816.0   1,479.0   477.8   307.8   1981   2,264.5   1,448.5   816.0   1,479.0   477.8   307.8   1981   2,903.1   1,980.4   922.8   1,399.7   2,246.1   1,628.4   840.7   1,641.7   485.3   342.1   1980   2,611.0   1,792.5   818.5   1,815.2   513.0   283.0   1986   4,178.9   2,783.2   1,395.7   2,200.0   879.1   379.9   318.8   400.5   2,625.8   1,379.4   2,732.5   868.9   403.6   1,444.4   460.3   1,984   4,143.3   2,219.1   1,122.2   2,310.4   755.3   2,233.7   1,986   4,179.9   2,469.1   1,686.2   4,232.3	1953	367.1	244.4	122.7	234.4	79.5	53.1
1955   400.3   262.6   137.6   262.0   74.9   63.4     1956   423.1   283.5   139.6   282.7   77.2   63.1     1957   435.0   297.4   137.6   290.2   83.8   60.9     1958   452.5   299.2   153.3   308.4   96.5   47.4     1959   478.0   323.4   154.6   318.1   66.8   63.2     1960   512.1   339.4   172.7   343.8   104.0   64.4     1961   521.3   348.6   172.7   345.5   102.6   63.4     1961   521.3   348.6   172.7   355.5   102.6   63.4     1963   588.0   388.9   199.1   388.2   115.7   84.3     1964   640.5   416.2   224.3   417.5   127.1   96.0     1965   702.9   446.7   256.2   454.6   136.0   112.5     1966   778.6   490.3   288.3   500.1   153.9   124.4     1967   805.8   522.6   283.2   519.9   170.1   115.7     1968   879.4   575.2   304.1   567.5   187.2   124.8     1969   951.2   632.2   319.1   626.6   194.1   130.5     1970   970.2   673.2   297.1   664.8   193.0   112.5     1971   1,061.5   719.0   342.5   723.1   208.2   130.1     1972   1,198.8   789.3   409.6   799.0   248.1   151.7     1973   1,368.7   880.9   487.8   886.2   281.1   201.3     1974   1,470.3   966.1   504.2   969.8   321.7   178.9     1975   1,569.5   1,029.5   540.0   1,054.9   360.6   153.9     1976   1,778.7   1,147.4   631.3   1,167.2   405.5   206.0     1977   2,06.2   1,279.4   726.8   1319.7   439.4   247.1     1978   2,264.5   1,448.5   816.0   1,479.0   477.8   307.8     1983   3,341.3   2,219.1   1,122.2   2,310.4   755.3   323.7     1984   3,786.1   2,447.7   1,338.4   2,527.0   838.8   420.2     1985   4,05.2   2,625.8   1,379.4   2,732.5   868.9   419.2     1986   4,178.9   2,783.2   1,395.7   2,920.0   879.1   379.9     1987   4,413.3   2,977.4   1,435.8   3,122.3   918.7   372.5     1988   4,118.9   2,783.2   1,395.7   2,920.0   879.1   379.9     1987   4,413.3   2,977.4   1,435.8   3,122.3   918.7   372.5     1988   4,118.9   2,783.2   1,395.7   2,920.0   879.1   379.9     1987   4,413.3   2,977.4   1,435.8   3,122.3   918.7   372.5     1988   5,159.3   3,401.2   1,758.1   3,664.8   1,044.4   460.3     1999   5,6	1954	369.7	244.5		247.1	76.4	46.1
1956   423.1   283.5   139.6   282.7   77.2   63.1     1957   435.0   297.4   137.6   290.2   83.8   60.9     1958   452.5   299.2   153.3   308.4   96.5   47.4     1959   478.0   323.4   154.6   318.1   96.8   63.2     1960   512.1   339.4   172.7   335.5   102.6   63.4     1961   521.3   348.6   172.7   355.5   102.6   63.4     1962   558.4   371.2   187.2   371.4   110.3   76.9     1963   588.0   388.9   199.1   388.2   115.7   84.3     1964   640.5   416.2   224.3   417.5   127.1   96.0     1965   702.9   446.7   256.2   454.6   136.0   112.5     1966   778.6   490.3   288.3   500.1   153.9   124.4     1967   805.8   522.6   283.2   519.9   170.1   115.7     1968   879.4   575.2   304.1   567.5   187.2   124.8     1969   951.2   632.2   319.1   626.6   194.1   130.5     1970   970.2   673.2   297.1   664.8   193.0   112.5     1971   1061.5   719.0   342.5   723.1   208.2   130.1     1972   1.198.8   789.3   409.6   799.0   248.1   151.7     1973   1.368.7   880.9   487.8   886.2   281.1   201.3     1974   1.470.3   966.1   504.2   969.8   321.7   178.9     1975   1.569.5   1.029.5   540.0   1.054.9   360.6   153.9     1976   1.778.7   1.147.4   631.3   1.167.2   405.5   206.0     1977   2.006.2   1.279.4   726.8   1.319.7   439.4   247.1     1978   2.264.5   1.448.5   816.0   1.479.0   477.8   307.8     1981   2.903.1   1.980.4   922.8   1.985.5   572.9   331.8     1981   2.903.1   1.980.4   922.8   1.985.5   572.9   331.8     1982   2.999.8   2.990.0   909.7   2.134.0   632.2   233.7     1983   3.341.3   2.219.1   1.122.2   2.310.4   755.3   275.4     1984   3.786.1   2.447.7   1.338.4   2.527.0   838.8   420.2     1985   4.005.2   2.625.8   1.379.4   2.732.5   868.9   403.6     1986   4.178.9   2.783.2   1.395.7   2.920.0   879.1   379.9     1987   4.441.3   2.219.1   1.122.2   2.310.4   755.3   275.4     1988   4.814.2   3.213.2   1.601.0   3.396.2   988.8   419.2     1989   5.159.3   3.401.2   1.758.1   3.654.8   1.044.4   460.3     1997   7.96.5   5.030.8   2.765.7   5.695.1   1.336.4   765.1     199	1955	400.3	262.6	137.6	262.0	74.9	63.4
1958	1956	423.1	283.5	139.6	282.7	77.2	63.1
1959   478.0   323.4   154.6   318.1   96.8   63.2   1960   512.1   339.4   172.7   343.8   104.0   64.4   1961   521.3   348.6   172.7   3355.5   102.6   63.4   1962   558.4   371.2   187.2   371.4   110.3   76.9   1963   588.0   388.9   199.1   388.2   115.7   84.3   1964   640.5   416.2   224.3   417.5   127.1   96.0   1965   702.9   446.7   256.2   454.6   136.0   112.5   1966   778.6   490.3   288.3   500.1   153.9   124.4   1967   805.8   522.6   283.2   519.9   170.1   115.7   196.8   879.4   575.2   304.1   567.5   187.2   124.8   1969   951.2   632.2   319.1   626.6   194.1   30.5   1970   970.2   673.2   297.1   664.8   193.0   112.5   1971   1,061.5   719.0   342.5   723.1   208.2   130.1   1972   1,198.8   789.3   409.6   799.0   248.1   151.7   1973   1,368.7   880.9   487.8   886.2   281.1   201.3   1974   1,470.3   966.1   504.2   969.8   321.7   178.9   1975   1,569.5   1,029.5   540.0   1054.9   360.6   153.9   1976   1,778.7   1,147.4   631.3   1,167.2   405.5   206.0   1977   2,006.2   1,279.4   631.3   1,167.2   405.5   206.0   1977   2,006.2   1,279.4   631.3   1,167.2   405.5   206.0   1979   2,469.1   1,628.4   840.7   1,641.7   485.3   342.1   1980   2,611.0   1,792.5   818.5   1,815.2   513.0   283.0   1982   2,999.8   2,090.0   909.7   2,134.0   632.2   233.7   1983   3,341.3   2,211.1   1,122.2   2,310.4   675.3   2,252.3   1985   4,005.2   2,625.8   1,379.4   2,732.5   868.9   403.6   1996   3,413.3   2,217.1   1,338.4   2,527.0   838.8   4,002.2   2,625.8   1,379.4   2,732.5   868.9   403.6   1999   5,423.5   3,608.1   1,815.4   3,914.2   1,066.2   423.2   1,998   4,178.9   2,783.2   1,395.7   2,200.0   879.1   1,990   5,423.5   3,608.1   1,815.4   3,914.2   1,066.2   423.2   1,996   5,423.5   3,608.1   1,815.4   3,914.2   1,066.2   423.2   1,996   5,423.5   3,608.1   1,815.4   3,914.2   1,066.2   423.2   1,996   5,423.5   3,608.1   1,815.4   3,914.2   1,066.2   423.2   1,996   5,423.5   3,608.1   1,815.4   3,914.2   1,066.2   423.2   1,996   5,423.5   3,608.1   1,815.4   3,914.2		435.0	297.4	137.6	290.2	83.8	60.9
1960   512.1   339.4   172.7   343.8   104.0   64.4   1961   521.3   348.6   172.7   355.5   102.6   63.4   1962   558.4   371.2   187.2   371.4   110.3   76.9   1963   588.0   388.9   199.1   388.2   115.7   84.3   1964   640.5   416.2   224.3   447.5   127.1   96.0   1965   702.9   446.7   256.2   454.6   136.0   112.5   1966   778.6   490.3   288.3   500.1   153.9   124.4   1967   805.8   522.6   283.2   519.9   170.1   115.7   196.0   115.7   196.0   1	1958	452.5	299.2	153.3	308.4	96.5	47.4
1961   521.3   348.6   172.7   355.5   102.6   63.4     1962   558.4   371.2   187.2   371.4   110.3   76.9     1963   588.0   388.9   199.1   388.2   115.7   84.3     1964   640.5   416.2   224.3   417.5   127.1   96.0     1965   702.9   446.7   256.2   454.6   136.0   112.5     1966   778.6   490.3   288.3   500.1   153.9   124.4     1967   805.8   522.6   283.2   519.9   170.1   115.7     1968   879.4   575.2   304.1   567.5   187.2   124.8     1969   951.2   632.2   319.1   626.6   194.1   30.5     1970   970.2   673.2   297.1   664.8   193.0   112.5     1971   1,061.5   719.0   342.5   723.1   208.2   130.1     1972   1,198.8   789.3   409.6   799.0   248.1   201.3     1974   1,470.3   966.1   504.2   969.8   321.7   178.9     1975   1,569.5   1,029.5   540.0   1,054.9   360.6   153.9     1976   1,778.7   1,147.4   631.3   1,167.2   405.5   206.0     1977   2,006.2   1,279.4   726.8   1,319.7   439.4   247.1     1978   2,264.5   1,448.5   816.0   1,479.0   477.8   307.8     1980   2,611.0   1,792.5   818.5   1,815.2   513.0   283.0     1981   2,993.1   1,980.4   922.8   1,998.5   572.9   331.8     1982   2,999.8   2,090.0   90.7   2,134.0   632.2   233.7     1983   3,341.3   2,219.1   1,122.2   2,310.4   755.3   275.4     1984   3,786.1   2,447.7   1,338.4   2,527.0   838.8   420.2     1985   4,405.2   2,625.8   1,379.4   2,732.5   868.9   403.6     1986   4,178.9   2,783.2   1,395.7   2,200.0   879.1   379.9     1987   4,413.3   2,977.4   1,435.8   3,122.3   918.7   372.5     1988   4,413.3   2,977.4   1,435.8   3,122.3   918.7   372.5     1989   5,159.3   3,401.2   1,758.1   3,654.8   1,044.4   460.3     1990   5,423.5   3,608.1   1,187.8   4,072.7   1,158.4   3,781.1     1991   5,693.5   3,731.2   1,878.2   4,072.7   1,158.4   3,781.1     1992   5,95.5   3,928.5   1,987.0   4,310.9   1,211.3   393.2     1993   6,171.5   4,115.0   2,056.5   4,587.3   1,146.1   4381.1     1999   5,423.5   3,608.1   1,878.2   4,072.7   1,158.4   3,781.1     1999   6,548.3   4,531.4   2,316.9   5,097.0   1,188.1   563.3	1959	478.0	323.4	154.6	318.1	96.8	63.2
1962   558.4   371.2   187.2   371.4   110.3   76.9     1963   588.0   388.9   199.1   388.2   115.7   84.3     1964   640.5   416.2   224.3   417.5   127.1   96.0     1965   702.9   446.7   256.2   454.6   136.0   112.5     1966   778.6   490.3   288.3   500.1   153.9   124.4     1967   805.8   522.6   283.2   519.9   170.1   115.7     1968   879.4   575.2   304.1   567.5   187.2   124.8     1969   951.2   632.2   319.1   626.6   194.1   130.5     1970   970.2   673.2   297.1   664.8   193.0   112.5     1971   1,061.5   719.0   342.5   723.1   208.2   130.1     1972   1,198.8   789.3   409.6   799.0   248.1   151.7     1973   1,368.7   880.9   487.8   886.2   281.1   201.3     1974   1,470.3   966.1   504.2   969.8   321.7   178.9     1975   1,569.5   1,029.5   540.0   1,054.9   360.6   153.9     1976   1,778.7   1,147.4   631.3   1,167.2   405.5   206.0     1977   2,006.2   1,279.4   726.8   1,319.7   439.4   247.1     1978   2,264.5   1,448.5   816.0   1,479.0   477.8   307.8     1980   2,611.0   1,792.5   818.5   1,815.2   513.0   283.0     1981   2,903.1   1,980.4   922.8   1,998.5   572.9   331.8     1982   2,999.8   2,090.0   90.9   2,134.0   632.2   233.7     1983   3,341.3   2,219.1   1,122.2   2,310.4   755.3   275.4     1984   3,786.1   2,447.7   1,338.4   2,527.0   838.8   420.2     1985   4,178.9   2,783.2   1,395.7   2,920.0   879.1   379.9     1987   4,413.3   2,977.4   1,435.8   3,122.3   918.7   372.5     1988   4,134.3   2,977.4   1,435.8   3,122.3   918.7   372.5     1989   5,159.3   3,401.2   1,758.1   3,654.8   1,044.4   460.3     1990   5,423.5   3,608.1   1,815.4   3,914.2   1,086.2   423.2     1980   5,159.3   3,401.2   1,758.1   3,654.8   1,044.4   460.3     1990   5,423.5   3,608.1   1,815.4   3,914.2   1,086.2   423.2     1980   5,159.3   3,401.2   1,758.1   3,654.8   1,044.4   460.3     1990   5,423.5   3,608.1   1,815.4   3,914.2   1,086.2   423.2     1981   6,648.3   4,531.4   2,219.5   4,816.9   1,193.0   538.2     1991   5,693.3   3,731.2   1,878.2   4,072.7   1,158.4   378.1	1960	512.1	339.4	172.7	343.8	104.0	64.4
1963   588.0   388.9   199.1   388.2   115.7   84.3     1964   640.5   416.2   224.3   417.5   127.1   96.0     1965   702.9   446.7   236.2   454.6   136.0   112.5     1966   778.6   490.3   288.3   500.1   153.9   124.4     1967   805.8   522.6   283.2   519.9   170.1   115.7     1968   879.4   575.2   304.1   567.5   187.2   124.8     1969   951.2   632.2   319.1   626.6   194.1   130.5     1970   970.2   673.2   297.1   664.8   193.0   112.5     1971   1,061.5   719.0   342.5   723.1   208.2   130.1     1972   1,198.8   789.3   409.6   799.0   248.1   151.7     1973   1,368.7   880.9   487.8   886.2   281.1   201.3     1974   1,470.3   966.1   504.2   969.8   321.7   178.9     1975   1,569.5   1,029.5   540.0   1,054.9   360.6   153.9     1976   1,778.7   1,147.4   631.3   1,167.2   405.5   206.0     1977   2,006.2   1,279.4   726.8   1,319.7   439.4   247.1     1978   2,264.5   1,448.5   816.0   1,479.0   477.8   307.8     1979   2,469.1   1,628.4   840.7   1,641.7   485.3   342.1     1980   2,611.0   1,792.5   818.5   1,815.2   513.0   283.0     1981   2,903.1   1,980.4   922.8   1,985.5   572.9   331.8     1982   2,999.8   2,090.0   909.7   2,134.0   632.2   233.7     1983   3,341.3   2,219.1   1,122.2   2,310.4   755.3   275.4     1984   3,786.1   2,447.7   1,338.4   2,527.0   838.8   420.2     1985   4,005.2   2,625.8   1,379.4   2,732.5   868.9   403.6     1986   4,178.9   2,783.2   1,395.7   2,920.0   879.1   379.9     1987   4,413.3   2,977.4   1,435.8   3,122.3   918.7   372.5     1988   4,814.2   3,213.2   1,601.0   3,396.2   998.8   419.2     1989   5,159.3   3,731.2   1,878.2   4,072.7   1,158.4   378.1     1990   5,423.5   3,608.1   1,815.4   3,914.2   1,086.2   423.2     1991   5,609.3   3,731.2   1,878.2   4,072.7   1,158.4   378.1     1992   5,915.5   3,928.5   1,987.0   4,310.9   1,211.3     1993   6,648.3   4,531.4   2,316.9   5,097.0   1,188.1   563.3     1996   7,279.1   4,745.0   2,534.2   5,362.9   1,274.6   641.4     1997   7,796.5   5,030.8   2,765.7   5,995.1   1,336.4   765.1	1961	521.3	348.6	172.7	355.5	102.6	63.4
1964   640.5	1962	558.4	371.2	187.2	371.4	110.3	76.9
1965   702.9	1963	588.0	388.9	199.1	388.2	115.7	84.3
1966         778.6         490.3         288.3         500.1         153.9         124.4           1967         805.8         522.6         283.2         519.9         170.1         115.7           1968         879.4         575.2         304.1         567.5         187.2         124.8           1969         951.2         632.2         319.1         626.6         194.1         130.5           1970         970.2         673.2         297.1         664.8         193.0         112.5           1971         1,061.5         719.0         342.5         723.1         208.2         130.1           1972         1,198.8         789.3         409.6         799.0         248.1         151.7           1973         1,368.7         880.9         487.8         886.2         281.1         201.3           1974         1,470.3         966.1         504.2         969.8         321.7         178.9           1975         1,569.5         1,029.5         540.0         1,054.9         360.6         153.9           1975         1,569.5         1,029.5         540.0         1,054.9         360.6         153.9           1975         1,569.5	1964	640.5	416.2	224.3	417.5	127.1	96.0
1967   805.8   522.6   283.2   519.9   170.1   115.7     1968   879.4   575.2   304.1   567.5   187.2   124.8     1969   951.2   632.2   319.1   626.6   194.1   130.5     1970   970.2   673.2   297.1   664.8   193.0   112.5     1971   1,061.5   719.0   342.5   723.1   208.2   130.1     1972   1,198.8   789.3   409.6   799.0   248.1   151.7     1973   1,368.7   880.9   487.8   886.2   281.1   201.3     1974   1,470.3   966.1   504.2   969.8   321.7   178.9     1975   1,569.5   1,029.5   540.0   1,054.9   360.6   153.9     1976   1,778.7   1,147.4   631.3   1,167.2   405.5   206.0     1977   2,006.2   1,279.4   726.8   1,319.7   439.4   247.1     1978   2,264.5   1,448.5   816.0   1,479.0   477.8   307.8     1979   2,469.1   1,628.4   840.7   1,641.7   485.3   342.1     1980   2,611.0   1,792.5   818.5   1,815.2   513.0   283.0     1981   2,903.1   1,980.4   922.8   1,998.5   572.9   331.8     1982   2,999.8   2,090.0   909.7   2,134.0   632.2   233.7     1983   3,341.3   2,219.1   1,122.2   2,310.4   755.3   275.4     1984   3,786.1   2,447.7   1,338.4   2,527.0   838.8   420.2     1985   4,005.2   2,625.8   1,379.4   2,732.5   868.9   403.6     1986   4,178.9   2,783.2   1,395.7   2,920.0   879.1   379.9     1987   4,413.3   2,977.4   1,435.8   3,122.3   918.7   372.5     1988   4,814.2   3,213.2   1,601.0   3,396.2   998.8   419.2     1989   5,159.3   3,401.2   1,758.1   3,654.8   1,044.4   460.3     1990   5,423.5   3,608.1   1,815.4   3,914.2   1,086.2   423.2     1991   5,609.3   3,731.2   1,878.2   4,072.7   1,158.4   378.1     1992   5,915.5   3,928.5   1,987.0   4,310.9   1,211.3   393.2     1993   6,715.5   3,928.5   1,987.0   4,310.9   1,211.3   393.2     1994   6,548.1   4,328.5   2,219.5   4,816.9   1,193.0   538.2     1995   6,848.3   4,531.4   2,316.9   5,097.0   1,188.1   563.3     1996   7,279.1   4,745.0   2,534.2   5,362.9   1,274.6   641.4     1997   7,796.5   5,030.8   2,765.7   5,695.1   1,336.4   765.1     1998   8,184.8   5,404.4   2,780.3   6,023.6   1,355.5   805.9     1999   8,695.5	1965	702.9	446.7	256.2	454.6	136.0	112.5
1968         879.4         575.2         304.1         567.5         187.2         124.8           1969         951.2         632.2         319.1         626.6         194.1         130.5           1970         970.2         673.2         297.1         664.8         193.0         112.5           1971         1,061.5         719.0         342.5         723.1         208.2         130.1           1972         1,198.8         789.3         409.6         799.0         248.1         151.7           1973         1,368.7         880.9         487.8         886.2         281.1         201.3           1974         1,470.3         966.1         504.2         969.8         321.7         178.9           1975         1,569.5         1,029.5         540.0         1,054.9         360.6         153.9           1976         1,778.7         1,147.4         631.3         1,167.2         405.5         206.0           1977         2,006.2         1,279.4         726.8         1,319.7         439.4         247.1           1978         2,264.5         1,448.5         816.0         1,479.0         477.8         307.8           1979	1966	778.6	490.3	288.3	500.1	153.9	124.4
1969	1967	805.8	522.6	283.2	519.9	170.1	115.7
1970         970.2         673.2         297.1         664.8         193.0         112.5           1971         1,061.5         719.0         342.5         723.1         208.2         130.1           1972         1,198.8         789.3         409.6         799.0         248.1         151.7           1973         1,368.7         880.9         487.8         886.2         281.1         201.3           1974         1,470.3         966.1         504.2         969.8         321.7         178.9           1975         1,569.5         1,029.5         540.0         1,054.9         360.6         153.9           1976         1,778.7         1,147.4         631.3         1,167.2         405.5         206.0           1977         2,006.2         1,279.4         726.8         1,319.7         439.4         247.1           1978         2,264.5         1,448.5         816.0         1,479.0         477.8         307.8           1979         2,469.1         1,628.4         840.7         1,641.7         485.3         342.1           1980         2,611.0         1,792.5         818.5         1,815.2         513.0         283.0           1981	1968	879.4	575.2	304.1	567.5	187.2	124.8
1971         1,061.5         719.0         342.5         723.1         208.2         130.1           1972         1,198.8         789.3         409.6         799.0         248.1         151.7           1973         1,368.7         880.9         487.8         886.2         281.1         201.3           1974         1,470.3         966.1         504.2         969.8         321.7         178.9           1975         1,569.5         1,029.5         540.0         1,054.9         360.6         153.9           1976         1,778.7         1,147.4         631.3         1,167.2         405.5         206.0           1977         2,006.2         1,279.4         726.8         1,319.7         439.4         247.1           1978         2,264.5         1,448.5         816.0         1,479.0         477.8         307.8           1979         2,469.1         1,628.4         840.7         1,641.7         485.3         342.1           1980         2,611.0         1,792.5         818.5         1,815.2         513.0         283.0           1981         2,903.1         1,980.4         922.8         1,998.5         572.9         331.8           1982	1969	951.2	632.2	319.1	626.6	194.1	130.5
1972         1,198.8         789.3         409.6         799.0         248.1         151.7           1973         1,368.7         880.9         487.8         886.2         281.1         201.3           1974         1,470.3         966.1         504.2         969.8         321.7         178.9           1975         1,569.5         1,029.5         540.0         1,054.9         360.6         153.9           1976         1,778.7         1,147.4         631.3         1,167.2         405.5         206.0           1977         2,006.2         1,279.4         726.8         1,319.7         439.4         247.1           1978         2,264.5         1,448.5         816.0         1,479.0         477.8         307.8           1979         2,469.1         1,628.4         840.7         1,641.7         485.3         342.1           1980         2,611.0         1,792.5         818.5         1,815.2         513.0         283.0           1981         2,903.1         1,980.4         922.8         1,998.5         572.9         331.8           1982         2,999.8         2,090.0         90.7         2,134.0         632.2         233.7           1	1970	970.2	673.2	297.1	664.8	193.0	112.5
1973         1,368.7         880.9         487.8         886.2         281.1         201.3           1974         1,470.3         966.1         504.2         969.8         321.7         178.9           1975         1,569.5         1,029.5         540.0         1,054.9         360.6         153.9           1976         1,778.7         1,147.4         631.3         1,167.2         405.5         206.0           1977         2,006.2         1,279.4         726.8         1,319.7         439.4         247.1           1978         2,264.5         1,448.5         816.0         1,479.0         477.8         307.8           1979         2,469.1         1,628.4         840.7         1,641.7         485.3         342.1           1980         2,611.0         1,792.5         818.5         1,815.2         513.0         283.0           1981         2,903.1         1,980.4         922.8         1,998.5         572.9         331.8           1982         2,999.8         2,090.0         909.7         2,134.0         632.2         233.7           1983         3,341.3         2,219.1         1,122.2         2,310.4         755.3         275.4	1971	1,061.5	719.0	342.5		208.2	
1974         1,470.3         966.1         504.2         969.8         321.7         178.9           1975         1,569.5         1,029.5         540.0         1,054.9         360.6         153.9           1976         1,778.7         1,147.4         631.3         1,167.2         405.5         206.0           1977         2,006.2         1,279.4         726.8         1,319.7         439.4         247.1           1978         2,264.5         1,448.5         816.0         1,479.0         477.8         307.8           1979         2,469.1         1,628.4         840.7         1,641.7         485.3         342.1           1980         2,611.0         1,792.5         818.5         1,815.2         513.0         283.0           1981         2,993.1         1,980.4         922.8         1,998.5         572.9         331.8           1982         2,999.8         2,090.0         90.7         2,134.0         632.2         233.7           1983         3,341.3         2,219.1         1,122.2         2,310.4         755.3         275.4           1984         3,786.1         2,447.7         1,338.4         2,527.0         838.8         420.2		1,198.8	789.3	409.6	799.0	248.1	
1975         1,569.5         1,029.5         540.0         1,054.9         360.6         153.9           1976         1,778.7         1,147.4         631.3         1,167.2         405.5         206.0           1977         2,006.2         1,279.4         726.8         1,319.7         439.4         247.1           1978         2,264.5         1,448.5         816.0         1,479.0         447.8         307.8           1979         2,469.1         1,628.4         840.7         1,641.7         485.3         342.1           1980         2,611.0         1,792.5         818.5         1,815.2         513.0         283.0           1981         2,993.1         1,980.4         922.8         1,998.5         572.9         331.8           1982         2,999.8         2,090.0         90.7         2,134.0         632.2         233.7           1983         3,341.3         2,219.1         1,122.2         2,310.4         755.3         275.4           1984         3,786.1         2,447.7         1,338.4         2,527.0         838.8         420.2           1985         4,005.2         2,625.8         1,379.4         2,732.5         868.9         403.6	1973	1,368.7	880.9	487.8	886.2	281.1	201.3
1976         1,778.7         1,147.4         631.3         1,167.2         405.5         206.0           1977         2,006.2         1,279.4         726.8         1,319.7         439.4         247.1           1978         2,264.5         1,448.5         816.0         1,479.0         477.8         307.8           1979         2,469.1         1,628.4         840.7         1,641.7         485.3         342.1           1980         2,611.0         1,792.5         818.5         1,815.2         513.0         283.0           1981         2,903.1         1,980.4         922.8         1,998.5         572.9         331.8           1982         2,999.8         2,090.0         909.7         2,134.0         632.2         233.7           1983         3,341.3         2,219.1         1,122.2         2,310.4         755.3         275.4           1984         3,786.1         2,447.7         1,338.4         2,527.0         838.8         420.2           1985         4,005.2         2,625.8         1,379.4         2,732.5         868.9         403.6           1986         4,178.9         2,783.2         1,395.7         2,920.0         879.1         379.9	1974	1,470.3	966.1	504.2	969.8	321.7	178.9
1977         2,006.2         1,279.4         726.8         1,319.7         439.4         247.1           1978         2,264.5         1,448.5         816.0         1,479.0         477.8         307.8           1979         2,469.1         1,628.4         840.7         1,641.7         485.3         342.1           1980         2,611.0         1,792.5         818.5         1,815.2         513.0         283.0           1981         2,903.1         1,980.4         922.8         1,998.5         572.9         331.8           1982         2,999.8         2,090.0         909.7         2,134.0         632.2         233.7           1983         3,341.3         2,219.1         1,122.2         2,310.4         755.3         275.4           1984         3,786.1         2,447.7         1,338.4         2,527.0         838.8         420.2           1985         4,005.2         2,625.8         1,379.4         2,732.5         868.9         403.6           1986         4,178.9         2,783.2         1,395.7         2,920.0         879.1         379.9           1987         4,413.3         2,977.4         1,435.8         3,122.3         918.7         372.5	1975	1,569.5	1,029.5	540.0	1,054.9	360.6	153.9
1978         2,264.5         1,448.5         816.0         1,479.0         477.8         307.8           1979         2,469.1         1,628.4         840.7         1,641.7         485.3         342.1           1980         2,611.0         1,792.5         818.5         1,815.2         513.0         283.0           1981         2,903.1         1,980.4         922.8         1,998.5         572.9         331.8           1982         2,999.8         2,090.0         909.7         2,134.0         632.2         233.7           1983         3,341.3         2,219.1         1,122.2         2,310.4         755.3         275.4           1984         3,786.1         2,447.7         1,338.4         2,527.0         838.8         420.2           1985         4,005.2         2,625.8         1,379.4         2,732.5         868.9         403.6           1986         4,178.9         2,783.2         1,395.7         2,920.0         879.1         379.9           1987         4,413.3         2,977.4         1,435.8         3,122.3         918.7         372.5           1988         4,814.2         3,213.2         1,601.0         3,396.2         998.8         419.2 <td>1976</td> <td>1,778.7</td> <td>1,147.4</td> <td>631.3</td> <td>1,167.2</td> <td>405.5</td> <td>206.0</td>	1976	1,778.7	1,147.4	631.3	1,167.2	405.5	206.0
1979         2,469.1         1,628.4         840.7         1,641.7         485.3         342.1           1980         2,611.0         1,792.5         818.5         1,815.2         513.0         283.0           1981         2,903.1         1,980.4         922.8         1,998.5         572.9         331.8           1982         2,999.8         2,090.0         909.7         2,134.0         632.2         233.7           1983         3,341.3         2,219.1         1,122.2         2,310.4         755.3         275.4           1984         3,786.1         2,447.7         1,338.4         2,527.0         838.8         420.2           1985         4,005.2         2,625.8         1,379.4         2,732.5         868.9         403.6           1986         4,178.9         2,783.2         1,395.7         2,920.0         879.1         379.9           1987         4,413.3         2,977.4         1,435.8         3,122.3         918.7         372.5           1988         4,814.2         3,213.2         1,601.0         3,396.2         998.8         419.2           1989         5,159.3         3,401.2         1,758.1         3,654.8         1,044.4         460.3	1977	2,006.2	1,279.4	726.8	1,319.7	439.4	247.1
1980         2,611.0         1,792.5         818.5         1,815.2         513.0         283.0           1981         2,903.1         1,980.4         922.8         1,998.5         572.9         331.8           1982         2,999.8         2,090.0         909.7         2,134.0         632.2         233.7           1983         3,341.3         2,219.1         1,122.2         2,310.4         755.3         275.4           1984         3,786.1         2,447.7         1,338.4         2,527.0         838.8         420.2           1985         4,005.2         2,625.8         1,379.4         2,732.5         868.9         403.6           1986         4,178.9         2,783.2         1,395.7         2,920.0         879.1         379.9           1987         4,413.3         2,977.4         1,435.8         3,122.3         918.7         372.5           1988         4,814.2         3,213.2         1,601.0         3,396.2         998.8         419.2           1989         5,159.3         3,401.2         1,758.1         3,654.8         1,044.4         460.3           1990         5,423.5         3,608.1         1,815.4         3,914.2         1,086.2         423.2	1978	2,264.5	1,448.5	816.0	1,479.0	477.8	307.8
1981         2,903.1         1,980.4         922.8         1,998.5         572.9         331.8           1982         2,999.8         2,090.0         909.7         2,134.0         632.2         233.7           1983         3,341.3         2,219.1         1,122.2         2,310.4         755.3         275.4           1984         3,786.1         2,447.7         1,338.4         2,527.0         838.8         420.2           1985         4,005.2         2,625.8         1,379.4         2,732.5         868.9         403.6           1986         4,178.9         2,783.2         1,395.7         2,920.0         879.1         379.9           1987         4,413.3         2,977.4         1,435.8         3,122.3         918.7         372.5           1988         4,814.2         3,213.2         1,601.0         3,396.2         998.8         419.2           1989         5,159.3         3,401.2         1,758.1         3,654.8         1,044.4         460.3           1990         5,423.5         3,608.1         1,815.4         3,914.2         1,086.2         423.2           1991         5,609.3         3,731.2         1,878.2         4,072.7         1,158.4         378.1<	1979	2,469.1	1,628.4	840.7	1,641.7	485.3	342.1
1982         2,999.8         2,090.0         909.7         2,134.0         632.2         233.7           1983         3,341.3         2,219.1         1,122.2         2,310.4         755.3         275.4           1984         3,786.1         2,447.7         1,338.4         2,527.0         838.8         420.2           1985         4,005.2         2,625.8         1,379.4         2,732.5         868.9         403.6           1986         4,178.9         2,783.2         1,395.7         2,920.0         879.1         379.9           1987         4,413.3         2,977.4         1,435.8         3,122.3         918.7         372.5           1988         4,814.2         3,213.2         1,601.0         3,396.2         998.8         419.2           1989         5,159.3         3,401.2         1,758.1         3,654.8         1,044.4         460.3           1990         5,423.5         3,608.1         1,815.4         3,914.2         1,086.2         423.2           1991         5,609.3         3,731.2         1,878.2         4,072.7         1,158.4         378.1           1992         5,915.5         3,928.5         1,987.0         4,310.9         1,211.3         39	1980	2,611.0	1,792.5	818.5	1,815.2	513.0	283.0
1983         3,341.3         2,219.1         1,122.2         2,310.4         755.3         275.4           1984         3,786.1         2,447.7         1,338.4         2,527.0         838.8         420.2           1985         4,005.2         2,625.8         1,379.4         2,732.5         868.9         403.6           1986         4,178.9         2,783.2         1,395.7         2,920.0         879.1         379.9           1987         4,413.3         2,977.4         1,435.8         3,122.3         918.7         372.5           1988         4,814.2         3,213.2         1,601.0         3,396.2         998.8         419.2           1989         5,159.3         3,401.2         1,758.1         3,654.8         1,044.4         460.3           1990         5,423.5         3,608.1         1,815.4         3,914.2         1,086.2         423.2           1991         5,609.3         3,731.2         1,878.2         4,072.7         1,158.4         378.1           1992         5,915.5         3,928.5         1,987.0         4,310.9         1,211.3         393.2           1993         6,171.5         4,115.0         2,056.5         4,587.3         1,146.1 <t< td=""><td>1981</td><td>2,903.1</td><td>1,980.4</td><td>922.8</td><td>1,998.5</td><td>572.9</td><td>331.8</td></t<>	1981	2,903.1	1,980.4	922.8	1,998.5	572.9	331.8
1984         3,786.1         2,447.7         1,338.4         2,527.0         838.8         420.2           1985         4,005.2         2,625.8         1,379.4         2,732.5         868.9         403.6           1986         4,178.9         2,783.2         1,395.7         2,920.0         879.1         379.9           1987         4,413.3         2,977.4         1,435.8         3,122.3         918.7         372.5           1988         4,814.2         3,213.2         1,601.0         3,396.2         998.8         419.2           1989         5,159.3         3,401.2         1,758.1         3,654.8         1,044.4         460.3           1990         5,423.5         3,608.1         1,815.4         3,914.2         1,086.2         423.2           1991         5,609.3         3,731.2         1,878.2         4,072.7         1,158.4         378.1           1992         5,915.5         3,928.5         1,987.0         4,310.9         1,211.3         393.2           1993         6,171.5         4,115.0         2,056.5         4,587.3         1,146.1         438.1           1994         6,548.1         4,328.5         2,219.5         4,816.9         1,193.0	1982	2,999.8	2,090.0	909.7	2,134.0	632.2	233.7
1985         4,005.2         2,625.8         1,379.4         2,732.5         868.9         403.6           1986         4,178.9         2,783.2         1,395.7         2,920.0         879.1         379.9           1987         4,413.3         2,977.4         1,435.8         3,122.3         918.7         372.5           1988         4,814.2         3,213.2         1,601.0         3,396.2         998.8         419.2           1989         5,159.3         3,401.2         1,758.1         3,654.8         1,044.4         460.3           1990         5,423.5         3,608.1         1,815.4         3,914.2         1,086.2         423.2           1991         5,609.3         3,731.2         1,878.2         4,072.7         1,158.4         378.1           1992         5,915.5         3,928.5         1,987.0         4,310.9         1,211.3         393.2           1993         6,171.5         4,115.0         2,056.5         4,587.3         1,146.1         438.1           1994         6,548.1         4,328.5         2,219.5         4,816.9         1,193.0         538.2           1995         6,848.3         4,531.4         2,316.9         5,097.0         1,188.1	1983	3,341.3	2,219.1	1,122.2	2,310.4	755.3	275.4
1986         4,178.9         2,783.2         1,395.7         2,920.0         879.1         379.9           1987         4,413.3         2,977.4         1,435.8         3,122.3         918.7         372.5           1988         4,814.2         3,213.2         1,601.0         3,396.2         998.8         419.2           1989         5,159.3         3,401.2         1,758.1         3,654.8         1,044.4         460.3           1990         5,423.5         3,608.1         1,815.4         3,914.2         1,086.2         423.2           1991         5,609.3         3,731.2         1,878.2         4,072.7         1,158.4         378.1           1992         5,915.5         3,928.5         1,987.0         4,310.9         1,211.3         393.2           1993         6,171.5         4,115.0         2,056.5         4,587.3         1,146.1         438.1           1994         6,548.1         4,328.5         2,219.5         4,816.9         1,193.0         538.2           1995         6,848.3         4,531.4         2,316.9         5,097.0         1,188.1         563.3           1996         7,279.1         4,745.0         2,534.2         5,362.9         1,274.6	1984	3,786.1	2,447.7	1,338.4	2,527.0	838.8	420.2
1987         4,413.3         2,977.4         1,435.8         3,122.3         918.7         372.5           1988         4,814.2         3,213.2         1,601.0         3,396.2         998.8         419.2           1989         5,159.3         3,401.2         1,758.1         3,654.8         1,044.4         460.3           1990         5,423.5         3,608.1         1,815.4         3,914.2         1,086.2         423.2           1991         5,609.3         3,731.2         1,878.2         4,072.7         1,158.4         378.1           1992         5,915.5         3,928.5         1,987.0         4,310.9         1,211.3         393.2           1993         6,171.5         4,115.0         2,056.5         4,587.3         1,146.1         438.1           1994         6,548.1         4,328.5         2,219.5         4,816.9         1,193.0         538.2           1995         6,848.3         4,531.4         2,316.9         5,097.0         1,188.1         563.3           1996         7,279.1         4,745.0         2,534.2         5,362.9         1,274.6         641.4           1997         7,796.5         5,030.8         2,765.7         5,695.1         1,336.4	1985	4,005.2	2,625.8	1,379.4	2,732.5	868.9	403.6
1988         4,814.2         3,213.2         1,601.0         3,396.2         998.8         419.2           1989         5,159.3         3,401.2         1,758.1         3,654.8         1,044.4         460.3           1990         5,423.5         3,608.1         1,815.4         3,914.2         1,086.2         423.2           1991         5,609.3         3,731.2         1,878.2         4,072.7         1,158.4         378.1           1992         5,915.5         3,928.5         1,987.0         4,310.9         1,211.3         393.2           1993         6,171.5         4,115.0         2,056.5         4,587.3         1,146.1         438.1           1994         6,548.1         4,328.5         2,219.5         4,816.9         1,193.0         538.2           1995         6,848.3         4,531.4         2,316.9         5,097.0         1,188.1         563.3           1996         7,279.1         4,745.0         2,534.2         5,362.9         1,274.6         641.4           1997         7,796.5         5,030.8         2,765.7         5,695.1         1,336.4         765.1           1998         8,184.8         5,404.4         2,780.3         6,023.6         1,355.5	1986	4,178.9	2,783.2	1,395.7	2,920.0	879.1	379.9
1989         5,159.3         3,401.2         1,758.1         3,654.8         1,044.4         460.3           1990         5,423.5         3,608.1         1,815.4         3,914.2         1,086.2         423.2           1991         5,609.3         3,731.2         1,878.2         4,072.7         1,158.4         378.1           1992         5,915.5         3,928.5         1,987.0         4,310.9         1,211.3         393.2           1993         6,171.5         4,115.0         2,056.5         4,587.3         1,146.1         438.1           1994         6,548.1         4,328.5         2,219.5         4,816.9         1,193.0         538.2           1995         6,848.3         4,531.4         2,316.9         5,097.0         1,188.1         563.3           1996         7,279.1         4,745.0         2,534.2         5,362.9         1,274.6         641.4           1997         7,796.5         5,030.8         2,765.7         5,695.1         1,336.4         765.1           1998         8,184.8         5,404.4         2,780.3         6,023.6         1,355.5         805.9           1999         8,695.5         5,757.9         2,937.6         6,438.3         1,422.5 <td>1987</td> <td>4,413.3</td> <td>2,977.4</td> <td>1,435.8</td> <td>3,122.3</td> <td>918.7</td> <td>372.5</td>	1987	4,413.3	2,977.4	1,435.8	3,122.3	918.7	372.5
1990     5,423.5     3,608.1     1,815.4     3,914.2     1,086.2     423.2       1991     5,609.3     3,731.2     1,878.2     4,072.7     1,158.4     378.1       1992     5,915.5     3,928.5     1,987.0     4,310.9     1,211.3     393.2       1993     6,171.5     4,115.0     2,056.5     4,587.3     1,146.1     438.1       1994     6,548.1     4,328.5     2,219.5     4,816.9     1,193.0     538.2       1995     6,848.3     4,531.4     2,316.9     5,097.0     1,188.1     563.3       1996     7,279.1     4,745.0     2,534.2     5,362.9     1,274.6     641.4       1997     7,796.5     5,030.8     2,765.7     5,695.1     1,336.4     765.1       1998     8,184.8     5,404.4     2,780.3     6,023.6     1,355.5     805.9       1999     8,695.5     5,757.9     2,937.6     6,438.3     1,422.5     834.8       2000     9,174.5     6,199.8     2,974.8     6,907.1     1,504.3     762.9       2001     9,492.4     6,362.6     3,129.7     7,269.0     1,632.2     591.3	1988	4,814.2	3,213.2	1,601.0	3,396.2	998.8	419.2
1991       5,609.3       3,731.2       1,878.2       4,072.7       1,158.4       378.1         1992       5,915.5       3,928.5       1,987.0       4,310.9       1,211.3       393.2         1993       6,171.5       4,115.0       2,056.5       4,587.3       1,146.1       438.1         1994       6,548.1       4,328.5       2,219.5       4,816.9       1,193.0       538.2         1995       6,848.3       4,531.4       2,316.9       5,097.0       1,188.1       563.3         1996       7,279.1       4,745.0       2,534.2       5,362.9       1,274.6       641.4         1997       7,796.5       5,030.8       2,765.7       5,695.1       1,336.4       765.1         1998       8,184.8       5,404.4       2,780.3       6,023.6       1,355.5       805.9         1999       8,695.5       5,757.9       2,937.6       6,438.3       1,422.5       834.8         2000       9,174.5       6,199.8       2,974.8       6,907.1       1,504.3       762.9         2001       9,492.4       6,362.6       3,129.7       7,269.0       1,632.2       591.3	1989	5,159.3	3,401.2	1,758.1	3,654.8	1,044.4	460.3
1992     5,915.5     3,928.5     1,987.0     4,310.9     1,211.3     393.2       1993     6,171.5     4,115.0     2,056.5     4,587.3     1,146.1     438.1       1994     6,548.1     4,328.5     2,219.5     4,816.9     1,193.0     538.2       1995     6,848.3     4,531.4     2,316.9     5,097.0     1,188.1     563.3       1996     7,279.1     4,745.0     2,534.2     5,362.9     1,274.6     641.4       1997     7,796.5     5,030.8     2,765.7     5,695.1     1,336.4     765.1       1998     8,184.8     5,404.4     2,780.3     6,023.6     1,355.5     805.9       1999     8,695.5     5,757.9     2,937.6     6,438.3     1,422.5     834.8       2000     9,174.5     6,199.8     2,974.8     6,907.1     1,504.3     762.9       2001     9,492.4     6,362.6     3,129.7     7,269.0     1,632.2     591.3	1990	5,423.5	3,608.1	1,815.4	3,914.2	1,086.2	423.2
1993       6,171.5       4,115.0       2,056.5       4,587.3       1,146.1       438.1         1994       6,548.1       4,328.5       2,219.5       4,816.9       1,193.0       538.2         1995       6,848.3       4,531.4       2,316.9       5,097.0       1,188.1       563.3         1996       7,279.1       4,745.0       2,534.2       5,362.9       1,274.6       641.4         1997       7,796.5       5,030.8       2,765.7       5,695.1       1,336.4       765.1         1998       8,184.8       5,404.4       2,780.3       6,023.6       1,355.5       805.9         1999       8,695.5       5,757.9       2,937.6       6,438.3       1,422.5       834.8         2000       9,174.5       6,199.8       2,974.8       6,907.1       1,504.3       762.9         2001       9,492.4       6,362.6       3,129.7       7,269.0       1,632.2       591.3	1991	5,609.3	3,731.2	1,878.2	4,072.7	1,158.4	378.1
1994       6,548.1       4,328.5       2,219.5       4,816.9       1,193.0       538.2         1995       6,848.3       4,531.4       2,316.9       5,097.0       1,188.1       563.3         1996       7,279.1       4,745.0       2,534.2       5,362.9       1,274.6       641.4         1997       7,796.5       5,030.8       2,765.7       5,695.1       1,336.4       765.1         1998       8,184.8       5,404.4       2,780.3       6,023.6       1,355.5       805.9         1999       8,695.5       5,757.9       2,937.6       6,438.3       1,422.5       834.8         2000       9,174.5       6,199.8       2,974.8       6,907.1       1,504.3       762.9         2001       9,492.4       6,362.6       3,129.7       7,269.0       1,632.2       591.3	1992	5,915.5	3,928.5	1,987.0	4,310.9	1,211.3	393.2
1995       6,848.3       4,531.4       2,316.9       5,097.0       1,188.1       563.3         1996       7,279.1       4,745.0       2,534.2       5,362.9       1,274.6       641.4         1997       7,796.5       5,030.8       2,765.7       5,695.1       1,336.4       765.1         1998       8,184.8       5,404.4       2,780.3       6,023.6       1,355.5       805.9         1999       8,695.5       5,757.9       2,937.6       6,438.3       1,422.5       834.8         2000       9,174.5       6,199.8       2,974.8       6,907.1       1,504.3       762.9         2001       9,492.4       6,362.6       3,129.7       7,269.0       1,632.2       591.3	1993	6,171.5	4,115.0	2,056.5	4,587.3	1,146.1	438.1
1996     7,279.1     4,745.0     2,534.2     5,362.9     1,274.6     641.4       1997     7,796.5     5,030.8     2,765.7     5,695.1     1,336.4     765.1       1998     8,184.8     5,404.4     2,780.3     6,023.6     1,355.5     805.9       1999     8,695.5     5,757.9     2,937.6     6,438.3     1,422.5     834.8       2000     9,174.5     6,199.8     2,974.8     6,907.1     1,504.3     762.9       2001     9,492.4     6,362.6     3,129.7     7,269.0     1,632.2     591.3	1994	6,548.1	4,328.5	2,219.5	4,816.9	1,193.0	538.2
1997     7,796.5     5,030.8     2,765.7     5,695.1     1,336.4     765.1       1998     8,184.8     5,404.4     2,780.3     6,023.6     1,355.5     805.9       1999     8,695.5     5,757.9     2,937.6     6,438.3     1,422.5     834.8       2000     9,174.5     6,199.8     2,974.8     6,907.1     1,504.3     762.9       2001     9,492.4     6,362.6     3,129.7     7,269.0     1,632.2     591.3	1995	6,848.3	4,531.4	2,316.9	5,097.0	1,188.1	563.3
1998     8,184.8     5,404.4     2,780.3     6,023.6     1,355.5     805.9       1999     8,695.5     5,757.9     2,937.6     6,438.3     1,422.5     834.8       2000     9,174.5     6,199.8     2,974.8     6,907.1     1,504.3     762.9       2001     9,492.4     6,362.6     3,129.7     7,269.0     1,632.2     591.3	1996	7,279.1	4,745.0	2,534.2	5,362.9	1,274.6	641.4
1999     8,695.5     5,757.9     2,937.6     6,438.3     1,422.5     834.8       2000     9,174.5     6,199.8     2,974.8     6,907.1     1,504.3     762.9       2001     9,492.4     6,362.6     3,129.7     7,269.0     1,632.2     591.3	1997	7,796.5	5,030.8	2,765.7	5,695.1	1,336.4	765.1
2000       9,174.5       6,199.8       2,974.8       6,907.1       1,504.3       762.9         2001       9,492.4       6,362.6       3,129.7       7,269.0       1,632.2       591.3	1998		5,404.4	2,780.3	6,023.6	1,355.5	805.9
2001 9,492.4 6,362.6 3,129.7 7,269.0 1,632.2 591.3	1999	8,695.5	5,757.9	2,937.6	6,438.3	1,422.5	834.8
	2000	9,174.5	6,199.8	2,974.8	6,907.1	1,504.3	762.9
2002 9,763.5 6,488.0 3,275.4 7,574.0 1,738.7 450.8	2001	9,492.4	6,362.6	3,129.7	7,269.0	1,632.2	591.3
	2002	9,763.5	6,488.0	3,275.4	7,574.0	1,738.7	450.8

# Table 9: Foreign Transactions Current Account, 2002

Line	Receipts from the Rest of the World	Source	Total
1	+ Exports of goods and services	NIPA 4.1 line 2	1,005.0
2	+ Income receipts from the rest of the world	NIPA 4.1 line 7	301.8
3	Wage and salary receipts	NIPA 4.1 line 8	2.9
4	Income receipts on assets	NIPA 4.1 line 9	298.8
5	= Current receipts from the rest of the world	NIPA 4.1 line 1	1,306.8
Line	Payments to the Rest of the World and Balance on Current Account	Source	Total
1	+ Imports of goods and services	NIPA 4.1 line 14	1,429.9
2	+ Income payments to the rest of the world	NIPA 4.1 line 19	274.7
3	Wage and salary payments	NIPA 4.1 line 20	8.4
4	Income payments on assets	NIPA 4.1 line 21	266.3
5	+ Current taxes and transfer payments to the rest of the world (net)	NIPA 4.1 line 25	59.8
6	+ Balance on current account	NIPA 4.1 line 29	-457.7
7	= Current payments to the rest of the world and balance on current account		1,306.7

Table 10: Foreign Transactions Current Account, 1948-2002

(Billions of Current \$)

1948   2.4   17.6   15.5   2.0   17.6   10.1   0.6   4.5     1949   0.9   16.4   14.5   1.9   16.5   9.2   0.7   5.6     1950   -1.8   14.5   12.4   2.2   14.6   11.6   0.7   4.0     1951   0.9   19.9   17.1   2.8   19.9   14.6   0.9   3.5     1952   0.6   19.3   16.5   2.9   19.3   15.3   0.9   2.5     1953   -1.3   18.2   15.3   2.8   18.1   16.0   0.9   2.5     1953   -1.3   18.2   15.3   2.8   18.1   16.0   0.9   2.5     1954   0.2   18.9   15.8   3.0   18.8   15.4   0.9   2.3     1955   0.4   21.2   17.7   3.5   21.1   17.2   1.1   2.5     1956   2.8   25.2   2.13   3.9   25.3   18.9   1.1   2.4     1957   4.8   28.3   24.0   4.3   28.3   19.9   1.2   2.3     1958   0.9   24.4   20.6   3.9   24.4   20.0   1.2   2.3     1959   -1.2   27.0   22.7   4.3   27.0   22.3   1.5   4.3     1960   3.2   31.9   27.0   4.9   31.9   22.8   1.8   4.1     1961   4.3   32.9   27.6   5.3   32.9   22.7   1.8   4.2     1962   3.9   35.0   29.1   5.9   35.0   25.0   1.8   4.3     1963   5.0   37.6   31.1   6.5   37.6   26.1   2.1   4.4     1964   7.5   42.3   35.0   7.2   42.2   28.1   2.3   4.3     1965   6.2   45.0   37.1   7.9   45.0   31.5   2.6   4.7     1966   3.9   49.0   40.9   8.1   49.0   37.1   30.5     1967   3.6   52.1   43.5   8.7   52.2   39.9   3.3   5.4     1967   3.6   52.1   43.5   8.7   52.2   39.9   3.3   5.4     1967   3.6   52.1   43.5   8.7   52.2   39.9   3.3   5.4     1968   1.7   58.0   47.9   10.1   58.0   46.6   40.5   7.7     1969   1.8   63.7   51.9   11.8   63.7   50.5   5.7   5.8     1971   0.6   77.0   63.0   14.0   77.0   62.3   64.7     1973   3.1   18.8   95.3   23.5   118.8   91.2   10.9   7.4     1973   3.1   18.8   95.3   23.5   118.8   91.2   10.9   7.4     1974   6.6   159.5   20.1   63.3   20.4   18.9   15.1   15.5   63.3     1971   0.6   77.0   63.0   14.0   77.0   62.3   64.7   6.6   63.3   7.0   64.7   64.7   64.7   65.8   64.8   65.7   65.8   66.8   66.8   67.7   67.0   67.0   67.0   67.0   67.0   67.0   67.0   67.0   67.0   67.0   67.0   67.0   67.0   67.0   67.0   67.0   67.0	Year	Balance on Current Account	Current Receipts from the ROW	Exports of Goods and Services	Income Receipts from the ROW	Currents Payments to ROW and Balance on Current Account		Income Payments to ROW	Current Taxes and Transfers to ROW (net)
1949   0.9									
1985									
1951   0.9   19.9   17.1   2.8   19.9   14.6   0.9   3.5     1952   0.6   19.3   16.5   2.9   19.3   15.3   0.9   2.5     1953   -1.3   18.2   15.3   2.8   18.1   16.0   0.9   2.5     1954   0.2   18.9   15.8   3.0   18.8   15.4   0.9   2.3     1955   0.4   21.2   17.7   3.5   21.1   17.2   1.1   2.5     1956   2.8   25.2   21.3   3.9   25.3   18.9   1.1   2.4     1957   4.8   28.3   24.0   4.3   28.3   19.9   12   2.3     1958   0.9   24.4   20.6   3.9   24.4   20.0   12   2.3     1958   0.9   24.4   20.6   3.9   24.4   20.0   12   2.3     1959   -1.2   27.0   22.7   4.3   27.0   22.3   15   4.3     1960   3.2   31.9   27.0   4.9   31.9   22.8   18   4.1     1961   4.3   32.9   27.6   5.3   32.9   22.7   18   4.2     1962   3.9   35.0   29.1   5.9   35.0   25.0   18   4.3     1963   5.0   37.6   31.1   6.5   37.6   26.1   2.1   4.4     1964   7.5   42.3   35.0   7.2   42.2   28.1   2.3     1965   6.2   45.0   37.1   7.9   45.0   31.5   2.6   4.7     1966   6.2   45.0   37.1   7.9   45.0   31.5   2.6   4.7     1967   3.6   52.1   43.5   8.7   52.2   39.9   33.3   5.4     1968   1.7   58.0   47.9   10.1   58.0   46.6   40.0   57.7     1970   4.0   72.5   59.7   11.8   63.7   50.5   57.7   5.8     1970   4.0   72.5   59.7   11.8   63.7   50.5   57.7   5.8     1971   0.6   77.0   63.0   14.0   77.0   62.3   64   7.6     1972   3.6   87.1   70.8   16.3   87.1   74.2   7.7   8.8     1973   9.3   118.8   95.3   23.5   118.8   91.2   10.9   7.4     1974   6.6   156.5   126.7   29.8   156.4   127.5   14.3   8.1     1977   9.0   196.6   159.4   37.2   196.6   182.4   16.9   62.2     1978   -10.4   29.8   23.1   18.9   44.5   32.2   23.3   24.1   38.1     1979   1.4   29.8   23.1   18.9   46.3   23.3   29.4   48.1   15.5   63.3     1971   9.0   196.6   159.4   37.2   196.6   182.4   16.9   62.2     1978   -10.4   23.3   18.9   49.5   32.4   181.9   151.1   15.5   63.3     1979   1.4   29.8   23.1   18.9   49.5   32.2   44.4   43.0   33.1   43.1     1981   6.3   30.3   30.5   23.0   112.4   44.5   44.5   44.5   44.5   4									
1952   0.6   19.3   16.5   2.9   19.3   15.3   0.9   2.5     1954   0.2   18.9   15.8   3.0   18.8   15.4   0.9   2.5     1955   0.4   21.2   17.7   3.5   21.1   17.2   1.1   2.5     1956   2.8   25.2   21.3   3.9   25.3   18.9   1.1   2.4     1957   4.8   28.3   24.0   4.3   28.3   19.9   12   2.3     1958   0.9   24.4   20.6   3.9   24.4   20.0   12   2.3     1959   0.1   2.7   2.7   4.3   2.3   2.5   2.3   15.5   4.3     1960   3.2   31.9   27.0   4.9   31.9   22.8   1.8   4.1     1961   4.3   32.9   27.6   5.3   32.9   22.7   18.8   4.1     1962   3.9   35.0   29.1   5.9   35.0   22.0   18.8   4.3     1963   5.0   37.6   31.1   6.5   37.6   26.1   2.1   4.4     1964   7.5   42.3   35.0   7.2   42.2   28.1   2.3   4.3     1965   6.2   45.0   37.1   7.9   45.0   31.5   2.6   4.7     1966   3.9   49.0   40.9   8.1   49.0   37.1   3.0   5.0     1967   3.6   52.1   43.5   8.7   52.2   39.9   33.3   5.4     1963   5.7   58.0   47.9   10.1   58.0   46.6   4.0   5.7     1969   1.8   63.7   51.9   11.8   63.7   50.5   5.7   5.8     1971   0.6   77.0   63.0   14.0   77.0   62.3   64   7.6     1972   3.6   87.1   70.8   16.3   87.1   42.2   77.8     1973   9.3   118.8   95.3   23.5   118.8   91.2   10.9   7.4     1974   6.6   156.5   126.7   29.8   156.4   127.5   14.3   8.1     1977   9.0   196.6   159.4   37.2   196.6   182.4   16.9   6.2     1978   -0.1   37.9   28.2   29.1   37.9   29.3   44.9   9.8     1981   6.3   397.3   30.2   20.1   63.3   29.4   22.7   30.4   30.4     1974   6.6   156.5   126.7   29.8   156.4   127.5   14.3   8.1     1975   21.4   166.7   138.7   28.0   166.8   122.7   15.0   6.2     1978   -10.4   233.1   186.9   46.3   233.2   212.3   24.7   6.7     1979   1.4   28.5   29.0   66.8   122.7   15.0   6.2     1978   -10.4   233.1   186.9   46.3   233.2   212.3   24.7   6.7     1979   1.4   28.5   29.0   68.8   29.2   39.9   29.8   44.9   9.8     1981   6.3   397.3   30.5   29.0   397.2   317.8   59.1   14.1     1982   -0.2   384.2   282.2   10.10   384.2   30.2   64.5   64.8     1983   -112.									
1953   -1,3									
1954   0.2   18.9   15.8   3.0   18.8   15.4   0.9   2.3     1955   0.4   21.2   17.7   3.5   21.1   17.2   1.1   2.5     1956   2.8   25.2   21.3   3.9   25.3   18.9   1.1   2.4     1957   4.8   28.3   24.0   4.3   28.3   19.9   1.2   2.3     1958   0.9   24.4   20.6   3.9   24.4   20.0   1.2   2.3     1959   -1.2   27.0   22.7   4.3   27.0   22.3   15.5   4.3     1960   3.2   31.9   27.0   4.9   31.9   22.8   1.8   4.1     1961   4.3   32.9   27.6   5.3   32.9   22.7   1.8   4.2     1962   3.9   35.0   29.1   5.9   35.0   25.0   1.8   4.3     1963   5.0   37.6   31.1   6.5   37.6   26.1   2.1   4.4     1964   7.5   42.3   35.0   7.2   42.2   28.1   2.3   4.3     1965   6.2   45.0   37.1   7.9   45.0   31.5   2.6   4.7     1966   3.9   49.0   40.9   8.1   49.0   37.1   3.0   5.0     1967   3.6   52.1   43.5   8.7   52.2   39.9   33.3   5.4     1968   1.7   58.0   47.9   10.1   58.0   46.6   40.0   5.7     1969   1.8   63.7   51.9   11.8   63.7   50.5   57.5   58.8     1970   4.0   72.5   59.7   12.8   72.5   55.8   64.4   63.1     1971   0.6   77.0   63.0   14.0   77.0   62.3   64.4   7.6     1972   -3.6   87.1   70.8   16.3   87.1   74.2   7.7   8.8     1973   9.3   118.8   95.3   23.5   118.8   91.2   10.9   7.4     1974   6.6   156.5   126.7   29.8   156.4   127.5   14.3   8.1     1975   21.4   166.7   138.7   28.0   166.8   122.7   15.0   7.6     1978   -10.4   29.8   230.1   68.3   298.4   252.7   36.4   8.0     1980   11.4   35.9   280.8   79.1   35.9   293.8   44.9   9.8     1981   6.3   397.3   305.2   230.1   68.3   298.4   252.7   36.4   8.0     1982   -10.2   384.2   283.2   101.0   384.2   252.7   36.4   8.0     1984   -86.9   424.2   302.4   121.9   424.3   405.1   85.6   20.5     1985   -10.8   487.1   36.9   23.3   17.7   681.0   591.5   151.5   26.4     1996   -70.1   74.15   552.4   89.1   151.1   15.5   26.4     1997   -70.0   10.6   159.4   37.2   196.6   182.4   16.9   62.2     1988   -88.3   681.0   50.3   177.7   681.0   591.5   151.5   26.4     1998   -88.3   681.0   50.3   177.7   681									
1955   0.4   21.2   17.7   3.5   21.1   17.2   1.1   2.5     1956   2.8   25.2   21.3   3.9   25.3   18.9   1.1   2.4     1957   4.8   28.3   24.0   4.3   28.3   19.9   1.2   2.3     1958   0.9   24.4   20.6   3.9   24.4   20.0   1.2   2.3     1959   -1.2   27.0   22.7   4.3   27.0   22.3   1.5   4.3     1960   3.2   31.9   27.0   4.9   31.9   22.8   1.8   4.1     1961   4.3   32.9   27.6   5.3   32.9   22.7   1.8   4.3     1963   5.0   37.6   31.1   6.5   37.6   26.1   2.1   4.4     1963   5.0   37.6   31.1   6.5   37.6   26.1   2.1   4.4     1964   7.5   42.3   35.0   7.2   42.2   28.1   2.8   1.8     1965   6.2   45.0   37.1   7.9   45.0   31.5   2.6   4.7     1966   3.9   40.0   40.9   8.1   49.0   37.1   30.5     1967   3.6   52.1   43.5   8.7   52.2   39.9   3.3   5.4     1968   1.7   58.0   47.9   10.1   58.0   46.6   4.0   5.7     1969   1.8   63.7   51.9   11.8   63.7   50.5   5.7   5.8     1970   4.0   72.5   59.7   12.8   72.5   55.8   6.4   6.3     1971   0.6   77.0   63.0   44.0   77.0   62.3   6.4   7.6     1972   -3.6   87.1   70.8   16.3   87.1   74.2   7.7   8.8     1973   9.3   118.8   95.3   23.5   118.8   91.2   10.9   7.4     1974   6.6   156.5   126.7   29.8   156.4   127.5   14.3   8.1     1975   21.4   166.7   138.7   28.0   166.8   122.7   15.0   7.6     1978   -10.4   233.1   186.9   46.3   233.2   212.3   24.7   6.7     1988   -3.2   37.8   27.0   37.2   37.2   37.2   37.5   38.8     1980   11.4   359.9   280.8   79.1   359.9   293.8   44.9   98.     1981   -6.3   37.3   30.5   27.0   37.5   37.5   37.5     1985   -10.4   233.1   186.9   46.3   233.2   212.3   24.7   5.6   3.5     1985   -10.4   233.1   186.9   46.3   233.2   212.3   24.7   5.6   3.5     1987   -10.4   233.1   186.9   46.3   233.2   212.3   24.7   5.6   6.7     1983   -32.1   378.9   277.0   01.0   378.8   328.6   64.8   17.5     1989   -88.3   681.0   503.3   177.7   681.0   591.5   151.5   26.4     1989   -70.1   741.5   552.4   441.1   52.1   596.2   554.5   16.7     1989   -88.3   681.0   503.3   177.7   681.0									
1956   2.8   25.2   21.3   3.9   25.3   18.9   1.1   2.4     1957   4.8   28.3   24.0   4.3   28.3   19.9   1.2   2.3     1958   0.9   24.4   20.6   3.9   24.4   20.0   1.2   2.3     1959   -1.2   27.0   22.7   4.3   27.0   22.3   1.5   4.3     1960   3.2   31.9   27.0   4.9   31.9   22.8   1.8   4.1     1961   4.3   32.9   27.6   5.3   32.9   22.7   1.8   4.2     1962   3.9   35.0   29.1   5.9   35.0   25.0   1.8   4.3     1963   5.0   37.6   31.1   6.5   37.6   26.1   2.1   4.4     1964   7.5   42.3   35.0   7.2   42.2   28.1   2.3   4.3     1965   6.2   45.0   37.1   7.9   45.0   31.5   2.6   4.7     1966   3.9   49.0   40.9   8.1   49.0   37.1   3.0   5.0     1967   3.6   52.1   43.5   8.7   52.2   39.9   3.3   5.4     1968   1.7   58.0   47.9   10.1   58.0   46.6   4.0   5.7     1969   1.8   63.7   51.9   11.8   63.7   50.5   5.7   5.8     1970   4.0   72.5   59.7   12.8   72.5   55.8   6.4   7.6     1971   0.6   77.0   63.0   14.0   77.0   62.3   6.4   7.6     1972   -3.6   87.1   70.8   16.3   87.1   74.2   7.7   8.8     1973   9.3   118.8   95.3   23.5   118.8   11.2   10.9   7.4     1974   6.6   156.5   126.7   29.8   156.4   127.5   14.3   8.1     1977   9.0   196.6   159.4   37.2   196.6   182.4   16.9   6.2     1978   -10.4   233.1   186.9   46.3   233.2   212.3   24.7   6.7     1979   1.4   298.5   230.1   68.3   298.4   252.7   36.4   8.0     1980   11.4   359.9   280.8   79.1   359.9   293.8   49.9   9.8     1981   6.3   397.3   305.2   92.0   397.2   317.8   59.1   14.1     1982   -0.2   384.2   283.2   101.0   384.2   303.2   64.5   16.7     1983   -3.21   378.9   277.0   101.9   378.8   328.6   64.8   17.5     1984   -86.9   424.2   302.4   121.9   424.3   405.1   85.6   20.5     1985   -110.8   414.5   302.0   112.4   414.5   417.2   85.9   23.8     1986   -139.2   431.9   300.5   111.4   432.0   433.3   93.6   243.3     1987   -150.8   487.1   363.9   123.2   487.1   509.1   105.3   23.5     1988   -150.8   487.1   363.9   123.2   487.1   509.1   515.5   64.4     1990   -70.1   741.5   552									
1957   4.8   28.3   24.0   4.3   28.3   19.9   1.2   2.3     1958   0.9   24.4   20.6   3.9   24.4   20.0   1.2   2.3     1959   -1.2   27.0   22.7   4.3   27.0   22.3   1.5   4.3     1960   3.2   31.9   27.0   4.9   31.9   22.8   1.8   4.1     1961   4.3   32.9   27.6   5.3   32.9   22.7   1.8   4.2     1962   3.9   35.0   29.1   5.9   35.0   25.0   1.8   4.3     1963   5.0   37.6   31.1   6.5   37.6   26.1   2.1   4.4     1964   7.5   42.3   35.0   7.2   42.2   28.1   2.3   4.3     1965   6.2   45.0   37.1   7.9   45.0   31.5   2.6   4.7     1966   3.9   49.0   40.9   8.1   49.0   37.1   3.0   5.0     1968   1.7   58.0   47.9   10.1   58.0   46.6   4.0   5.7     1969   1.8   63.7   51.9   11.8   63.7   50.5   57.5   58.     1970   4.0   72.5   59.7   12.8   72.5   55.8   6.4   6.3     1971   0.6   77.0   63.0   41.0   77.0   62.3   6.4   6.3     1972   -3.6   87.1   70.8   16.3   87.1   74.2   77.8   8.8     1973   9.3   118.8   95.3   23.5   118.8   91.2   10.9   7.4     1974   6.6   156.5   126.7   29.8   156.4   127.5   14.3   8.1     1975   21.4   166.7   138.7   28.0   166.8   122.7   15.0   7.6     1978   -9.0   196.6   159.4   37.2   196.6   82.4   15.1   15.5   6.3     1979   1.4   29.8   230.1   68.3   298.4   252.7   36.4   6.7     1979   1.4   29.8   230.1   68.3   298.4   252.7   36.4   37.5     1981   6.3   397.3   305.2   20.0   397.2   317.8   59.1   41.1     1982   -0.2   348.2   302.0   112.4   444.5   441.0   303.2   445.0     1983   -32.1   378.9   277.0   101.9   378.8   328.6   64.8   17.5     1984   -8.6   424.2   302.4   121.9   424.3   405.1   85.6   20.5     1986   -139.2   431.9   300.5   111.4   442.0   453.3   39.6   24.3     1987   -10.8   487.1   363.9   123.2   487.1   590.1   105.3   50.5     1986   -139.2   431.9   300.5   111.4   442.0   453.3   39.6   24.3     1987   -10.8   487.1   363.9   123.2   487.1   590.1   105.3   50.5     1989   -88.3   681.0   503.3   177.7   681.0   591.5   151.5   264     1999   -88.3   681.0   503.3   177.7   681.0   591.5   151.5   264     19									
1958   0.9   24.4   20.6   3.9   24.4   20.0   1.2   2.3     1959   -1.2   27.0   22.7   4.3   27.0   22.3   1.5   4.3     1960   3.2   31.9   27.0   4.9   31.9   22.8   1.8   4.1     1961   4.3   32.9   27.6   5.3   32.9   22.7   1.8   4.2     1962   3.9   35.0   29.1   5.9   35.0   25.5   1.8   4.3     1963   5.0   37.6   31.1   6.5   37.6   26.1   2.1   4.4     1964   7.5   42.3   35.0   7.2   42.2   28.1   2.3   4.3     1965   6.2   45.0   37.1   7.9   45.0   31.5   2.6   4.7     1966   3.9   49.0   40.9   8.1   49.0   37.1   3.0   5.0     1967   3.6   52.1   43.5   8.7   52.2   39.9   3.3   5.4     1968   1.7   58.0   47.9   10.1   58.0   46.6   4.0   5.7     1969   1.8   63.7   51.9   11.8   63.7   50.5   5.7     1970   4.0   72.5   59.7   12.8   72.5   55.8   64.   6.3     1971   0.6   77.0   63.0   14.0   77.0   62.3   6.4   7.6     1972   -3.6   87.1   70.8   16.3   87.1   74.2   7.7   8.8     1973   9.3   118.8   95.3   23.5   118.8   91.2   10.9   7.4     1974   6.6   156.5   126.7   29.8   156.4   127.5   14.3   8.1     1977   -9.0   196.6   159.4   37.2   196.6   182.4   16.9   6.2     1978   -10.4   233.1   186.9   46.3   233.2   212.3   24.7   6.7     1979   1.4   298.5   230.1   68.3   298.4   252.7   36.4   8.0     1981   6.3   397.3   30.5   292.0   307.2   317.8   59.1   14.1     1982   -0.2   384.2   283.2   101.0   384.2   303.2   64.5   67.7     1986   -139.2   431.9   320.5   111.4   432.0   453.3   93.6   24.3     1987   -150.8   487.1   363.9   123.2   447.1   50.1     1988   -88.3   681.0   50.3   177.7   681.0   50.5   57.5     1984   -86.9   424.2   302.4   121.9   424.3   405.1   85.6   20.5     1985   -110.8   444.5   303.2   112.4   444.5   432.0   453.3   93.6   24.3     1987   -150.8   487.1   363.9   123.2   487.1   50.1   15.5   6.3     1987   -150.8   487.1   363.9   123.2   487.1   50.1   151.5   66.4     1990   -70.1   741.5   552.4   189.1   741.4   630.3   134.5   50.5     1991   13.5   765.7   596.8   168.9   765.8   624.3   138.5   -10.6     1992   -36.9   788.0   635									
1959   -1.2   27.0   22.7   4.3   27.0   22.3   1.5   4.3     1960   3.2   31.9   27.0   4.9   31.9   22.8   1.8   4.1     1961   4.3   32.9   27.6   5.3   32.9   22.7   1.8   4.2     1962   3.9   35.0   29.1   5.9   35.0   25.0   1.8   4.3     1963   5.0   37.6   31.1   6.5   37.6   26.1   2.1   4.4     1964   7.5   42.3   35.0   7.2   42.2   28.1   2.3   4.3     1965   6.2   45.0   37.1   7.9   45.0   31.5   2.6   4.7     1966   3.9   49.0   40.9   8.1   49.0   37.1   3.0   5.0     1967   3.6   52.1   43.5   8.7   52.2   39.9   3.3   5.4     1968   1.7   58.0   47.9   10.1   58.0   46.6   4.0   5.7     1969   1.8   63.7   51.9   11.8   63.7   50.5   5.7   5.8     1970   4.0   72.5   59.7   12.8   72.5   55.8   6.4   6.3     1971   0.6   77.0   63.0   14.0   77.0   62.3   6.4   7.6     1972   -3.6   87.1   70.8   16.3   87.1   74.2   7.7   8.8     1973   9.3   118.8   95.3   23.5   118.8   91.2   10.9   7.4     1974   6.6   156.5   156.5   126.7   29.8   156.4   127.5   14.3   8.1     1975   21.4   166.7   138.7   28.0   166.8   122.7   15.0   7.6     1978   -9.0   196.6   159.4   37.2   196.6   182.4   16.9   6.2     1978   -10.4   233.1   186.9   46.3   233.2   212.3   24.7   6.7     1979   1.4   298.5   230.1   68.3   238.4   237.2   317.8   59.1   14.1     1981   6.3   397.3   305.2   92.0   397.2   317.8   59.1   14.1     1982   -0.2   384.2   283.2   101.0   384.2   305.2   64.5   16.7     1983   -32.1   378.9   277.0   101.9   378.8   328.6   64.8   17.5     1984   -86.9   42.4   302.4   121.9   424.3   405.1   85.6   20.5     1985   -110.8   414.5   302.0   112.4   414.5   417.2   85.9   22.2     1986   -139.2   431.9   30.5   111.4   432.0   453.3   33.6   64.5   16.7     1987   -10.0   41.1   55.1   596.2   554.5   128.5   25.5     1989   -88.3   681.0   50.3   17.7   681.0   591.5   151.5   26.4     1997   -10.8   487.1   363.9   123.2   487.1   509.1   105.3   33.5     1994   -105.2   907.3   720.9   186.4   907.3   814.5   160.2   37.8     1997   -100.3   1,117.3   868.6   248.7   1,117.3   964.									
1960   3.2   31.9   27.0   4.9   31.9   22.8   1.8   4.1     1961   4.3   32.9   27.6   5.3   32.9   22.7   1.8   4.2     1962   3.9   35.0   29.1   5.9   35.0   25.0   1.8   4.3     1963   5.0   37.6   31.1   6.5   37.6   26.1   2.1   4.4     1964   7.5   42.3   35.0   7.2   42.2   28.1   2.3   4.3     1965   6.2   45.0   37.1   7.9   45.0   31.5   2.6   4.7     1966   3.9   49.0   40.9   8.1   49.0   37.1   3.0   5.0     1967   3.6   52.1   43.5   8.7   52.2   39.9   3.3   5.4     1968   1.7   58.0   47.9   10.1   58.0   46.6   4.0   5.7     1969   1.8   63.7   51.9   11.8   63.7   50.5   5.7   5.8     1970   4.0   72.5   59.7   12.8   72.5   55.8   6.4   6.3     1971   0.6   77.0   63.0   14.0   77.0   62.3   6.4   7.6     1972   -3.6   87.1   70.8   16.3   87.1   74.2   7.7   8.8     1973   9.3   118.8   95.3   23.5   118.8   91.2   10.9   7.4     1975   21.4   166.7   138.7   28.0   166.8   122.7   15.0   7.6     1976   8.9   181.9   149.5   32.4   181.9   151.1   15.5   6.3     1977   -9.0   196.6   159.4   37.2   196.6   182.4   16.9   6.2     1978   -10.4   233.1   186.9   46.3   233.2   212.3   24.7   6.7     1983   -3.2.1   378.9   277.0   10.9   378.8   328.6   64.8   17.5     1984   -8.69   424.2   283.2   101.0   384.2   303.2   64.5   16.7     1985   -10.8   441.5   302.0   112.4   414.5   417.2   85.9   22.2     1986   -139.2   431.9   302.5   111.4   432.0   453.3   33.6   24.3     1987   -10.4   841.5   302.0   112.4   414.5   417.2   85.9   22.2     1986   -139.2   431.9   302.5   111.4   432.0   453.3   33.6   64.5   16.7     1983   -3.2.1   378.9   277.0   10.9   378.8   328.6   64.8   17.5     1984   -8.69   424.2   302.4   121.9   424.3   405.1   85.6   20.5     1985   -110.8   447.1   552.1   596.2   554.5   185.5   20.5     1986   -139.2   431.9   302.5   111.4   432.0   453.3   33.6   24.3     1987   -150.8   487.1   363.9   123.2   487.1   509.1   105.3   33.5     1988   -112.2   596.2   444.1   152.1   596.2   554.5   185.5   20.5     1989   -88.3   681.0   503.3   177.7   681.0   5									
1961   4.3   32.9   27.6   5.3   32.9   22.7   1.8   4.2     1962   3.9   35.0   29.1   5.9   35.0   25.0   1.8   4.3     1963   5.0   37.6   31.1   6.5   37.6   26.1   2.1   4.4     1964   7.5   42.3   35.0   7.2   42.2   28.1   2.3   4.3     1965   6.2   45.0   37.1   7.9   45.0   31.5   2.6   4.7     1966   3.9   49.0   40.9   8.1   49.0   37.1   3.0   5.0     1967   3.6   52.1   43.5   8.7   52.2   39.9   3.3   5.4     1968   1.7   58.0   47.9   10.1   58.0   46.6   4.0   5.7     1969   1.8   63.7   51.9   11.8   63.7   50.5   5.7   5.8     1970   4.0   72.5   59.7   12.8   72.5   55.8   6.4   6.3     1971   0.6   77.0   63.0   14.0   77.0   62.3   6.4   7.6     1972   -3.6   87.1   70.8   16.3   87.1   74.2   7.7   8.8     1973   9.3   118.8   95.3   23.5   118.8   91.2   10.9   7.4     1974   6.6   156.5   126.7   29.8   156.4   127.5   14.3   8.1     1975   21.4   166.7   138.7   28.0   166.8   122.7   15.0   7.6     1976   8.9   18.19   149.5   32.4   181.9   151.1   15.5   6.3     1977   -9.0   19.6   159.4   37.2   196.6   182.4   16.9   6.2     1978   -10.4   233.1   186.9   46.3   233.2   212.3   24.7   6.7     1981   6.3   397.3   305.2   92.0   397.2   317.8   59.1   14.1     1982   -0.2   384.2   283.2   101.0   384.2   303.2   64.5   64.5     1983   -32.1   378.9   277.0   101.9   378.8   328.6   64.8   17.5     1984   -86.9   424.2   302.4   121.9   424.3   405.1   85.6   20.5     1985   -110.8   414.5   302.0   112.4   414.5   417.2   85.9   22.2     1986   -139.2   431.9   300.5   111.4   432.0   453.3   93.6   24.3     1987   -150.8   487.1   363.9   123.2   487.1   509.1   153.3   23.5     1988   -112.2   596.2   444.1   152.1   596.2   554.5   128.5   25.5     1989   -88.3   681.0   503.3   177.7   681.0   591.5   151.5   26.4     1990   -70.1   41.5   552.4   189.1   741.4   50.3   594.5   25.5     1991   13.5   765.7   596.8   168.9   765.8   624.3   138.5   -10.6     1991   13.5   765.7   596.8   168.9   765.8   624.3   138.5   -10.6     1991   -10.2   1.242.0   955.3   286.7   1.242.									
1962   3.9   35.0   29.1   5.9   35.0   25.0   1.8   4.3     1963   5.0   37.6   31.1   6.5   37.6   26.1   2.1   4.4     1964   7.5   42.3   35.0   7.2   42.2   28.1   2.3   4.3     1965   6.2   45.0   37.1   7.9   45.0   31.5   2.6   4.7     1966   3.9   49.0   40.9   8.1   49.0   37.1   3.0   5.0     1967   3.6   52.1   43.5   8.7   52.2   39.9   3.3   5.4     1968   1.7   58.0   47.9   10.1   58.0   46.6   4.0   5.7     1969   1.8   63.7   51.9   11.8   63.7   50.5   5.7   5.8     1970   4.0   72.5   59.7   12.8   72.5   55.8   64   6.3     1971   0.6   77.0   63.0   14.0   77.0   62.3   6.4   7.6     1972   -3.6   87.1   70.8   16.3   87.1   74.2   7.7   8.8     1973   9.3   118.8   95.3   23.5   118.8   91.2   10.9   7.4     1974   6.6   156.5   126.7   29.8   156.4   127.5   14.3   8.1     1975   21.4   166.7   138.7   28.0   166.8   122.7   15.0   7.6     1976   8.9   181.9   149.5   32.4   181.9   151.1   15.5   6.3     1977   -9.0   196.6   159.4   37.2   196.6   182.4   16.9   6.2     1978   -10.4   233.1   186.9   46.3   233.2   212.3   24.7   6.7     1979   1.4   298.5   230.1   68.3   298.4   252.7   36.4   8.0     1980   11.4   359.9   280.8   79.1   359.9   293.8   44.9   9.8     1981   6.3   397.3   305.2   92.0   397.2   317.8   59.1   14.1     1982   -0.2   384.2   283.2   101.0   384.2   303.2   64.5   16.7     1983   -32.1   378.9   277.0   101.9   378.8   328.6   64.8   17.5     1984   -86.9   424.2   302.4   121.9   424.3   405.1   85.6   20.5     1985   -110.8   414.5   302.0   112.4   414.5   417.2   85.9   22.2     1986   -139.2   431.9   320.5   111.4   432.0   453.3   93.6   24.3     1987   -10.8   487.1   363.9   123.2   487.1   509.1   105.3   23.5     1988   -112.2   596.2   444.1   152.1   596.2   554.5   128.5   25.5     1985   -10.8   487.1   363.9   123.2   487.1   509.1   105.3   23.5     1989   -88.3   681.0   503.3   177.7   781.0   60.8   60.8   61.8   17.5     1990   -70.1   741.5   552.4   189.1   741.4   630.3   154.3   26.9     1991   1.5   506.2   444.1   152.1   59									
1963   5.0   37.6   31.1   6.5   37.6   26.1   2.1   4.4     1964   7.5   42.3   35.0   7.2   42.2   28.1   2.3   4.3     1965   6.2   45.0   37.1   7.9   45.0   31.5   2.6   4.7     1966   3.9   49.0   40.9   8.1   49.0   37.1   3.0   5.0     1967   3.6   52.1   43.5   8.7   52.2   39.9   3.3   5.4     1968   1.7   58.0   47.9   10.1   58.0   46.6   4.0   5.7     1969   1.8   63.7   51.9   11.8   63.7   50.5   5.7   5.8     1970   4.0   72.5   59.7   12.8   72.5   55.8   64   6.3     1971   0.6   77.0   63.0   14.0   77.0   62.3   6.4   7.6     1972   -3.6   87.1   70.8   16.3   87.1   74.2   7.7   8.8     1973   9.3   118.8   95.3   23.5   118.8   91.2   10.9   7.4     1974   6.6   156.5   126.7   29.8   156.4   127.5   14.3   8.1     1975   21.4   166.7   138.7   28.0   166.8   122.7   15.0   7.6     1976   8.9   181.9   149.5   32.4   181.9   151.1   15.5   6.3     1977   -9.0   196.6   159.4   37.2   196.6   182.4   16.9   6.2     1978   -10.4   233.1   186.9   46.3   233.2   212.3   24.7   6.7     1979   1.4   298.5   230.1   68.3   298.4   252.7   36.4   8.0     1980   11.4   359.9   280.8   79.1   359.9   293.8   44.9   9.8     1981   6.3   397.3   305.2   92.0   397.2   317.8   59.1   14.1     1982   -0.2   384.2   283.2   101.0   384.2   303.2   64.5   16.7     1983   -32.1   378.9   277.0   101.9   378.8   328.6   64.8   17.5     1984   -86.9   424.2   302.4   121.9   424.3   405.1   85.6   20.5     1985   -110.8   414.5   302.0   112.4   414.5   417.2   85.9   22.2     1986   -139.2   431.9   320.5   111.4   432.0   453.3   39.6   24.3     1987   -150.8   487.1   363.9   123.2   487.1   509.1   105.3   23.5     1988   -112.2   596.2   444.1   152.1   596.2   554.5   128.5   25.5     1989   -83.6   681.0   503.3   177.7   681.0   591.5   151.5   26.4     1990   -70.1   741.5   552.4   189.1   741.4   630.3   154.3   26.9     1991   13.5   765.7   596.8   168.9   765.8   624.3   138.5   10.6     1990   -70.1   741.5   552.4   189.1   741.4   630.3   154.3   26.9     1991   13.5   765.7   596.8   168									
1964   7.5									
1965   6.2   45.0   37.1   7.9   45.0   31.5   2.6   4.7     1966   3.9   49.0   40.9   8.1   49.0   37.1   3.0   5.0     1967   3.6   52.1   43.5   8.7   52.2   39.9   3.3   5.4     1968   1.7   58.0   47.9   10.1   58.0   46.6   4.0   5.7     1969   1.8   63.7   51.9   11.8   63.7   50.5   5.7   5.8     1970   4.0   72.5   59.7   12.8   72.5   55.8   6.4   6.3     1971   0.6   77.0   63.0   14.0   77.0   62.3   6.4   7.6     1972   -3.6   87.1   70.8   16.3   87.1   74.2   7.7   8.8     1973   9.3   118.8   95.3   23.5   118.8   91.2   10.9   7.4     1974   6.6   156.5   126.7   29.8   156.4   127.5   14.3   8.1     1975   21.4   166.7   138.7   28.0   166.8   122.7   15.0   7.6     1976   8.9   181.9   149.5   32.4   181.9   151.1   15.5   6.3     1977   -9.0   196.6   159.4   37.2   196.6   182.4   16.9   6.2     1978   -10.4   233.1   186.9   46.3   233.2   212.3   24.7   6.7     1979   1.4   298.5   230.1   68.3   298.4   252.7   36.4   8.0     1980   11.4   359.9   280.8   79.1   359.9   293.8   44.9   9.8     1981   6.3   397.3   305.2   92.0   397.2   317.8   59.1   14.1     1982   -0.2   384.2   283.2   101.0   384.2   303.2   64.5   16.7     1983   -32.1   378.9   277.0   101.9   378.8   328.6   64.8   17.5     1985   -110.8   44.5   302.0   112.4   414.5   417.2   59.9   22.2     1986   -139.2   431.9   320.5   111.4   432.0   453.3   93.6   24.3     1987   -150.8   487.1   363.9   123.2   487.1   509.1   105.3   23.5     1988   -112.2   596.2   444.1   152.1   596.2   545.5   28.5   25.5     1989   -88.3   681.0   503.3   177.7   681.0   591.5   151.5   26.4     1990   -70.1   741.5   552.4   189.1   741.4   630.3   154.3   26.9     1991   13.5   765.7   596.8   168.9   765.8   624.3   138.5   -10.6     1992   -36.9   788.0   635.3   152.7   788.0   686.6   123.0   33.4     1993   -70.4   812.1   655.8   156.2   812.1   720.9   124.3   37.3     1994   -105.2   907.3   720.9   186.4   907.3   814.5   160.2   37.8     1995   -91.0   1,046.1   812.2   233.9   1,046.1   903.6   198.1   35.4     1999									
1966   3.9									
1967   3.6   52.1   43.5   8.7   52.2   39.9   3.3   5.4     1968   1.7   58.0   47.9   10.1   58.0   46.6   4.0   5.7     1969   1.8   63.7   51.9   11.8   63.7   50.5   5.7   5.8     1970   4.0   72.5   59.7   12.8   72.5   55.8   6.4   6.3     1971   0.6   77.0   63.0   14.0   77.0   62.3   6.4   7.6     1972   -3.6   87.1   70.8   16.3   87.1   74.2   7.7   8.8     1973   9.3   118.8   95.3   23.5   118.8   91.2   10.9   7.4     1974   6.6   156.5   126.7   29.8   156.4   127.5   14.3   8.1     1975   21.4   166.7   138.7   28.0   166.8   122.7   15.0   7.6     1976   8.9   181.9   149.5   32.4   181.9   151.1   15.5   6.3     1977   -9.0   196.6   159.4   37.2   196.6   182.4   16.9   6.2     1978   -10.4   233.1   186.9   46.3   233.2   212.3   24.7   6.7     1979   1.4   298.5   230.1   68.3   298.4   252.7   36.4   8.0     1980   11.4   359.9   280.8   79.1   359.9   293.8   44.9   9.8     1981   6.3   397.3   305.2   92.0   397.2   317.8   59.1   141.1     1982   -0.2   384.2   283.2   101.0   384.2   303.2   64.5   16.7     1983   -32.1   378.9   277.0   101.9   378.8   328.6   64.8   17.5     1984   -86.9   424.2   302.4   121.9   424.3   405.1   85.6   20.5     1985   -110.8   414.5   302.0   112.4   414.5   417.2   85.9   22.2     1986   -139.2   431.9   320.5   111.4   432.0   453.3   93.6   24.3     1987   -150.8   487.1   363.9   123.2   487.1   509.1   105.3   23.5     1989   -88.3   681.0   503.3   177.7   681.0   591.5   151.5   26.4     1990   -70.1   741.5   552.4   189.1   741.4   630.3   154.3   26.9     1991   13.5   765.7   596.8   168.9   765.8   648.8   137.5     1995   -91.0   1,046.1   812.2   233.9   1,046.1   903.6   198.1   35.4     1996   -100.3   1,117.3   868.6   248.7   1,117.3   964.8   213.7   39.1     1997   -70.1   741.5   552.4   189.1   741.4   630.3   154.3   26.9     1999   -273.9   1,312.1   991.2   300.8   1,312.0   1,251.7   287.0   47.2     2000   -396.6   1,478.9   1,096.3   382.7   1,179.0   1,475.8   347.0									
1968   1.7									
1969   1.8									
1970   4.0   72.5   59.7   12.8   72.5   55.8   6.4   6.3     1971   0.6   77.0   63.0   14.0   77.0   62.3   6.4   7.6     1972   -3.6   87.1   70.8   16.3   87.1   74.2   7.7   8.8     1973   9.3   118.8   95.3   23.5   118.8   91.2   10.9   7.4     1974   6.6   156.5   126.7   29.8   156.4   127.5   14.3   8.1     1975   21.4   166.7   138.7   28.0   166.8   122.7   15.0   7.6     1976   8.9   181.9   149.5   32.4   181.9   151.1   15.5   6.3     1977   -9.0   196.6   159.4   37.2   196.6   182.4   16.9   6.2     1978   -10.4   233.1   186.9   46.3   233.2   212.3   24.7   6.7     1979   1.4   298.5   230.1   68.3   298.4   252.7   36.4   8.0     1980   11.4   359.9   280.8   79.1   359.9   293.8   44.9   9.8     1981   6.3   397.3   305.2   92.0   397.2   317.8   59.1   14.1     1982   -0.2   384.2   283.2   101.0   384.2   303.2   64.5   16.7     1983   -32.1   378.9   277.0   101.9   378.8   328.6   64.8   17.5     1984   -86.9   424.2   302.4   121.9   424.3   405.1   85.6   20.5     1985   -110.8   414.5   302.0   112.4   414.5   417.2   85.9   22.2     1986   -139.2   431.9   320.5   111.4   432.0   433.3   93.6   24.3     1987   -150.8   487.1   363.9   123.2   487.1   509.1   105.3   23.5     1988   -112.2   596.2   444.1   152.1   596.2   554.5   128.5   25.5     1989   -88.3   681.0   503.3   177.7   681.0   591.5   151.5   26.4     1990   -70.1   741.5   552.4   189.1   741.4   630.3   154.3   26.9     1991   13.5   765.7   596.8   168.9   765.8   624.3   138.5   -10.6     1992   -36.9   788.0   635.3   152.7   788.0   668.6   123.0   33.4     1994   -105.2   907.3   720.9   186.4   907.3   814.5   160.2   37.8     1995   -91.0   1,046.1   812.2   233.9   1,046.1   903.6   198.1     35.4   1996   -100.3   1,117.3   868.6   248.7   1,117.3   964.8   13.7   39.1     1997   -110.2   1,242.0   955.3   286.7   1,242.0   1,056.9   253.7   41.6     1999   -273.9   1,312.1   991.2   320.8   1,312.0   1,251.7   287.0   47.2     2000   -396.6   1,478.9   1,096.3   322.4   1,355.2   1,399.8   278.8   47.0									
1971   0.6	1969		63.7	51.9					
1972         -3.6         87.1         70.8         16.3         87.1         74.2         7.7         8.8           1973         9.3         118.8         95.3         23.5         118.8         91.2         10.9         7.4           1974         6.6         156.5         126.7         29.8         156.4         127.5         14.3         8.1           1975         21.4         166.7         138.7         28.0         166.8         122.7         15.0         7.6           1976         8.9         181.9         149.5         32.4         181.9         151.1         15.5         6.3           1977         -9.0         196.6         159.4         37.2         196.6         182.4         16.9         6.2           1978         -10.4         233.1         186.9         46.3         233.2         212.3         24.7         6.7           1979         1.4         298.5         230.1         68.3         298.4         252.7         36.4         8.0           1980         11.4         359.9         280.8         79.1         359.9         293.8         44.9         9.8           1981         6.3         397.3		4.0			12.8			6.4	6.3
1973   9.3   118.8   95.3   23.5   118.8   91.2   10.9   7.4     1974   6.6   156.5   126.7   29.8   156.4   127.5   14.3   8.1     1975   21.4   166.7   138.7   28.0   166.8   122.7   15.0   7.6     1976   8.9   181.9   149.5   32.4   181.9   151.1   15.5   6.3     1977   -9.0   196.6   159.4   37.2   196.6   182.4   16.9   6.2     1978   -10.4   233.1   186.9   46.3   233.2   212.3   24.7   6.7     1979   1.4   298.5   230.1   68.3   298.4   252.7   36.4   8.0     1980   11.4   359.9   280.8   79.1   359.9   293.8   44.9   9.8     1981   6.3   397.3   305.2   92.0   397.2   317.8   59.1   14.1     1982   -0.2   384.2   283.2   101.0   384.2   303.2   64.5   16.7     1983   -32.1   378.9   277.0   101.9   378.8   328.6   64.8   17.5     1984   -86.9   424.2   302.4   121.9   424.3   405.1   85.6   20.5     1985   -110.8   414.5   302.0   112.4   414.5   417.2   85.9   22.2     1986   -139.2   431.9   320.5   111.4   432.0   453.3   93.6   24.3     1987   -150.8   487.1   363.9   123.2   487.1   509.1   105.3   23.5     1988   -112.2   596.2   444.1   152.1   596.2   554.5   128.5   25.5     1989   -88.3   681.0   503.3   177.7   681.0   591.5   151.5   26.4     1990   -70.1   741.5   552.4   189.1   741.4   630.3   154.3   26.9     1991   13.5   765.7   596.8   168.9   765.8   624.3   138.5   -10.6     1992   -36.9   788.0   635.3   152.7   788.0   668.6   123.0   33.4     1993   -70.4   812.1   655.8   156.2   812.1   720.9   124.3   37.3     1994   -105.2   907.3   720.9   186.4   907.3   814.5   160.2   37.8     1995   -91.0   1,046.1   812.2   233.9   1,046.1   903.6   198.1   35.4     1999   -73.9   1,312.1   991.2   320.8   1,312.0   1,251.7   287.0   47.2     2000   -370.4   1,355.2   1,032.8   322.4   1,355.2   1,399.8   278.8   47.0	1971	0.6		63.0	14.0				
1974         6.6         156.5         126.7         29.8         156.4         127.5         14.3         8.1           1975         21.4         166.7         138.7         28.0         166.8         122.7         15.0         7.6           1976         8.9         181.9         149.5         32.4         181.9         151.1         15.5         6.3           1977         -9.0         196.6         159.4         37.2         196.6         182.4         16.9         6.2           1978         -10.4         233.1         186.9         46.3         233.2         212.3         24.7         6.7           1979         1.4         298.5         230.1         68.3         298.4         252.7         36.4         8.0           1980         11.4         359.9         280.8         79.1         359.9         293.8         44.9         9.8           1981         6.3         397.3         305.2         92.0         397.2         317.8         59.1         14.1           1982         -0.2         384.2         283.2         101.0         384.2         303.2         64.5         16.7           1983         -32.1 <t< td=""><td>1972</td><td>-3.6</td><td>87.1</td><td>70.8</td><td>16.3</td><td>87.1</td><td>74.2</td><td>7.7</td><td>8.8</td></t<>	1972	-3.6	87.1	70.8	16.3	87.1	74.2	7.7	8.8
1975         21.4         166.7         138.7         28.0         166.8         122.7         15.0         7.6           1976         8.9         181.9         149.5         32.4         181.9         151.1         15.5         6.3           1977         -9.0         196.6         159.4         37.2         196.6         182.4         16.9         6.2           1978         -10.4         233.1         186.9         46.3         233.2         212.3         24.7         6.7           1979         1.4         298.5         230.1         68.3         298.4         252.7         36.4         8.0           1980         11.4         359.9         280.8         79.1         359.9         293.8         44.9         9.8           1981         6.3         397.3         305.2         92.0         397.2         317.8         59.1         14.1           1982         -0.2         384.2         283.2         101.0         384.2         303.2         64.5         16.7           1983         -32.1         378.9         277.0         101.9         378.8         328.6         64.8         17.5           1984         -86.9	1973	9.3	118.8	95.3	23.5	118.8	91.2	10.9	7.4
1976         8.9         181.9         149.5         32.4         181.9         151.1         15.5         6.3           1977         -9.0         196.6         159.4         37.2         196.6         182.4         16.9         6.2           1978         -10.4         233.1         186.9         46.3         233.2         212.3         24.7         6.7           1979         1.4         298.5         230.1         68.3         298.4         252.7         36.4         8.0           1980         11.4         359.9         280.8         79.1         359.9         293.8         44.9         9.8           1981         6.3         397.3         305.2         92.0         397.2         317.8         59.1         14.1           1982         -0.2         384.2         283.2         101.0         384.2         303.2         64.5         16.7           1983         -32.1         378.9         277.0         101.9         378.8         328.6         64.8         17.5           1984         -86.9         424.2         302.4         121.9         424.3         405.1         85.6         20.5           1985         -110.8	1974	6.6	156.5	126.7	29.8	156.4	127.5	14.3	8.1
1977         -9.0         196.6         159.4         37.2         196.6         182.4         16.9         6.2           1978         -10.4         233.1         186.9         46.3         233.2         212.3         24.7         6.7           1979         1.4         298.5         230.1         68.3         298.4         252.7         36.4         8.0           1980         11.4         359.9         280.8         79.1         359.9         293.8         44.9         9.8           1981         6.3         397.3         305.2         92.0         397.2         317.8         59.1         14.1           1982         -0.2         384.2         283.2         101.0         384.2         303.2         64.5         16.7           1983         -32.1         378.9         277.0         101.9         378.8         328.6         64.8         17.5           1984         -86.9         424.2         302.4         121.9         424.3         405.1         85.6         20.5           1985         -110.8         414.5         302.0         112.4         414.5         417.2         85.9         22.2           1986         -139.2 <td>1975</td> <td>21.4</td> <td>166.7</td> <td>138.7</td> <td>28.0</td> <td>166.8</td> <td>122.7</td> <td>15.0</td> <td>7.6</td>	1975	21.4	166.7	138.7	28.0	166.8	122.7	15.0	7.6
1978         -10.4         233.1         186.9         46.3         233.2         212.3         24.7         6.7           1979         1.4         298.5         230.1         68.3         298.4         252.7         36.4         8.0           1980         11.4         359.9         280.8         79.1         359.9         293.8         44.9         9.8           1981         6.3         397.3         305.2         92.0         397.2         317.8         59.1         14.1           1982         -0.2         384.2         283.2         101.0         384.2         303.2         64.5         16.7           1983         -32.1         378.9         277.0         101.9         378.8         328.6         64.8         17.5           1984         -86.9         424.2         302.4         121.9         424.3         405.1         85.6         20.5           1985         -110.8         414.5         302.0         112.4         414.5         417.2         85.9         22.2           1986         -139.2         431.9         320.5         111.4         432.0         453.3         93.6         24.3           1987         -150.	1976	8.9	181.9	149.5	32.4	181.9	151.1	15.5	6.3
1979         1.4         298.5         230.1         68.3         298.4         252.7         36.4         8.0           1980         11.4         359.9         280.8         79.1         359.9         293.8         44.9         9.8           1981         6.3         397.3         305.2         92.0         397.2         317.8         59.1         14.1           1982         -0.2         384.2         283.2         101.0         384.2         302.2         64.5         16.7           1983         -32.1         378.9         277.0         101.9         378.8         328.6         64.8         17.5           1984         -86.9         424.2         302.4         121.9         424.3         405.1         85.6         20.5           1985         -110.8         414.5         302.0         112.4         414.5         417.2         85.9         22.2           1986         -139.2         431.9         320.5         111.4         432.0         453.3         93.6         24.3           1987         -150.8         487.1         363.9         123.2         487.1         509.1         105.3         23.5           1988         -	1977	-9.0	196.6	159.4	37.2	196.6	182.4	16.9	6.2
1980         11.4         359.9         280.8         79.1         359.9         293.8         44.9         9.8           1981         6.3         397.3         305.2         92.0         397.2         317.8         59.1         14.1           1982         -0.2         384.2         283.2         101.0         384.2         303.2         64.5         16.7           1983         -32.1         378.9         277.0         101.9         378.8         328.6         64.8         17.5           1984         -86.9         424.2         302.4         121.9         424.3         405.1         85.6         20.5           1985         -110.8         414.5         302.0         112.4         414.5         417.2         85.9         22.2           1986         -139.2         431.9         320.5         111.4         432.0         453.3         93.6         24.3           1987         -150.8         487.1         363.9         123.2         487.1         509.1         105.3         23.5           1988         -112.2         596.2         444.1         152.1         596.2         554.5         128.5         25.5           1989	1978	-10.4	233.1	186.9	46.3	233.2	212.3	24.7	6.7
1981         6.3         397.3         305.2         92.0         397.2         317.8         59.1         14.1           1982         -0.2         384.2         283.2         101.0         384.2         303.2         64.5         16.7           1983         -32.1         378.9         277.0         101.9         378.8         328.6         64.8         17.5           1984         -86.9         424.2         302.4         121.9         424.3         405.1         85.6         20.5           1985         -110.8         414.5         302.0         112.4         414.5         417.2         85.9         22.2           1986         -139.2         431.9         320.5         111.4         432.0         453.3         93.6         24.3           1987         -150.8         487.1         363.9         123.2         487.1         509.1         105.3         23.5           1988         -112.2         596.2         444.1         152.1         596.2         554.5         128.5         25.5           1989         -88.3         681.0         503.3         177.7         681.0         591.5         151.5         26.4           1990	1979	1.4	298.5	230.1	68.3	298.4	252.7	36.4	8.0
1982         -0.2         384.2         283.2         101.0         384.2         303.2         64.5         16.7           1983         -32.1         378.9         277.0         101.9         378.8         328.6         64.8         17.5           1984         -86.9         424.2         302.4         121.9         424.3         405.1         85.6         20.5           1985         -110.8         414.5         302.0         112.4         414.5         417.2         85.9         22.2           1986         -139.2         431.9         320.5         111.4         432.0         453.3         93.6         24.3           1987         -150.8         487.1         363.9         123.2         487.1         509.1         105.3         23.5           1988         -112.2         596.2         444.1         152.1         596.2         554.5         128.5         25.5           1989         -88.3         681.0         503.3         177.7         681.0         591.5         151.5         26.4           1990         -70.1         741.5         552.4         189.1         741.4         630.3         154.3         26.9           1991	1980	11.4	359.9	280.8	79.1	359.9	293.8	44.9	9.8
1983         -32.1         378.9         277.0         101.9         378.8         328.6         64.8         17.5           1984         -86.9         424.2         302.4         121.9         424.3         405.1         85.6         20.5           1985         -110.8         414.5         302.0         112.4         414.5         417.2         85.9         22.2           1986         -139.2         431.9         320.5         111.4         432.0         453.3         93.6         24.3           1987         -150.8         487.1         363.9         123.2         487.1         509.1         105.3         23.5           1988         -112.2         596.2         444.1         152.1         596.2         554.5         128.5         25.5           1989         -88.3         681.0         503.3         177.7         681.0         591.5         151.5         26.4           1990         -70.1         741.5         552.4         189.1         741.4         630.3         154.3         26.9           1991         13.5         765.7         596.8         168.9         765.8         624.3         138.5         -10.6           1992 <td>1981</td> <td>6.3</td> <td>397.3</td> <td>305.2</td> <td>92.0</td> <td>397.2</td> <td>317.8</td> <td>59.1</td> <td>14.1</td>	1981	6.3	397.3	305.2	92.0	397.2	317.8	59.1	14.1
1984         -86.9         424.2         302.4         121.9         424.3         405.1         85.6         20.5           1985         -110.8         414.5         302.0         112.4         414.5         417.2         85.9         22.2           1986         -139.2         431.9         320.5         111.4         432.0         453.3         93.6         24.3           1987         -150.8         487.1         363.9         123.2         487.1         509.1         105.3         23.5           1988         -112.2         596.2         444.1         152.1         596.2         554.5         128.5         25.5           1989         -88.3         681.0         503.3         177.7         681.0         591.5         151.5         26.4           1990         -70.1         741.5         552.4         189.1         741.4         630.3         154.3         26.9           1991         13.5         765.7         596.8         168.9         765.8         624.3         138.5         -10.6           1992         -36.9         788.0         635.3         152.7         788.0         668.6         123.0         33.4           1993 </td <td>1982</td> <td>-0.2</td> <td>384.2</td> <td>283.2</td> <td>101.0</td> <td>384.2</td> <td>303.2</td> <td>64.5</td> <td>16.7</td>	1982	-0.2	384.2	283.2	101.0	384.2	303.2	64.5	16.7
1985         -110.8         414.5         302.0         112.4         414.5         417.2         85.9         22.2           1986         -139.2         431.9         320.5         111.4         432.0         453.3         93.6         24.3           1987         -150.8         487.1         363.9         123.2         487.1         509.1         105.3         23.5           1988         -112.2         596.2         444.1         152.1         596.2         554.5         128.5         25.5           1989         -88.3         681.0         503.3         177.7         681.0         591.5         151.5         26.4           1990         -70.1         741.5         552.4         189.1         741.4         630.3         154.3         26.9           1991         13.5         765.7         596.8         168.9         765.8         624.3         138.5         -10.6           1992         -36.9         788.0         635.3         152.7         788.0         668.6         123.0         33.4           1993         -70.4         812.1         655.8         156.2         812.1         720.9         124.3         37.3           1994<	1983	-32.1	378.9	277.0	101.9	378.8	328.6	64.8	17.5
1986         -139.2         431.9         320.5         111.4         432.0         453.3         93.6         24.3           1987         -150.8         487.1         363.9         123.2         487.1         509.1         105.3         23.5           1988         -112.2         596.2         444.1         152.1         596.2         554.5         128.5         25.5           1989         -88.3         681.0         503.3         177.7         681.0         591.5         151.5         26.4           1990         -70.1         741.5         552.4         189.1         741.4         630.3         154.3         26.9           1991         13.5         765.7         596.8         168.9         765.8         624.3         138.5         -10.6           1992         -36.9         788.0         635.3         152.7         788.0         668.6         123.0         33.4           1993         -70.4         812.1         655.8         156.2         812.1         720.9         124.3         37.3           1994         -105.2         907.3         720.9         186.4         907.3         814.5         160.2         37.8           1995	1984	-86.9	424.2	302.4	121.9	424.3	405.1	85.6	20.5
1987         -150.8         487.1         363.9         123.2         487.1         509.1         105.3         23.5           1988         -112.2         596.2         444.1         152.1         596.2         554.5         128.5         25.5           1989         -88.3         681.0         503.3         177.7         681.0         591.5         151.5         26.4           1990         -70.1         741.5         552.4         189.1         741.4         630.3         154.3         26.9           1991         13.5         765.7         596.8         168.9         765.8         624.3         138.5         -10.6           1992         -36.9         788.0         635.3         152.7         788.0         668.6         123.0         33.4           1993         -70.4         812.1         655.8         156.2         812.1         720.9         124.3         37.3           1994         -105.2         907.3         720.9         186.4         907.3         814.5         160.2         37.8           1995         -91.0         1,046.1         812.2         233.9         1,046.1         903.6         198.1         35.4	1985	-110.8	414.5	302.0	112.4	414.5	417.2	85.9	22.2
1988         -112.2         596.2         444.1         152.1         596.2         554.5         128.5         25.5           1989         -88.3         681.0         503.3         177.7         681.0         591.5         151.5         26.4           1990         -70.1         741.5         552.4         189.1         741.4         630.3         154.3         26.9           1991         13.5         765.7         596.8         168.9         765.8         624.3         138.5         -10.6           1992         -36.9         788.0         635.3         152.7         788.0         668.6         123.0         33.4           1993         -70.4         812.1         655.8         156.2         812.1         720.9         124.3         37.3           1994         -105.2         907.3         720.9         186.4         907.3         814.5         160.2         37.8           1995         -91.0         1,046.1         812.2         233.9         1,046.1         903.6         198.1         35.4           1996         -100.3         1,117.3         868.6         248.7         1,117.3         964.8         213.7         39.1	1986	-139.2	431.9	320.5	111.4	432.0	453.3	93.6	24.3
1989       -88.3       681.0       503.3       177.7       681.0       591.5       151.5       26.4         1990       -70.1       741.5       552.4       189.1       741.4       630.3       154.3       26.9         1991       13.5       765.7       596.8       168.9       765.8       624.3       138.5       -10.6         1992       -36.9       788.0       635.3       152.7       788.0       668.6       123.0       33.4         1993       -70.4       812.1       655.8       156.2       812.1       720.9       124.3       37.3         1994       -105.2       907.3       720.9       186.4       907.3       814.5       160.2       37.8         1995       -91.0       1,046.1       812.2       233.9       1,046.1       903.6       198.1       35.4         1996       -100.3       1,117.3       868.6       248.7       1,117.3       964.8       213.7       39.1         1997       -110.2       1,242.0       955.3       286.7       1,242.0       1,056.9       253.7       41.6         1998       -187.4       1,243.1       955.9       287.1       1,243.1       1,115.9	1987	-150.8	487.1	363.9	123.2	487.1	509.1	105.3	23.5
1990       -70.1       741.5       552.4       189.1       741.4       630.3       154.3       26.9         1991       13.5       765.7       596.8       168.9       765.8       624.3       138.5       -10.6         1992       -36.9       788.0       635.3       152.7       788.0       668.6       123.0       33.4         1993       -70.4       812.1       655.8       156.2       812.1       720.9       124.3       37.3         1994       -105.2       907.3       720.9       186.4       907.3       814.5       160.2       37.8         1995       -91.0       1,046.1       812.2       233.9       1,046.1       903.6       198.1       35.4         1996       -100.3       1,117.3       868.6       248.7       1,117.3       964.8       213.7       39.1         1997       -110.2       1,242.0       955.3       286.7       1,242.0       1,056.9       253.7       41.6         1998       -187.4       1,243.1       955.9       287.1       1,243.1       1,115.9       265.8       48.8         1999       -273.9       1,312.1       991.2       320.8       1,312.0       1,251.7	1988	-112.2	596.2	444.1	152.1	596.2	554.5	128.5	25.5
1991     13.5     765.7     596.8     168.9     765.8     624.3     138.5     -10.6       1992     -36.9     788.0     635.3     152.7     788.0     668.6     123.0     33.4       1993     -70.4     812.1     655.8     156.2     812.1     720.9     124.3     37.3       1994     -105.2     907.3     720.9     186.4     907.3     814.5     160.2     37.8       1995     -91.0     1,046.1     812.2     233.9     1,046.1     903.6     198.1     35.4       1996     -100.3     1,117.3     868.6     248.7     1,117.3     964.8     213.7     39.1       1997     -110.2     1,242.0     955.3     286.7     1,242.0     1,056.9     253.7     41.6       1998     -187.4     1,243.1     955.9     287.1     1,243.1     1,115.9     265.8     48.8       1999     -273.9     1,312.1     991.2     320.8     1,312.0     1,251.7     287.0     47.2       2000     -396.6     1,478.9     1,096.3     382.7     1,479.0     1,475.8     343.7     56.1       2001     -370.4     1,355.2     1,032.8     322.4     1,355.2     1,399.8     278.8 <td>1989</td> <td>-88.3</td> <td>681.0</td> <td>503.3</td> <td>177.7</td> <td>681.0</td> <td>591.5</td> <td>151.5</td> <td>26.4</td>	1989	-88.3	681.0	503.3	177.7	681.0	591.5	151.5	26.4
1992     -36.9     788.0     635.3     152.7     788.0     668.6     123.0     33.4       1993     -70.4     812.1     655.8     156.2     812.1     720.9     124.3     37.3       1994     -105.2     907.3     720.9     186.4     907.3     814.5     160.2     37.8       1995     -91.0     1,046.1     812.2     233.9     1,046.1     903.6     198.1     35.4       1996     -100.3     1,117.3     868.6     248.7     1,117.3     964.8     213.7     39.1       1997     -110.2     1,242.0     955.3     286.7     1,242.0     1,056.9     253.7     41.6       1998     -187.4     1,243.1     955.9     287.1     1,243.1     1,115.9     265.8     48.8       1999     -273.9     1,312.1     991.2     320.8     1,312.0     1,251.7     287.0     47.2       2000     -396.6     1,478.9     1,096.3     382.7     1,479.0     1,475.8     343.7     56.1       2001     -370.4     1,355.2     1,032.8     322.4     1,355.2     1,399.8     278.8     47.0	1990	-70.1	741.5	552.4	189.1	741.4	630.3	154.3	26.9
1993         -70.4         812.1         655.8         156.2         812.1         720.9         124.3         37.3           1994         -105.2         907.3         720.9         186.4         907.3         814.5         160.2         37.8           1995         -91.0         1,046.1         812.2         233.9         1,046.1         903.6         198.1         35.4           1996         -100.3         1,117.3         868.6         248.7         1,117.3         964.8         213.7         39.1           1997         -110.2         1,242.0         955.3         286.7         1,242.0         1,056.9         253.7         41.6           1998         -187.4         1,243.1         955.9         287.1         1,243.1         1,115.9         265.8         48.8           1999         -273.9         1,312.1         991.2         320.8         1,312.0         1,251.7         287.0         47.2           2000         -396.6         1,478.9         1,096.3         382.7         1,479.0         1,475.8         343.7         56.1           2001         -370.4         1,355.2         1,032.8         322.4         1,355.2         1,399.8         278.8 <td< td=""><td>1991</td><td>13.5</td><td>765.7</td><td>596.8</td><td>168.9</td><td>765.8</td><td>624.3</td><td>138.5</td><td>-10.6</td></td<>	1991	13.5	765.7	596.8	168.9	765.8	624.3	138.5	-10.6
1994     -105.2     907.3     720.9     186.4     907.3     814.5     160.2     37.8       1995     -91.0     1,046.1     812.2     233.9     1,046.1     903.6     198.1     35.4       1996     -100.3     1,117.3     868.6     248.7     1,117.3     964.8     213.7     39.1       1997     -110.2     1,242.0     955.3     286.7     1,242.0     1,056.9     253.7     41.6       1998     -187.4     1,243.1     955.9     287.1     1,243.1     1,115.9     265.8     48.8       1999     -273.9     1,312.1     991.2     320.8     1,312.0     1,251.7     287.0     47.2       2000     -396.6     1,478.9     1,096.3     382.7     1,479.0     1,475.8     343.7     56.1       2001     -370.4     1,355.2     1,032.8     322.4     1,355.2     1,399.8     278.8     47.0	1992	-36.9	788.0	635.3	152.7	788.0	668.6	123.0	33.4
1995     -91.0     1,046.1     812.2     233.9     1,046.1     903.6     198.1     35.4       1996     -100.3     1,117.3     868.6     248.7     1,117.3     964.8     213.7     39.1       1997     -110.2     1,242.0     955.3     286.7     1,242.0     1,056.9     253.7     41.6       1998     -187.4     1,243.1     955.9     287.1     1,243.1     1,115.9     265.8     48.8       1999     -273.9     1,312.1     991.2     320.8     1,312.0     1,251.7     287.0     47.2       2000     -396.6     1,478.9     1,096.3     382.7     1,479.0     1,475.8     343.7     56.1       2001     -370.4     1,355.2     1,032.8     322.4     1,355.2     1,399.8     278.8     47.0	1993	-70.4	812.1	655.8	156.2	812.1	720.9	124.3	37.3
1995     -91.0     1,046.1     812.2     233.9     1,046.1     903.6     198.1     35.4       1996     -100.3     1,117.3     868.6     248.7     1,117.3     964.8     213.7     39.1       1997     -110.2     1,242.0     955.3     286.7     1,242.0     1,056.9     253.7     41.6       1998     -187.4     1,243.1     955.9     287.1     1,243.1     1,115.9     265.8     48.8       1999     -273.9     1,312.1     991.2     320.8     1,312.0     1,251.7     287.0     47.2       2000     -396.6     1,478.9     1,096.3     382.7     1,479.0     1,475.8     343.7     56.1       2001     -370.4     1,355.2     1,032.8     322.4     1,355.2     1,399.8     278.8     47.0	1994	-105.2	907.3	720.9	186.4	907.3	814.5	160.2	37.8
1996     -100.3     1,117.3     868.6     248.7     1,117.3     964.8     213.7     39.1       1997     -110.2     1,242.0     955.3     286.7     1,242.0     1,056.9     253.7     41.6       1998     -187.4     1,243.1     955.9     287.1     1,243.1     1,115.9     265.8     48.8       1999     -273.9     1,312.1     991.2     320.8     1,312.0     1,251.7     287.0     47.2       2000     -396.6     1,478.9     1,096.3     382.7     1,479.0     1,475.8     343.7     56.1       2001     -370.4     1,355.2     1,032.8     322.4     1,355.2     1,399.8     278.8     47.0									
1997     -110.2     1,242.0     955.3     286.7     1,242.0     1,056.9     253.7     41.6       1998     -187.4     1,243.1     955.9     287.1     1,243.1     1,115.9     265.8     48.8       1999     -273.9     1,312.1     991.2     320.8     1,312.0     1,251.7     287.0     47.2       2000     -396.6     1,478.9     1,096.3     382.7     1,479.0     1,475.8     343.7     56.1       2001     -370.4     1,355.2     1,032.8     322.4     1,355.2     1,399.8     278.8     47.0									
1998     -187.4     1,243.1     955.9     287.1     1,243.1     1,115.9     265.8     48.8       1999     -273.9     1,312.1     991.2     320.8     1,312.0     1,251.7     287.0     47.2       2000     -396.6     1,478.9     1,096.3     382.7     1,479.0     1,475.8     343.7     56.1       2001     -370.4     1,355.2     1,032.8     322.4     1,355.2     1,399.8     278.8     47.0									
1999     -273.9     1,312.1     991.2     320.8     1,312.0     1,251.7     287.0     47.2       2000     -396.6     1,478.9     1,096.3     382.7     1,479.0     1,475.8     343.7     56.1       2001     -370.4     1,355.2     1,032.8     322.4     1,355.2     1,399.8     278.8     47.0									
2000     -396.6     1,478.9     1,096.3     382.7     1,479.0     1,475.8     343.7     56.1       2001     -370.4     1,355.2     1,032.8     322.4     1,355.2     1,399.8     278.8     47.0						•			
2001 -370.4 1,355.2 1,032.8 322.4 1,355.2 1,399.8 278.8 47.0									

# Table 11: Domestic Capital Account, 2002

Line	Investment	Source	Total
1	+ Private fixed investment, nonresidential structures	NIPA 5.4.5 line 2	271.6
2	+ Private fixed investment, equipment and software	NIPA 5.5.5 line 1	799.9
3	+ Change in private inventories, nonfarm	NIPA 5.6.5 line 19	12.7
4	+ Change in private inventories, farm	NIPA 5.6.5 line 2	-1.5
5	+ Private fixed investment, residential structures	NIPA 5.4.5 line 35	496.6
6	+ Personal consumption expenditures, durable goods	NIPA 1.1.5 line 3	916.2
7	= Gross private domestic investment		2,495.5
8	+ Government investment, structures	NIPA 5.8.5 line 6	222.6
9	+ Government investment, equipment and software	NIPA 5.8.5 line 46	124.9
10	= Gross domestic investment		2,843.0
11	+ Net lending or borrowing on rest of world account	NIPA 4.1 line 30	-458.9
12	+ Capital accounts transaction (net)	NIPA 4.1 line 32	1.3
13	= Gross investment		2,385.4
Line	Saving	Source	Total
Line 1	Saving + Net saving (NIPA)	Source NIPA 5.1 line 26	Total 180.4
	· · · · · · · · · · · · · · · · · · ·		
1	+ Net saving (NIPA)	NIPA 5.1 line 26	180.4
1 2	+ Net saving (NIPA) Personal saving	NIPA 5.1 line 26 NIPA 2.1 line 33	180.4 159.2
1 2 3	+ Net saving (NIPA) Personal saving Undistributed corporate profits with IVA and capital consumption adjustments	NIPA 5.1 line 26 NIPA 2.1 line 33 NIPA 5.1 line 5	180.4 159.2 300.7
1 2 3 4	+ Net saving (NIPA) Personal saving Undistributed corporate profits with IVA and capital consumption adjustments Wage accruals less disbursements (private)	NIPA 5.1 line 26 NIPA 2.1 line 33 NIPA 5.1 line 5 NIPA 5.1 line 9	180.4 159.2 300.7 0.0
1 2 3 4 5	+ Net saving (NIPA) Personal saving Undistributed corporate profits with IVA and capital consumption adjustments Wage accruals less disbursements (private) Net government saving + Consumption of fixed capital = Gross saving (NIPA)	NIPA 5.1 line 26 NIPA 2.1 line 33 NIPA 5.1 line 5 NIPA 5.1 line 9 NIPA 5.1 line 27	180.4 159.2 300.7 0.0 -279.5
1 2 3 4 5 6	+ Net saving (NIPA) Personal saving Undistributed corporate profits with IVA and capital consumption adjustments Wage accruals less disbursements (private) Net government saving + Consumption of fixed capital = Gross saving (NIPA) + Personal consumption expenditures, durable goods	NIPA 5.1 line 26 NIPA 2.1 line 33 NIPA 5.1 line 5 NIPA 5.1 line 9 NIPA 5.1 line 27 NIPA 1.7.5 line 5	180.4 159.2 300.7 0.0 -279.5 1,303.9
1 2 3 4 5 6 7	+ Net saving (NIPA) Personal saving Undistributed corporate profits with IVA and capital consumption adjustments Wage accruals less disbursements (private) Net government saving + Consumption of fixed capital = Gross saving (NIPA)	NIPA 5.1 line 26 NIPA 2.1 line 33 NIPA 5.1 line 5 NIPA 5.1 line 9 NIPA 5.1 line 27 NIPA 1.7.5 line 5 NIPA 5.1 line 1	180.4 159.2 300.7 0.0 -279.5 1,303.9 1,484.3
1 2 3 4 5 6 7 8	+ Net saving (NIPA) Personal saving Undistributed corporate profits with IVA and capital consumption adjustments Wage accruals less disbursements (private) Net government saving + Consumption of fixed capital = Gross saving (NIPA) + Personal consumption expenditures, durable goods	NIPA 5.1 line 26 NIPA 2.1 line 33 NIPA 5.1 line 5 NIPA 5.1 line 9 NIPA 5.1 line 27 NIPA 1.7.5 line 5 NIPA 5.1 line 1	180.4 159.2 300.7 0.0 -279.5 1,303.9 1,484.3 916.2
1 2 3 4 5 6 7 8	+ Net saving (NIPA) Personal saving Undistributed corporate profits with IVA and capital consumption adjustments Wage accruals less disbursements (private) Net government saving + Consumption of fixed capital = Gross saving (NIPA) + Personal consumption expenditures, durable goods = Gross saving	NIPA 5.1 line 26 NIPA 2.1 line 33 NIPA 5.1 line 5 NIPA 5.1 line 9 NIPA 5.1 line 27 NIPA 1.7.5 line 5 NIPA 5.1 line 1 NIPA 1.1.5 line 3	180.4 159.2 300.7 0.0 -279.5 1,303.9 1,484.3 916.2 2,400.5
1 2 3 4 5 6 7 8 9	+ Net saving (NIPA) Personal saving Undistributed corporate profits with IVA and capital consumption adjustments Wage accruals less disbursements (private) Net government saving + Consumption of fixed capital = Gross saving (NIPA) + Personal consumption expenditures, durable goods = Gross saving + Statistical discrepancy	NIPA 5.1 line 26 NIPA 2.1 line 33 NIPA 5.1 line 5 NIPA 5.1 line 9 NIPA 5.1 line 27 NIPA 1.7.5 line 5 NIPA 5.1 line 1 NIPA 1.1.5 line 3	180.4 159.2 300.7 0.0 -279.5 1,303.9 1,484.3 916.2 2,400.5 -15.3
1 2 3 4 5 6 7 8 9 10	+ Net saving (NIPA) Personal saving Undistributed corporate profits with IVA and capital consumption adjustments Wage accruals less disbursements (private) Net government saving + Consumption of fixed capital = Gross saving (NIPA) + Personal consumption expenditures, durable goods = Gross saving + Statistical discrepancy	NIPA 5.1 line 26 NIPA 2.1 line 33 NIPA 5.1 line 5 NIPA 5.1 line 9 NIPA 5.1 line 27 NIPA 1.7.5 line 5 NIPA 5.1 line 1 NIPA 1.1.5 line 3	180.4 159.2 300.7 0.0 -279.5 1,303.9 1,484.3 916.2 2,400.5 -15.3
1 2 3 4 5 6 7 8 9 10	+ Net saving (NIPA) Personal saving Undistributed corporate profits with IVA and capital consumption adjustments Wage accruals less disbursements (private) Net government saving + Consumption of fixed capital = Gross saving (NIPA) + Personal consumption expenditures, durable goods = Gross saving + Statistical discrepancy  - Gross saving and statistical discrepancy - Depreciation	NIPA 5.1 line 26 NIPA 2.1 line 33 NIPA 5.1 line 5 NIPA 5.1 line 9 NIPA 5.1 line 27 NIPA 1.7.5 line 5 NIPA 5.1 line 1 NIPA 1.1.5 line 3	180.4 159.2 300.7 0.0 -279.5 1,303.9 1,484.3 916.2 2,400.5 -15.3 2,385.2 1,934.3

Table 12: Domestic Capital Account, Investment, 1948-2002

(Billions of Current \$)  Government Balance on Current				
Year	Gross Investment	Private Investment	Investment	Balance on Current Account
1948	81.2	71.7	7.1	2.4
1949	73.4	62.7	9.8	0.9
1950	93.8	85.7	9.9	-1.8
1951	109.2	90.8	17.5	0.9
1952	106.8	83.9	22.3	0.6
1953	112.4	89.7	24.0	-1.3
1954	108.5	85.8	22.5	0.2
1955	129.1	107.7	21.0	0.4
1956	135.5	109.7	23.0	2.8
1957	140.2	111.0	24.4	4.8
1958	128.9	101.5	26.5	0.9
1959	149.2	121.1	29.3	-1.2
1960	153.7	122.3	28.2	3.2
1961	155.8	120.0	31.5	4.3
1962	172.1	135.0	33.2	3.9
1963	183.9	145.3	33.6	5.0
1964	200.8	158.7	34.6	7.5
1965	223.1	181.4	35.5	6.2
1966	243.2	199.5	39.8	3.9
1967	245.5	199.0	42.9	3.6
		222.1		
1968	267.3		43.5	1.7
1969	287.5	242.4	43.3	1.8
1970	285.0	237.3	43.7	4.0
1971	317.5	275.1	41.8	0.6
1972	357.0	318.0	42.6	-3.6
1973	424.1	368.0	46.8	9.3
1974	434.6	371.7	56.3	6.6
1975	448.3	363.8	63.1	21.4
1976	526.3	451.0	66.4	8.9
1977	601.1	542.5	67.6	-9.0
1978	706.3	639.7	77.0	-10.4
1979	797.2	707.3	88.5	1.4
1980	805.4	693.7	100.3	11.4
1981	916.7	803.6	106.8	6.3
1982	869.7	757.5	112.4	-0.2
1983	935.8	845.0	122.8	-32.0
1984	1,114.6	1,062.2	139.3	-86.9
1985	1,147.7	1,099.7	158.8	-110.8
1986	1,183.4	1,149.4	173.2	-139.2
1987	1,240.2	1,206.7	184.3	-150.8
1988	1,349.1	1,275.2	186.1	-112.2
1989	1,456.2	1,346.8	197.7	-88.3
1990	1,480.9	1,335.2	215.7	-70.0
1991	1,490.7	1,256.8	220.4	13.5
1992	1,534.5	1,348.4	223.0	-36.9
1993	1,628.7	1,480.1	219.0	-70.4
1994	1,795.5	1,679.4	221.3	-105.2
1995	1,897.3	1,755.6	232.7	-91.0
1996	2,037.4	1,892.8	244.9	-100.3
1997	2,224.2	2,082.4	252.1	-110.3
1998	2,334.4	2,259.4	262.4	-187.4
1998	2,456.2	2,443.2	286.9	-273.9
2000			304.4	
	2,506.5	2,598.7		-396.6 370.4
2001	2,451.7	2,498.1	324.0	-370.4
2002	2,385.3	2,495.5	347.4	-457.6

Table 13: Domestic Capital Account, Change in Wealth, 1948-2002

Year	Gross Saving	Depreciation	Net Saving	Revaluation	Change in Wealth
1948	81.2	36.5	44.7		
1949	73.4	40.5	32.9	4.5	37.4
1950	93.8	44.1	49.7	25.4	75.1
1951	109.2	51.1	58.1	71.7	129.8
1952	106.8	54.9	52.0	13.6	65.6
1953	112.4	58.8	53.6	42.8	96.4
1954	108.5	62.4	46.1	8.8	54.8
1955	129.1	65.9	63.2	31.5	94.7
1956	135.5	72.7	62.8	101.1	164.0
1957	140.2	78.7	61.5	79.0	140.6
1958	128.9	81.8	47.1	32.1	79.2
1959	149.2	86.2	63.0	45.0	108.0
1960	153.7	89.4	64.3	54.9	119.3
1961	155.8	92.1	63.7	59.8	123.5
1962	172.1	95.4	76.7	68.3	145.0
1963	183.9	99.7	84.2	34.6	118.8
			95.9	-9.4	86.5
1964	200.8	104.9			
1965	223.1	110.9	112.2	38.7	150.9
1966	243.2	118.9	124.3	78.4	202.8
1967	245.5	129.8	115.7	60.4	176.1
1968	267.3	142.6	124.7	191.2	315.9
1969	287.5	156.9	130.6	239.4	370.0
1970	285.0	172.5	112.5	158.1	270.5
1971	317.5	187.3	130.2	196.1	326.3
1972	357.0	205.3	151.7	259.8	411.4
1973	424.1	222.8	201.3	361.6	562.8
1974	434.6	255.8	178.8	606.4	785.3
1975	448.3	294.2	154.1	546.6	700.7
1976	526.3	320.2	206.1	326.5	532.5
1977	601.1	353.9	247.2	624.1	871.3
1978	706.3	398.5	307.8	860.5	1,168.3
1979	797.2	455.0	342.2	1,073.8	1,416.0
1980	805.4	522.1	283.3	1,069.9	1,353.2
1981	916.7	585.1	331.6	842.5	1,174.0
1982	869.7	635.9	233.8	527.6	761.4
1983	935.8	660.5	275.3	361.8	637.1
1984	1,114.6	694.4	420.2	333.9	754.2
1985	1,147.7	744.0	403.8	568.6	972.3
1986	1,183.4	803.6	379.8	917.9	1,297.7
1987	1,240.2	867.7	372.5	1,102.7	1,475.2
1988	1,349.1	929.9	419.2	1,193.6	1,612.9
1989	1,456.2	995.9	460.3	1,056.1	1,516.4
1989				744.5	
	1,480.9	1,057.7	423.2		1,167.7
1991	1,490.7	1,112.4	378.3	352.2	730.5
1992	1,534.5	1,141.3	393.2	311.6	704.8
1993	1,628.7	1,190.5	438.2	990.0	1,428.2
1994	1,795.5	1,257.3	538.2	793.8	1,332.1
1995	1,897.3	1,334.1	563.2	781.1	1,344.3
1996	2,037.4	1,396.0	641.4	801.9	1,443.3
1997	2,224.2	1,459.3	764.9	468.6	1,233.5
1998	2,334.4	1,528.5	805.9	626.0	1,431.9
1999	2,456.2	1,621.4	834.8	1,320.6	2,155.4
2000	2,506.5	1,743.7	762.8	1,654.1	2,416.9
2001	2,451.7	1,860.4	591.3	1,560.4	2,151.7
2002	2,385.3	1,934.3	451.0	2,123.2	2,574.1

# Table 14: Foreign Transactions Capital Account, 2002

Line	Balance on Current Account	Source	Total
1	Balance on current account	NIPA 4.1 line 29	-457.7
Line	Capital Account Transactions and Net Lending	Source	Total
1	Capital account transactions (net)	NIPA 4.1 line 32	1.3
2	Net lending or borrowing	NIPA 4.1 line 30	-458.9
3	= Current account transactions and net lending		-457.6

Table 15: Foreign Transactions Capital Account, 1948-2002

(Billions of Current \$)

(Dillions of	, Синеш ф)	Capital Account	
Year	Balance on Current Account	Transactions (net)	Net lending or borrowing
1948	2.4		2.4
1949	0.9		0.9
1950	-1.8		-1.8
1951	0.9		0.9
1952	0.6	••••	0.6
1953	-1.3	••••	-1.3
1954	0.2	••••	0.2
1955	0.4		0.4
1956	2.8		2.8
1957	4.8		4.8
1958	0.9		0.9
1959	-1.2		-1.2
1960	3.2		3.2
1961	4.3	••••	4.3
1962	3.9	••••	3.9
1963	5.0	••••	5.0
1964	7.5	••••	7.5
1965	6.2		6.2
1966	3.9		3.9
1967	3.6		3.6
1968	1.7	••••	1.7
1969	1.8	••••	1.8
1970	4.0		4.0
1971	0.6		0.6
1972	-3.6	••••	-3.6
1973	9.3	•••••	9.3
1974	6.6	•••••	6.6
1975	21.4	•••••	21.4
1976	8.9	•••••	8.9
1977	-9.0	•••••	-9.0
1978	-10.4	•••••	-10.4
1979	1.4	•••••	1.4
1980	11.4	•••••	11.4
1981	6.3	••••	6.3
1982	-0.2	-0.2	0.0
1982	-32.1		
1984	-32.1 -86.9	-0.2 -0.2	-31.8 -86.7
1985		-0.2	
1985	-110.8 -139.2	-0.3	-110.5 -138.9
1987	-150.8	-0.3	-150.4
			-111.7
1988 1989	-112.2 -88.3	-0.5	
1989		-0.3	-88.0
	-70.1	6.6	-76.6
1991	13.5	4.5	9.0
1992	-36.9	0.6	-37.5
1993	-70.4	1.3	-71.7
1994	-105.2	1.7	-106.9
1995	-91.0	0.9	-91.9
1996	-100.3	0.7	-101.0
1997	-110.2	1.0	-111.3
1998	-187.4	0.7	-188.1
1999	-273.9	4.8	-278.7
2000	-396.6	0.8	-397.4
2001	-370.4	1.1	-371.5
2002	-457.7	1.3	-458.9

# Table 16: Wealth Account, 2002

Line	Wealth	Source	Total
1	+ Private domestic tangible assets	our imputation	38,111.6
2	+ Government tangible assets	our imputation	9,331.4
3	= Domestic tangible assets		47,443.0
4	+ Net international investment position of the United States		-2,553.4
5	= Wealth		44,889.6

Table 17: Wealth Account, 1948-2002

(Billions of Current \$)				
		Private domestic tangible		Net international investment
Year	Wealth	assets	Government tangible assets	position of the United States
1948	770.6	492.0	265.7	12.9
1949	799.8	526.9	259.1	13.8
1950	875.6	605.5	257.0	13.1
1951	1,008.0	698.5	295.5	14.0
1952	1,079.6	747.3	318.0	14.2
1953	1,175.6	816.3	343.9	15.4
1954	1,234.5	859.9	359.8	14.8
1955	1,328.3	934.5	379.1	14.7
1956	1,483.1	1,043.2	422.6	17.3
1957	1,619.5	1,141.1	456.4	22.0
1958	1,697.6	1,199.0	475.2	23.3
1959	1,799.3	1,280.2	496.4	22.7
1960	1,902.0	1,365.4	509.9	26.7
1961	2,008.6	1,446.6	533.8	28.1
1962	2,144.7	1,547.5	563.2	34.1
1963	2,266.2	1,632.2	597.2	36.8
1964	2,363.7	1,694.8	626.6	42.2
1965	2,512.4	1,807.2	657.8	47.4
1966	2,714.1	1,961.2	701.5	51.4
1967	2,900.6	2,098.9	751.5	50.2
1968	3,194.2	2,340.4	806.0	47.8
1969	3,547.4	2,614.4	885.4	47.7
1970	3,836.9	2,816.6	980.9	39.3
1971	4,152.6	3,062.1	1,064.5	26.0
1972	4,687.3	3,477.1	1,188.8	21.4
1973	5,299.0	3,944.9	1,304.7	49.3
1974	5,784.9	4,168.6	1,542.5	73.7
1975	6,626.8	4,816.6	1,721.0	89.2
1976	7,202.4	5,295.1	1,829.0	78.2
1977	8,138.9	5,999.0	1,986.0	153.8
1978	9,356.8	6,965.8	2,179.0	212.0
1979	10,898.7	8,110.1	2,455.3	333.3
1980	12,428.1	9,220.9	2,828.6	378.6
1981	14,106.3	10,582.0	3,224.2	300.1
1982	15,009.3	11,349.4	3,424.0	235.9
1983	15,628.4	11,841.8	3,529.2	257.4
1984	17,081.0	13,278.8	3,668.2	134.1
1985	18,650.4	14,799.9	3,753.6	96.9
1986	19,987.4	15,884.1	4,002.5	100.8
1987	21,339.8	17,007.2	4,282.1	50.5
1988 1989	23,005.1 24,721.6	18,427.1 19,883.7	4,567.6	10.5 -47.0
1989		20,351.1	4,884.9 5,007.9	-164.5
1990	25,194.5 25,919.0	20,993.3		-260.8
1992	26,170.7	21,336.5	5,186.5 5,286.5	-452.3
1992	27,067.8	21,811.2	5,400.8	-144.3
1994	27,581.6	22,210.7	5,506.2	-135.3
1994	29,373.4	23,803.1	5,876.1	-305.8
1996	30,426.3	24,677.9	6,108.5	-360.0
1990	31,726.5	26,110.0	6,439.3	-822.7
1997	33,951.7	28,159.2	6,867.8	-1,075.4
1999	36,550.3	30,224.8	7,372.2	-1,046.7
2000	39,504.6	33,046.6	8,046.6	-1,588.6
2001	41,629.9	35,371.8	8,566.2	-2,308.2
2001	44,889.6	38,111.6	9,331.4	-2,553.4
2002	,00 <i>7.</i> 0	50,111.0	7,551.7	2,333.7

# Table 18: U.S. International Position, 2002

Line	Wealth	Source	Total
1	+ U.S. owned assets abroad		6,613.3
2	- Foreign-owned assets in the United States		9,166.7
3	= Net international investment position of the United States		-2,553.4

Table 19: U.S. International Position, 1948-2002

(Billions of Current \$)

Year	U.S. owned assets abroad	Foreign-owned assets in the United States	Net international investment position of the United States
1948	29.4	16.5	12.9
1949	30.7	16.9	13.8
1950	32.8	19.7	13.1
1951	34.8	20.9	14.0
1952	37.2	23.0	14.2
1953	39.5	24.1	15.4
1954	42.2	27.4	14.8
1955	45.0	30.4	14.7
1956	49.8	32.5	17.3
1957	54.3	32.4	22.0
1958	59.4	36.1	23.3
1959	64.8	42.1	22.7
1960	71.4	44.7	26.7
1961	75.0	46.9	28.1
1962	80.3	46.3	34.1
1963	88.3	51.5	36.8
1964	99.1	56.9	42.2
1965	106.2	58.7	47.4
1966	111.8	60.4	51.4
1967	119.9	69.7	50.2
1968	131.1	83.2	47.8
1969	138.5	90.8	47.7
1970	136.7	97.4	39.3
1971	151.9	125.9	26.0
1972	181.0	159.6	21.4
1973	232.0	182.7	49.3
1974	276.9	203.2	73.7
1975	321.3	232.1	89.2
1976	343.4	265.2	78.2
1977	488.4	334.6	153.8
1978	645.9	434.0	212.0
1979	844.8	511.5	333.3
1980	1,003.8	625.2	378.6
1981	944.7	644.6	300.1
1982	961.0	725.1	235.9
1983	1,129.7	872.3	257.4
1984	1,127.1	993.0	134.1
1985	1,302.7	1,205.8	96.9
1986	1,594.7	1,493.9	100.8
1987	1,758.7	1,708.2	50.5
1988	2,008.4	1,997.9	10.5
1989	2,350.2	2,397.2	-47.0
1990	2,330.2	2,458.6	-164.5
1991	2,470.6	2,731.4	-260.8
1992	2,466.5	2,731.4	-452.3
1992	3,091.4	3,235.7	-432.3 -144.3
1993			
	3,315.1	3,450.4 4 270.4	-135.3 305.8
1995	3,964.6 4,650.8	4,270.4	-305.8 360.0
1996	4,650.8	5,010.9	-360.0 822.7
1997	5,379.1	6,201.9	-822.7 1.075.4
1998	6,174.5	7,249.9	-1,075.4
1999	7,390.4	8,437.1	-1,046.7
2000	7,393.6	8,982.2	-1,588.6
2001	6,898.7	9,206.9	-2,308.2
2002	6,613.3	9,166.7	-2,553.4

Table 20: Domestic Income and Product Account, Product, 1948-2002

(Constant prices	Gross Domestic Pr		Investment C	Goods Product	Consumption	Goods Product
Year	Price	Quantity	Price	Quantity	Price	Quantity
1948	0.178	1,634.2	0.256	307.4	0.159	1,332.9
1949	0.171	1,674.2	0.254	284.6	0.151	1,415.3
1950	0.175	1,825.2	0.255	362.1	0.156	1,456.8
1951	0.185	1,980.1	0.282	376.5	0.162	1,608.1
1952	0.186	2,080.0	0.284	365.1	0.163	1,742.5
1953	0.188	2,181.3	0.283	390.8	0.165	1,813.6
1954	0.191	2,176.0	0.284	377.8	0.168	1,829.7
1955	0.193	2,319.8	0.287	441.7	0.170	1,884.8
1956	0.201	2,372.3	0.304	433.6	0.176	1,958.5
1957	0.203	2,427.1	0.314	428.8	0.177	2,029.9
1958	0.212	2,421.9	0.319	397.5	0.186	2,078.6
1959	0.211	2,572.0	0.318	456.5	0.185	2,148.3
1960	0.219	2,633.0	0.321	462.4	0.194	2,207.6
1961	0.218	2,700.9	0.322	466.4	0.193	2,277.6
1962	0.220	2,847.7	0.323	513.4	0.195	2,365.4
1963	0.223	2,956.9	0.324	543.3	0.198	2,439.4
1964	0.229	3,121.1	0.326	584.7	0.204	2,556.5
1965	0.236	3,303.1	0.331	643.7	0.213	2,666.5
1966	0.245	3,530.3	0.336	699.2	0.222	2,832.7
1967	0.248	3,626.7	0.342	691.6	0.225	2,950.5
1968	0.259	3,791.1	0.356	721.5	0.235	3,086.4
1969	0.272	3,909.9	0.372	744.1	0.247	3,183.2
1970	0.279	3,927.2	0.389	701.8	0.252	3,266.7
1971	0.295	4,057.0	0.405	749.1	0.268	3,337.8
1972	0.316	4,268.4	0.419	820.3	0.291	3,464.2
1973	0.338	4,511.6	0.436	912.8	0.313	3,596.9
1974	0.367	4,496.2	0.477	871.7	0.340	3,637.7
1975	0.398	4,495.4	0.537	795.8	0.364	3,745.9
1976	0.425	4,740.1	0.563	903.6	0.390	3,855.7
1977	0.455	4,974.6	0.594	994.2	0.421	3,981.0
1978	0.488	5,242.4	0.633	1,086.2	0.452	4,141.1
1979	0.519	5,401.8	0.691	1,120.9	0.476	4,264.6
1980	0.557	5,382.5	0.756	1,038.6	0.508	4,364.5
1981	0.607	5,500.1	0.825	1,073.0	0.552	4,442.4
1982	0.644	5,416.4	0.870	962.2	0.587	4,515.6
1983	0.681	5,649.0	0.869	1,040.9	0.632	4,656.2
1984	0.711	6,057.5	0.878	1,245.1	0.667	4,819.3
1985	0.722	6,337.2	0.888	1,284.3	0.678	5,065.8
1986	0.729	6,600.0	0.888	1,324.8	0.687	5,292.5
1987	0.746	6,845.6	0.901	1,378.2	0.705	5,484.2
1988	0.780	7,115.3	0.916	1,442.4	0.743	5,687.8
1989	0.806	7,365.1	0.940	1,504.3	0.770	5,873.7
1990	0.831	7,518.0	0.958	1,500.0	0.796	6,038.7
1991	0.857	7,502.9	0.972	1,417.4	0.825	6,121.4
1992	0.878	7,736.1	0.971	1,498.5	0.851	6,268.8
1993	0.892	7,943.7	0.982	1,581.3	0.866	6,388.5
1994	0.910	8,245.4	0.992	1,719.2	0.886	6,543.5
1995	0.928	8,471.2	1.001	1,780.3	0.906	6,707.0
1996	0.947	8,806.8	1.005	1,923.7	0.929	6,893.1
1997	0.966	9,220.6	1.004	2,124.6	0.954	7,099.0
1998	0.971	9,645.6	0.995	2,277.8	0.963	7,368.7
1999	0.983	10,111.7	0.993	2,425.4	0.980	7,686.4
2000	1.000	10,525.6	1.000	2,528.8	1.000	7,996.8
2001	1.027	10,670.5	1.010	2,452.7	1.032	8,216.7
2002	1.034	10,927.1	1.006	2,423.8	1.043	8,499.6

Table 21: Domestic Income and Product Account, Labor Income, 1948-2002

Vaar –	D.:	Labor I		0 15	F 1	Weekly	Hourly	Hours
Year	Price	Quantity	Value	Quality	Employment	Hours	Compensation	Worked
1948	0.077	2,246.1	173.2	0.734	61,536	38.9	1.4	124,616
1949	0.079	2,184.5	173.6	0.734	60,437	38.6	1.4	121,201
1950	0.082	2,277.2	187.0	0.746	62,424	38.3	1.5	124,336
1951	0.087	2,462.7	213.6	0.761	66,169	38.3	1.6	131,846
1952	0.090	2,534.9	228.7	0.775	67,407	38.0	1.7	133,284
1953	0.094	2,597.5	244.4	0.788	68,471	37.7	1.8	134,352
1954	0.096	2,536.8	244.5	0.794	66,843	37.4	1.9	130,070
1955	0.100	2,613.8	262.7	0.797	68,367	37.6	2.0	133,520
1956	0.106	2,677.8	283.6	0.803	69,968	37.3	2.1	135,779
1957	0.111	2,684.3	297.5	0.811	70,262	36.9	2.2	134,783
1958	0.114	2,618.6	299.3	0.817	68,578	36.6	2.3	130,526
1959	0.119	2,709.3	323.5	0.822	70,149	36.8	2.4	134,240
1960	0.124	2,748.1	339.5	0.827	71,128	36.6	2.5	135,346
1961	0.125	2,788.2	348.7	0.842	71,183	36.4	2.6	134,905
1962	0.128	2,893.7	371.3	0.855	72,673	36.5	2.7	137,903
1963	0.133	2,930.9	388.9	0.859	73,413	36.4	2.8	139,032
1964	0.138	3,008.3	416.2	0.865	74,990	36.3	2.9	141,729
1965	0.144	3,105.4	446.6	0.865	77,239	36.4	3.1	146,304
1966	0.151	3,239.6	490.3	0.869	80,802	36.2	3.2	151,932
1967	0.159	3,290.3	522.6	0.875	82,645	35.7	3.4	153,260
1968	0.170	3,375.8	575.2	0.880	84,733	35.4	3.7	156,187
1969	0.183	3,463.6	632.1	0.881	87,071	35.4	3.9	160,067
1970	0.198	3,407.3	673.1	0.883	86,867	34.8	4.3	157,112
1971	0.211	3,408.2	719.0	0.887	86,715	34.7	4.6	156,454
1972	0.226	3,499.8	789.3	0.888	88,838	34.7	4.9	160,480
1973	0.242	3,640.8	880.9	0.889	92,542	34.7	5.3	166,760
1974	0.265	3,643.4	966.1	0.889	94,121	34.1	5.8	166,881
1975	0.287	3,586.8	1,029.5	0.899	92,575	33.8	6.3	162,482
1976	0.311	3,689.2	1,147.5	0.901	94,922	33.8	6.9	166,754
1977	0.335	3,814.1	1,279.4	0.901	98,202	33.8	7.4	172,399
1978	0.363	3,985.8	1,448.6	0.900	102,931	33.7	8.0	180,360
1979	0.395	4,120.2	1,628.4	0.901	106,463	33.6	8.7	186,235
1980	0.437	4,104.6	1,792.6	0.904	107,061	33.2	9.7	184,922
1981	0.478	4,145.3	1,980.5	0.910	108,050	33.0	10.7	185,539
1982	0.509	4,105.2	2,090.2	0.918	106,749	32.8	11.5	182,161
1983	0.532	4,168.7	2,219.2	0.919	107,810	33.0	12.0	184,781
1984	0.555	4,413.4	2,447.9	0.928	112,604	33.1	12.6	193,754
1985	0.580	4,531.0	2,626.0	0.932	115,201	33.1	13.3	198,072
1986	0.608	4,578.9	2,785.0	0.932	117,158	32.9	13.9	200,164
1987	0.628	4,743.4	2,978.8	0.938	120,456	32.9	14.5	206,046
1988	0.657	4,889.3	3,214.1	0.942	123,916	32.8	15.2	211,493
1989	0.674	5,047.1	3,402.5	0.947	126,743	33.0	15.7	217,179
1990	0.705	5,121.8	3,610.4	0.956	128,290	32.7	16.5	218,341
1991	0.737	5,069.2	3,733.9	0.964	127,022	32.4	17.4	214,106
1992	0.774	5,076.2	3,931.5	0.965	127,100	32.4	18.4	214,183
1993	0.787	5,236.2	4,118.3	0.974	129,556	32.5	18.8	218,916
1994	0.803	5,393.0	4,332.5	0.977	132,459	32.6	19.3	224,790
1995	0.819	5,539.7	4,535.5	0.982	135,297	32.7	19.7	229,741
1996	0.841	5,644.8	4,749.1	0.988	137,571	32.5	20.4	232,695
1997	0.867	5,804.6	5,035.2	0.989	140,432	32.7	21.1	239,043
1998	0.907	5,964.9	5,409.0	0.993	143,557	32.8	22.1	244,667
1999	0.944	6,105.2	5,763.1	0.996	146,468	32.8	23.1	249,676
2000	1.000	6,204.4	6,204.4	1.000	149,364	32.5	24.5	252,730
2001	1.032	6,168.4	6,367.8	1.005	149,166	32.2	25.5	250,029
2002	1.065	6,098.7	6,493.5	1.005	147,885	32.1	26.3	247,080

## Table 22: Benchmarks, Depreciation Rates, and Deflators

		2002 Benchmark		
Line	Asset Class	(billions of 2000 dollars)	Depreciation Rate	Deflator
1	Consumer Durables	3,846.0	0.201	NIPA
2	Nonresidential Structures	11,482.5	0.024	NIPA
3	Residential Structures	10,639.4	0.016	NIPA
4	Equipment and Software	5,561.2	0.144	NIPA
5	Nonfarm inventories	1,573.3	-	NIPA
6	Farm inventories	124.7	-	NIPA
				Implicit price of
				household land, Flow
7	Land	10,193.5	-	of Funds

Table 23: Relative Proportions of Capital Stock by Asset Class and Sector, 2002

		Sector						
Line	Asset Class	Corporate	Noncorporate	Households	Government	Total		
1	Consumer durables	-	-	0.078	-	0.078		
2	Nonresidential structures	0.102	0.027	0.017	0.112	0.258		
3	Equipment and software	0.085	0.012	0.003	0.016	0.115		
4	Residential structures	0.002	0.041	0.193	0.005	0.241		
5	Nonfarm inventories	0.027	0.002	-	0.005	0.033		
6	Farm inventories	-	0.003	-	-	0.003		
7	Land	0.050	0.071	0.090	0.060	0.272		
	Total	0.266	0.155	0.382	0.197	1.000		

Table 24: Domestic Income and Product Account, Capital Income, 1948-2002

(Constant p	stant prices of 2000)		-						_		Conital Income
V		l Income		te Income		orate Income		old Income		ent Income	Capital Income
Year	Price	Quantity	Price	Quantity	Price	Quantity	Price	Quantity	Price	Quantity	Relative Share
1948	0.268	436.8	0.333	131.6	0.171	124.5	0.325	110.9	0.175	89.7	0.402
1949	0.235	472.8	0.309	139.8	0.147	131.7	0.256	131.4	0.175	86.3	0.389
1950	0.260	506.7	0.345	147.7	0.166	139.1	0.262	151.2	0.219	83.8	0.413
1951	0.278	547.3	0.364	159.2	0.215	146.8	0.279	171.3	0.175	83.5	0.415
1952	0.272	581.8	0.337	169.6	0.211	152.2	0.279	186.6	0.195	85.9	0.408
1953	0.270	611.6	0.333	177.6	0.200	156.6	0.256	200.0	0.262	89.7	0.403
1954	0.268	639.2	0.321	184.7	0.188	160.5	0.272	212.9	0.258	93.3	0.412
1955	0.277	670.0	0.368	193.2	0.185	164.7	0.275	227.7	0.221	95.9	0.414
1956	0.274	704.1	0.357	203.4	0.161	168.6	0.292	243.9	0.221	97.8	0.405
1957	0.266	733.7	0.352	212.9	0.180	171.7	0.262	257.5	0.223	99.3	0.396
1958	0.282	756.9	0.327	219.2	0.201	175.7	0.283	268.5	0.306	101.1	0.417
1959	0.280	781.0	0.371	225.4	0.184	179.9	0.256	279.3	0.293	104.1	0.403
1960	0.293	809.4	0.357	233.7	0.173	184.1	0.296	291.3	0.331	107.4	0.411
1961	0.287	834.5	0.358	241.4	0.188	187.8	0.293	300.9	0.270	110.9	0.407
1962	0.296	863.2	0.383	250.7	0.200	192.8	0.292	310.8	0.260	114.9	0.407
1963	0.299	899.7	0.394	262.7	0.202	199.8	0.293	323.9	0.256	118.5	0.409
1964	0.316	939.5	0.410	276.0	0.216	206.5	0.303	339.5	0.299	121.7	0.416
1965	0.338	985.4	0.436	292.3	0.234	213.2	0.326	357.8	0.313	124.4	0.427
1966	0.359	1,043.2	0.440	314.0	0.275	222.1	0.350	379.7	0.330	127.5	0.433
1967	0.343	1,102.1	0.423	335.2	0.272	232.8	0.327	401.0	0.319	131.8	0.420
1968	0.350	1,158.2	0.432	354.3	0.274	242.5	0.335	423.0	0.327	136.0	0.414
1969	0.354	1,216.6	0.425	375.3	0.270	251.4	0.365	446.7	0.293	138.7	0.406
1970	0.334	1,267.6	0.396	394.3	0.291	260.5	0.347	465.7	0.210	140.4	0.386
1971	0.364	1,315.7	0.427	411.3	0.321	270.2	0.381	484.4	0.226	140.6	0.400
1972	0.404	1,389.3	0.448	436.0	0.339	288.6	0.411	513.0	0.404	140.5	0.415
1973	0.436	1,480.2	0.457	468.5	0.377	311.5	0.429	548.9	0.552	140.9	0.423
1974	0.456	1,505.6	0.469	478.3	0.392	308.2	0.432	566.9	0.679	141.2	0.415
1975	0.500	1,520.4	0.552	485.4	0.454	302.5	0.431	577.2	0.739	143.2	0.425
1976	0.545	1,586.5	0.588	512.0	0.498	313.7	0.460	602.1	0.894	146.9	0.430
1977	0.595	1,656.4	0.643	539.8	0.517	322.1	0.527	634.5	0.925	149.7	0.435
1978	0.636	1,743.1	0.682	576.1	0.560	335.5	0.563	670.5	0.989	152.4	0.434
1979	0.639	1,839.9	0.681	617.8	0.623	355.5	0.576	703.6	0.822	155.2	0.419
1980	0.627	1,925.6	0.676	659.1	0.582	372.4	0.601	726.5	0.686	158.6	0.403
1981	0.671	2,025.0	0.749	708.2	0.576	397.8	0.638	745.7	0.753	162.5	0.407
1982	0.662	2,112.7	0.734	752.0	0.480	419.6	0.662	763.3	0.847	166.4	0.401
1983	0.748	2,174.7	0.787	780.7	0.606	426.7	0.672	783.5	1.328	170.5	0.423
1984	0.812	2,292.5	0.856	827.9	0.636	452.3	0.721	826.8	1.529	175.5	0.432
1985	0.792	2,461.6	0.837	891.0	0.644	496.6	0.723	887.9	1.325	182.2	0.426
1986	0.780	2,602.4	0.806	937.2	0.694	523.5	0.748	947.2	1.057	191.6	0.422
1987	0.786	2,705.5	0.839	968.1	0.666	531.6	0.751	998.4	1.038	202.4	0.417
1988	0.831	2,806.5	0.893	999.2	0.647	541.5	0.792	1,047.6	1.230	211.5	0.421
1989	0.870	2,915.6	0.904	1,037.5	0.803	555.7	0.810	1,096.1	1.210	219.1	0.427
1990	0.881	2,992.3	0.902	1,067.4	0.867	558.2	0.827	1,131.2	1.113	227.1	0.422
1991	0.885	3,043.4	0.906	1,089.9	0.850	555.3	0.825	1,153.0	1.206	235.1	0.419
1992	0.922	3,099.5	0.917	1,116.2	0.977	554.2	0.838	1,175.5	1.272	242.3	0.421
1993	0.942	3,151.5	0.939	1,148.1	1.071	544.2	0.900	1,201.3	0.908	248.5	0.419
1994	0.990	3,200.4	1.002	1,184.7	1.148	527.8	0.917	1,229.3	0.977	253.3	0.422
1995	1.007	3,301.8	1.041	1,241.0	1.114	526.5	0.965	1,273.3	0.841	257.4	0.423
1996	1.044	3,441.4	1.077	1,312.8	1.174	533.5	0.961	1,330.2	1.042	261.9	0.431
1997	1.076	3,597.7	1.110	1,394.9	1.192	538.9	0.994	1,396.6	1.104	266.1	0.435
1998	1.036	3,817.9	1.062	1,502.5	1.091	560.1	0.991	1,484.0	1.029	270.7	0.422
1999	1.028	4,067.9	1.034	1,620.1	1.089	584.1	1.004	1,586.3	0.994	277.2	0.420
2000	1.000	4,321.6	1.000	1,738.7	1.000	606.3	1.000	1,692.5	1.000	284.2	0.411
2001	1.012	4,537.1	0.946	1,836.6	1.132	620.9	1.013	1,790.4	1.157	291.0	0.419
2001	1.021	4,709.2	0.965	1,894.1	1.132	632.6	0.994	1,887.7	1.141	298.5	0.425
2002	1.021	7,107.2	0.703	1,074.1	1.211	0.52.0	U.J.7+	1,007.7	1.1+1	270.3	0.723

Table 25: Domestic Income and Product Account, Productivity, 1948-2002

		estic Product		mestic Income	Multifactor	
'ear	Price	Quantity	Price	Quantity	Productivity	
1948	0.178	1,634.2	0.129	2,258.7	0.725	
1949	0.171	1,674.2	0.125	2,292.6	0.732	
1950	0.175	1,825.2	0.132	2,416.6	0.757	
1951	0.185	1,980.1	0.140	2,609.2	0.760	
1952	0.186	2,080.0	0.142	2,719.7	0.766	
1953	0.188	2,181.3	0.146	2,814.3	0.775	
1954	0.191	2,176.0	0.147	2,822.6	0.770	
1955	0.193	2,319.8	0.153	2,930.1	0.792	
1956	0.201	2,372.3	0.157	3,030.8	0.782	
1957	0.203	2,427.1	0.160	3,093.0	0.786	
1958	0.212	2,421.9	0.166	3,080.9	0.786	
1959	0.212	2,572.0	0.170	3,185.9	0.807	
1960	0.211	2,633.0	0.170	3,261.0	0.808	
1961	0.218	2,700.9	0.177	3,330.9	0.811	
1962	0.220	2,847.7	0.182	3,450.0	0.825	
1963	0.223	2,956.9	0.186	3,537.3	0.836	
1964	0.229	3,121.1	0.195	3,656.0	0.854	
1965	0.236	3,303.1	0.205	3,799.1	0.870	
1966	0.245	3,530.3	0.217	3,988.1	0.885	
1967	0.248	3,626.7	0.219	4,118.5	0.881	
1968	0.259	3,791.1	0.230	4,268.6	0.888	
1969	0.272	3,909.9	0.240	4,421.1	0.884	
1970	0.279	3,927.2	0.246	4,451.3	0.883	
1971	0.295	4,057.0	0.265	4,516.8	0.898	
1972	0.316	4,268.4	0.288	4,691.2	0.910	
1973	0.338	4,511.6	0.310	4,928.6	0.915	
1974	0.367	4,496.2	0.333	4,966.5	0.905	
1975	0.398	4,495.4	0.362	4,941.8	0.910	
1976	0.425	4,740.1	0.394	5,114.1	0.927	
1977	0.455	4,974.6	0.427	5,309.2	0.937	
1978	0.488	5,242.4	0.460	5,566.0	0.942	
1979	0.519	5,401.8	0.483	5,804.3	0.931	
1980	0.557	5,382.5	0.508	5,901.6	0.912	
1981	0.607	5,500.1	0.551	6,057.4	0.908	
1982	0.644	5,416.4	0.570	6,127.4	0.884	
1983	0.681	5,649.0	0.615	6,256.5	0.903	
1984	0.711	6,057.5	0.652	6,611.8	0.916	
1985	0.722	6,337.2	0.661	6,920.1	0.916	
1986	0.729	6,600.0	0.676	7,127.4	0.926	
1987	0.746	6,845.6	0.690	7,395.5	0.926	
1988	0.780	7,115.3	0.726	7,643.1	0.931	
1989	0.806	7,365.1	0.751	7,910.7	0.931	
1990	0.831	7,518.0	0.774	8,066.3	0.932	
1991	0.857	7,518.0	0.796	8,076.2	0.929	
1992	0.837	7,736.1	0.730	8,144.7	0.950	
1992	0.878	7,730.1	0.849	8,350.5	0.950	
1993	0.892	7,943.7 8,245.4	0.849	8,550.0	0.964	
1994					0.963	
	0.928	8,471.2	0.893	8,798.4		
1996	0.947	8,806.8	0.921	9,052.0	0.973	
1997	0.966	9,220.6	0.950	9,375.2	0.984	
1998	0.971	9,645.6	0.959	9,768.3	0.988	
1999	0.983	10,111.7	0.978	10,168.3	0.994	
2000	1.000	10,525.6	1.000	10,525.6	1.000	
2001	1.027	10,670.5	1.024	10,704.1	0.997	
2002	1.034	10,927.1	1.046	10,802.6	1.012	

Table 26: Income and Expenditures Account, Expenditure, 1948-2002

(Constant p	rices of 2000,	)								
			Personal (	Consumption	Government	Consumption			Effective Tax Rate on	
		penditures		enditures		ditures		Saving	Consumption	
Year	Price	Quantity	Price	Quantity	Price	Quantity	Price	Quantity	Expenditures	
1948	0.161	1,634.4	0.176	1,014.7	0.098	401.8	0.268	166.5	0.046	
1949	0.155	1,631.9	0.166	1,062.6	0.101	431.0	0.266	123.7	0.048	
1950	0.159	1,806.8	0.169	1,123.7	0.110	429.5	0.263	189.1	0.046	
1951	0.168	1,953.8	0.180	1,182.3	0.106	534.8	0.294	197.7	0.043	
1952	0.171	2,033.3	0.183	1,239.4	0.109	624.3	0.296	175.6	0.046	
1953	0.173	2,129.7	0.182	1,290.5	0.122	652.9	0.283	189.1	0.047	
1954	0.177	2,087.8	0.186	1,329.4	0.124	615.3	0.297	155.2	0.045	
1955 1956	0.178	2,248.3 2,294.3	0.187 0.193	1,399.8 1,465.0	0.123 0.126	609.3 612.5	0.303 0.323	208.8 194.5	0.045 0.044	
1956	0.184 0.186	2,294.5	0.193	1,465.0	0.120	643.3	0.323	183.3	0.044	
1957	0.186	2,342.0	0.192	1,545.8	0.130	647.5	0.333	141.3	0.046	
1958	0.190	2,508.2	0.199	1,612.6	0.149	661.2	0.333	212.3	0.049	
1960	0.191	2,520.1	0.197	1,658.6	0.140	668.9	0.237	190.2	0.051	
1961	0.203	2,580.2	0.207	1,704.5	0.133	691.0	0.339	188.1	0.049	
1962	0.202	2,737.3	0.210	1,766.1	0.140	734.9	0.337	224.7	0.050	
1963	0.204	2,850.9	0.210	1,825.2	0.150	758.9	0.341	245.6	0.050	
1964	0.200	3,017.2	0.213	1,924.1	0.152	774.6	0.345	277.8	0.050	
1965	0.212	3,201.4	0.217	2,026.3	0.170	797.5	0.355	316.0	0.048	
1966	0.229	3,406.5	0.224	2,020.5	0.170	858.8	0.362	343.1	0.043	
1967	0.229	3,486.0	0.234	2,137.3	0.179	923.1	0.302	310.6	0.045	
1968	0.240	3,661.2	0.243	2,331.1	0.194	964.0	0.372	327.1	0.048	
1969	0.253	3,767.2	0.258	2,426.9	0.194	978.3	0.402	325.3	0.048	
1970	0.260	3,737.3	0.265	2,510.5	0.199	967.4	0.433	259.7	0.050	
1971	0.274	3,880.5	0.280	2,584.7	0.216	965.7	0.431	302.3	0.050	
1972	0.290	4,139.1	0.294	2,722.2	0.257	965.6	0.396	383.3	0.047	
1973	0.319	4,292.0	0.311	2,853.2	0.295	952.5	0.494	407.0	0.048	
1974	0.348	4,219.4	0.338	2,869.7	0.333	967.0	0.525	340.4	0.049	
1975	0.376	4,177.3	0.359	2,938.5	0.365	988.0	0.598	257.6	0.049	
1976	0.401	4,437.3	0.379	3,076.2	0.407	996.6	0.616	334.5	0.047	
1977	0.433	4,631.5	0.412	3,203.8	0.432	1,016.4	0.670	369.0	0.044	
1978	0.464	4,885.7	0.442	3,349.6	0.461	1,036.4	0.714	430.9	0.043	
1979	0.490	5,039.4	0.475	3,458.6	0.463	1,048.7	0.752	455.0	0.042	
1980	0.527	4,959.7	0.520	3,493.8	0.480	1,068.1	0.771	367.4	0.044	
1981	0.575	5,044.5	0.563	3,548.3	0.527	1,086.5	0.879	377.0	0.048	
1982	0.610	4,917.7	0.591	3,609.0	0.569	1,110.8	0.958	243.9	0.044	
1983	0.641	5,212.0	0.614	3,765.6	0.665	1,136.5	0.844	326.3	0.044	
1984	0.679	5,573.9	0.643	3,931.9	0.727	1,153.1	0.901	466.3	0.044	
1985	0.692	5,787.0	0.660	4,143.1	0.718	1,210.3	0.937	430.8	0.044	
1986	0.699	5,981.8	0.676	4,317.0	0.689	1,275.2	0.943	402.8	0.042	
1987	0.714	6,178.2	0.695	4,494.0	0.708	1,297.7	0.921	404.5	0.041	
1988	0.749	6,427.4	0.727	4,673.9	0.760	1,313.8	0.930	450.6	0.042	
1989	0.777	6,644.1	0.757	4,826.9	0.781	1,337.0	0.946	486.8	0.042	
1990	0.801	6,767.7	0.791	4,949.6	0.795	1,366.3	0.911	464.6	0.043	
1991	0.823	6,815.5	0.815	4,999.7	0.838	1,381.7	0.843	448.7	0.046	
1992	0.828	7,145.9	0.838	5,146.1	0.873	1,386.8	0.598	657.7	0.046	
1993	0.868	7,107.4	0.868	5,286.6	0.828	1,384.3	0.957	458.0	0.045	
1994	0.890	7,353.6	0.885	5,442.7	0.861	1,386.4	1.002	537.4	0.048	
1995	0.908	7,539.8	0.911	5,593.8	0.855	1,390.0	0.995	566.1	0.046	
1996	0.932	7,814.2	0.928	5,780.3	0.915	1,393.7	0.996	644.2	0.045	
1997	0.956	8,153.6	0.951	5,990.9	0.943	1,417.3	1.029	743.5	0.044	
1998	0.966	8,469.2	0.959	6,282.2	0.943	1,438.1	1.076	748.9	0.045	
1999	0.981	8,864.5	0.978	6,582.3	0.961	1,479.6	1.043	800.5	0.043	
2000	1.000	9,174.2	1.000	6,907.1	1.000	1,504.3	1.000	762.8	0.044	
2001	1.031	9,206.5	1.022	7,109.7	1.055	1,547.4	1.066	554.6	0.042	
2002	1.045	9,347.3	1.031	7,346.4	1.083	1,604.8	1.101	409.6	0.043	

Table 27: Income and Expenditures Account, Property Income, 1948-2002

	Proper	rty Income	ROW Prop	erty Income	Domestic Pro	operty Income
Year	Price	Quantity	Price	Quantity	Price	Quantity
1948	0.253	497.3	0.139	63.6	0.268	436.8
1949	0.223	532.6	0.132	58.7	0.235	472.8
1950	0.248	575.9	0.149	71.5	0.260	506.7
1951	0.263	625.6	0.151	83.5	0.278	547.3
1952	0.258	671.4	0.153	99.5	0.272	581.8
1953	0.257	707.1	0.154	106.9	0.270	611.6
1954	0.255	734.5	0.157	104.4	0.268	639.2
1955	0.264	772.5	0.160	113.6	0.277	670.0
1956	0.262	810.6	0.168	117.4	0.274	704.1
1957	0.257	843.0	0.175	119.8	0.266	733.7
1958	0.272	865.9	0.181	117.9	0.282	756.9
1959	0.270	892.6	0.184	120.4	0.280	781.0
1960	0.281	932.2	0.183	135.5	0.293	809.4
1961	0.277	957.6	0.186	134.5	0.287	834.5
1962	0.285	992.7	0.192	142.3	0.296	863.2
1963	0.288	1,038.4	0.192	153.9	0.299	899.7
1964	0.303	1,085.7	0.198	162.7	0.316	939.5
1965	0.323	1,135.5	0.205	165.5	0.338	985.4
1966	0.342	1,190.1	0.212	156.3	0.359	1,043.2
1967	0.329	1,255.1	0.217	161.7	0.343	1,102.1
1968	0.337	1,326.1	0.228	180.5	0.350	1,158.2
1969	0.341	1,394.1	0.235	191.3	0.354	1,216.6
1970	0.325	1,444.0	0.249	187.4	0.334	1,267.6
1971	0.354	1,497.6	0.266	193.0	0.364	1,315.7
1972 1973	0.391 0.421	1,573.2	0.279	192.7	0.404 0.436	1,389.3
1973	0.421	1,687.3 1,721.7	0.298 0.318	220.9 232.6	0.436	1,480.2 1,505.6
1974	0.441	1,721.7	0.318	211.0	0.430	1,520.4
1976	0.483	1,801.7	0.379	227.6	0.545	1,586.5
1977	0.575	1,878.9	0.404	234.6	0.595	1,656.4
1978	0.615	1,973.9	0.434	242.1	0.636	1,743.1
1979	0.621	2,085.3	0.468	258.0	0.639	1,839.9
1980	0.616	2,176.1	0.507	261.9	0.627	1,925.6
1981	0.660	2,283.9	0.555	270.1	0.671	2,025.0
1982	0.657	2,351.7	0.594	246.1	0.662	2,112.7
1983	0.737	2,418.0	0.626	250.3	0.748	2,174.7
1984	0.797	2,551.0	0.647	266.1	0.812	2,292.5
1985	0.782	2,716.2	0.674	258.4	0.792	2,461.6
1986	0.769	2,859.1	0.654	258.7	0.780	2,602.4
1987	0.778	2,960.1	0.694	254.8	0.786	2,705.5
1988	0.822	3,079.0	0.724	273.7	0.831	2,806.5
1989	0.861	3,196.9	0.768	282.4	0.870	2,915.6
1990	0.875	3,285.4	0.807	294.6	0.881	2,992.3
1991	0.881	3,395.8	0.831	357.6	0.885	3,043.4
1992	0.914	3,420.9	0.832	323.9	0.922	3,099.5
1993	0.937	3,466.6	0.879	316.7	0.942	3,151.5
1994	0.982	3,540.0	0.900	342.7	0.990	3,200.4
1995	1.000	3,649.6	0.932	350.8	1.007	3,301.8
1996	1.036	3,793.4	0.956	354.4	1.044	3,441.4
1997	1.068	3,957.8	0.973	361.8	1.076	3,597.7
1998	1.031	4,179.6	0.973	361.9	1.036	3,817.9
1999	1.023	4,454.5	0.980	386.9	1.028	4,067.9
2000 2001	1.000 1.012	4,718.4	1.000	396.8 303.0	1.000	4,321.6
2001	1.012	4,930.1 5 105 1	1.016	393.0 395.0	1.012	4,537.1 4,709.2
2002	1.021	5,105.1	1.011	395.9	1.021	4,709.2

Table 28: Income and Expenditures Account, Income, 1948-2002

		ncome		Income		perty Income
Year	Price	Quantity	Price	Quantity	Price	Quantity
1948	0.116	2,272.4	0.077	2,246.1	0.258	345.9
1949	0.111	2,275.6	0.080	2,184.4	0.213	368.0
1950	0.119	2,404.0	0.082	2,277.2	0.246	399.6
1951	0.126	2,604.3	0.087	2,462.3	0.261	434.4
1952	0.127	2,723.4	0.090	2,534.3	0.253	468.2
1953	0.130	2,817.8	0.094	2,596.9	0.249	493.7
1954	0.132	2,800.8	0.096	2,535.8	0.246	508.3
1955	0.137	2,913.1	0.101	2,612.7	0.256	538.3
1956	0.141	3,004.8	0.106	2,676.6	0.248	562.8
1957	0.143	3,049.0	0.111	2,683.2	0.235	585.8
1958	0.150	3,019.2	0.114	2,617.5	0.256	598.2
1959	0.153	3,128.9	0.119	2,708.2	0.249	622.0
1960	0.159	3,210.7	0.124	2,746.9	0.264	653.4
1961	0.159	3,270.4	0.125	2,787.1	0.258	670.7
1962	0.164	3,401.4	0.128	2,892.9	0.267	700.4
1963	0.169	3,488.0	0.123	2,930.2	0.271	735.9
1964	0.109	3,604.2	0.138	3,007.8	0.291	770.1
1965	0.178	3,735.4	0.138	3,105.3	0.291	803.7
1966	0.200	3,894.6	0.151	3,239.5	0.344	837.1
1967	0.200	4,000.5	0.151	3,290.1	0.323	877.3
1968	0.201	4,147.1	0.139	3,375.7	0.328	927.1
1969	0.212		0.170	3,463.4	0.328	970.5
		4,284.0				
1970	0.227	4,269.9	0.198	3,407.1	0.299	994.5
1971	0.246	4,320.7	0.211	3,408.0	0.332	1,032.0
1972	0.268	4,477.9	0.226	3,499.6	0.376	1,089.6
1973	0.290	4,723.9	0.242	3,640.6	0.413	1,179.8
1974	0.311	4,728.9	0.265	3,643.2	0.427	1,181.7
1975	0.338	4,646.5	0.287	3,586.6	0.467	1,156.9
1976	0.369	4,823.6	0.311	3,689.0	0.517	1,221.9
1977	0.401	5,001.7	0.335	3,813.9	0.571	1,273.8
1978	0.433	5,233.9	0.363	3,985.6	0.611	1,336.0
1979	0.453	5,448.9	0.395	4,120.0	0.597	1,409.3
1980	0.474	5,503.0	0.437	4,104.4	0.559	1,463.9
1981	0.514	5,645.2	0.478	4,144.7	0.594	1,553.9
1982	0.531	5,654.4	0.509	4,104.6	0.570	1,596.2
1983	0.579	5,768.8	0.532	4,168.0	0.682	1,644.8
1984	0.619	6,116.8	0.555	4,412.7	0.765	1,749.1
1985	0.629	6,365.0	0.580	4,530.3	0.739	1,866.4
1986	0.642	6,509.7	0.608	4,578.2	0.714	1,953.8
1987	0.658	6,712.0	0.628	4,742.8	0.720	1,995.4
1988	0.695	6,929.8	0.657	4,888.6	0.775	2,067.1
1989	0.721	7,154.8	0.674	5,046.3	0.823	2,135.0
1990	0.746	7,268.3	0.705	5,121.0	0.835	2,173.3
1991	0.769	7,296.2	0.736	5,068.4	0.837	2,243.9
1992	0.810	7,300.6	0.774	5,075.4	0.886	2,241.8
1993	0.827	7,461.5	0.787	5,232.0	0.913	2,252.4
1994	0.857	7,639.7	0.803	5,388.3	0.974	2,279.8
1995	0.874	7,837.5	0.819	5,534.9	0.993	2,332.9
1996	0.906	8,032.8	0.841	5,640.4	1.048	2,417.5
1990	0.900	8,291.5	0.867	5,799.8	1.101	2,417.3
1997	0.940	8,599.5	0.807	5,960.1	1.101	2,651.8
1998	0.952					
		8,924.2	0.944	6,100.0	1.039	2,827.5
2000	1.000	9,174.5	1.000	6,199.8	1.000	2,974.8
	1.000	0.001.4	1 000		1 0 1 0	2000
2001 2002	1.028 1.056	9,231.4 9,244.4	1.033 1.065	6,162.0 6,091.9	1.019 1.038	3,069.9 3,154.4

Table 29: Income and Expenditures Account, Level of Living, 1948-2002

	37.5	***				
Voor	Net Exp Price	Quantity	Price	t Income Quantity	Level of Living	
Year						
1948 1949	0.161 0.155	1,634.4 1,631.9	0.116 0.111	2,272.4 2,275.6	0.719 0.717	
1950	0.159	1,806.8	0.111	2,404.0	0.752	
1951	0.159	1,953.8	0.119	2,604.3	0.750	
1952	0.171	2,033.3	0.120	2,723.4	0.747	
1953	0.171	2,129.7	0.127	2,817.8	0.756	
1954	0.173	2,087.8	0.130	2,800.8	0.745	
1955	0.177	2,248.3	0.132	2,913.1	0.772	
1956	0.178	2,294.3	0.137	3,004.8	0.764	
1957	0.186	2,342.6	0.141	3,049.0	0.768	
1958	0.186	2,342.0	0.143	3,019.2	0.764	
1959	0.190	2,502.5	0.150	3,128.9	0.800	
1960	0.191	2,520.1	0.155	3,210.7	0.785	
1961	0.203	2,580.2	0.159	3,270.4	0.789	
1962	0.204	2,737.3	0.164	3,401.4	0.805	
1963	0.206	2,850.9	0.169	3,488.0	0.817	
1964	0.212	3,017.2	0.178	3,604.2	0.837	
1965	0.220	3,201.4	0.188	3,735.4	0.857	
1966	0.229	3,406.5	0.200	3,894.6	0.875	
1967	0.231	3,486.0	0.201	4,000.5	0.871	
1968	0.240	3,661.2	0.212	4,147.1	0.883	
1969	0.253	3,767.2	0.222	4,284.0	0.879	
1970	0.260	3,737.3	0.227	4,269.9	0.875	
1971	0.274	3,880.5	0.246	4,320.7	0.898	
1972	0.290	4,139.1	0.268	4,477.9	0.924	
1973	0.319	4,292.0	0.290	4,723.9	0.909	
1974	0.348	4,219.4	0.311	4,728.9	0.892	
1975	0.376	4,177.3	0.338	4,646.5	0.899	
1976	0.401	4,437.3	0.369	4,823.6	0.920	
1977	0.433	4,631.5	0.401	5,001.7	0.926	
1978	0.464	4,885.7	0.433	5,233.9	0.933	
1979	0.490	5,039.4	0.453	5,448.9	0.925	
1980	0.527	4,959.7	0.474	5,503.0	0.901	
1981	0.575	5,044.5	0.514	5,645.2	0.894	
1982	0.610	4,917.7	0.531	5,654.4	0.870	
1983	0.641	5,212.0	0.579	5,768.8	0.903	
1984	0.679	5,573.9	0.619	6,116.8	0.911	
1985	0.692	5,787.0	0.629	6,365.0	0.909	
1986	0.699	5,981.8	0.642	6,509.7	0.919	
1987	0.714	6,178.2	0.658	6,712.0	0.920	
1988	0.749	6,427.4	0.695	6,929.8	0.927	
1989	0.777	6,644.1	0.721	7,154.8	0.929	
1990	0.801	6,767.7	0.746	7,268.3	0.931	
1991	0.823	6,815.5	0.769	7,296.2	0.934	
1992	0.828	7,145.9	0.810	7,300.6	0.979	
1993	0.868	7,107.4	0.827	7,461.5	0.953	
1994	0.890	7,353.6	0.857	7,639.7	0.963	
1995	0.908	7,539.8	0.874	7,837.5	0.962	
1996	0.932	7,814.2	0.906	8,032.8	0.973	
1997	0.956	8,153.6	0.940	8,291.5	0.983	
1998	0.966	8,469.2	0.952	8,599.5	0.985	
1999	0.981	8,864.5	0.974	8,924.2	0.993	
2000	1.000	9,174.2	1.000	9,174.5	1.000	
2001	1.031	9,206.5	1.028	9,231.4	0.997	
		- ,=	0-0	-,	****	

Table 30: Domestic Capital Account, Investment, 1948-2002

(Constant pr	ices of 2000)						Effective Sales Tax
	Gross	Investment	Private	Investment	Governmen	t Investment	Rate on Investment
Year	Price	Quantity	Price	Quantity	Price	Quantity	Expenditures
1948	0.243	334.4	0.252	284.3	0.174	40.7	0.046
1949	0.244	300.5	0.256	245.0	0.175	56.1	0.048
1950	0.245	383.3	0.262	327.5	0.171	57.9	0.046
1951	0.268	407.7	0.282	322.2	0.191	91.6	0.043
1952	0.270	395.4	0.283	296.6	0.195	114.2	0.046
1953	0.267	420.5	0.289	310.6	0.193	124.5	0.047
1954	0.273	396.8	0.289	296.8	0.192	117.4	0.045
1955	0.279	463.2	0.294	366.1	0.195	107.5	0.045
1956	0.294	461.1	0.305	359.1	0.213	108.0	0.044
1957	0.306	458.3	0.316	351.4	0.223	109.6	0.044
1958	0.305	422.1	0.317	320.1	0.222	119.6	0.046
1959	0.298	499.8	0.326	371.3	0.224	130.8	0.049
1960	0.316	486.3	0.327	373.7	0.222	126.8	0.051
1961	0.316	492.2	0.327	367.4	0.224	140.5	0.049
1962	0.320	537.7	0.330	409.6	0.228	145.9	0.050
1963	0.322	571.1	0.330	439.7	0.235	143.3	0.050
1964	0.325	618.9	0.333	476.3	0.237	146.1	0.050
1965	0.330	676.1	0.337	538.6	0.244	145.7	0.048
1966	0.335	726.8	0.340	586.3	0.251	158.6	0.043
1967	0.343	716.3	0.348	572.5	0.258	166.3	0.045
1968	0.354	755.4	0.362	613.7	0.268	162.1	0.048
1969	0.370	777.8	0.376	644.6	0.285	151.8	0.048
1970	0.391	729.8	0.390	608.1	0.309	141.6	0.050
1971	0.401	792.3	0.408	673.8	0.331	126.2	0.050
1972	0.399	895.3	0.423	751.2	0.364	116.9	0.047
1973	0.449	945.6	0.442	832.2	0.389	120.3	0.048
1974	0.481	902.6	0.483	770.0	0.444	126.8	0.049
1975	0.538	832.9	0.535	679.6	0.478	131.9	0.049
1976	0.564	933.4	0.565	797.7	0.495	134.0	0.047
1977	0.604	996.0	0.601	902.6	0.519	130.2	0.044
1978	0.644	1,096.4	0.646	990.6	0.553	139.3	0.043
1979	0.687	1,160.0	0.701	1,009.3	0.599	147.8	0.042
1980	0.732	1,100.3	0.764	908.5	0.660	152.1	0.044
1981	0.809	1,132.6	0.832	966.2	0.725	147.3	0.048
1982	0.861	1,009.8	0.873	867.6	0.770	146.0	0.044
1983	0.839	1,115.4	0.877	963.5	0.783	156.8	0.044
1984	0.864	1,290.5	0.883	1,203.3	0.791	176.0	0.044
1985	0.882	1,301.4	0.892	1,232.9	0.795	199.9	0.044
1986	0.893	1,325.0	0.906	1,269.0	0.796	217.5	0.042
1987	0.898	1,380.7	0.927	1,302.0	0.802	229.8	0.041
1988	0.915	1,473.6	0.947	1,346.1	0.814	228.5	0.042
1989	0.934	1,559.0	0.968	1,390.9	0.832	237.8	0.042
1990	0.934	1,585.2	0.983	1,358.8	0.852	253.1	0.043
1991	0.925	1,610.8	0.995	1,263.2	0.865	254.7	0.046
1992	0.850	1,804.6	0.996	1,353.9	0.869	256.5	0.046
1993	0.972	1,675.4	1.008	1,468.0	0.888	246.6	0.045
1994	0.998	1,799.6	1.025	1,638.1	0.911	243.0	0.048
1995	1.007	1,884.5	1.038	1,692.1	0.936	248.6	0.046
1996	1.008	2,021.4	1.031	1,835.6	0.947	258.5	0.045
1997	1.016	2,190.1	1.021	2,040.3	0.953	264.5	0.044
1998	1.025	2,277.6	1.004	2,249.8	0.959	273.7	0.045
1999	1.011	2,428.5	0.997	2,450.7	0.976	294.1	0.043
2000	1.000	2,506.5	1.000	2,598.7	1.000	304.4	0.044
2001	1.018	2,408.7	1.000	2,497.1	1.014	319.4	0.042
2002	1.018	2,343.2	0.992	2,516.3	1.026	338.6	0.043

Table 31: Domestic Capital Account, Change in Wealth, 1948-2002

	Gros	ss Saving	Depr	reciation	Net	Saving	Reva	luation	Change	in Wealth
Year	Price	Quantity	Price	Quantity	Price	Quantity	Price	Quantity	Price	Quantity
1948	0.243	334.4	0.239	152.8	0.268	166.5				
1949	0.244	300.5	0.244	166.0	0.266	123.7	0.005	911.4	0.092	404.0
1950	0.245	383.3	0.248	178.0	0.263	189.1	0.027	951.4	0.133	565.9
1951	0.268	407.7	0.265	193.1	0.294	197.7	0.071	1,016.5	0.217	597.4
1952	0.270	395.4	0.267	205.2	0.296	175.6	0.013	1,069.7	0.116	565.9
1953	0.267	420.5	0.273	215.6	0.283	189.1	0.042	1,026.6	0.164	587.1
1954	0.273	396.8	0.273	228.1	0.297	155.2	0.009	930.8	0.110	496.5
1955	0.279	463.2	0.279	236.4	0.303	208.8	0.035	891.8	0.154	614.2
1956	0.294	461.1	0.291	250.0	0.323	194.5	0.110	916.1	0.274	599.5
1957	0.306	458.3	0.303	259.6	0.336	183.3	0.086	922.5	0.239	587.5
1958	0.305	422.1	0.304	269.4	0.333	141.3	0.035	911.8	0.155	510.7
1959	0.298	499.8	0.315	273.4	0.297	212.3	0.050	901.8	0.167	646.0
1960	0.316	486.3	0.317	282.3	0.338	190.2	0.063	878.5	0.199	600.5
1961	0.316	492.2	0.317	290.5	0.339	188.1	0.068	881.8	0.207	598.0
1962	0.320	537.7	0.321	297.0	0.341	224.7	0.084	815.1	0.229	632.0
1963	0.322	571.1	0.324	308.0	0.343	245.6	0.041	844.8	0.175	677.0
1964	0.325	618.9	0.326	321.4	0.345	277.8	-0.012	779.1	0.115	751.6
1965	0.330	676.1	0.329	337.7	0.355	316.0	0.047	816.1	0.178	849.9
1966	0.335	726.8	0.331	359.3	0.362	343.1	0.093	844.1	0.223	908.4
1967	0.343	716.3	0.338	384.4	0.372	310.6	0.066	916.5	0.200	878.8
1968	0.354	755.4	0.351	405.9	0.381	327.1	0.201	952.6	0.343	919.7
1969	0.370	777.8	0.364	430.6	0.402	325.3	0.261	915.8	0.413	895.4
1970	0.391	729.8	0.379	455.0	0.433	259.7	0.143	1,106.6	0.293	922.7
1971	0.401	792.3	0.397	471.4	0.431	302.3	0.190	1,030.5	0.347	940.9
1972	0.399	895.3	0.419	490.5	0.396	383.3	0.267	971.3	0.414	993.8
1973	0.449	945.6	0.432	515.7	0.494	407.0	0.421	858.0	0.600	938.6
1974	0.481	902.6	0.468	546.9	0.525	340.4	0.634	956.6	0.816	961.9
1975	0.538	832.9	0.517	569.1	0.598	257.6	0.485	1,126.4	0.683	1,026.0
1976	0.564	933.4	0.547	585.4	0.616	334.5	0.237	1,379.5	0.416	1,279.1
1977	0.604	996.0	0.579	611.0	0.670	369.0	0.837	745.2	0.992	877.9
1978	0.644	1,096.4	0.619	644.0	0.714	430.9	0.860	1,000.3	1.030	1,134.3
1979	0.687	1,160.0	0.667	682.4	0.752	455.0	1.047	1,025.9	1.208	1,172.0
1980	0.732	1,100.3	0.727	717.6	0.771	367.4	0.849	1,260.3	1.033	1,309.7
1981	0.809	1,132.6	0.791	740.0	0.879	377.0	0.511	1,647.9	0.728	1,613.4
1982	0.861	1,009.8	0.832	764.7	0.958	243.9	0.288	1,831.9	0.498	1,529.1
1983	0.839	1,115.4	0.843	783.6	0.844	326.3	0.289	1,251.6	0.476	1,339.3
1984	0.864	1,290.5	0.852	814.8	0.901	466.3	0.203	1,647.4	0.411	1,835.9
1985	0.882	1,301.4	0.861	864.1	0.937	430.8	0.417	1,364.0	0.606	1,603.3
1986	0.893	1,325.0	0.875	918.6	0.943	402.8	0.605	1,517.8	0.774	1,677.4
1987	0.898	1,380.7	0.891	973.3	0.921	404.5	0.675	1,634.0	0.833	1,771.9
1988	0.915	1,473.6	0.912	1,019.4	0.930	450.6	0.705	1,692.0	0.863	1,869.5
1989	0.934	1,559.0	0.932	1,068.2	0.946	486.8	0.605	1,745.6	0.776	1,953.9
1990	0.934	1,585.2	0.948	1,116.1	0.911	464.6	0.418	1,780.3	0.599	1,949.3
1991	0.925	1,610.8	0.963	1,155.7	0.843	448.7	0.204	1,725.2	0.387	1,886.1
1992	0.850	1,804.6	0.966	1,180.9	0.598	657.7	0.181	1,722.3	0.304	2,315.0
1993	0.972	1,675.4	0.980	1,214.7	0.957	458.0	0.535	1,849.5	0.693	2,061.4
1994	0.998	1,799.6	0.998	1,259.7	1.002	537.4	0.394	2,014.6	0.578	2,305.6
1995	1.007	1,884.5	1.014	1,315.8	0.995	566.1	0.508	1,538.3	0.669	2,009.7
1996	1.008	2,021.4	1.015	1,375.0	0.996	644.2	0.435	1,841.7	0.613	2,354.0
1997	1.016	2,190.1	1.010	1,444.3	1.029	743.5	0.340	1,377.4	0.556	2,217.9
1998	1.025	2,277.6	1.001	1,527.5	1.076	748.9	0.422	1,483.1	0.624	2,295.7
1999	1.011	2,428.5	0.997	1,626.6	1.043	800.5	0.676	1,952.9	0.787	2,737.7
2000	1.000	2,506.5	1.000	1,743.7	1.000	762.8	1.000	1,654.1	1.000	2,416.9
2001	1.018	2,408.7	1.000	1,860.5	1.066	554.6	1.012	1,541.3	1.028	2,093.0
2002	1.018	2,343.2	0.991	1,951.8	1.101	409.6	1.022	2,076.8	1.045	2,463.4

Table 32: Wealth, 1948-2002

(**************************************	y <u>-</u> /	Wealth Private Domestic Tangible Assets		Government Tangible Assets			
Year	Price	Quantity	Price	Quantity	Price	Quantity	
1948	0.107	7,202.7	0.118	4,158.6	0.092	2,878.3	
1949	0.108	7,424.4	0.118	4,448.2	0.094	2,765.7	
1950	0.111	7,893.5	0.124	4,876.6	0.093	2,758.3	
1951	0.120	8,400.3	0.133	5,264.5	0.104	2,846.7	
1952	0.122	8,861.0	0.134	5,582.2	0.107	2,973.6	
1953	0.126	9,319.9	0.139	5,882.0	0.110	3,121.1	
1954	0.127	9,710.3	0.140	6,141.4	0.111	3,241.2	
1955	0.130	10,189.4	0.143	6,516.7	0.114	3,316.5	
1956	0.140	10,558.4	0.153	6,840.5	0.127	3,333.6	
1957	0.148	10,919.1	0.160	7,141.2	0.135	3,372.7	
1958	0.151	11,222.2	0.163	7,364.8	0.138	3,441.0	
1959	0.155	11,595.0	0.167	7,653.7	0.141	3,508.6	
1960	0.160	11,893.8	0.172	7,920.1	0.145	3,521.4	
1961	0.165	12,155.7	0.178	8,139.8	0.150	3,549.3	
1962	0.171	12,550.1	0.183	8,449.3	0.156	3,617.6	
1963	0.174	13,004.7	0.186	8,786.2	0.161	3,720.6	
1964	0.174	13,586.7	0.185	9,166.7	0.160	3,912.9	
1965	0.177	14,162.0	0.188	9,604.6	0.163	4,032.8	
1966	0.183	14,822.9	0.194	10,125.4	0.169	4,151.5	
1967	0.187	15,477.9	0.198	10,577.2	0.173	4,343.1	
1968	0.200 0.214	15,993.5	0.212 0.227	11,050.8 11,513.3	0.185 0.200	4,357.9	
1969 1970	0.214	16,538.8 17,103.6	0.227	11,914.0	0.200	4,417.4 4,567.0	
1970	0.224	17,650.7	0.238	12,342.9	0.213	4,567.0	
1971	0.233	18,788.9	0.248	13,340.2	0.228	4,003.0	
1972	0.249	19,701.6	0.279	14,124.8	0.269	4,853.8	
1974	0.300	19,277.6	0.308	13,555.4	0.308	5,015.1	
1975	0.330	20,108.9	0.338	14,257.3	0.336	5,124.6	
1976	0.347	20,781.6	0.358	14,807.1	0.350	5,230.4	
1977	0.376	21,652.0	0.386	15,535.1	0.371	5,351.4	
1978	0.415	22,529.9	0.426	16,334.9	0.403	5,409.1	
1979	0.464	23,502.1	0.471	17,205.7	0.447	5,494.5	
1980	0.510	24,360.7	0.518	17,813.6	0.492	5,744.8	
1981	0.545	25,870.9	0.556	19,022.9	0.534	6,032.4	
1982	0.567	26,480.1	0.581	19,534.5	0.559	6,119.8	
1983	0.580	26,938.7	0.594	19,943.9	0.571	6,186.0	
1984	0.593	28,788.4	0.609	21,790.3	0.583	6,287.0	
1985	0.613	30,440.3	0.629	23,542.2	0.599	6,271.5	
1986	0.641	31,165.3	0.656	24,229.2	0.624	6,413.3	
1987	0.675	31,624.9	0.688	24,722.5	0.655	6,538.7	
1988	0.709	32,427.9	0.723	25,481.0	0.683	6,691.5	
1989	0.741	33,372.5	0.757	26,252.6	0.713	6,854.6	
1990	0.762	33,075.5	0.781	26,067.9	0.738	6,788.9	
1991	0.773	33,527.8	0.794	26,446.8	0.753	6,891.9	
1992	0.782	33,480.3	0.806	26,469.8	0.764	6,916.3	
1993	0.815	33,221.6	0.824	26,463.6	0.782	6,906.9	
1994	0.843	32,710.5	0.844	26,304.4	0.803	6,854.4	
1995	0.866	33,899.2	0.870	27,364.6	0.833	7,051.6	
1996	0.890	34,187.2	0.889	27,747.5	0.860	7,107.0	
1997	0.902	35,184.9	0.908	28,742.2	0.884	7,288.2	
1998	0.921	36,874.2	0.931	30,235.7	0.913	7,525.6	
1999	0.958	38,171.2	0.959	31,523.6	0.948	7,779.3	
2000	1.000	39,504.6	1.000	33,046.6	1.000	8,046.6	
2001	1.042	39,939.6	1.048	33,764.5	1.055	8,122.7	
2002	1.096	40,950.4	1.088	35,021.8	1.107	8,428.4	

Table 33: Contributions to Output and Growth, 1948-2002

Output	1948-2002	1948-1973	1973-1989	1989-1995	1995-2002
Gross Domestic Product	3.52	4.06	3.06	2.33	3.64
Contribution of Consumption	2.55	2.91	2.30	1.72	2.59
Contribution of Investment	0.97	1.16	0.77	0.62	1.05
Growth	1948-2002	1948-1973	1973-1989	1989-1995	1995-2002
Gross Domestic Income	2.90	3.13	2.96	1.77	2.93
Gross Domestic Income Contribution of Capital Services	2.90 1.83	3.13 2.00	2.96 1.79	1.77 0.87	2.93 2.14
Gross Domestic Income	2.90	3.13	2.96	1.77	2.93

**Figure 2: Output and Input Shares** 

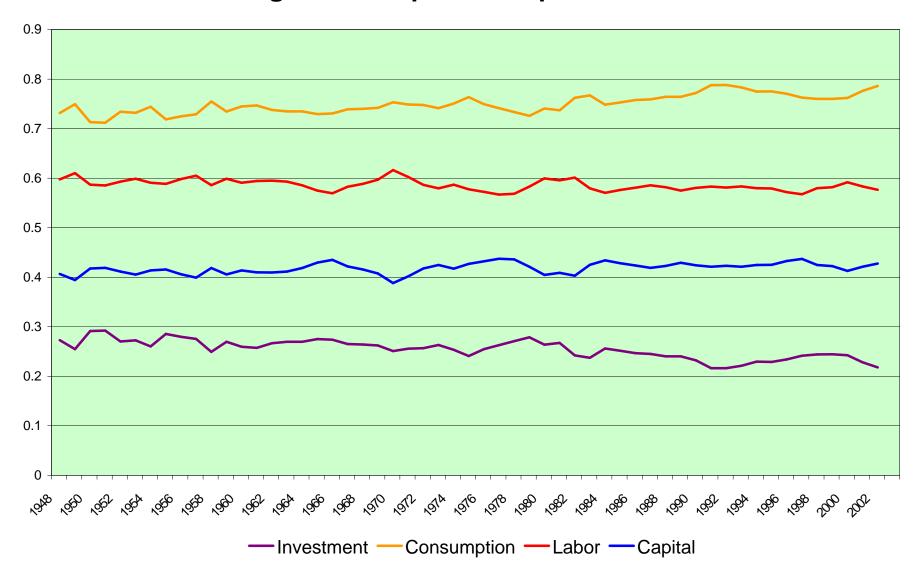


Figure 3: Contributions to Output and Economic

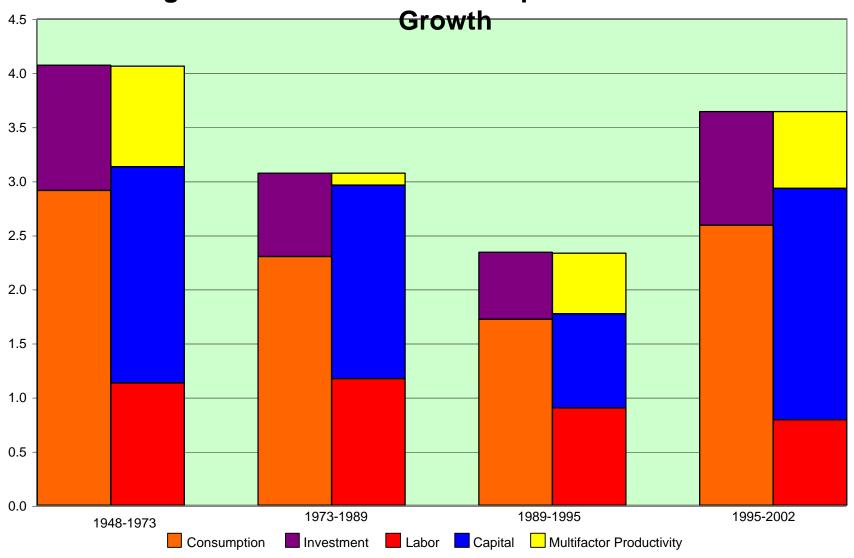


Table 34: Contributions to Expenditure, 1948-2002

Expenditure	1948-2002	1948-1973	1973-1989	1989-1995	1995-2002
Income	2.60	2.93	2.59	1.52	2.36
Contribution of Labor Income	1.21	1.26	1.34	1.02	0.90
Contribution of Net Property Income	1.39	1.66	1.26	0.50	1.46
Level of Living	0.63	0.93	0.14	0.59	0.71
Net Expenditure	1948-2002	1948-1973	1973-1989	1989-1995	1995-2002
Net Expenditures	3.23	3.86	2.73	2.11	3.07
Consumption	3.00	3.38	2.69	1.93	3.25
Contribution of Personal Consumption	2.51	2.74	2.24	1.80	2.90
Contribution of Government Consumption	0.49	0.64	0.45	0.13	0.35
Net Saving	0.23	0.48	0.04	0.18	-0.18

**Figure 4: Income and Expenditure Shares** 

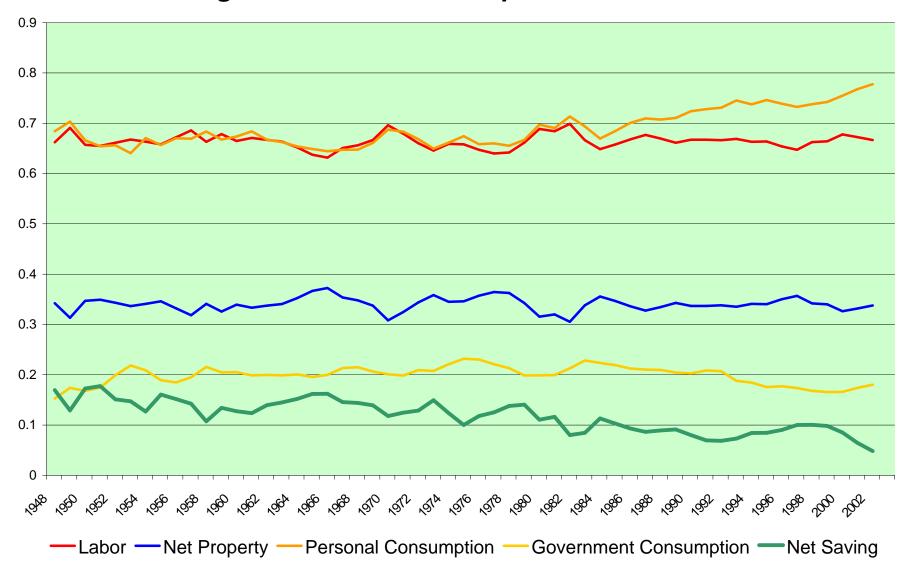


Figure 5: Contributions to Net Expenditure and Income

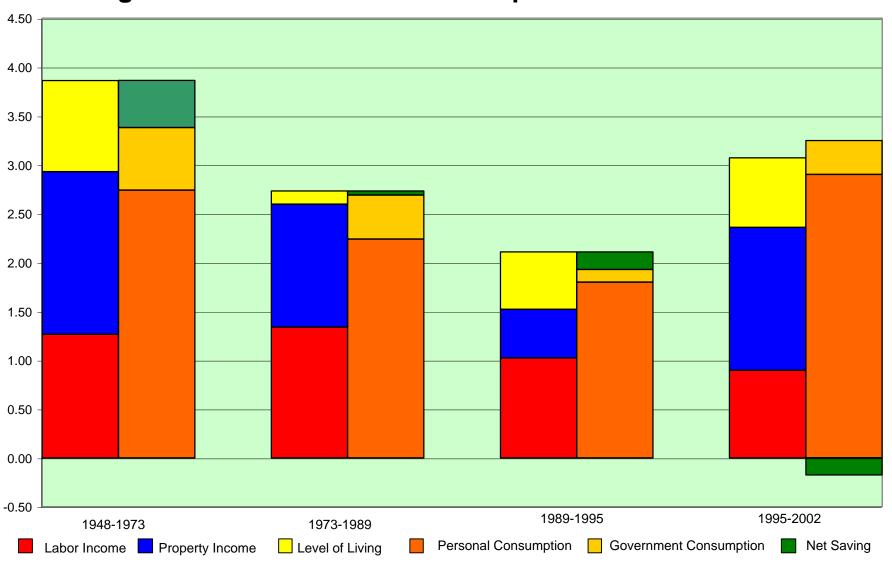


Table 35: Contributions to Investment and Saving, 1948-2002

Investment	1948-2002	1948-1973	1973-1989	1989-1995	1995-2002
Gross Investment	3.61	4.16	3.13	3.16	3.11
Contribution of Private Investment	3.57	3.58	2.98	2.97	5.39
Contribution of Government Investment	0.55	0.65	0.55	0.10	0.54
Contribution of ROW Investment	-0.51	-0.07	-0.41	0.09	-2.82
Saving	1948-2002	1948-1973	1973-1989	1989-1995	1995-2002
Saving	3.61	4.16	3.13	3.16	3.11
Contribution of Net Saving	0.76	1.55	0.23	0.67	-0.79
Contribution of Depreciation	2.85	2.61	2.89	2.49	3.91

**Figure 6: Investment and Saving Shares** 

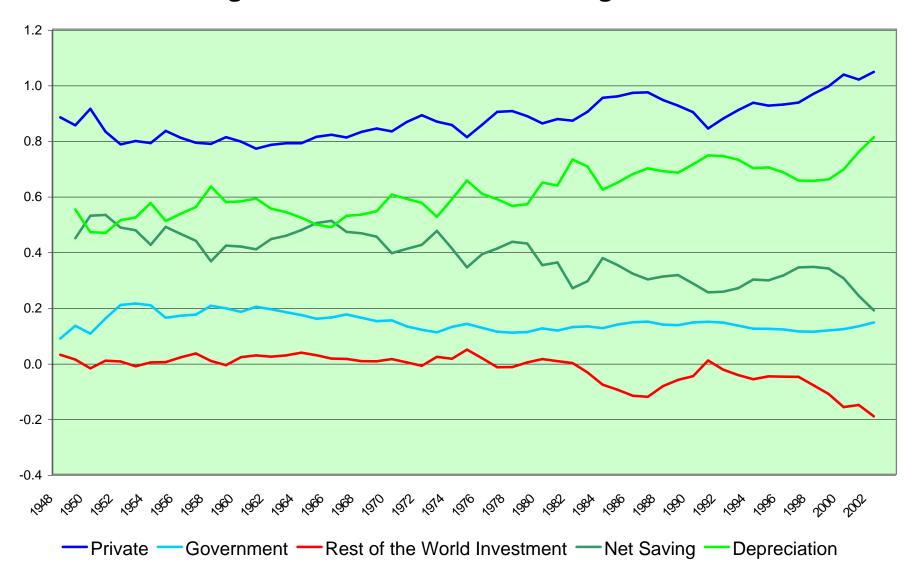


Figure 7: Contributions to Investment and Saving

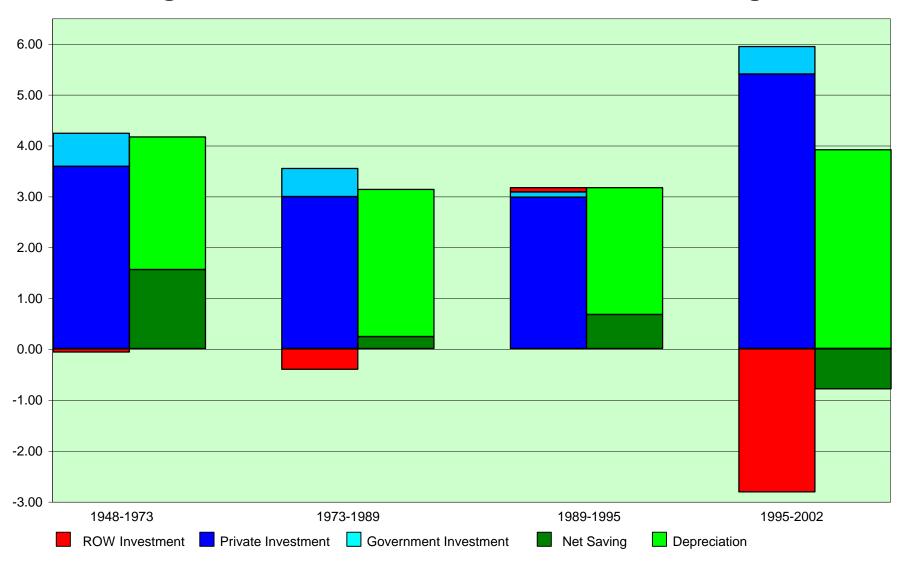


Table 36: Contributions to Change in Wealth, 1948-2002

Change in Wealth	1948-2002	1948-1973	1973-1989	1989-1995	1995-2002
Character Worlds	2.41	2.51	4.50	0.47	2.01
Change in Wealth	3.41	3.51	4.58	0.47	2.91
Contribution of Net Saving	2.11	3.65	0.97	1.61	-0.16
Contribution of Revaluation	1.30	-0.13	3.61	-1.14	3.07
Wealth	1948-2002	1948-1973	1973-1989	1989-1995	1995-2002
Wealth	3.22	4.02	3.29	0.26	2.70
Contribution of Private Tangible Assets	2.92	3.47	2.95	0.56	2.93
Contribution of Government Tangible Assets	0.48	0.56	0.49	0.09	0.52
Contribution of International Position	-0.18	0.00	-0.15	-0.39	-0.74