Economic Report of the President



Transmitted to the Congress January 2009

together with
THE ANNUAL REPORT
of the
COUNCIL OF ECONOMIC ADVISERS

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^{*} For a detailed table of contents of the Council's Report, see page 11

ECONOMIC REPORT OF THE PRESIDENT

ECONOMIC REPORT OF THE PRESIDENT

To the Congress of the United States:

The American economy has consistently proven its strength and resilience in the face of shocks such as natural disasters, high energy prices, and the terrorist attacks of September 11. The economy experienced 6 years of uninterrupted expansion, which included a record stretch of 52 consecutive months of job creation. The past year saw this growth cease as several forces that developed over many years in the credit and housing markets converged. The combination of these factors, coupled with a sustained period of rising energy prices, was sufficient to threaten the entire financial system and generated a shock so large that its effects have been felt throughout the global economy.

Under ordinary circumstances, it would be preferable to allow the free market to take its course and correct over time. But the Government has a responsibility to safeguard the broader health and stability of our economy. Under the extraordinary circumstances created by the financial crisis, the potential damage to American households and businesses was so severe that a systemic, aggressive, and unprecedented Government response was the only responsible policy option.

The actions taken by my Administration in response to the financial crisis have laid the groundwork for a return to economic growth and job creation, and they are beginning to show some early results. A measure of stability has returned to the financial system. There will, of course, continue to be challenges. Temporary Government programs must remain temporary and be unwound in an orderly manner as soon as conditions warrant. Financial regulations must be modernized to reflect the realities of the 21st century, and these efforts should ensure that the objective of protecting consumers and investors does not come at the expense of the flexibility required for innovations to come to the market. We must also continue to trust

Americans with the responsibility of homeownership and empower them to weather turbulent times in the market by helping creditworthy homeowners avoid foreclosure.

As the country navigates through this trying period, we must never lose sight of the enormous benefits delivered by the free enterprise system. Americans have good reasons to be confident about the long-term health of our economy. Despite the current difficulties, there are a number of positive economic factors. Inflationary pressures have moderated as record high prices for oil and gasoline have retreated. Productivity growth, which helps to increase our standard of living and improve our international competitiveness, remains solid. The American economy continues to be the largest and most dynamic in the world, and its solid foundation of flexible labor markets, low tax rates, and open trade and investment policies all contribute to its ability to recover fairly quickly from shocks. Over the past 8 years, my Administration has worked to strengthen this foundation by adopting pro-growth, marketoriented policies, and our policies will position the economy for a strong rebound and continued long-run growth.

Sound economic policy begins with keeping taxes low. The tax relief enacted by my Administration was the largest in a generation. Tax rates have been lowered for every American who pays income taxes. More than 13 million Americans had their Federal income tax liability completely eliminated, and individuals and businesses have kept \$1.7 trillion of their own hard-earned money. Raising taxes at any time reduces our international competitiveness and further distorts the decisions of individuals and businesses; doing so in the current environment would have serious consequences for the economy. This tax relief has been a key factor in promoting the economic growth and job creation of recent years, and it should be made permanent. Unless the Congress acts, most of the tax relief that we have delivered over the past 8 years will be taken away, and 116 million American taxpayers will see their taxes rise.

The Government also has a responsibility to spend the taxpayers' money wisely. Over the course of my Administration, the rate of growth in nonsecurity discretionary spending has steadily decreased from more than 16 percent in 2001 to below the rate of inflation today. While the financial crisis has required significant taxpayer investments that will increase the budget deficit, we expect that most or all of those investments will be paid back to taxpayers over time. The greatest challenge to the fiscal health of the country remains the unsustainable growth in entitlement programs such as Social Security,

Medicare, and Medicaid. I have laid out responsible, innovative solutions to address these challenges, which will otherwise only grow more difficult to solve over time. The Congress has an obligation to confront these issues.

Government does have a role to play in health care, but a robust private market is critical to ensuring that health care is affordable and accessible for all Americans. My Administration has sought to balance public and private roles in health care with market-oriented policies that increase the efficiency of health care delivery, encourage competition, and leave decisions in the hands of individuals and their doctors. For example, enactment of the Medicare prescription drug benefit program has provided more than 40 million Americans with better access to prescription drug coverage, expanded competition in Medicare, trusted consumers to make their own health care decisions, and the costs have been much lower than originally estimated. The introduction of Health Savings Accounts has also provided consumers with greater access to affordable health care plans. There is much more that can be done to improve health care, such as adopting medical liability reform, eliminating the bias in the tax code against those who do not receive health insurance through their employers, and increasing the power of small employers, civic groups, and community organizations to negotiate lower-priced health premiums. These policies would help reduce frivolous lawsuits that increase patients' costs, promote the use of health savings accounts, and encourage competition among health plans across State lines.

To be competitive in the global marketplace, the United States must remain open to international trade and investment and reject the false promise offered by protectionist policies. American workers and businesses can compete with anyone in the world, as evidenced by the remarkable performance of American exports in recent years. When I took office, the United States had free trade agreements (FTAs) in force with only three countries. Today, we have FTAs in force with 16 countries. I thank the Congress for its approval of these agreements and strongly encourage prompt approval of the agreements with Colombia, Panama, and South Korea that will benefit our country. These agreements will provide greater access for our exports, support good jobs for American workers, and promote America's strategic interests. We also have an unprecedented opportunity to reduce barriers to global trade and investment through a successful conclusion to the World Trade Organization Doha Round negotiations. In addition, the Congress should reauthorize and reform trade adjustment assistance so that we can help those workers whose jobs are displaced to learn new skills and find new jobs.

The rapid increase in energy prices in the past year exposed just how dependent our economy is on oil. We must continue taking steps to increase our energy security. The Energy Policy Act of 2005 and the Energy Independence and Security Act of 2007 were major steps toward this goal, but in the short term, our country will continue to rely on fossil fuels for most of its energy supply. I am pleased that the Congress recognized this reality and agreed to remove restrictions that will allow responsible oil and gas exploration on the Outer Continental Shelf and expanded access to oil shale to help meet America's energy needs. In the long run, our energy security will require advances in clean and renewable energy technologies. My Administration has worked to reduce gasoline consumption and promote alternative fuels to transform the way Americans power their cars and trucks. We have also worked to develop cleaner energy sources to power Americans' homes and places of work, such as clean coal, nuclear, solar, and wind power. At home, we are on the path to slow, stop, and eventually reverse the growth of greenhouse gas emissions, but substantial reductions in global greenhouse gas emissions are only possible with the concerted action of all countries. The Major Economies Process launched by my Administration in 2007 has brought all major economies together to discuss a common approach to a global climate agreement that includes the meaningful participation of all major economies.

The creativity, ingenuity, and resourcefulness of the American people is our country's greatest strength, and a vibrant education system is key to maintaining our Nation's competitive edge and extending economic opportunity to every citizen. Workers who invest in their education and training enjoy higher incomes and greater job security. The No Child Left Behind Act has succeeded in bringing greater accountability to schools, and the results are clear; as one example, African American and Hispanic students are posting all-time high scores in a number of categories. The Congress should reauthorize this vital law, and our Nation must continue to demand results and accountability from our educational system. To be competitive in the global economy, American workers also need to continually update their skills. To that end, my Administration has invested nearly \$1 billion in new job training initiatives to ensure our workforce has the skills required of 21st century jobs. We have also nearly doubled support for Pell Grants to help millions of low-income Americans afford college tuition. The technological innovation that drives our global economic leadership depends on continued scientific discoveries and advancements, and I am pleased that

the Congress authorized the doubling of basic research in key physical science and engineering agencies as I proposed in my American Competitiveness Initiative (ACI). I urge the Congress to appropriate these ACI funds promptly to help sustain our economy's long-term competitive position.

Many of these issues are discussed in the 2009 Annual Report of the Council of Economic Advisers. The Council has prepared this Report to help policymakers understand the economic conditions and issues that underlie my Administration's policy decisions. Free market policies have lifted millions of people out of poverty and given them the opportunity to build a more hopeful life. By continuing to trust the decisions of individuals and markets and pursuing pro-growth policies, Americans can be confident that the economy will emerge stronger than ever from its current challenges, with greater opportunity for prosperity and economic growth.

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THE WHITE HOUSE JANUARY 2009

THE ANNUAL REPORT OF THE COUNCIL OF ECONOMIC ADVISERS

LETTER OF TRANSMITTAL

Council of Economic Advisers Washington, D.C., January 16, 2009

Mr. President:

The Council of Economic Advisers herewith submits its 2009 Annual Report in accordance with the provisions of the Employment Act of 1946 as amended by the Full Employment and Balanced Growth Act of 1978.

Sincerely,

Edward P. Lazear

Chairman

Donald B. Marron Member

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Overview

The U.S. economy has proven itself remarkably resilient over the past 8 years, having withstood a number of major shocks throughout the period. During the last few months of 2008, however, the economy encountered major shocks in the financial sector that it could not shake Those financial shocks combined with other factors—record high commodity prices earlier in the year, natural disasters, and continued weakness in the housing market—to cause the economy to contract modestly in the third quarter and what appears to be a sharp decline in the fourth quarter (see Chapters 1 and 2). The contraction will likely last into early- or mid-2009. Despite rapid fiscal and monetary policy action in response to weakening economic conditions, the economy entered into recession at the end of 2007, ending 6 years of expansion and a record 52 months of uninterrupted job growth. Several factors contributed over many years to create the credit difficulties that reached crisis proportions late in the year. The magnitude of the crisis required unprecedented policy responses to reduce the extent of the damage to the economy. These policy actions have laid a foundation for a strong economic recovery early in the term of the next Administration. Most market forecasts suggest the weakness will continue in the first half of 2009, followed by a recovery beginning in the second half of 2009 that will gain momentum in 2010 and beyond.

Despite the risk that recent events may overshadow the many positive developments of the past 8 years, there have been major policy advances that have improved the long-term prospects of our economy and strengthened its foundation. Much of this *Report* examines the effects of pro-growth economic policies and market-based reforms adopted during the Administration, as well as policy considerations that will further improve the long-term position of our economy and allow more Americans to realize the benefits of economic expansion in the future.

Record-high energy prices in 2008 highlighted our economy's dependence on fossil fuels and underscored the need to diversify our national energy portfolio. Although it will take time and major technological breakthroughs to substantially reduce our dependence on fossil fuels, the Administration has invested unprecedented levels of Federal resources and adopted a number of policies that have helped advance the economy's transition to new sources of energy while reducing local and regional pollutants in responsible ways that do not threaten our economic well-being (see Chapter 3).

Export performance was one of the bright spots in the economy over the past several years, and played an important role in offsetting other areas of weakness in the economy. The United States's continued commitment to open trade and investment policies will be an important factor in maintaining the international competitiveness and the dynamic nature of our economy (see Chapter 4). Lower tax rates have also contributed to economic performance by easing the burden on labor and capital and enabling firms, investors, and consumers to allocate resources more efficiently (see Chapter 5). These policies, which contribute to the increased flexibility of the economy, will be important in facilitating the economic recovery going forward. remains considerable opportunity to strengthen our economic position by eliminating the uncertainty surrounding tax relief that is scheduled to expire. In addition, rising health care costs and spending on entitlement programs are ongoing areas of concern, and the Administration has offered reforms that could substantially lower costs and improve our fiscal position (see Chapters 6 and 7). Education is essential to future prosperity, and the Administration has taken several steps to improve kindergarten through twelfth-grade education and to make college more affordable (see Chapter 8). Finally, as highlighted by the recent financial crisis, there are several areas in which regulatory reforms are necessary and appropriate to address market failures. The Administration has pursued market-oriented regulatory reforms that favor individual choice over Government decision making wherever appropriate, and this approach has proven effective in addressing market failures without imposing excessive costs on society or the economy (see Chapter 9).

Chapter 1: The Year in Review and the Years Ahead

Following 6 consecutive years of expansion of the U.S economy, the pace of real GDP expansion slowed in the first half of 2008 and turned negative in the second half. The Business Cycle Dating Committee of the National Bureau of Economic Research declared that the economy peaked in December of 2007, then began a recession that continued throughout 2008. Falling house prices initiated a cascade of problems that threatened the solvency of several major financial institutions and resulted in a major decline in the stock market. To respond to these problems, policymakers undertook a wide range of fiscal and monetary policy actions. Chapter 1 reviews the economic developments of 2008 and discusses the Administration's forecast for the years ahead. The key points of Chapter 1 are:

- Real GDP likely declined over the four quarters of 2008, ending a 6-year run of positive growth, as the slow growth in the first half of the year was eclipsed by what appears to be a sharp decline in the fourth quarter.
- Financial distress, which first became evident in mid-2007 in the market for mortgage-backed securities (MBS), continued through 2008 and affected a variety of markets. In the wake of the failure and near-failure of several major financial institutions in September 2008, financial stresses increased sharply to levels not seen during the post–World War II era.
- Payroll jobs declined during 2008, having peaked in December of 2007. Employment losses averaged 82,000-per-month during the first 8 months of 2008, before accelerating to a 420,000-per-month pace during the next 3 months. The unemployment rate was at 5 percent rate though April—a low rate by historical standards—but increased to 6.7 percent in November. Initial and continued claims for unemployment insurance moved up sharply over the course of the year.
- Energy prices dominated the movement of overall inflation in the consumer price index (CPI), with large increases through July, followed by a sharp decline during the latter part of the year. Core consumer inflation (which excludes food and energy inflation) edged down from 2.4 percent during the 12 months of 2007 to a 1.9 percent annual rate during the first 11 months of 2008. Food prices rose appreciably faster than core prices.
- Nominal hourly compensation increased 2.8 percent during the 12 months through September 2008 (according to the employment cost index), a gain that was undermined by the rise in food and energy prices, so that real hourly compensation fell 2 percent. In the long run, real hourly compensation tends to increase with labor productivity, although the correlation can be very loose over shorter intervals. Nonfarm business productivity has grown at an average annual rate of 2.6 percent since the business cycle peak in 2001.
- An economic stimulus was proposed by the President in January and passed by Congress in February, authorizing about \$113 billion in tax rebate checks to low- and middle-income taxpayers and allowing 50 percent expensing for business equipment investment. The stimulus likely boosted GDP growth in the second and third quarters above what it might have been otherwise, but its influence faded by the end of the year.
- The Administration's forecast calls for real GDP to continue to fall in the first half of 2009, with the major declines projected to be concentrated in the fourth quarter of 2008 and the first quarter of 2009. An active monetary policy and the Treasury's injection of assets into financial institutions are expected to ease financial stress and to lead to a

rebound in the interest-sensitive sectors of the economy in the second half of 2009. Also supporting growth during 2009 is the substantial recent drop in petroleum prices, which offsets some of the effects of the recent decline in household wealth. The unemployment rate is expected to increase to an average of 7.7 percent for 2009. The expansion in 2010-11 is projected to be vigorous, bringing the unemployment rate down to 5 percent by 2012.

Chapter 2: Housing and Financial Markets

In the summer of 2008, the disruptions in credit markets that began in 2007 worsened to the point that the global financial system was in crisis. The magnitude of the crisis required an unprecedented response on the part of the Government to limit the extent of damage to the economy and restore stability to the financial system. Chapter 2 reviews the origins of the crisis, its consequences, the Government's response, and discusses several policy challenges going forward. The key points of Chapter 2 are:

- The roots of the current global financial crisis began in the late 1990s. A rapid increase in saving by developing countries (sometimes called the "global saving glut") resulted in a large influx of capital to the United States and other industrialized countries, driving down the return on safe assets. The relatively low yield on safe assets likely encouraged investors to look for higher yields from riskier assets, whose yields also went down. What turned out to be an underpricing of risk across a number of markets (housing, commercial real estate, and leveraged buyouts, among others) in the United States and abroad, and an uncertainty about how this risk was distributed throughout the global financial system, set the stage for subsequent financial distress.
- The influx of inexpensive capital helped finance a housing boom. House prices appreciated rapidly earlier in this decade, and building increased to well-above historic levels. Eventually, house prices began to decline with this glut in housing supply.
- Considerable innovations in housing finance—the growth of subprime mortgages and the expansion of the market for assets backed by mortgages—helped fuel the housing boom. Those innovations were often beneficial, helping to make home ownership more affordable and accessible, but excesses set the stage for later losses.
- The declining value of mortgage-related assets has had a disproportionate effect on the financial sector because a large fraction of mortgage-related assets are held by banks, investment banks, and other highly levered financial institutions. The combination of leverage (the use of borrowed

- funds) and, in particular, a reliance on short-term funding made these institutions (both in the United States and abroad) vulnerable to large mortgage losses.
- Vulnerable institutions failed, and others nearly failed. The remaining institutions pulled back from extending credit to each other, and interbank lending rates increased to unprecedented levels. The effects of the crisis were most visible in the financial sector, but the impact and consequences of the crisis are being felt by households, businesses, and governments throughout the world.
- The U.S. Government has undertaken a historic effort to address the underlying problems behind the freeze in the credit markets. These problems, the subject of much of this chapter, are a sudden increase in the desire for liquidity, a massive reassessment of risk, and a solvency crisis for many systemically important institutions. The Government has worked to preserve the stability of the overall financial system by preventing the disorderly failures of important financial institutions; taken unprecedented action to boost liquidity in short-term funding markets; provided substantial new protections for consumers, businesses, and investors; and cooperated closely with its international partners.
- Looking forward, the global financial crisis presents several additional challenges for the U.S. Government. Among them are the need to modernize financial regulation, unwind temporary programs in an orderly fashion, and develop long-term solutions for the governmentsponsored enterprises (privately-owned, publicly-chartered entities) Fannie Mae and Freddie Mac.

Chapter 3: Energy and the Environment

Although fossil fuels will continue to constitute a large share of the Nation's energy portfolio for some time, the Administration has taken major steps to increase and diversify the Nation's energy supply and to improve the environment. Since 2001, significant investments have been made to develop cleaner and more reliable energy sources, and several regulatory changes are expected to deliver dramatic improvements in air quality nationwide. Chapter 3 reviews recent advances in energy and environmental policy and discusses several challenges associated with efforts to diversify the Nation's energy portfolio, to increase energy security, and to reduce emissions related to fossil-fuel based energy use. The key points of Chapter 3 are:

- Because of innovative regulations promulgated under this Administration, there should be substantial improvements in air quality over the next few decades. Two rules that implemented cap-and-trade programs in the electricity sector represent a significant step in using cost-effective, market-oriented policy instruments to dramatically reduce power plants' emissions of sulfur dioxide, nitrogen oxide, and mercury.
- Despite widespread support for using market-based approaches to achieve our environmental and energy policy goals going forward, challenges remain in realizing the full potential of these approaches.
- There is an increasing need to reassess how well existing laws can address the environmental problems associated with fossil fuel use in more costeffective ways. For example, it may become increasingly costly to make additional reductions in traditional air pollutants, and existing statutes that focus on local or regional pollutants were not designed to address global problems such as greenhouse gas (GHG) emissions.
- Substantial reductions in global GHG emissions will require participation by all large emitters (countries and sectors within countries).

Chapter 4: The Benefits of Open Trade and Investment Policies

The United States has one of the most open economies in the world, ranking very high in common measures of openness to trade and investment. In the long run, the benefits that open economic policies generate far outweigh the narrow, short-run perceived benefits of protectionist or isolationist policies. The more diffuse but larger benefits of open trade and investment policies to the general economy are often difficult to discern, especially in the short run, and are sometimes obscured by the more visible effects of protectionist policies on favored groups. This chapter discusses several key facts about trade and investment in the United States, the benefits of free trade and open investment, and the policies that the United States has taken to enhance both. The key points of Chapter 4 are:

- Openness to trade and investment has boosted U.S. economic growth. Openness can also reduce the impact of shocks and increase the resilience of the U.S. economy.
- The number of U.S. free trade agreements has increased greatly during this Administration, and these agreements have contributed to the growth in U.S. exports.

- Portfolio and direct investments into the United States reached historic levels over the past decade, in part due to the depth, diversity, and openness of U.S. financial markets and the competitiveness of U.S. firms.
- The United States has maintained an open investment policy, facilitating foreign direct investment flows between the United States and the world while addressing legitimate national security concerns.
- U.S. development and trade initiatives, as well as U.S. engagement in multilateral institutions such as the World Trade Organization and the World Bank, have helped increase growth and foster political and economic stability in developing countries throughout the world.
- Continued commitment to open economic policies throughout the world will help ensure continued economic gains for the United States and the rest of the world.

Chapter 5: Tax Policy

Several policy changes over the past 8 years have resulted in lower tax rates for both individuals and businesses, and specific incentives have been established to reduce the adverse tax consequences of certain desirable activities, such as running a small business or buying an alternative-fuel vehicle. Lower tax rates have increased the benefit of working and investing; in particular, lower tax rates on dividends and capital gains helped business investment expand, thereby helping firms increase worker productivity. Tax relief has contributed to the solid economic growth and job creation that prevailed over most of the past several years. The expiration of these tax reductions would have serious consequences for the U.S. economy. An additional challenge is to further reduce business tax burdens to encourage business investment in the United States in order to develop new jobs for U.S. workers and to continue improving our standard of living. The key points of Chapter 5 are:

- Taxes alter individual and business incentives and thus have the potential to distort their behavior. This Administration consistently fought to reduce tax burdens on individuals and businesses; tax rates are now much lower than they were just 8 years ago.
- Tax reductions over the past 8 years have improved incentives to work, save, and invest.
- Globally, nations compete for businesses and the associated jobs; the United States may need to reduce tax rates on businesses to remain competitive in today's world.

• Future goals should include permanently extending the tax relief of the past 8 years and reforming the Alternative Minimum Tax.

Chapter 6: The Long-Run Challenges of **Entitlement Spending**

Federal spending on entitlement programs is expected to increase dramatically in the coming decades, particularly for Social Security, Medicare, Taken together, these programs currently constitute 45 percent of Federal non-interest spending, and assuming no major changes to these programs, this share is projected to rise dramatically in coming decades. An aging population and rising health care spending per person are major reasons for these projected increases. The primary objective of this chapter is to highlight the budgetary challenges facing each of the three major entitlement programs and to outline possible strategies for addressing these challenges. The key points of Chapter 6 are:

- Federal entitlement spending is on an unsustainable path. Spending on the three major entitlement programs—Social Security, Medicare, and Medicaid—is projected to increase much faster than tax revenues or than the overall economy over the coming decades. Paying all scheduled benefits would eventually require substantial reductions in other Government spending, or major tax increases, or both.
- The aging population is a major cause of the expected increase, especially for Social Security, representing a permanent, as opposed to temporary, shift in the entitlement landscape. Currently, one out of six adults is age 65 or older; by 2020, one out of five adults will be 65 or older; and, by 2030, one out of four adults will be age 65 or older.
- The pay-as-you-go financing structure of Social Security, coupled with the aging population, creates a sizeable structural imbalance that will cause current and future generations of workers to bear increasing costs or receive smaller benefits than now scheduled, or both.
- Over the past 30 years, real per capita health care spending has grown considerably faster than real gross domestic product (GDP) per capita. Real growth in Medicare spending is being driven by increasing enrollment, greater utilization of more expensive high-technology medical treatments, and expansion of the goods and services covered by the program.
- Long-term care expenditures for low-income elderly and disabled persons represent a large and growing share of total Medicaid spending. The demand for long-term care is expected to grow in the United States

as a result of the aging population. In turn, this will place even greater financial strain on Federal and State budgets.

Chapter 7: Balancing Private and Public Roles in Health Care

Health care is one of the largest and fastest-growing sectors of the U.S. economy. While modern health care provides substantial benefits, there are growing concerns that its rising cost poses a threat to Americans' access to health insurance and medical care. The Administration has pursued several initiatives to encourage the efficient provision of health care through private markets and to improve access to affordable health care for individuals in the United States. This chapter provides an overview of U.S. performance with respect to the population's health status and spending on health care and discusses key efforts by the Administration to address issues of health care quality, cost, and access. The key points of Chapter 7 are:

- Health care spending is expected to grow rapidly over the next several decades, a trend that is driven by the increased use of high-technology medical procedures, comprehensive health insurance that decreases consumer incentives to shop for cost-effective care, rising rates of chronic disease, and the aging of the population in the United States.
- Markets for health care services can function more efficiently when payers, providers, and consumers have more complete information as well as incentives to use medical care that is clinically effective and of high value.
- Health insurance improves individuals' well-being by providing financial protection against uncertain medical costs and by improving access to care. Market-based approaches and innovative benefit designs can enable people to select coverage that best fits their preferences and to more actively participate in their own health care decision making.
- The Federal Government has an important role in investing in public health infrastructure, particularly with respect to improving the availability of community-based health care for the underserved, preparing for possible public health crises, supporting health-related research and development, and promoting global health improvement.

Chapter 8: Education and Labor

Long-term economic growth requires a productive workforce with the skills necessary to compete in a global labor market. The Administration's commitment to maintaining the high productivity of American workers is evident in successful education and training policies. A continued commitment to broader access to quality education and training will be required to meet the increasing worldwide demand for highly skilled labor. A workforce with better and more widely dispersed skills will ensure that workers enjoy higher incomes and will be a force in reducing income inequality in the United States. The United States also needs comprehensive reform of its immigration policies. The key points of this chapter are:

- Education benefits individuals through higher earnings, and it benefits society as a whole. Administration initiatives to improve kindergarten through twelfth-grade education, most notably the No Child Left Behind Act, are demonstrating clear, measureable results.
- Access to higher education was maintained through an expanded Pell Grant program and proactive efforts that helped protect Federally subsidized student loans from recent credit issues faced elsewhere in the economy.
- Despite a small decline in real median household income, which had begun prior to the Administration taking office, hourly earnings of workers outpaced inflation, and real per capita disposable income rose substantially during the past 8 years. Median household income increased steadily after the recovery began in earnest in 2004. Also, pension reforms were enacted to help protect retirement income.
- Income inequality and immigration reform must still be addressed. Strong support for education and a focus on workers' skills can help close income gaps. Reform of immigration policies must provide border security while allowing the economic benefits that immigrant labor provides to the economy.

Chapter 9: Economic Regulation

The private enterprise system, supported by consistent enforcement of laws protecting property and contracts, has been at the heart of the American economy's tremendous prosperity and growth. Although free markets produce the most efficient outcome in most cases, there are instances where government intervention can increase economic efficiency. Government regulation can improve economic outcomes where there are specific market failures that, for example, create negative externalities that impose costs on society or create harm from natural monopolies. At the same time, the Government's ability to create efficient regulation is limited and may create significant costs, which must be weighed against the potential benefits of addressing market failures. This chapter reviews several areas in which markets have been affected by Government policy in the past 8 years. The key points of this chapter are:

- Regulation is appropriate when, and only when, there is an important market failure that can be effectively addressed by the Government. For example, the Administration has taken steps to reduce restrictive regulation of broadband markets, preserving an environment conducive to innovation and new investment. Conversely, the Administration supported new rules for financial reporting when it became clear that existing laws did not adequately reduce information asymmetries between investors and management.
- When the Government intervenes to address market failures, it should attempt to take advantage of market-based incentives whenever possible. The Administration has helped ensure that scarce spectrum licenses are allocated more efficiently by increasing the amount of bandwidth allocated through auctions rather than through arbitrary allotments. In transportation, the Administration has supported market-based approaches to financing infrastructure such as roads and the air traffic control system.
- The Administration has endeavored to ensure that, when the government does intervene in markets, it does so in a way that supports the operation of competitive markets. When the market for terrorism insurance was disrupted following the attacks of 9/11, the Administration supported a temporary program of Federal support for terrorism insurance, and the Administration has insisted that subsidies be phased out as private insurers adapt and return to the market. By supporting tort reform, the Administration has helped reduce the scope for class action lawsuits that create costs that outweigh their social benefits.

The Year in Review and the Years Ahead

 Γ ollowing 6 consecutive years of expansion of the U.S economy, the pace of real GDP expansion slowed in the first half of 2008 and turned negative in the second half. Payroll jobs began to decline in January, following a record 52 months of continuous growth. The observed pattern of output, employment, and other key indicators led the Business Cycle Dating Committee of the National Bureau of Economic Research to declare that the economy peaked in December of 2007, beginning a recession that continued throughout 2008. The reorientation of the U.S. economy—which had been underway in 2006 and 2007—away from housing investment and consumer spending and toward exports and investment in business structures continued through the first three quarters of 2008. However, the reorientation was neither smooth nor graceful, as falling house prices initiated a cascade of problems beginning with mortgage delinquencies and falling prices of mortgage-backed securities. This eventually threatened the solvency of several major financial institutions and ultimately resulted in several failures and forced mergers along with a major decline in the stock market beginning in late September. To respond to these problems, policymakers have undertaken a wide range of actions during the year, including: personal tax rebates and bonus depreciation allowances for business (the Economic Stimulus Act of 2008, enacted in February); support for the housing market (the Housing and Economic Recovery Act of 2008 in July); large-scale investment in financial assets (the Emergency Economic Stabilization Act of 2008 in October); a reduction in the Federal funds rate from 51/4 percent in August 2007 to almost zero by December 2008; and the implementation of a variety of programs by the Treasury, the Federal Reserve, the Federal Deposit Insurance Corporation (FDIC), and other agencies to provide liquidity to financial institutions and to mitigate strains impairing the functioning of the overall financial system.

In the wake of mounting problems with the performance of *subprime* (higher risk) mortgages, financial markets became stressed beginning about August 2007 and became substantially more stressed after mid-September 2008. After a slight decline in real gross domestic product (real GDP, the total value of all goods and services produced in the United States after adjusting for inflation) in the fourth quarter of 2007, policy actions—including the enactment of a fiscal stimulus program and the initial round of Federal Reserve rate cuts—helped maintain positive real GDP growth in the first half of 2008. These actions likely delayed the downturn in output but were not sufficient to prevent the steep falloff in employment, production,

and aggregate spending that appears to have begun in mid-September. After the mid-September failure of Lehman Brothers (an investment bank), the emergency loans to AIG (an insurance company with extensive involvement in insuring mortgage-related securities), and the takeover of Washington Mutual (a savings bank with extensive mortgage-related assets), the global financial markets showed a sharp increase in perceived risk, and the stock market tumbled.

Inflation figures were mixed, with notable rises through mid-year in indexes that included food and imported energy products such as the consumer price index (CPI) and the price index for gross domestic purchases. A sharp decline in petroleum prices brought these prices down substantially by the end of the year. In contrast, inflation was less volatile for the broadest index of the goods and services produced in the United States (the GDP price index) and for most measures of wages and hourly compensation.

This chapter reviews the economic developments of 2008 and discusses the Administration's forecast for the years ahead. The key points of this chapter are:

- Real GDP likely declined over the four quarters of 2008, ending a 6-year run of positive growth, as the slow growth in the first half of the year was eclipsed by what appears to be a sharp decline in the fourth quarter.
- Financial distress, which first became evident in mid-2007 in the market for mortgage-backed securities (MBS), continued through 2008 and affected a variety of markets. In the wake of the failure and near-failure of several major financial institutions in September 2008, financial stresses increased sharply to levels not seen during the post-World War II era.
- Payroll jobs declined during 2008, having peaked in December of 2007. Employment losses averaged 82,000-per-month during the first 8 months of 2008 before accelerating to a 420,000-per-month pace during the next 3 months. The unemployment rate was at 5 percent though April—a low rate by historical standards—but increased to 6.7 percent in November. Initial and continued claims for unemployment insurance moved up sharply over the course of the year.
- Energy prices dominated the movement of overall inflation in the consumer price index (CPI), with large increases through July, followed by a sharp decline during the latter part of the year. Core consumer inflation (which excludes food and energy inflation) edged down from 2.4 percent during the 12 months of 2007 to a 1.9 percent annual rate during the first 11 months of 2008. Food prices rose appreciably faster than core prices.
- Nominal hourly compensation increased 2.8 percent during the 12 months through September 2008 (according to the employment cost index), a gain that was undermined by the rise in food and energy prices,

- so that real hourly compensation fell 2 percent. In the long run, real hourly compensation tends to increase with labor productivity, although the correlation can be very loose over shorter intervals. Nonfarm business productivity has grown at an average annual rate of 2.6 percent since the business-cycle peak in 2001.
- An economic stimulus package was proposed by the President in January and passed by Congress in February, authorizing about \$113 billion in tax rebate checks to low- and middle-income taxpayers and allowing 50 percent expensing for business equipment investment. The stimulus likely boosted GDP growth in the second and third quarters above what it might have been otherwise, but its influence faded by the end of the year.
- The Administration's forecast calls for real GDP to continue to fall in the first half of 2009, with the major declines projected to be concentrated in the fourth quarter of 2008 and the first quarter of 2009. An active monetary policy and Treasury's injection of assets into financial institutions are expected to ease financial stress and to lead to a rebound in the interest-sensitive sectors of the economy in the second half of 2009. Also supporting growth during 2009 is the substantial recent drop in petroleum prices, which offsets some of the effects of the recent decline in household wealth. The unemployment rate is expected to increase to an average of 7.7 percent for 2009. The expansion in 2010-11 is projected to be vigorous, bringing the unemployment rate down to 5 percent by 2012.

Developments in 2008 and the Near-Term Outlook

During the first three quarters of 2008, the economy continued the rebalancing that began in 2006, with strong growth in business structures investment and exports offsetting pronounced declines in homebuilding, while consumer spending edged lower by 0.6 percent at an annual rate. By the fourth quarter of 2008, however, most major indicators became sharply negative.

Consumer Spending and Saving

Real consumer spending stagnated in the first half of 2008 and then fell sharply in the third quarter in what was the largest quarterly decline since 1980. This was a major deceleration after the 2.8 percent average annual rate during the 2001-07 expansion. During these three quarters, motor vehicle purchases fell to 12.9 million units at an annual rate, a drop of 19 percent at an annual rate, having fluctuated around a 16-17 million unit average annual pace during the expansion. Energy purchases (which had edged up at

a 0.7 percent annual rate) declined at a 9 percent annual rate, finally reacting to the enormous increase in energy prices (relative to the price of the overall consumer basket) during the preceding 3 years. Other consumer spending (that is, outside of motor vehicles and energy) slowed to only a 1 percent annual rate of growth following a 3 percent average rate of growth during the preceding expansion. Consumer spending has continued to fall in the fourth quarter. Key factors influencing the evolution of consumer spending during the past year were the response to the multiyear increase in energy prices, the February stimulus package (see Box 1-1), and most importantly, the decline in household wealth during 2008.

Box 1-1: The Economic Stimulus Act of 2008

Policymakers moved quickly to address the slowing economy early in the year. The Federal Reserve cut the target Federal funds rate by 11/4 percentage points in January (following 1 percentage point of earlier cuts from August through December of 2007). The economic effects of monetary policy emerge more gradually then those of tax rebates, and so some fiscal stimulus from rebates was judged to be useful in supporting the economy in the short term. The Congress passed and the President signed the Economic Stimulus Act of 2008 in early February, only a few weeks after the President proposed it. The Act was designed to place money in the hands of those individuals and households who were most likely to spend it. The amount to be dispensed was about \$113 billion, or about 0.8 percent of GDP. Most of the money was dispensed between late April and early July, with the bulk of the disbursements (\$78 billion) in the second quarter.

Under this Act, the Treasury mailed checks ranging between \$300 and \$600 to taxpayers filing as individuals. Individuals who earned \$3,000 (the minimum amount under this Act) received a \$300 check; those who earned between \$3,000 and \$75,000 received a check for up to \$600. The formula phased out the payments at a rate of \$50 for every \$1000 of income in excess of \$75,000. (The figures for those filing as married couples were doubled.) Social Security and veterans payments were counted as earned income. The Act also included an allowance of \$300 for each child (under the age of 17 as of the end of 2007). Those who did not qualify for payments based on their 2007 income could qualify based on their 2008 income, with the benefit to be paid in early 2009.

Some academic studies, however, suggest that individuals would realize that these checks were a one-time event and that they would choose to spend this windfall over many years. Other studies suggest that individuals, especially those who were credit-constrained, would

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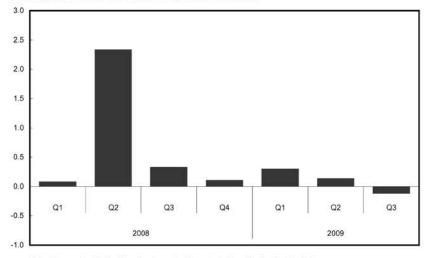
Box 1-1 — continued

spend most of the money as it came in. A macroeconomic model simulated the expected boost to the profile of real GDP on the estimate that about 70 percent of the funds would be considered temporary income (to be spent over a long time) and the remaining funds would be regarded as immediately spendable. The profile from that simulation, which also showed the boost from bonus depreciation (discussed below), is shown in chart 1-1. The model simulation suggests a 21/4 percentage point boost to the annual rate of real GDP growth in the second quarter. Because many of the rebate checks were delivered late in the second quarter, however, some of the second-quarter stimulus shown in the chart was considered likely to spill over into the third guarter.

Boost to Quarterly Real GDP Growth from the 2008 Fiscal Stimulus

The Economic Stimulus Act of 2008 was expected to boost second- and possibly third-quarter growth.

Percentage point difference from baseline GDP growth at an annual rate



Note: The nominal Federal Funds rate was held constant at baseline for the simulation. Source: Council of Economic Advisers.

The Act also authorized businesses to deduct 50 percent of the cost of investment equipment installed during 2008 from their 2008 taxes, a policy that is often referred to as bonus depreciation. The Act also expanded the limits for small business expensing, a policy that was expected to boost real GDP growth by about 0.2 percentage point during 2008. Bonus depreciation is valuable only to firms with positive profits,

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Box 1-1 — continued

however, and so the fourth-quarter plunge in output will likely reduce the ability of firms to take advantage of this program.

Whether or not the fiscal stimulus produced the intended effect cannot be determined from observed macroeconomic data alone because the path that GDP would have taken without the stimulus remains unknown. However, a recent study that examined the nondurable purchases of a large sample of consumers found that the spending of individuals rose at the time rebate checks were received. The study concluded that the stimulus checks had a significant effect on purchases and that these effects were more pronounced among low-income consumers.

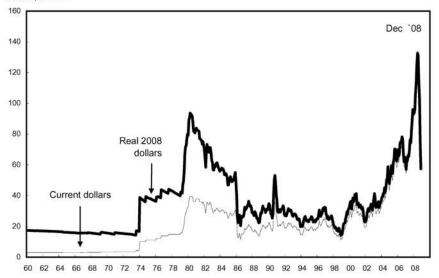
Energy Expenditures

Real energy consumption (that is, adjusted for increases in prices) increased slightly (4 percent) from 2001 through 2007, despite a cumulative 66 percent increase in the relative price of energy. The resulting increase in nominal energy spending through 2007 was not offset by a decline in nonenergy spending, and was one force that lowered the personal saving rate during these 6 years. As the relative price of energy increased another 15 percent during the first three quarters of 2008, real energy consumption finally fell 7 percent.

Oil prices skyrocketed to a peak monthly average of \$134 per barrel in June for West Texas Intermediate (WTI) (a benchmark grade of crude oil), almost double the price of a year earlier. The sharp rise in the price of oil (see Chart 1-1) reflected roughly unchanged world oil production in the face of rapid global economic growth. More than half of the increase in world oil demand over the past 5 years is accounted for by China. Over that period, production increases in Brazil, China, Canada, the Sudan, and the former Soviet Union were mostly offset by a large decline in North Sea production and reductions in U.S. and Mexican production. By December the price of WTI oil had fallen to about \$41 per barrel.

Because the U.S. imports about 3.7 billion barrels of oil per year, each \$10-per-barrel increase adds about \$37 billion to the national oil import bill. However, the economic consequences of the higher oil import bill during 2003-07 (when the price of WTI crude oil increased from a \$31-per-barrel annual average to a \$72-per-barrel annual average) were partially offset by an increase in demand for our exports (which grew at an average of 9 percent per year over this period). This increase in exports was partly a consequence of the same rise in foreign economic growth that caused the price of oil to increase. The additional \$66-per-barrel increase in the price of oil from June

Chart 1-1 Oil Prices: West Texas Intermediate Real oil prices reached record levels during the summer of 2008 before falling dramatically in the fall. Dollars per barrel



Note: Nominal oil prices were deflated with the PCE chain-type price index to arrive at real oil prices. Sources: Wall Street Journal and Department of Commerce (Bureau of Economic Analysis).

2007 to June 2008 was larger than the entire increase during the preceding 4 years and added roughly \$245 billion to the national import bill. This rise in cost was reversed by an even larger decline from June through December, with the price decline attributable to the drop in energy demand due to a worldwide decline in economic activity.

Wealth Effects on Consumption and Saving

The decline in value for housing wealth and, even more importantly, stock-market wealth were among the most important influences on consumer behavior during 2008. Changes in real wealth and real consumer spending are correlated, as can be seen in Chart 1-2. The interrelationship between wealth and consumer spending is far from perfect (at least in part because many other factors influence spending). The relationship is nevertheless statistically significant whether or not other related factors such as income and lagged values are included. Household wealth peaked in the second quarter of 2007, when it reached a level that was worth 6.3 years of disposable income. Housing and stock market wealth fell over the next five quarters; by the end of the third quarter of 2008 (the most recent official data available), the wealth-to-income ratio had fallen by 1.0 year of income. The continued stock market declines in October and November, together with the downward trend in house prices, suggest that the wealth-to-income ratio dropped

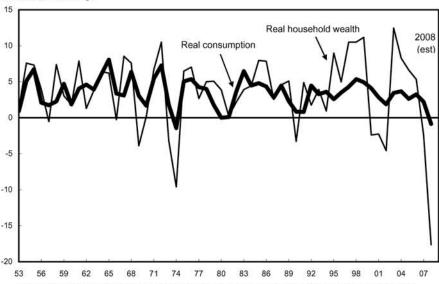
a further 0.5 year in the fourth quarter. As a result, the cumulative decline in the wealth-to-income ratio now appears to be about 1.5 years of income.

Most of the drop in household wealth is related to the stock market decline. In dollar terms, household net worth fell about \$7 trillion between the second guarter of 2007 and the third guarter of 2008. Most of this decline was accounted for by the stock market, while the erosion of housing wealth was about one-half as large as that of the stock market. Other components of wealth (a category that includes consumer durables, credit market instruments, and equity in nonfinancial business, among others) were roughly unchanged over this five-quarter period.

Projected Consumer Spending

Consumer spending tends to rise and fall along with wealth (as illustrated in chart 1-2). A statistical analysis of the relationship between consumer spending, income, wealth, and other variables suggests that about 5 percent of wealth is spent every year. If this is so, the recent decline in the wealthto-income ratio (of about 1.5 years of income) appears likely to reduce the consumption-to-income ratio and to raise the saving rate by roughly 7 percentage points over time. During the three years from 2005 to 2007, the saving rate averaged 0.5 percent, and so it appears that the saving rate will

Chart 1-2 Real Consumption and Real Wealth Real consumer spending fluctuates with real wealth. Q4-to-Q4 percent change



Notes: Data for the fourth quarter of 2008 are CEA estimates. Household wealth deflated by the PCE price index. Sources: Department of Commerce (Bureau of Economic Analysis) and Federal Reserve Board

probably move up gradually towards 7 percent—barring any sizable recovery in the stock market. A saving rate at this level would return the saving rate to the same level as for the 10-year period through 1985 (that is, before the run-up in the stock market in the late 1990s). To get there from the third quarter saving rate of 1.1 percent, however, would require substantially slower growth in consumer spending than in income. Thus, it seems likely that real consumer spending will continue to fall during the fourth quarter of 2008 and early in 2009. A rebound in the stock market would, of course, make this adjustment easier, as the saving rate would not have to rise by the full 7 percentage points. If a stock market rebound does not occur, consumption growth will likely remain weak into 2010.

Residential Investment

Residential investment continued into its third year of decline in 2008. Major measures of housing activity moved lower over the course of the year, with housing starts falling to an average annual rate of 740,000 units during the three months through November, a huge decline from the 2.1 million unit annual rate at its peak in the first quarter of 2006. The drop in home construction now appears to have subtracted an average of 0.75 percentage point from the annual rate of growth of real GDP, similar to the subtraction during 2006 and 2007.

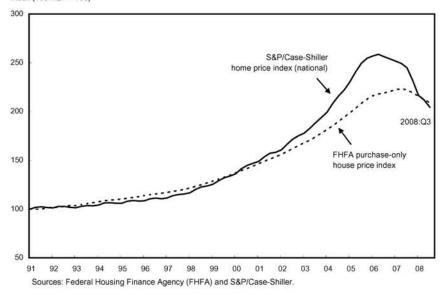
Housing prices peaked in the second quarter of 2007, as measured by the purchase-only index published by the Federal Housing Finance Authority (FHFA, formerly the Office of Federal Housing Enterprise Oversight). From that peak through the latest available data (the third quarter of 2008), housing prices have declined 6.5 percent (see Chart 1-3). According to the S&P/Case-Shiller index, which peaked earlier (in the second quarter of 2006) and subsequently declined 21 percent, the recent decline, as well as the earlier run-up, is more accentuated. (See Box 1-2 on the relative merits of the two house price indexes).

Further declines in home construction seem likely through at least the first half of 2009, as builders' confidence has fallen to the lowest level on record and the secondary market for housing-related securities continues to be thin. The Administration forecasts a steady uptrend in housing starts during the next 5 years, with the annual rate of starts gradually increasing so that by 2013 starts would reach 1.8 million units. This reflects, among other factors, a return to steady income growth, an easing of lending standards, and improved credit availability. The pace of the expected housing recovery has some upside risk. The number of unsold new houses has fallen to about 400,000 units, about the level of 2003 and 2004, even though the ratio of unsold new homes to the current selling pace remains near its record high. If and when aggregate demand accelerates, housing starts would easily be pulled upward.

Chart 1-3 FHFA versus S&P/Case-Shiller Home Price Index

Both house price indexes increased at an average rate of 5.5% per year from 2000 to 2008, but the Case-Shiller Index increased faster during 2000-06 and fell faster thereafter.

Index (1991:Q1 = 100)



Box 1-2: Different Measures of House Prices

Both the FHFA purchase-only index and the S&P/Case-Shiller index have merit and use similar methods, but they cover different types of mortgages and have different regional coverage. As a result, each may have advantages in different contexts. Both are based on a methodology of observing pairs of sales of the same house over a span of years. The FHFA index is limited to homes purchased with conforming mortgages (that is, mortgages that conform to the maximum size and minimum downpayment standards set by Fannie Mae or Freddie Mac). In contrast, the S&P/Case-Shiller index collects data from a sample of homes that includes nonconforming as well as conforming mortgages. Each house gets an equal weight in the FHFA index, while more expensive houses are assigned larger weights in the S&P/Case-Shiller index. Of the two indexes, the FHFA index has the broadest national geographic distribution, while the Case-Shiller index has no data for 13 States and incomplete data for another 29 States.

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Box 1-2 - continued

The contrasting path of house prices as measured by these two indexes during the past decade is informative. By relying on conforming mortgages only, the FHFA index may provide a more stable picture of house prices during a period when the mix of mortgages changed toward the nonconforming types (subprime and jumbo, for example) and then back again. (This may be relevant if the type of mortgage is correlated with the price of the house.) On the other hand, the S&P/Case-Shiller index better illustrates the price path of all houses regardless of mortgage type and mortgage size. The contrast between the two indexes suggests that the runup in housing prices may have been larger for homes purchased with nonconforming mortgages and perhaps with jumbo mortgages. As the share of nonconforming mortgages fell sharply over the past 2 years, the two indexes are likely relying on more similar samples in 2008, and as a result, the recent larger decline in the S&P/Case-Shiller index may partly reflect a falling back to earth after having been temporarily elevated by higher prices for homes purchased with nonconforming mortgages. One study suggests that the inclusion of subprime mortgages in the S&P/Case-Shiller index accounts for a substantial share of the index's deeper decline. The larger increase and subsequently larger decline in the S&P/Case-Shiller index may also reflect larger price movements among more expensive homes.

Business Fixed Investment

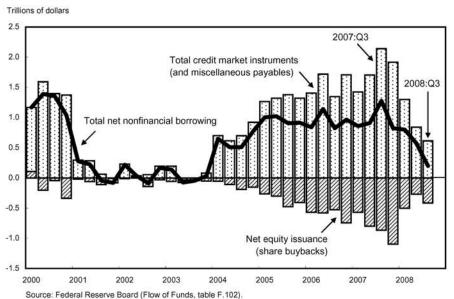
During the first three quarters of 2008, real business investment in equipment and software fell 4.4 percent at an annual rate, down from 2.8 percent growth in 2007. Growing categories included software (2.4 percent), communication equipment (5.2 percent), and agricultural equipment (27 percent), while investment in industrial equipment fell 4.0 percent. Investment in transportation equipment (which includes motor vehicles and aircraft) was particularly weak, falling 37 percent at an annual rate through the third quarter, with the sharpest drop seen in the light trucks category.

In contrast to residential investment, real business investment in nonresidential structures grew at a strong 12 percent annual rate through the third quarter of 2008. The gains during 2008 made it the third consecutive year of strong growth, which was a marked reversal from the weakness during the period from 2001 to 2005. Nearly 65 percent of total growth in nonresidential structures was accounted for by manufacturing structures and petroleum and natural gas exploration and wells.

Access to the credit markets to support investment became more difficult for nonfinancial corporations during 2008. The flow of new external funds (credit market instruments such as bond issues, commercial paper, and bank loans) in the fourth quarter of 2007 was about \$1.9 trillion (the positive bars in Chart 1-4); it then fell by \$1.3 trillion by the third quarter of 2008. Despite this drop in the flow of external funds, firms were able maintain solid investment by cutting back on programs to buy stock in their own company (by \$700 billion, the negative bars in Chart 1-4) so that the total funds raised in all capital markets fell only \$600 billion (the solid line in Chart 1-4). These share buyback programs had reached record levels during the period from 2004 through 2007. However, by the third quarter of 2008—when the major financial stress began—share buybacks had diminished to only \$410 billion, so that this "source" of internal funds had been mostly exhausted.

Business investment growth is projected to decline in 2009, a projection that is based partially on the high level of interest rates on corporate bonds. It is also partially based on the pattern of business investment reacting to the change in output growth. That is, following the decline in output in late 2008, investment in 2009 is likely to fall. Later, the expected acceleration of real GDP in late 2009 and 2010 is expected to result in rapid growth of business investment. In the longer run, real business investment is projected to grow at about the same rate as real GDP.

Chart 1-4 Nonfinancial Corporate Sector Net Borrowing by Type
Loans and other credit market issues to nonfinancial corporations declined during 2008, but firms were
able to cushion the effect on investment by scaling back their share buyback programs.



Business Inventories

Inventory investment fell during the first three quarters of 2008 and had a noticeable influence on quarter-to-quarter fluctuations in real GDP, subtracting 1½ percentage points from growth in the second quarter. Inventories of motor vehicles on dealer lots were an important contributor to these fluctuations as these inventories were liquidated during the first half of 2008 and were increased slightly in the third quarter. Inventories of other goods outside of the motor vehicle sector were liquidated in each of the first three quarters of the year.

The overall ratio of inventories to sales has come down substantially since 2001. The inventory-to-sales ratio for manufacturing and trade (in current dollars) fell in the first half of 2008 before rising during the 3 months through October. Firms could soon find themselves with more inventory than they need if (as expected) sales continue to fall over the next few months. As a consequence, inventories are likely to be liquidated in the near term. Even so, a drop in inventory investment is not likely to be as dominant in the current downturn as it was in most of the post—World War II recessions because of the fairly lean inventory position relative to sales at the outset of this recession. In the long term, inventory investment is projected to be fairly stable, and the overall inventory-to-sales ratio is expected to continue to trend lower.

Government Purchases

Nominal Federal revenues (that is, in current dollars) fell 2 percent in fiscal year (FY) 2008, following 7 percent growth in FY 2007. The decline in revenues can be attributed partly to slowing economic growth (a key determinant of tax receipts), as well as reduced Federal tax revenues due to the tax rebate provisions of the Economic Stimulus Act of 2008. Coupled with declining revenues, a 9 percent increase in outlays resulted in an increase in the Federal budget deficit to 3.2 percent of GDP in FY 2008, up from 1.2 percent in FY 2007.

Through several appropriations acts, the Congress provided a total of \$192 billion for the wars in Iraq and Afghanistan in FY 2008. One of these acts, the Supplemental Appropriations Act of 2008, also provided \$68 billion in bridge funding for FY 2009.

Real State and local government purchases rose at a 1.2 percent annual rate during the first three quarters of 2008, down from 2.4 percent in 2007. State and local tax revenues slowed in 2008, as receipts from personal income taxes, sales taxes, and property taxes decelerated, while corporate tax receipts fell. Notably, property tax revenue, which had grown at a 6 percent annual rate each year in 2004, 2005, and 2006, slowed to a 2.6 percent annual rate of growth through the third quarter of 2008. Over the same period, receipts from sales taxes edged up only 0.1 percent at an annual rate.

The State and local government sector fell into deficit during 2008, reaching \$109 billion or 0.8 percent of GDP, by the third quarter, the largest operating deficit on record. On average, State and local government operating budgets have been in surplus during the post-World War II period. In 2009 and 2010, only slow growth—if any—can be anticipated for this sector's consumption and gross investment. This decline results from the deterioration in their tax base, as reflected in falling home prices, declining consumer spending, and slowing growth in personal income. Property tax receipts and sales tax revenues each represent slightly more than 20 percent of State and local government revenues: Federal grants constitute another 20 percent; personal income tax receipts account for about 15 percent, while corporate tax collections constitute only 3 percent. A variety of fees, transfers, and incomes account for the remaining 18 percent.

Exports and Imports

Real exports of goods and services grew at a 7 percent annual rate during the first three quarters of 2008, following solid growth of at least 7 percent over the preceding 4 years. The rapid pace of export expansion over the past 5 years coincided with strong foreign growth from 2003 to 2007, as well as changes in the terms of trade between 2002 and mid-2008 that made American goods cheaper relative to those of some other countries. Recently, however, economic growth among our major trading partners has slowed considerably, with the Euro zone, Japan, and Canada posting negative growth. Because foreign growth and U.S. exports are closely related, the global economic slowdown will likely weigh on U.S. exports in the future.

By region, export growth during 2008 was strongest to Latin American countries, rising at a 24 percent annual rate through the third quarter. The European Union (EU) remains the major overseas destination for U.S. products and services, consuming about 25 percent of our exports. By country, Canada accounts for the largest share of U.S. exports, at about 16 percent. Mexico purchases 10 percent of our exports; Japan, 6 percent; and China, 5 percent.

Real imports fell at a 3.9 percent annual rate during the first three quarters of 2008; the last year of decline before that was 2001. The decline in real imports was especially pronounced among petroleum products, which fell 12 percent at an annual rate, pushed down by high prices and slowing domestic economic activity over this period. Due to rapidly rising petroleum prices through the first half of the year, nominal imports of petroleum products rose at a 46 percent annual rate. Oil prices have since receded dramatically, which will greatly reduce growth in nominal petroleum imports in coming quarters. Nonpetroleum import prices also increased substantially (6.6 percent during the four quarters through the third quarter of 2008), which may also have restrained the level of imports.

The current account deficit (the excess of imports and income flows to foreigners over exports and foreign income of Americans) averaged 5.0 percent of GDP during the first three quarters of 2008, down from its 2007 average of over 5.3 percent. The decline in the current account deficit reflects faster growth in exports relative to imports, although domestic investment continues to exceed domestic saving, with foreigners financing the gap between the two.

Employment

The employment situation deteriorated during 2008, mirroring weakness in other sectors. The pace of job growth appears to have had two phases: a period of moderate job losses, at an average rate of 82,000 per month from January through August, followed by a steeper decline at an average rate of 420,000 per month in September, October, and November. Nonfarm payroll employment fell 1.9 million jobs during the first 11 months of the year. The unemployment rate rose 1.7 percentage points over the same period, reaching 6.7 percent. Initial claims for unemployment insurance rose to an average of about 550,000 per week in December, up from the 2007 average of 320,000 per week.

Job losses during the first 11 months of 2008 were concentrated in construction, manufacturing, and temporary help services. manufacturing and construction account for only about 15 percent of total employment, they accounted for nearly 60 percent of the overall decline in nonfarm jobs during 2008. Construction employment has been declining as a result of continued weakness in the housing market, and manufacturing employment has been on a downward trend as a share of overall employment for the past five decades. Temporary help services, which account for only 2 percent of employment, accounted for 21 percent of the year's job losses. Retailing also posted a notable decline. One bright spot in the employment picture has been education and health services, which added 505,000 jobs through November.

Changes in unemployment differed by education level, race, and gender over the year. Through November, the unemployment rate had risen for workers of all education levels; it increased 0.9 percentage point for those holding at least a bachelor's degree, 1.8 percentage points for those with some college, 2.1 percentage points for those whose education ended with a high school degree, and 2.9 percentage points among those who did not finish high school. By race and ethnicity, the unemployment rate for African Americans rose by 2.2 percentage points and was about 5 percentage points

above the rate for Caucasians, a smaller margin than during most of the past 35 years. The unemployment rate among Caucasians rose 1.7 percentage point, among Hispanics rose 2.3 percentage points, and among Asian Americans rose 1.1 percentage points. By gender, the jobless rate for adult men rose 2.1 percentage points to 6.5 percent, and the rate for adult women rose by 1.1 percentage point to 5.5 percent. The median duration of unemployment increased to 10.0 weeks in November from 8.4 weeks at the end of 2007. The number of long-term unemployed (those who are jobless for 15 weeks or more) rose by 1.4 million over the same period.

The Administration projects that employment will decline during the four quarters of 2009, with the job losses likely to be largest early in the year. As the expected recovery strengthens in 2010, job growth is anticipated to pick up to 222,000 jobs per month. In the longer run, the pace of employment growth will slow, reflecting diminishing rates of labor force growth due to the retirement of the baby-boom generation. The Administration also projects that the unemployment rate will increase from 2008 to a 7.7 percent annual average in 2009 as a whole, before returning to roughly 5 percent in 2012, the middle of the range consistent with stable long-run inflation.

Productivity

Nonfarm productivity growth has averaged 2.5 percent at an annual rate since 1995 (see Chart 1-5). The best estimate of the productivity growth rate over the next 6 years is 2.4 percent, which is slightly below the 2.5 percent long-term (that is, post-1995) rate. Different measures of recent productivity growth are discussed in Box 1-3. Compared with last year's projection, this projected rate of growth has been revised down 0.1 percentage point. The downward revision is a consequence of the downward adjustment to output and productivity in the annual revision to the national income and product accounts.

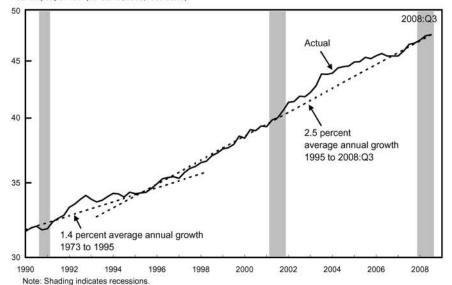
Prices and Wages

Headline inflation rose and then fell during 2008, although key indicators of inflation trends were fairly stable. As measured by the overall consumer price index (CPI), the 12-month rate of inflation moved up to 5.6 percent for the 12 months through July, up from the 4.1 percent during the 12 months of 2007 (Chart 1-6). The acceleration was due to increases in food and energy price inflation. By November, however, the 12-month rate of overall CPI inflation had fallen to 1.1 percent. The 12-month change in the core CPI (which excludes the volatile food and energy components) fluctuated in a more narrow range, peaking at 2.5 percent during the third quarter, but edging down to 2.0 percent by November.

Chart 1-5 Output per Hour in the Nonfarm Business Sector

Productivity has trended up at an average annual rate of 2.5% since 1995.

Real output per hour (constant \$2000, ratio scale)



Sources: Department of Commerce (Bureau of Economic Analysis) and Department of Labor (Bureau of Labor Statistics).

Box 1-3: Alternate Measures of Productivity Growth

Productivity growth can be projected by extrapolating its behavior over the recent past. But using which measure? According to the official index, which measures output from the product-side (spending) components of GDP, productivity growth picked up slightly from the 1995-2001 period (2.4 percent) to the 2001-08 period (2.6 percent at an annual rate), as shown in the following table. In contrast, an alternative measure of nonfarm output, derived from the income side of the national income and product accounts, shows a deceleration in productivity between the two periods to a 2.1 percent annual rate of increase over the period 2001-08. The income- and product-side measures of GDP differ by measurement error only, and the truth is likely to be somewhere in between. Both measures show a 2.5 percent annual average growth rate over the entire 1995-2008 interval.

continued on the next page

Box 1-3 - continued

Productivity Growth in the Nonfarm Busines Sector: Income- and Supply-Side Measures

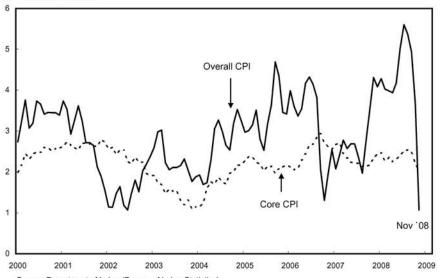
later of	Average Annual Percent Change			
Interval	Product-Side (official)	Income-Side		
1995:Ω2 to 2001:Ω1	2.4%	3.1%		
2001:Ω1 to 2008:Ω3	2.6%	2.1%		
1995:Q2 to 2008:Q3	2.5%	2.5%		

Sources: Department of Commerce (Bureau of Economic Analysis), Department of Labor (Bureau of Labor Statistics), income-side calculations by the Council of Economic Advisers.

Chart 1-6 Consumer Price Inflation

The increase in overall CPI inflation through mid-2008 was due to rising food and energy price inflation. A late 2008 drop in energy prices reversed much of the earlier increase. Core inflation was more stable.

12-month change (percent)



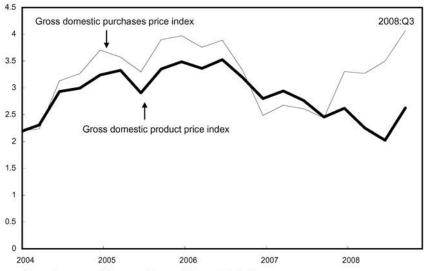
Energy prices increased rapidly in the second half of 2007 and in the early part of 2008 before peaking in July, when the 12-month rate of change reached 29 percent. Among the various energy products, prices of gasoline and heating oil increased the most rapidly during this period (reflecting the price of crude oil on world markets), but prices of electricity and natural gas also moved up sharply. Energy prices came down sharply during the 4 months from July to November, when consumer prices of petroleum products fell 41 percent (not at an annual rate). The rapid decline reflects the sharp fall in the price of crude oil; prices of West Texas Intermediate plunged from an average of \$134 per barrel in June to roughly \$41 per barrel in December.

Rapidly rising import prices were another factor boosting inflation early in the year and also holding it down later. Nonpetroleum import prices rose nearly 8 percent during the twelve months though July, before falling during the next 4 months. The pattern reflects the exchange value of the dollar, which depreciated in 2006, 2007, and during the first 3 months of 2008 before rebounding later in the year.

The effect of import prices appears clear in the contrast between the rate of inflation for the goods and services that Americans buy and the rate of inflation for what Americans produce (see Chart 1-7). The rate of inflation for the goods and services that Americans buy (measured by the price of gross domestic purchases) moved up from the year-earlier pace, in contrast to the less volatile rate of inflation for gross domestic product.

Chart 1-7 Gross Domestic Product and Gross Domestic Purchases Price Indexes The price index for gross domestic purchases has increased more rapidly than the price index for gross domestic product over the past year due to rising prices for imported food and energy products.

Four-quarter change (percent)



Source: Department of Commerce (Bureau of Economic Analysis).

Food prices advanced notably faster than core prices for the second consecutive year. During the first 10 months of 2008, food prices increased 6.5 percent at an annual rate following a 5 percent increase during the 12 months of 2007. The increase was a worldwide phenomenon and likely reflects several factors, including rapid growth in developing countries in the first half of 2008, crop shortages and increased production of biofuels as well as higher energy prices being passed through to consumers.

Growth in nominal hourly compensation edged down slightly. Privatesector hourly compensation increased at a 2.6 percent annual rate during the first 9 months of 2008, down slightly from 3.1 percent during 2007. Slightly diminished gains in benefits as well as wages and salaries account for the deceleration. Gains in real hourly wages of production workers rose 3.4 percent at an annual rate during the first 11 months of the year, following a 0.7 percent decline during the 12 months of 2007, when nominal wage gains were undermined by rapidly rising food and energy prices.

Despite the relative stability of several key measures of inflation (hourly compensation, the core CPI, and the GDP price index), a measure of consumers' inflation expectations moved up and down during the year in a way that suggests that it was influenced by volatile energy and nonpetroleum import prices. One-year-ahead median inflation expectations (as measured by the Reuters-University of Michigan survey) rose from 3.4 percent at the end of 2007 to about 5 percent in midyear, before falling to 1.7 percent in December. Longer-term inflation expectations were less volatile but also moved up and then down in a similar fashion in the 2.6 to 3.4 percent range.

Financial Markets

The Wilshire 5000 (a broad stock market index) fell 39 percent during 2008, and the Standard and Poor (S&P) 500 (an index of the 500 largest corporations) suffered a similar decline. This decline erased the cumulated increases over the preceding 5 years. The Wilshire index slipped 16 percent through September 16, but then tumbled another 40 percent through November 20, before recovering a bit in late November and December. The S&P index of financial stocks fell by 57 percent in 2008.

Yields on 10-year Treasury notes ended 2007 at 4.10 percent—at the low end of the historical range—and fell another 170 or so basis points during 2008 with much of the decline coming in November and December. The low level of these long-term interest rates was due in part to a likely flight to the quality of these secure assets relative to others in the private and international markets during the recent market turmoil. Rates also fell toward the end of the year as market participants revised down the expected path of the Federal Reserve's target rate.

The Administration's forecast of short-term interest rates was roughly based on the expected path of Federal funds rates in the futures market (where participants place "bets" on future rates) as of November 10, the date that the forecast was developed. The near-term interest rate forecast has been overtaken by more recent events as interest rates have fallen notably since the forecast was finalized. Whatever the starting point, the Administration projects the rate on 91-day Treasury bills to edge up gradually to 3.9 percent by 2012 and then remain at that level. At that level, the real rate (that is, the nominal rate less the rate of inflation) on 91-day Treasury bills would be close to its historical average.

The yield on 10-year Treasury notes on November 10 was 3.8 percent. The decline in this yield during the subsequent month means that this nearterm forecast has also been overtaken by events. The Administration expects the 10-year rate to increase, eventually reaching a normal spread of about 1.2 percentage points over the 91-day Treasury-bill rate by 2012. Market participants also appear to expect an increase in yield as evidenced by the higher-than-average spread between the rate on 20-year Treasury notes over rates on notes with 10-year maturities. As a result, yields on 10-year notes are expected to increase, to 5.1 percent by 2012 and then to plateau at this rate for the remainder of the forecast.

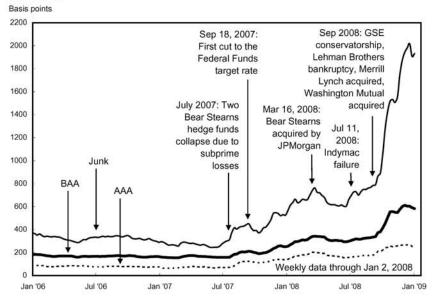
One measure of increasing financial stress is the premium that private borrowers have had to pay relative to the rates on 10-year government notes (see Chart 1-8). This premium began rising around August of 2007. Rates on the highest-quality corporate bonds have increased 170 basis points since August 2007. Rates on BAA-rated corporate borrowers have increased more than 400 basis points, while rates on high-risk ("junk") bonds have skyrocketed.

Financial stress also became evident in other ways. The rate that international banks lend to each other (as measured by the London interbank offered rate, LIBOR) soared to an unprecedented premium over Treasury rates beginning in September. For 3-month maturities, this premium that had averaged 114 basis points during the first 8 months of the year jumped to 273 basis points in the second half of September and remained high in October and November, but fell to 135 basis points by year-end. The Federal Reserve's survey of senior loan officers also shows a tightening of lending standards for all private borrowers.

One consequence of the rising spreads for corporate debt is that the sharp drop in the target Federal funds rate (from 5.25 percent in August 2007 to a range of 0 to 0.25 percent in December 2008) has not translated into lower rates for corporate borrowers. The rising rates for corporate bonds and the troubled market for interbank lending means that two major channels for monetary policy (lower interest rates to encourage investment and lower rates

Chart 1-8 Corporate Bond Spreads

Corporate bond yields have risen dramatically relative to 10-year Treasury-notes as a result of the credit crunch.



Sources: Moody's, Merrill Lynch, and the Treasury Department.

to boost consumer spending indirectly by raising the value of fixed income and equity assets) are not working as they have in the past. Chapter 2 of this Report discusses financial market developments in greater detail.

In view of how the stress in financial markets has interfered with the Federal Reserve's primary policy tool (the Federal funds rate), the Federal Reserve has responded by developing a range of programs to provide liquidity to support market functioning, thereby improving credit conditions for businesses and households. These include programs to provide liquidity directly to nondepository financial institutions (such as the Primary Dealer Credit Facility and the Term Securities Lending Facility) and programs to support the functioning of particular financial markets (such as the Asset-backed Commercial Paper Money Market Mutual Fund Liquidity Facility, the Commercial Paper Funding Facility, and the Term Asset-Backed Securities Loan Facility). These programs are allowed under section 13-3 of the Federal Reserve Act, which authorizes the Federal Reserve banks to make secured loans to entities under "unusual and exigent circumstances," provided that these entities are not able to secure funding from other banking institutions. In addition, the Federal Reserve has announced programs to buy substantial quantities of securities, including direct obligations of, and mortgage-backed

securities issued by, the housing-related government-sponsored enterprises (GSEs). The Federal Reserve has also indicated that it is evaluating the potential benefits of purchasing longer-term Treasury securities.

The Long-Term Outlook Through 2014

After 6 years, the expansion ended in December 2007, and real GDP fell in the second half of 2008. Real consumer spending—a sector that constitutes two-thirds of GDP—is in the process of reacting to the substantial declines in wealth that began earlier in the year and cascaded in the fourth quarter. As a result, the Administration projects that after recording modest growth in the first half of 2008, real GDP contracted in the second half, with a sharp decline in the fourth quarter. The contraction is projected to continue into the first half of 2009, followed by a recovery in the second half of 2009 that is expected to be led by the interest-sensitive sectors of the economy. The overall decline, from the second-quarter level of GDP to the quarter with the lowest real GDP, is projected to slightly exceed the depth of the average post-World War II recession. This pattern translates into a small decline during the four quarters of 2008, followed by a small increase during 2009 (see Table 1-1). Reflecting the drop in real GDP, the unemployment rate is projected to increase to an annual average rate of 7.7 percent in 2009. The higher-than-normal level of slack is expected to put some downward pressure on the rate of inflation. Overall CPI inflation is projected at 1.7 percent in 2009 and 2010, a rate that appears plausible in view of the 2.0 percent change for the core CPI over the 12 months through November. Payroll employment is projected to fall during 2009 before rebounding in 2010. The 2009 forecasts for real GDP and inflation are similar to the consensus forecasts for those variables.

Downturns are eventually followed by recoveries, and historically the strength of a recovery appears to be loosely correlated with the depth of the preceding recession (see Chart 1-9). Moreover, the slope of the regression line in the scatter diagram indicates that—to the extent that a recession is deeper than the average—most of the excess depth is offset within the first four quarters of the recovery. During the 2 years following a recession, real GDP growth has averaged almost 5 percent, similar to the recovery anticipated in the Administration forecast for 2010 and 2011. The 5 percent growth rates in 2010 and 2011 would lower the unemployment rate from its projected 2009 peak to 5 percent, the center of the range consistent with stable inflation, in 2012.

Table 1-1.—Administration Economic Forecast¹

Year	Nominal GDP	Real GDP (chain- type)	GDP price index (chain- type)	Consumer price index (CPI-U)	Uemploy- ment rate (percent)	Interest rate, 91-day Treasury bills ² (percent)	Interest rate, 10-year Treasury notes (percent)	Nonfarm payroll employ- ment (average monthly change, Q4-to-Q4, thou- sands ³		
	Percent change, Q4-to-Q4				Level, calendar year					
2007 (actual)	4.9	2.3	2.6	4.0	4.6	4.4	4.6	104		
2008	2.4	-0.2	2.5	2.8	5.7	1.4	3.8	-114		
2009	2.2	0.6	1.7	1.7	7.7	0.7	4.2	-235		
2010	6.6	5.0	1.5	1.7	6.9	2.0	4.6	222		
2011	6.5	5.0	1.5	1.8	5.8	3.5	4.9	269		
2012	5.1	3.4	1.6	1.9	5.0	3.9	5.1	261		
		2.7	1.7	2.0	5.0	3.9	5.1	121		
2013	4.5	Z.1	1.7	2.0	0.0	0.0]			

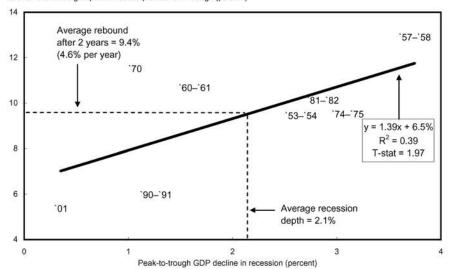
¹Based on data available as of November 10, 2008.

Sources: Council of Economic Advisers, Department of Commerce (Bureau of Economic Analysis and Economics and Statistics Administration), Department of Labor (Bureau of Labor Statistics), Department of the Treasury, and Office of Management and Budget.

Chart 1-9 Recessions and Recession Recoveries

GDP growth over the eight quarters following a recession tends to be higher after more severe recessions.

Growth over the eight quarters subsequent to GDP trough (percent)



Note: Datapoint labels indicate year of recession. The depth of recession is measured from the peak GDP quarter to the minimum GDP quarter. The recovery is the eight-quarter growth from that minimum-GDP quarter. Source: Department of Commerce (Bureau of Economic Analysis).

² Secondary market discount basis.

 $^{^3}$ The figures do not reflect the upcoming BLS benchmark which is expected to reduce 2007 and 2008 job growth by a cumulative 21,000 jobs.

Growth in GDP over the Long Term

The Administration forecast is based on a projection that sees the U.S. economy fluctuating around a long-run potential rate of growth of 2.7 percent. (Potential real GDP growth is a measure of the sustainable rate of growth of productive capacity.) The path of real GDP growth in the current downturn and projected recovery fluctuates around this long-term trend.

Over the next 61/4 years, real GDP growth is projected to increase 2.9 percent (see Table 1-2), a growth rate that is faster than the 2.7 percent long-term rate because the current level of the unemployment rate has considerable room to fall before the economy is again operating at its potential. Real GDP growth in 2013 and 2014, at 2.7 percent, is almost identical to the consensus projection of long-run growth.

The growth rate of the economy over the long run is determined by its supply-side components, which include population, labor force participation, the ratio of nonfarm business employment to household employment, the length of the workweek, and labor productivity. The Administration's forecast for the contribution of the growth rates of different supply-side factors to real GDP growth is shown in Table 1-2.

Over the next 6 years, the working-age population (line 1) is projected to grow 1.0 percent, the rate set in the Census Bureau's newly revised projection. The labor force participation rate (line 2), which edged down at a 0.2 percent annual rate during the past 8 years, is expected to decline even faster (0.3 percent per year) during the projection period. The further projected deceleration is a consequence of the aging baby-boom generation (born between 1946 and 1962) entering their retirement years. For example, the 1946 birth cohort reached the early-retirement age of 62 in 2008. Over long periods of time the employment rate (defined as 100 less the unemployment rate) is usually stable, but the elevated jump-off level of the unemployment rate makes room for some growth in this component (line 4). The ratio of nonfarm business employment to household employment (line 6), which has accounted for a puzzling subtraction from real GDP growth since 2001, is projected to edge down only slightly (0.1 percent per year) over the projection interval. The workweek (line 8) is projected to edge up slightly, in contrast to its general decline over the past 50 years. The slight upward tilt is projected to be a labor market reaction to buffer labor supply against the projected falling rates of labor force participation. Productivity growth (line 10) is projected to grow 2.4 percent, our best estimate of the trend rate of growth during the recent business cycle (accounting for some measurement issues, as noted earlier). The ratio of real GDP to nonfarm business (line 12) is expected to continue to subtract from overall growth as it has over most long periods.

Table 1-2.—Supply-Side Components of Real GDP Growth, 1953-2014 [Average annual percent change]

	ltem	1953 Q2 to 1973 Q4	1973 Q4 to 1995 Q2	1995 Q2 to 2001 Q1	2001 Q1 to 2008 Q3	2008 Q3 to 2014 Q4
1)	Civilian noninstitutional population aged 16+1PLUS: Civilian labor force participation rate	1.6 0.2	1.4 0.4	1.2 0.1	1.2 -0.2	1.0
3)	EQUALS: Civilian labor force ²	1.8	1.8	1.4	1.0	0.8
4)		-0.1	0.0	0.3	-0.2	0.2
5)	EOUALS: Civilian employment ² PLUS: Nonfarm business employment as a share of civilian employment ^{2,3}	1.7	1.8	1.6	0.7	0.9
6)		-0.1	0.1	0.4	-0.6	-0.1
7)	EQUALS: Nonfarm business employment ⁴ PLUS: average weekly hours (nonfarm business)	1.6	1.9	2.0	0.1	0.8
8)		-0.3	-0.3	-0.2	-0.3	0.1
9)	EQUALS: Hours of all persons (nonfarm business) ⁴	1.3	1.6	1.9	-0.1	0.9
10)		2.5	1.5	2.4	2.6	2.4
11)	EQUALS: Nonfarm business output ⁴ PLUS: Ratio of real GDP to nonfarm business output ⁵	3.8	3.1	4.3	2.5	3.3
12)		-0.2	-0.2	-0.5	-0.2	-0.4
13)	EQUALS: Real GDP	3.6	2.8	3.8	2.3	2.9

¹ Adjusted by CEA to smooth discontinuities in the population series since 1990.

Note: 1953 Q2, 1973 Q4, and 2001 Q1 are NBER business-cycle peaks.

Detail may not add to total because of rounding.

Sources: Council of Economic Advisers, Department of Commerce (Bureau of Economic Analysis) and Department of Labor (Bureau of Labor Statistics).

A Perspective on the Past Eight Years

The past 8 years began with a mild recession and then shifted into a slow-growth recovery that only gradually gained momentum. Throughout the first 7 years, consumer spending provided a solid base for economic growth, and that base was fortified by housing investment. As residential construction fell in 2006 and 2007, it was replaced by export growth as a major contributor to overall GDP growth. In 2008, the combination of falling construction, losses in housing-related securities, rising oil prices, and a falling stock market eventually tipped the economy into recession. Inflation as measured by the four-quarter change in the price index for GDP fluctuated between 1.6 and 3.5 percent, a fairly narrow range in a broad historical context.

The economy showed signs of slowing in 2000: the dot-com bust was already underway, and GDP growth in the third quarter of 2000 was negative. In response to the incipient downturn, the Federal Reserve slashed its target rate early in January 2001. The economy began to shed jobs steadily

²BLS research series adjusted to smooth irregularities in the population series since 1990.

³Line 6 translates the civilian employment growth rate into the nonfarm business employment growth rate.

⁴Nonfarm employment, workweek, productivity, and output sourced from the BLS productivity and cost database.

⁵Line 12 translates nonfarm business output back into output for all sectors (GDP), which includes the output of farms and general government.

in March 2001. The Administration and Congress responded proactively with EGTRRA (The Economic Growth and Tax Relief Reconciliation Act of 2001) which delivered about \$36 billion of stimulus checks in 2001 and phased in cuts in marginal tax rates over several years. The recession of 2001 was particularly severe in business investment, a demand component that had been particularly strong in preceding years. Low interest rates during this period boosted demand for housing and consumer durables, both of which were substantially stronger than during an average recession. The recession of 2001 was exacerbated by the terrorist attacks of September 11, and several widely publicized accounting scandals also contributed to the economic uncertainty of the time. All told, however, the 2001 recession turned out to be the shallowest of the post–World War II period (the most that real GDP declined in a single quarter during the recession was 0.4 percent), with some of the credit attributable to the quick action of monetary and fiscal policy.

The unemployment rate continued to rise following the official end of the recession. To address the lagging recovery, the Administration and Congress instituted JCWAA (the Job Creation and Worker Assistance Act), which allowed firms to expense 30 percent of their equipment investment and extended unemployment compensation to laid-off workers, and JGTRRA (the Jobs and Growth Tax Relief Reconciliation Act), which boosted the expensing rate on investment to 50 percent and extended the duration of this provision. JGTRRA also cut the tax rate on dividends and capital gains. These Acts helped speed up economic growth soon after their implementation. The relative strength of the U.S. economy, evident in the demand for imports and in foreigners' desire to invest in the United States, helped maintain world demand during this early-recovery period. It also resulted in a large increase in the U.S. current account deficit.

Late in 2003, the economy shifted from a period of slow recovery to a period of broad economic expansion, marked by a decline in the unemployment rate and rapid growth in economic activity. The recovery was led by robust growth in consumer spending, equipment and software investment, exports, and residential construction, and coincided with spectacular house price appreciation. With the benefit of hindsight, house prices climbed too high. As home prices began to recede beginning in early 2006, so did the pace of housing starts. Housing starts continued to decline over the next 2½ years, eventually reaching an all-time low in November 2008.

During 2006 and 2007, rapid export growth and growth in investment of nonresidential structures replaced residential investment as the main drivers of aggregate demand. The economies of our trading partners, especially those in developing countries, picked up and boosted the demand for our exports—and also boosted the demand for petroleum. The rise in petroleum prices, which moved up again toward the end of 2007, added to the cascade of problems caused by falling house prices.

Although growth slowed to a crawl in early 2008 and employment edged down, fiscal stimulus and monetary policy actions held real GDP growth in generally positive territory through the first half of the year. The sharp declines in consumer spending in the third quarter and the stock market drop in September and October finally confirmed that the decline was a recession.

Until the second half of 2008, the economy was resilient, weathering many shocks including the 2001 recession, the terrorist attacks of September 11, some widely publicized accounting scandals, and the 2005 and 2008 hurricanes. The most damaging event was the decline in the housing market that began in early 2006. Even after the onset of the housing market decline, however, real GDP growth remained positive until the fourth quarter of 2007.

The business-cycle expansion lasted 73 months, the fourth longest post-World War II expansion. The growth rate of real GDP per labor force participant averaged 1.5 percent at an annual rate from the business-cycle peak in 2001 to the business-cycle peak in the fourth quarter of 2007, identical to its average growth over the period from 1953 to 2001.

Conclusion

The economy was weakening as it entered 2008, but was temporarily sustained at generally positive growth by the 2008 fiscal stimulus package and monetary policy actions. Consumer spending declined sharply in the third quarter, and mounting stress in financial markets reached a crescendo in September, triggering a decline in stock market wealth that further reduced consumer spending. Because of the large declines in wealth from September to December, the saving rate is likely to rise in 2009, which will continue to cause a decline or slow growth in consumer spending. The large September to December declines in wealth imply that an upward movement of the saving rate is likely in 2009, with further constraint on consumer spending as the increase plays out. The monetary and financial agencies of the Government have recently been particularly active with the Federal Reserve implementing a variety of new programs to provide liquidity to financial institutions and to support the functioning of financial markets. The Treasury, empowered by the recently passed Emergency Economic Stabilization Act, has also been active over this period and has strategically allocated funds to support financial sector solvency and liquidity (discussed in more detail in Chapter 2). These vigorous measures are expected to increase confidence in the financial sector over the next several months, leading to a rebound in output sometime in 2009.

Beyond the next few years, the economy is projected to settle into a steady state in which real GDP grows at about 2.7 percent per year, the unemployment rate stays around the level consistent with stable inflation (about 5.0 percent) and inflation remains moderate and stable (about 2.1 percent on the CPI). Economic forecasts are subject to error, and unforeseen positive and negative developments will affect the course of the economy over the next several years. Given the economy's strong basic structure (that is, free mobility of labor, relatively low taxes, and openness to trade), prospects for a resumption of steady growth in the years ahead remain good. Later chapters of this Report explore how market-based reforms and pro-growth policies such as tax reform and open commerce can enhance our economic performance.

Housing and Financial Markets

In the summer of 2008, the disruptions in credit markets that began in 2007 worsened to the point that the global financial system was in crisis. The crisis was sparked by substantial declines in house prices, rising default rates on residential mortgages, and a resulting sharp decline in the value of mortgages and mortgage-backed securities, in part created by excesses in the mortgage market. These assets were held by institutions that play a vital role in the functioning of financial markets.

Many of those institutions were vulnerable to these losses because they were highly levered and, in particular, were highly dependent on short-term funding. In other words, those institutions had borrowed extensively against their long-term assets, and a large part of their debt was short-term, so that their existing debt needed to be paid off and replaced with new short-term debt with some frequency. As their losses mounted, those firms attempted to deleverage by selling assets or raising new capital. But several major firms failed in these efforts, either because their losses made them fundamentally insolvent or because their reliance on short-term funding did not give them enough time and flexibility to strengthen their financial positions.

The failure and near-failure of these firms, combined with broad-based declines in asset prices, including assets with little or no relationship to the mortgage market, placed enormous stress on world financial markets. Credit markets froze, and confidence in the financial system eroded. The Federal Reserve and the Administration acted aggressively to restore stability to the U.S. financial system; the Federal Reserve injected massive amounts of liquidity into the markets through existing and new facilities, and the Administration took several actions, including the creation of new authorities under the Emergency Economic Stabilization Act of 2008 (EESA). These unprecedented efforts laid the foundation for a recovery in credit markets.

The key points of this chapter are:

• The roots of the current global financial crisis began in the late 1990s. A rapid increase in saving by developing countries (sometimes called the "global saving glut") resulted in a large influx of capital to the United States and other industrialized countries, driving down the return on safe assets. The relatively low yield on safe assets likely encouraged investors to look for higher yields from riskier assets, whose yields also went down. What turned out to be an underpricing of risk across a number of markets (housing, commercial real estate, and leveraged buyouts, among

- others) in the United States and abroad, and an uncertainty about how this risk was distributed throughout the global financial system, set the stage for subsequent financial distress.
- The influx of inexpensive capital helped finance a housing boom. House prices appreciated rapidly earlier in this decade, and building increased to well-above historic levels. Eventually, house prices began to decline with this glut in housing supply.
- Considerable innovations in housing finance—the growth of subprime mortgages and the expansion of the market for assets backed by mortgages—helped fuel the housing boom. Those innovations were often beneficial, helping to make home ownership more affordable and accessible, but excesses set the stage for later losses.
- The declining value of mortgage-related assets has had a disproportionate effect on the financial sector because a large fraction of mortgage-related assets are held by banks, investment banks, and other highly levered financial institutions. The combination of leverage (the use of borrowed funds) and, in particular, a reliance on short-term funding made these institutions (both in the United States and abroad) vulnerable to large mortgage losses.
- Vulnerable institutions failed, and others nearly failed. The remaining institutions pulled back from extending credit to each other, and interbank lending rates increased to unprecedented levels. The effects of the crisis were most visible in the financial sector, but the impact and consequences of the crisis are being felt by households, businesses, and governments throughout the world.
- The U.S. Government has undertaken a historic effort to address the underlying problems behind the freeze in the credit markets. These problems, the subject of much of this chapter, are a sudden increase in the desire for liquidity, a massive reassessment of risk, and a solvency crisis for many systemically important institutions. The Government has worked to preserve the stability of the overall financial system by preventing the disorderly failures of important financial institutions; taken unprecedented action to boost liquidity in short-term funding markets; provided substantial new protections for consumers, businesses, and investors; and cooperated closely with its international partners.
- · Looking forward, the global financial crisis presents several additional challenges for the U.S. Government. Among them are the need to modernize financial regulation, unwind temporary programs in an orderly fashion, and develop long-term solutions for the governmentsponsored enterprises (privately-owned, publicly-chartered entities) Fannie Mae and Freddie Mac.

Origins of the Crisis

The roots of the global financial crisis can be traced back to before the beginning of this decade and were, in part, caused by a rise in saving by developing economies.

The Global Saving Glut

Countries in Asia and the Middle East started saving enormous sums in the late 1990s. This increase in saving was primarily due to two factors. First, a number of developing countries experienced financial crises in the 1990s. As these crises abated, these countries began accumulating extensive savings as a buffer against any future crises. Second, sharp increases in oil prices over the past few years generated large revenues for oil exporters, including Russia, Nigeria, Venezuela, and countries in the Middle East. With productive economies and strong legal regimes, the United States and other industrialized countries attracted a good portion of that saving, and foreign investors purchased low-risk assets such as Treasury bonds, debt issued by governmentsponsored enterprises Fannie Mae and Freddie Mac, and mortgage-backed securities, as well as riskier assets. From 1996 to 2007, industrialized countries went from a current account surplus (recording a surplus in net trade in goods and services, and net income and transfers from abroad) of \$14 billion to a current account deficit of almost \$500 billion. At the same time, developing countries went from a current account deficit of \$82 billion to a surplus of \$760 billion.

As this influx of capital became available to fund investments, interest rates fell broadly. The return on safe assets was notably low: the 10-year Treasury rate ranged from only 3.1 percent to 5.3 percent from 2003 to 2007, whereas the average rate over the preceding 40 years was 7.5 percent. While to some extent the low rates reflected relatively benign inflation risk, the rate on risky assets was even lower relative to its historical average: the rate on a 10-year BAA investment-grade (medium-quality) bond ranged from only 5.6 percent to 7.5 percent from 2003 to 2007, whereas the average over the preceding 40 years was 9.3 percent. The net effect was a dramatic narrowing of *credit* spreads. A credit spread measures the difference between the yield on a risky asset, such as a corporate bond, and the yield on a riskless asset, such as a Treasury bond, with a similar maturity. Risky assets pay a premium for a number of reasons, including liquidity risk (the risk that it will be difficult to sell at an expected price in a timely manner) and default risk (the risk that a borrower will be unable to make timely principal and interest payments).

Credit spreads declined as these premiums shrank. mid-2007, for example, credit spreads on junk bonds fell by 5.5 percentage

points, to a historical low of 2.4 percent. Credit spreads on AAA (highquality) and BAA investment-grade bonds also fell over this time period. (See Chart 1-9 in Chapter 1.) While some market participants may have argued that declining credit spreads reflected an actual decline in the level of risk, we see in hindsight that many of these assets continued to be quite risky. Declining spreads reflected, at least in part, a temporary increase in demand for risky but higher-yielding assets. The underpricing of risk across a number of markets—including housing, commercial real estate, and leveraged buyouts—in the United States and abroad set the stage for a subsequent financial crisis.

The Global Credit Boom and the Housing Market

The underpricing of risk made loans readily available to borrowers, especially to riskier borrowers, and gave rise to a global credit boom. At the epicenter of the global credit boom was the U.S. residential housing market. During the credit boom, the ease of credit financing encouraged rapid increases in demand for housing, leading to extraordinary house price increases. According to the S&P/Case-Shiller National Index, house prices increased by 11 percent in 2002, 11 percent in 2003, 15 percent in 2004, and 15 percent in 2005—stunning rates by historical standards. The Federal Housing Finance Agency (FHFA) purchase-only price index, which covers only homes purchased with conforming mortgages (that is, it excludes both subprime and large "jumbo" mortgages), rose more moderately but still climbed an impressive 9 percent in 2004 and 9 percent in 2005 (see Chart 2-1).

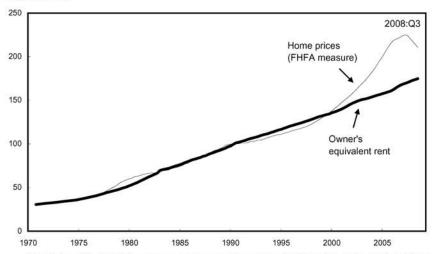
Measures of long-term balance in the housing market, such as the ratio of home prices to rents, reached record highs over this period. The components of this ratio are shown in Chart 2-1. As home prices rose much faster than rents after 2000, the ratio (not shown) of the two lines climbed beyond its historical range. This ratio had remained relatively stable from 1982 to 1999, but as house prices began to climb, the ratio of prices to rents soared to unprecedented heights, suggesting that owner-occupied housing became more expensive relative to rental housing.

In addition to expanded credit availability, the price increases reflected a number of other factors, such as income growth and extremely optimistic expectations about future house price gains. All of these factors likely increased demand for housing, which put upward pressure on house prices. Dramatic house price increases encouraged well-above-average residential investment and a decline in underwriting standards in the mortgage market.

Chart 2-1 Home Prices and Owner's Equivalent Rent

The ratio of house prices to rents reached record highs in 2006.

Index (1990=100)



Note: Before 1991, the FHFA purchase-only index was spliced with the FHFA total index. Before 1983, the CPI-U owner's equivalent rent of primary residence was spliced with the PCE price index for owner-occupied dwellings. Sources: Federal Housing Finance Authority, Department of Labor (Bureau of Labor Statistics), and Federal Reserve Board.

Excesses in the Primary Mortgage Market

Over the past decade, there has been tremendous innovation and expansion in the market in which borrowers obtained loans from mortgage originators, also known as the *primary mortgage market*. Some innovation was beneficial, increasing mortgage affordability and structuring payment terms that fit borrowers' individual circumstances. For example, the increase in *subprime* lending, defined as lending to higher-risk groups, usually at interest rates high enough to imply a large risk premium, opened up new opportunities for borrowers with weaker or limited credit histories to purchase a home. Subprime lending expands access to credit to previously underserved households—albeit at restrictive and expensive terms.

The very competitive lending environment encouraged and intensified myopia among both lenders and borrowers, both of whom took on too much risk. For example, both likely assumed that risky mortgages could be easily refinanced or that homes could be easily sold if borrowers found themselves unable to afford their mortgage payments. standards were loosened, even for subprime borrowers, and terms became less restrictive. In some cases, down payment requirements were relaxed to the point that borrowers' mortgages were greater than the value of their

homes, as apparently both lenders and borrowers expected near-term house price appreciation. Furthermore, increasing numbers of mortgage loans were originated with limited documentation; that is, the mortgage lenders did not require borrowers to provide evidence (such as previous years' tax returns) of income or assets to affirm their ability to repay the loans.

Products appropriate for a limited group of borrowers were also offered to borrowers for whom these products were not well suited. For example, payment-option adjustable-rate mortgages ("option ARMs"), which allow monthly mortgage payments to vary so that the payment may cover only the interest owed or some of the principal owed as well, were initially targeted to borrowers with variable income, such as the self employed. Most option ARMs allowed minimum monthly payments below accrued interest so that borrowers choosing to make the minimum payment would have negative amortization, or rising loan balances. During the credit boom, option ARMs were offered to a much broader class of borrowers as a way of stretching loan affordability.

Excesses in the Market for Mortgage-Related Assets

Other developments helped set the stage for mortgage defaults. The rise of mortgage securitization, led both by government-sponsored enterprises (GSEs) Fannie Mae and Freddie Mac as well as private institutions, reduced the incentive for originators (which increasingly included non-bank mortgage specialists) to properly evaluate risk.

For many years, lenders followed an "originate-to-hold" model in which they kept the loans they originated. Securitization allowed lenders to move to an "originate-to-distribute" model by transforming collections of individual mortgages into mortgage-backed securities (MBS)—tradable securities backed by the loans—and selling the MBS to other investors. (Box 2-1 defines "mortgage-backed securities" and other financial terms.) Lenders that sold MBS used the cash to originate more loans and create new MBS, benefiting themselves as well as borrowers and investors. Securitization under the originate-to-distribute model seemed to work well. Borrowers benefited from lower mortgage rates, and investors benefited from being able to diversify their investments across a wider set of assets.

Lost in the frenzy of lending, borrowing, and securitization was the fact that the benefits of securitization come with a cost. In an originate-to-hold model, the loan originator will lose if the borrower defaults, and so the originator has the incentive to gather information on the borrower to be sure the borrower can afford to pay the mortgage. In contrast, in an originate-to-distribute model, the private-label MBS investor, not the originator, bears the default risk. Because originators do not expect to bear the risk, they do not have as much incentive to make sure the borrowers can pay. Moreover, the incentive for lenders to originate excessively risky loans becomes tempting. Because

Box 2-1: Definitions of Select Financial Terms

Asset-backed security (ABS): A security whose cash flows are backed by the principal and interest payments of a collection of loans, such as credit cards, automobile loans, and student loans.

Auction rate security (ARS): A long-term debt instrument whose interest rate is reset periodically (typically every 7, 28, or 35 days) through an auction process.

Collateralized mortgage obligation (CMO): A complex mortgage-backed security in which cash flows from the mortgage payments are split into tranches (slices), and each tranche is sold as a separate security.

Commercial mortgage-backed security (CMBS): A mortgage-backed security backed by mortgages on commercial property.

Commercial paper (CP): Short-term loans issued by corporations. CP terms range from 1 day ("overnight") to 270 days. Asset-backed commercial paper (ABCP) is commercial paper that is secured by assets. Commercial paper can be issued by financial institutions as well as nonfinancial institutions.

Government-sponsored enterprise mortgage-backed security (GSE MBS): A mortgage-backed security that includes a credit guarantee from a government-sponsored enterprise (Fannie Mae or Freddie Mac).

London interbank offered rate (LIBOR): The interest rate at which banks offer to lend unsecured funds to other banks. The 3-month LIBOR, the rate at which banks offer to lend for a 3-month term, is a key reference rate used for many financial contracts.

Mortgage-backed security (MBS): security whose cash flows are backed by the principal and interest payments of a collection of mortgage loans.

Mortgage-related asset: Any original mortgage loan or MBS.

Non-agency mortgage-backed security (non-agency MBS): A mortgage-backed security that does not include a credit guarantee from a government agency or government-sponsored enterprise. Also known as private-label MBS.

Residential mortgage-backed security (RMBS): A mortgage-backed security backed by mortgages on residential property.

Secured debt: A loan that is backed by collateral. If the borrower defaults on repayment, the lender can seize the collateral, sell it, and use the proceeds to repay the debt.

TED spread: The difference between the 3-month LIBOR and the 3-month Treasury Bill rate, a commonly used indicator of financial market distress.

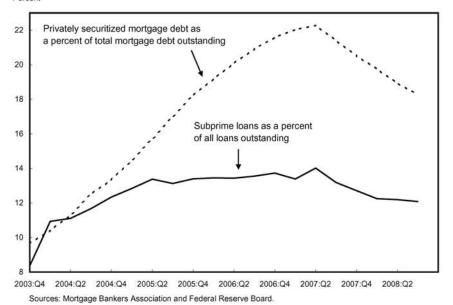
Unsecured debt: A loan that is not backed by collateral. The loan is supported only by the borrower's creditworthiness.

MBS are complex securities, many investors relied on credit rating agencies to provide them with information on default risk rather than conducting their own due diligence. For their part, credit rating agencies made initial assessments that, in hindsight, used faulty assumptions and led to a significant number of downgrades. To their detriment, many market participants relied heavily on ratings that turned out to be overly optimistic.

Chart 2-2 shows the fraction of total mortgages outstanding that are securitized by private institutions (private-label MBS) as well as the share of total mortgage originations accounted for by subprime mortgages. Data on subprime mortgages have a limited history, which is perhaps not surprising given how recently this market became important. While a number of factors led to the surge in subprime lending, the increase in privately-issued MBS, and the increase in securitization more generally, likely played an important role.

Mortgage-backed securities were often repackaged into even more complex securities, reflecting an increased demand from investors for customized investment products called structured products. A collateralized mortgage obligation (CMO), for example, is a mortgage-backed security in which cash flows from the mortgage payments are ordered into "tranches" (slices), and each tranche is sold as a separate security. The tranches are typically ranked in descending order of repayment from highest (super senior) to lowest (equity). Senior tranches have a priority claim on the cash flow from the underlying

Chart 2-2 Privately Securitized Mortgages and Subprime Mortgage Loans Privately securitized mortgages and subprime loans have become a larger share of the market since 2003. Percent



collateral and must be paid before junior tranches. The middle tranches of a CMO could be repackaged yet again into even more complex securities.

A combination of overreliance on credit rating agencies' assessments of complex securities and flaws in the assumptions underlying those assessments, along with insufficient risk management at financial firms and regulatory policies that failed to mitigate risk-management weaknesses, created a situation in which many financial firms held mortgage-related assets that turned out to be far more risky than anticipated.

The Credit Crunch

Eventually, the number of houses on the market began rising faster than sales, and prices started to fall. Nationally, home price appreciation began to slow in 2005, and price levels began to fall in the third quarter of 2007, according to the FHFA purchase-only house price index. In some mortgage markets and in some regions, prices began their decline a year before the national average. The inventory of new homes for sale rose rapidly relative to the pace of new home sales, contributing to price declines. The residential construction industry reacted to a decline in housing demand, and by 2006, this sector experienced job losses as new housing starts plunged (Chart 2-3).

Chart 2-3 Single-Family Housing Starts Housing starts have fallen more than 75 percent from their peak in 2006 to the lowest level on record. Millions of units

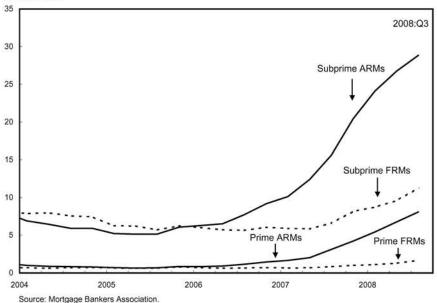


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As house prices faltered, borrowers with little or no equity in their homes quickly found that they owed more to lenders than their homes were now worth in the market. Such borrowers are often referred to as being "underwater." Some borrowers were unable to afford their mortgage payments either because of financial circumstances or because their mortgage payments rose, as their mortgage contract included a sizable increase in monthly payments over the life of the loan. If these borrowers were also underwater, they were not able to refinance, making them likely to default. In fact, among subprime loans that were securitized in the second half of 2006, over 7 percent of these loans were at least 60 days past due within the first 6 months, exposing the weakening in underwriting standards over time and the effect of house prices faltering. By way of comparison, among subprime loans securitized in the first half of 2005, less than 3 percent of these loans were at least 60 days past due within the first 6 months.

Chart 2-4 shows that the rates of serious delinquency (defined as 90 days past due or in default) for both prime and subprime mortgages have risen since 2005. Rates for both fixed-rate mortgages (FRMs) and adjustable-rate mortgages (ARMs) have increased. Delinquency rates are considerably higher in the subprime market than in the prime market; however, rates of serious delinquency in both the subprime and prime mortgage markets have reached their highest levels since the Mortgage Bankers Association began collecting these data in 1979.

Chart 2-4 Percent of Mortgages 90 Days Past Due or in the Process of Foreclosure Subprime adjustable-rate mortgages (ARMs) have performed particularly poorly over the past year. Percent of loans



Lenders and investors that held mortgages and mortgage-backed securities, particularly risky subprime mortgages, incurred losses as default rates rose. Lenders demanded higher risk premiums in the form of higher mortgage spreads (mortgage interest rates charged in excess of long-term Treasury rates), and the supply of mortgage credit—at any given spread—decreased. In fact, new subprime lending began to dry up altogether beginning in 2007. With the unexpected increase in default rates, the value of the mortgages declined, and uncertainty over the future value of the complex securities that were backed by, or derived from, these mortgages increased. Demand for mortgage-related assets plummeted, particularly for subprime mortgages held as whole loans (original mortgage loans) and non-agency mortgage-backed securities for which uncertainty was the greatest. As a result, the market price for these assets fell dramatically.

Mortgage-related assets are very widely held. Domestic and international banks hold about three-fourths of the whole loans held outside of the GSEs, and banks hold about one-half of mortgage-related securities held outside of the GSEs. Insurance companies hold some whole loans and hold almost one-fourth of mortgage-related securities. Pensions and hedge funds also have substantial positions in mortgage-related securities. As of the end of 2008, global financial institutions that invested in these assets reported over \$1 trillion in losses.

Leverage and Reliance on Short-Term Funds

The declining value of mortgages and mortgage-backed securities threatened the ability of systemically important financial institutions to meet their financial obligations (that is, their "solvency") because portions of the financial system are highly exposed to shocks. That exposure takes two basic forms: high *leverage* and reliance on *short-term funding*. Leverage is the use of borrowed funds (debt), as opposed to investment capital (equity), to finance assets. Short-term funding is the use of debt financing that must be paid back within a short period of time.

Before the financial crisis, the major investment banks were levered roughly 25 to 1. This means that every \$100 in assets was funded by \$96 in debt, leaving only \$4 in equity. In other words, investment banks owned complex investment portfolios with only 4 percent down. Such leverage was a fundamental source of fragility—the capital base of those institutions would be eliminated by just a 4 percent decline in asset values. (Commercial banks, in contrast, were levered about 12 to 1.)

In addition, many major financial firms rely on short-term funding, requiring them to continually replace existing debt with new debt (a process called "rolling over" debt) and thereby putting them at the mercy of changes in the availability of liquidity. Put another way, if a bank is levered using

long-term debt, it can survive as long as it can make debt service payments; if a bank is levered using short-term debt, it has to pay off the entire debt every few weeks, which it typically does by taking out new short-term debt. During the credit boom, liquidity was easily available, and firms could roll over enough debt to satisfy their short-term funding needs. Firms began to rely even more heavily on short-term debt and created financial innovations, such as auction rate securities (ARS) and structured investment vehicles (SIVs), to address those demands. But, when doubts arose about the availability of liquidity, those financing methods broke down, and firms faced a considerable risk of not being able to roll over their financing.

The collapse of Bear Stearns in March 2008 provides an example of how high leverage, combined with a heavy reliance on short-term term funding, can make a financial institution more fragile than it ought to be. In 2007, Bear Stearns was one of the largest global investment banks. Bear Stearns's assets were highly concentrated in mortgage-backed securities. In fact, two of Bear Stearns's managed hedge funds collapsed in June 2007 because of subprime mortgage losses.

During the week of March 10, 2008, rumors spread about liquidity problems at Bear Stearns, resulting in a "run." As the rumors spread, Bear Stearns was unable to borrow funds from other financial institutions, despite the fact that Bear Stearns pledged high-quality financial assets as collateral to secure repayment of many of its short-term loans. In a secured funding arrangement, the borrower agrees to forfeit the collateral if it defaults on the loan. However, possibly because the legal process of transferring ownership of collateral is quite lengthy, many of Bear Stearns's secured lenders refused to continue ("roll over") their short-term lending arrangements. As a result, Bear Stearns could not meet its short-term funding needs.

On Friday, March 14, 2008, the Federal Reserve Bank of New York (FRBNY) provided emergency funding to Bear Stearns. However, the FRBNY funding could not stop Bear Stearns's downward spiral, and Bear Stearns concluded that it would need to file for bankruptcy protection, unless another firm purchased it. On Sunday, March 16, 2008, Bear Stearns announced that it would be acquired by JP Morgan Chase, with financing support from the FRBNY.

Macroeconomic Consequences of the Crisis

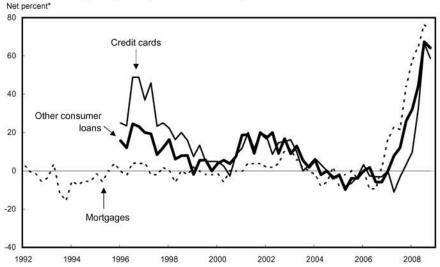
The effects of the crises in the housing and financial markets were most visible for Wall Street firms like Bear Stearns, but their impact has been felt by businesses, consumers, and governments throughout the world.

precipitous drop in the stock market has drastically eroded the value of Americans' stock portfolios, 401(k) accounts, and other retirement accounts. The tightening of credit has made it more expensive and difficult for many families to borrow money for cars, homes, and college tuition. Many healthy businesses have found it harder to get loans to expand their operations and to create jobs.

Banks Reduced Lending to Consumers and Businesses

As default rates for household debt rose, lenders became increasingly reluctant to make any but the least risky loans. Many banks and other creditors tightened standards on mortgages and consumer debt. The Federal Reserve's Senior Loan Officer Survey on Bank Lending Practices reports changes in the supply of bank loans to businesses and households. As Chart 2-5 shows, the net percent of domestic lending institutions reporting that they tightened lending standards began rising at the end of 2007. Tighter standards reduce the availability of credit for households and, as a result, hinder households' ability to maintain spending in difficult economic times.

Chart 2-5 Domestic Banks Tightening Lending Standards Banks have been tightening lending standards on a variety of loan products since the end of 2007.



Note: "Net percent" refers to the percent of respondents tightening less the percent of respondents loosening. The values for mortgages for the second quarter of 2007 through the fourth quarter of 2008 were calculated as a weighted average of prime, subprime, and nontraditional loans using weights estimated by the Council of Economic Advisers. Source: Federal Reserve Board.

Similar survey responses on banks' standards for commercial and industrial loans show that banks tightened lending standards for business loans starting in mid-2007. The weakness in the business sector seen in business investment and outlays reflects, in part, this reduced access to credit from banks and other lenders, forcing businesses to tap cash reserves to fund investment and expenditures.

The Onset of the Crisis

Within a 9-day period in September 2008, the crisis deepened abruptly with a series of stunning events. On Sunday, September 7, 2008, the Federal Housing Finance Authority (FHFA) placed the ailing mortgage giants Fannie Mae and Freddie Mac into conservatorship because the FHFA determined that the values of Fannie Mae's and Freddie Mac's mortgage-related assets had deteriorated to the point that these institutions could no longer operate safely and soundly. Conservatorship gave the FHFA powers typically associated with Fannie Mae's and Freddie Mac's directors, officers, and shareholders, including all actions necessary and appropriate to put each company in a sound and solvent condition, carry on each company's business, and conserve the property and assets of each company. In addition to the FHFA conservatorship, the Treasury Department entered into commitments to inject up to \$100 billion in capital into each firm in exchange for preferred stock and warrants (options to buy equity shares at a predetermined price) for common stock, created a temporary lending facility to provide secured funding for Fannie Mae and Freddie Mac in exchange for governmentsponsored enterprise mortgage-backed security (GSE MBS) collateral, and initiated a program to purchase GSE MBS in the open market.

One week later, on Sunday, September 14, 2008, the investment bank Lehman Brothers filed for bankruptcy, and another investment bank, Merrill Lynch, negotiated an acquisition by Bank of America. Both investment banks suffered billions of dollars of writedowns (losses from declines in value) of mortgage-related assets.

Two days later, on Tuesday, September 16, 2008, the Federal Reserve announced the creation of a credit facility (lending arrangement) in exchange for a majority equity stake in the insurance giant American International Group (AIG). AIG suffered billions of dollars of losses from entering into credit default swap (CDS) contracts to insure against losses on complex MBS.

A credit default swap is a type of *derivative* contract that has become very popular in recent years. The value of a CDS contract is "derived from" an underlying credit instrument, such as a bond or an MBS, where one party say a borrower—owes money to another party. The buyer of a CDS contract agrees to make a series of payments (similar to an insurance premium) to

the seller over time. If the borrower who owes money according to the underlying credit instrument defaults, the seller of the CDS agrees to make a pre-specified payoff to the buyer. Essentially, the buyer of the CDS has taken out insurance on the default risk of a credit instrument, and the seller of the CDS is the insurance provider.

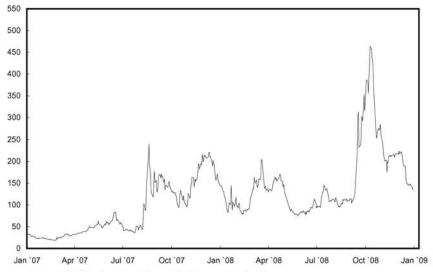
In the case of AIG, most of its CDS counterparties were banks that bought CDS contracts because they wanted to hedge against declines in the MBS held on their balance sheets. Contractual features in AIG's CDS required AIG to post cash collateral to their counterparties as the values of the MBS declined. The collateral calls were so large that AIG did not have the cash to post, and AIG faced a liquidity crisis. The increased burden to honor CDS contracts also undermined AIG's solvency.

Credit Market Investors Reduced Lending to Businesses

Following these events, reassessments of risk led to a flight to quality. This flight to quality extended beyond mortgage-related assets and affected a number of non-bank institutions and assets that businesses use to pledge as collateral for secured funding. For long-term debt funding (and equity funding), businesses rely on capital markets, where mutual funds, hedge funds, and pension funds, for example, invest in long-term bonds issued by corporations and State and local governments. For short-term funding, businesses rely on the *money market*. An important source of lending in the short-term credit markets are *money market mutual funds* (or money funds), which often invest in instruments called "paper." Commercial paper (CP) is short-term funding used by corporations, and it is often issued as assetbacked commercial paper (ABCP), which is secured by collateral. Other money market instruments include Treasury bills and repurchase agreements (or repos), where a borrower agrees to sell securities to a lender for cash and simultaneously agrees to buy back those securities at a later date at a higher price. A repo is economically similar to a secured loan, with the buyer/lender receiving securities as collateral to protect against default.

As lenders sacrificed yield for the safety of Treasury securities, interbank lending rates rose to unprecedented levels. Financial institutions pulled back from extending credit to each other, except at the very shortest maturities, because of an aversion to counterparty risk or concerns about their own liquidity needs. As shown in Chart 2-6, the *TED spread* increased dramatically in September 2008 above already elevated levels. The TED spread is the difference between the 3-month *London Interbank Offered Rate* (LIBOR) and the 3-month Treasury Bill rate. LIBOR is the rate at which banks offer unsecured loans to other banks. The dramatic increase in the TED spread indicates considerable distress in interbank lending.

Chart 2-6 The TED Spread The spread between the 3-month London Interbank Offered Rate (LIBOR) and yields on 3-month Treasury bills grew to historic highs during 2008, indicating distress in interbank lending. Interest rate spread (basis points)



Sources: British Bankers Association and the Treasury Department.

When large financial institutions faced perceptions of insolvency, creditors became less willing to lend to them, even in the very short term. Companies that relied on what had been perceived as low-risk secured funding, such as ABCP and repos, were also affected by the freeze in lending. Left unchecked, the progression would have led to "runs." Institutions that were not able to obtain funding due to perceptions of insolvency would have faced a liquidity crisis. Without the ability to roll over their short-term debt, institutions that relied heavily on short-term financing would have to sell their assets at "fire sale" prices to meet their financial obligations. Such actions can lead to an actual (rather than perceived) insolvency crisis, which would likely have led to widespread financial and economic failure.

Money funds themselves can face a run if investors lose confidence in the fund's ability to protect them from a loss of principal. Principal protection is most visible in the fact that money funds seek to maintain a stable \$1.00 net asset value (NAV). While money funds are required by law to invest in short-term low-risk securities, investment losses are possible. In September 2008, money market funds that had invested in Lehman Brothers commercial paper faced losses when Lehman Brothers declared bankruptcy. Over time, investment gains in other securities held in the diversified portfolios of money funds are usually big enough to offset the rare loss in an individual security. However, if an increase in investor anxiety causes a run in the form of large-scale redemptions, the money fund may be forced to liquidate other assets at below-market prices. If that happens, the fund may be unable to support a \$1.00 NAV and thus "break the buck."

The Effect of the Crisis on the Non-Financial Economy

The financial crisis spread beyond financial institutions. It also affected households and non-financial businesses in the non-financial ("real") economy.

The Effect of the Crisis on Households

The financial crisis has affected households through a number of channels, including a sharp loss in stock market wealth (as discussed in Chapter 1), a further tightening in household credit markets, prospects for a slower recovery in the housing market, and increased pessimism regarding current and future economic conditions.

In the wake of the financial crisis, banks also began to further restrict households' access to credit. As mentioned earlier and shown in Chart 2-5, banks began tightening standards on household loans by the end of 2007. As the financial crisis deepened in September 2008, credit became even more expensive and less available. For example, interest rates on 30-year fixed-rate mortgages rose 0.7 percentage point by the end of October 2008 from their September weekly low of 5.8 percent. Continued tightness in mortgage credit markets could reduce demand for housing and could slow the recovery in this market.

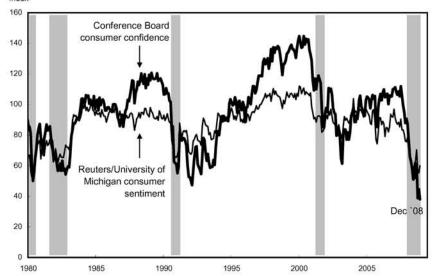
Chart 2-7 shows measures of consumer confidence from both the Reuters/ University of Michigan survey and the Conference Board survey, which reveal substantial pessimism among consumers in the recent data. In fact, in October 2008 the Conference Board measure of confidence reached the lowest level ever seen in the index's 51-year history.

The Effect of the Crisis on Businesses

The financial crisis has also affected non-financial businesses through a number of channels, including a tightening in business credit markets and weaker demand both domestically and abroad. As mentioned above, businesses on the whole have had a difficult time raising funds in private debt and equity markets because of more expensive financing terms and reduced access. As a result, businesses' ability to finance ongoing operations, to invest, and to increase hiring has been curtailed, particularly beginning in the fall of 2008.

Chart 2-7 Consumer Confidence

Consumer confidence has declined sharply since the start of credit market disruptions in August 2007. Index



Note: Grey shading indicates recession.

Sources: Reuters/University of Michigan and Conference Board.

However, businesses have also reduced their demand for funds to expand operations. As consumer demand has weakened, businesses have become less willing to make investments to expand production. In addition, the crisis in credit markets has made it more difficult for consumers to finance some purchases, especially of "big ticket" durable goods such as automobiles. These difficulties result from disruptions in the market for asset-backed securities (ABS). Like mortgage-backed securities, asset-backed securities are tradable financial instruments that are backed by pools of individual loans—in this case, consumer loans. Since the financial crisis deepened in the fall of 2008, the demand for ABS has notably declined. These consumer credit market disruptions have led to a decline in consumer purchasing that has further reduced business demand for credit.

Businesses also have faced weaker demand abroad as the financial crisis has worsened the outlook for global economic growth. As a result of all these factors, business confidence has fallen notably since the fall of 2008.

Policy Responses to the Crisis

The global financial crisis is massive in scale and far-reaching in scope. The complexity of the financial system, as well as the financial instruments that are traded in various markets, has meant that the Government has had to take many new and drastic actions very quickly to limit further turmoil. While many different responses have been undertaken by different Government agencies, all of the responses have been designed to achieve the overarching goals of preserving the stability of financial institutions and boosting liquidity in financial markets.

Policy Responses in 2007

After the disruption in credit markets in the summer of 2007, the Administration and the Federal Reserve responded through a series of coordinated actions aimed at providing liquidity to financial markets and stabilizing housing markets. In the second half of 2007, for example, the Federal Reserve lowered interest rates and injected liquidity into financial markets by taking the following steps:

- Lowering the target for the Federal Funds rate (the interest rate at which U.S. banks lend to other banks overnight) by a total of 1 percentage point between September 2007 and December 2007 to reduce banks' funding costs.
- Expanding the Federal Reserve's lending through the discount window (the lending facility of last resort for depository institutions such as banks) to provide term financing for periods as long as 90 days, and establishing a Term Auction Facility (TAF) to further increase the availability of liquidity for depository institutions. Longer financing terms allow borrowers to roll over debt less frequently.
- Establishing reciprocal currency arrangements ("swap lines") with the European Central Bank (ECB) and the Swiss National Bank (SNB) to facilitate those banks' provision of dollar liquidity to institutions in their jurisdictions.

The Administration also took several steps to address difficulties in the housing market:

• In August 2007, the Administration launched a new program at the Federal Housing Administration (FHA) called *FHASecure*. The FHA insures (but does not originate) mortgages for qualified low- and moderate-income borrowers who have less-than-perfect credit and little savings for a down payment. The *FHASecure* initiative offers homeowners who have adjustable-rate mortgages, current or delinquent, the ability to refinance into a fixed-rate FHA-insured mortgage.

- In August 2007, the Administration repeated its call for Congress to pass a reform package for the GSEs Fannie Mae and Freddie Mac. Congress ultimately passed the Housing and Economic Recovery Act of 2008 (HERA) in July 2008 to strengthen the regulator charged with overseeing the GSEs.
- In October 2007, HOPE NOW, a private sector alliance of mortgage industry participants, was launched to encourage servicers, housing counselors, and investors to work together to help streamline the process of modifying mortgages for borrowers with adjustable-rate mortgages who can afford their current mortgage payments but will have trouble when their interest rates rise.

Policy Responses in 2008

As the crisis worsened over the course of 2008, the Administration and the Federal Reserve took additional and extraordinary steps to prevent systemwide failures in financial markets, provide protections for households' savings, and encourage the renegotiations of mortgages to prevent unnecessary foreclosures.

Intervention in Troubled Institutions

The Government has focused on preserving the stability of the overall financial system and acted to prevent disorderly failures of several large, interconnected firms—and did so in a way that protects taxpayers. For example, the failure of Fannie Mae and Freddie Mac would have materially exacerbated financial market turmoil and added to the disruptions in the mortgage market, putting more downward pressure on house prices. Examples of interventions in other troubled institutions are discussed above.

Injecting Liquidity

The Government has taken unprecedented action to inject liquidity the grease that keeps the gears of the financial system turning. The Federal Deposit Insurance Corporation (FDIC) has temporarily guaranteed most new unsecured debt issued by insured banks; that is, the FDIC has agreed to make scheduled principal and interest payments in the event the issuer fails to make those payments. As a result, banks have found it easier to borrow.

The Federal Reserve has used a variety of tools to inject hundreds of billions of dollars in new liquidity into the financial system. The Federal Reserve has expanded the availability of term financing provided to depository institutions through the discount window and the Term Auction Facility (TAF). To support the liquidity of primary dealers, the Federal Reserve expanded its securities lending program by broadening the securities that can be used as collateral as well as extending the terms of the loans. More information

on the securities lending program is on the Federal Reserve Bank of New York's website. In addition, the Federal Reserve established a Primary Dealer Credit Facility (PDCF) to meet the short-term funding needs of primary dealers, which are banks and securities broker-dealers that are authorized to trade directly with the Federal Reserve. Over the course of 2008, the Federal Reserve further reduced the target for the Federal Funds rate by over 4 percentage points. Moreover, it expanded its swap lines with foreign central banks and established a number of special programs designed to address strains in financial markets, including facilities structured to provide support to money market mutual funds, the commercial paper market, and the assetbacked securities markets.

Protecting Consumers, Businesses, and Investors

The Government has provided substantial new protections for consumers, businesses, and investors. The FDIC has temporarily expanded the amount of money insured in bank and thrift checking accounts, savings accounts, and certificates of deposit from \$100,000 to \$250,000 per depositor. The FDIC has also temporarily removed insurance limits for non-interest-bearing transaction accounts, which are used by many small businesses to finance daily operations. The Treasury has offered temporary government insurance for money market mutual funds. The Securities and Exchange Commission is vigorously investigating fraud, manipulation, and abuse in the securities markets, with an emphasis on abusive practices involving "short sales" (see Box 2-2). The programs being undertaken by Federal agencies are aimed at providing greater stability for the financial system.

Box 2-2: Short Sales

A short sale involves the sale of a stock by an investor who does not own it. To deliver the stock to the purchaser, the short seller must borrow the stock from a broker or from another investor. Later, the short seller closes out the position by purchasing the stock on the open market. Short sales are profitable if the stock price declines, because the short seller can buy the stock at the lower price. But if the price rises, the short seller will need to buy the stock at a higher price and, therefore, incur a loss.

Short sales are a part of many useful investment and trading strategies. Short sales are valuable to an investor who believes that the stock price will fall because the stock is overvalued. In this case, the short sale is used in the same way that an investor who believes that a security is currently undervalued will buy the stock. Short sales can be used

continued on the next page

Box 2-2 - continued

by market-makers in response to buyer demand for a stock that they do not currently own. Market-makers provide liquidity to other market participants by quoting buying prices (bids) and selling prices (asks) on stocks. They hope to profit on the difference, or spread, between the bid and ask prices, rather than on any price movement. Thus, short sales provide the market with an important benefit—liquidity. Short sales also provide the market with a second benefit-pricing efficiency-because efficient markets are characterized by prices that fully reflect both buying and selling interests.

Although short selling serves useful market purposes, in some rare instances it may be used to illegally manipulate stock prices (just as stock purchases may, in rare instances, be used to manipulate stock prices). One example is the "bear raid" in which a trader engages in heavy short selling in an attempt to drive down prices in the hope of triggering a cascade of sell orders from others that depresses prices further. The Securities and Exchange Commission (SEC), the primary overseer of U.S. securities markets, has promulgated many rules to prevent stock price manipulation and has aggressively pursued abusive shortselling practices that involve insider trading and other federal securities law violations.

At the same time, the SEC has adopted a balanced approach in pursuit of its mission to protect investors; maintain fair, orderly, and efficient markets; and facilitate capital formation. For example, the SEC has suspended short sale price restriction rules (for example, the uptick rule, which requires that a short sale must occur at a price above the most recent different transaction price) after carefully considering the solid empirical evidence based on research conducted by the SEC and independent academic economists that shows that the purported benefits of the rules no longer justify the costs. Also, the SEC has enacted rules that govern short sales immediately before stock offerings in an effort to maintain the integrity of the capital-raising process.

Stabilizing the Housing Market

The Administration continued its efforts to mitigate effects of the declining housing market and to help responsible homeowners in danger of defaulting on their mortgages. The FHA has provided countercyclical support for the mortgage market as conventional financing has partly withdrawn from the market. Between the time FHASecure was launched in August 2007 and December 2008, FHA helped more than 450,000 families, many of whom were facing the loss of their homes, refinance into a more affordable FHA-insured mortgage. In the midst of all of this, the FHA has been a leader

in contacting FHA-insured homeowners in trouble to work out solutions. In 2008, FHA servicers completed more than 100,000 loss-mitigation actions. The Department of Housing and Urban Development (HUD) also launched the Neighborhood Stabilization Program in September 2008, which provides emergency assistance to State and local governments to acquire and redevelop foreclosed properties that might otherwise be abandoned and become blight.

In September 2008, the Treasury began purchasing GSE MBS and related products to support the mortgage financing market, as authorized by the Housing and Economic Recovery Act of 2008 (HERA). More recently, the Federal Reserve announced its intentions to purchase large volumes of agency debt and MBS backed by Fannie Mae, Freddie Mac, and Ginnie Mae (a government-owned corporation within HUD) in an effort to lower mortgage rates and increase the availability of mortgage credit.

In October 2008, additional mortgage assistance for homeowners at risk of foreclosure was introduced. The HOPE for Homeowners program, also authorized by HERA, refinances mortgages for borrowers who are having difficulty making their payments but can afford a new fixed-rate mortgage insured by the FHA. That refinancing is available, however, only if lenders are willing to write down the existing mortgage to below the new appraised value of the home, creating home equity for a borrower who may have been underwater. Some lenders may be willing to do so in order to avoid foreclosures that might be even costlier. In return, the borrower agrees to share the equity created at the beginning of this new mortgage and any future appreciation in the value of the home if the home is sold or refinanced. Unfortunately, some limitations of the program that were written into the law have limited the program's flexibility and made it less attractive to participants than it otherwise might be.

The HOPE NOW Alliance launched a new program in November 2008 that will make it easier and faster for the most at-risk homeowners to modify their mortgages and stay in their homes. The Streamlined Modification Plan expands upon the existing efforts of many lenders. Under the plan, lenders use an expedited process to modify, or restructure, a mortgage so that the homeowner can afford the monthly payments. The streamlined process will apply to at-risk borrowers who are at least 90 days late on their existing mortgages and whose loans are owned by a lender or servicer in the HOPE NOW alliance or are owned by Freddie Mac or Fannie Mae. The Streamlined Modification Plan also applies to all mortgage types.

In November 2008, HUD published a final rule reforming the regulations for the Real Estate Settlement Procedures Act (RESPA) to simplify the mortgage settlement process and improve consumers' ability to knowledgeably shop for mortgage loans. Included in the RESPA reform, which will become fully effective in January 2010, is a new uniform Good Faith Estimate (GFE) form that will inform borrowers of the charges they should expect at loan

settlement and identify key features of the loan being offered, including whether the interest rate, monthly amount owed, and loan balance can rise, and if so, by how much. These disclosures will inform borrowers about potentially risky features of loan offers and vastly improve consumers' ability to compare loan offers, which should lead to improved loan terms and lower origination fees.

International Cooperation

The United States has also been at the forefront of a number of international reform efforts. U.S. Government officials have played leading roles in advancing reform measures that are being undertaken at the Financial Stability Forum, the Basel Committee on Banking Supervision, the Committee on Payment and Settlement Systems, and the International Organization of Securities Commissions. Since the onset of the global crisis, the Administration and the Federal Reserve have been cooperating even more closely with overseas partners. For example, in October 2008, the Federal Reserve and other central banks around the world enacted a remarkable coordinated cut in interest rates, which will help ease the pressure on credit markets around the world. In addition, starting at the end of 2007, the United States bolstered U.S. dollar liquidity in European financial markets by setting up dollar swap facilities (or swap lines) with European central banks, including the Bank of England, the European Central Bank, and the Swiss National Bank, among others. A dollar swap facility allows a foreign central bank to swap its currency for U.S. dollars from the Federal Reserve at a predetermined exchange rate. European central banks use swap lines to provide dollars to European commercial banks to help them meet their dollar-denominated funding needs during a period when investors are unwilling to be counterparties to dollar-denominated liabilities. European central banks swapped local currency for dollars with the Federal Reserve in order to limit disruptions to financial and currency markets. Starting in October 2008, the Federal Reserve removed the limits on swap lines for a number of foreign central banks and provided limited swap lines to other countries, including new \$30 billion swap facilities for Brazil, Mexico, Singapore, and South Korea.

On November 15, 2008, the United States hosted the first of what is expected to be a series of summits of leaders of major developed and developing countries to move forward in addressing the financial crisis in its international dimensions. These efforts build on the ongoing international efforts to better coordinate financial disclosure and regulation standards. To this end, the United States has participated fully in the efforts of a special working group of the Financial Stability Forum (FSF) formed in 2007. (For an explanation of the FSF, see "Looking Forward" below.)

Recapitalizing the Financial Sector

The Government has undertaken a historic effort to address the underlying problem behind the freeze in the credit markets. In October 2008, Congress passed bipartisan legislation, the Emergency Economic Stabilization Act of 2008 (EESA), authorizing the Treasury Department to use up to \$700 billion in a Troubled Asset Relief Program (TARP) to stabilize financial markets. Under its authority, the Treasury Department announced that it would purchase up to \$250 billion in non-voting preferred stock (a stock that represents ownership in a corporation with a higher claim on assets and earnings than common stock) in Federally regulated banks and thrifts in a Capital Purchase Program (CPP). In addition to stock, the Treasury would also receive warrants (options to buy additional shares of stock at a predetermined price) from the participating institutions. By the end of December 2008, Treasury had invested \$177.5 billion in 215 U.S. financial institutions through the CPP. The new capital will help banks fill the gaps created by losses during the financial crisis, so that the banks can resume lending to businesses and consumers. In addition to banks, the Treasury has purchased preferred stock in systemically important non-bank financial institutions, which have also experienced large losses. For example, \$40 billion of the \$700 billion TARP fund has been used to purchase preferred shares in insurance giant AIG.

Results So Far

Although it is much too soon to be able to conduct a complete evaluation of the results of government responses to the global financial crisis, some signs of improvement in financial conditions are already emerging. The first, and perhaps most important, sign is that the financial system is noticeably more stable than just a few months ago. Ongoing capital injections under the TARP are providing necessary capital as banks begin to decrease their reliance on financial leverage, a process called "deleveraging."

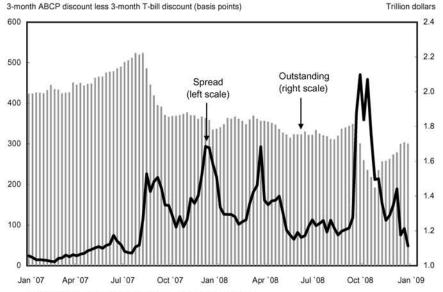
TARP-provided capital is also addressing concerns about the potential insolvency of systemically important financial institutions. Government guarantee programs are providing confidence in money funds and FDIC-insured deposit accounts. As a result, the uncertainty that led to runs has abated and financial institutions now can rely on a more secure deposit base.

The increased confidence in a more stable financial system has laid the foundation for credit market improvements. Although conditions are still strained, banks are beginning to lend to each other again. Interbank lending rates, while still elevated, have fallen dramatically since mid-October (see Chart 2-6). Credit spreads on bank debt are declining from their recent peaks. Federal Reserve credit facilities are providing the necessary liquidity for money funds to invest in commercial paper. Chart 2-8 shows that commercial paper spreads have been decreasing and that volumes are beginning to recover. These trends suggest that firms relying on access to short-term funding are able to borrow at reasonable rates again.

As shown in Chart 2-9, mortgage rates have also declined from their recent peaks. Rates on conforming mortgages, which are mortgages that conform to loan purchasing guidelines set by Fannie Mae and Freddie Mac, have benefited the most from recent actions such as the Federal Reserve's announced intentions to purchase large volumes of agency debt and MBS backed by agencies. Rates on non-conforming mortgages, such as "jumbos" (mortgages that exceed the conforming loan limits), have also benefited. However, rates still appear high relative to long-term Treasury rates, suggesting that investors continue to attach a substantial risk premium to risky assets, such as mortgage-related assets.

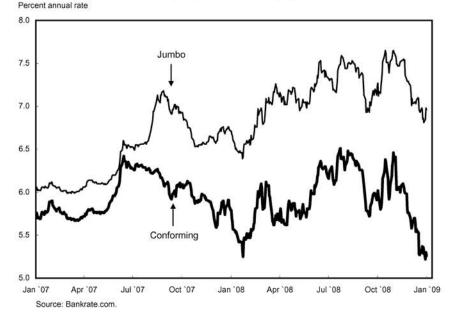
Improvements in long-term capital markets have been slower. The stock market is still volatile. However, highly rated corporate and municipal bond issuers have been able to issue bonds at slightly lower interest rates than before the crisis came to a head in the summer of 2008.

Chart 2-8 Commercial Paper Oustanding commercial paper fell dramatically as asset-backed commercial paper (ABCP) spreads spiked in the summer of 2007 and the early fall of 2008 before recovering in late fall.



Sources: Federal Reserve Board and the Treasury Department.

Chart 2-9 Conforming and Jumbo Mortgage Rates Interest rates on jumbo and conforming 30-year fixed-rate mortgages fell at the end of 2008.



Looking Forward

The current global financial crisis will create challenges for some time to come. These challenges include developing a new regulatory structure for financial markets, carefully unwinding programs put in place to stem the crisis, and developing a sustainable framework for mortgage financing.

Developing a New Regulatory Structure for Financial Markets

The current financial system has outgrown its supervisory and regulatory structures, which were designed decades ago. The new structure requires balancing the need to encourage vital innovation with the need to deter excessive risk taking. The new structure also requires the flexibility to adapt to market innovations.

The Treasury Blueprint for a Modernized Financial Structure

In March 2007, the Treasury convened a panel to discuss the competitiveness of U.S. capital markets. Industry leaders and policymakers alike agreed that the competitiveness of our financial services sector is constrained by an outdated financial regulatory framework. The panel released its blueprint

in March 2008, which presents a series of recommendations for reforming the U.S. regulatory structure. These recommendations include merging of some of the regulatory agencies that oversee banks with some of the agencies that oversee other financial institutions, taking into account the blurring distinctions between types of financial products; creating an optional Federal charter for insurance to encourage a more competitive U.S. insurance industry; and creating an objectives-based regulatory approach. More information on these recommendations is on the Treasury's website.

PWG Initiatives to Strengthen Oversight and the Infrastructure of the OTC Derivatives Market

The President's Working Group on Financial Markets (PWG), which consists of the Secretary of the Treasury, the Chair of the Board of Governors of the Federal Reserve System, the Chair of the Securities and Exchange Commission, and the Chair of the Commodity Futures Trading Commission, announced a series of initiatives to strengthen oversight and the infrastructure of the over-the-counter derivatives market. Many derivatives are traded over the counter (OTC), which means that they are privately negotiated and traded between counterparties, without going through an organized exchange or intermediary. One type of derivative contract that has become very popular in recent years is the credit default swap (CDS). (See the section "The Onset of the Crisis" earlier in this chapter for an explanation of CDS contracts.) While appropriate use of CDS contracts can help market participants manage some risks, these contracts bring with them exposure to additional firms and additional risks.

On November 14, 2008, the PWG established four specific policy objectives for the OTC derivatives market, with a primary focus on credit default swaps. The first objective is to improve market transparency and integrity for CDS so regulators and investors can access information that could help them effectively monitor the CDS market and make efficient investment decisions. The second objective is to enhance risk management of OTC derivatives by encouraging market participants to adopt standard best practices, including public reporting, liquidity management, senior management oversight, and counterparty credit risk management. The third objective is to strengthen the derivatives market infrastructure. For example, the PWG is supporting industry efforts to establish a central counterparty clearing facility for derivatives that would help to reduce systemic risk and make clear how a major participant's failure would be addressed. The fourth objective is to continue cooperation among regulatory authorities by expanding existing frameworks for cooperation, coordination, and information sharing among U.S. regulatory agencies, as well as international jurisdictions with significant OTC derivatives activity.

Developing Common International Principles

Leaders from the United States and other major nations are holding a series of summits to discuss efforts to strengthen economic growth, respond to the financial crisis, and lay the foundation for reform to help ensure that a similar crisis does not happen again. The initial "Summit on Financial Markets and the World Economy" took place on November 15, 2008, in Washington, D.C., and the leaders from the participating countries agreed on common principles for reforming financial markets and keeping international markets open to trade and investment. The leaders agreed to implement financial market reforms that include addressing weaknesses in accounting and disclosure standards for "off-balance-sheet vehicles" (explained in the next section); ensuring that credit rating agencies avoid conflicts of interest, provide greater disclosure to investors, and differentiate ratings for complex products; ensuring that firms maintain adequate capital; developing enhanced guidance to strengthen banks' risk-management practices; establishing processes whereby national supervisors that oversee globally active financial institutions meet and share information; and expanding the Financial Stability Forum (FSF) to include a broader membership of emerging economies.

The Financial Stability Forum is an organization whose members are senior representatives from national financial authorities (Australia, Canada, France, Germany, Hong Kong, Italy, Japan, the Netherlands, Singapore, Switzerland, the United Kingdom, and the United States), international groups (for example, the International Monetary Fund and the World Bank), and central bank committees. The FSF's stated mandate is to assess vulnerabilities affecting the international financial system, to identify and oversee action needed to address these, and to improve coordination and information exchange among the various authorities responsible for financial stability. Leaders at the November 15, 2008, financial summit called upon the FSF to take an active role in drawing lessons from the current crisis, improving transparency in accounting standards, and strengthening prudential regulatory standards.

Unwinding Temporary Programs

The Government's efforts to restore stability and provide liquidity to the financial system introduced many programs whose continued existence the Government must evaluate as the crisis abates. Some programs should be phased out according to a preannounced schedule, while others should be phased out naturally as the costs of participation come to outweigh the benefits.

One program that is set to end in less than 1 year is the Treasury temporary guarantee program for money market funds that were deposited before September 19, 2008. This program was set up with an initial term of several months, after which the Secretary of the Treasury would review the need and terms for the program and the costs to provide the coverage. If the program is extended, funds will have the opportunity to renew their purchase of ongoing coverage. The Secretary has the option to extend the program until September 2009 at the latest.

Two programs that will likely be phased out over the next 5 years are the Federal Reserve's new credit facilities and the Treasury's Capital Purchase Program (CPP). Aside from the Federal Reserve's term auction facility, the new credit facilities' preannounced termination dates are all within the next 2 years, unless the Federal Reserve determines that conditions warrant postponing these dates. The Treasury's authority to make additional capital purchases expires at the end of 2009. In addition, the CPP provides a strong incentive for participants to raise private capital to pay off the Government capital injection within 5 years, as the cost of these funds rises over time. That is, the senior preferred shares issued to the U.S. Treasury in the program carry a 5 percent dividend for the first 5 years, rising to 9 percent thereafter.

The FDIC has several programs with preannounced end dates in 2009. The Temporary Liquidity Guarantee Program is a new program that guarantees the unsecured medium-term debt of all FDIC-insured institutions and grants unlimited insurance for non-interest-bearing transaction accounts used by many small businesses. Another program is the expansion of the existing deposit insurance program for savings accounts, checking accounts, and certificates of deposits from \$100,000 to \$250,000.

Modernizing Financial Regulation

The global financial crisis revealed that current financial regulation standards and practices, in the United States and throughout the world, are ineffective in preventing a major financial crisis that spans countries and different institutions. While no practical system of regulation could likely have prevented such a crisis altogether, a number of important lessons are clear.

Addressing Innovation and Restructuring in Financial Markets

First, financial regulation must be adapted to account for the major innovations and restructuring in financial markets in recent decades. The current U.S. financial regulatory framework is fraught with redundancies and gaps, in part produced by more than one regulator overseeing individual institutions. Depository institutions, such as commercial banks and savings associations, are overseen by five Federal regulators as well as State regulators. Large holding companies with depository institutions, investment banks, and insurance companies may face a complex system of multiple regulators.

While it is clear that an overhaul of financial regulation is necessary, what is less clear is exactly how a new regulatory framework should be structured. The new financial regulatory framework needs to balance several objectives. Protecting investors and consumers and establishing a stable financial system are two necessary requirements for any successful regulatory system, but regulators must be careful to balance these goals against potential detrimental effects on capital formation and the desire to promote beneficial innovation.

Strengthening Disclosure Requirements

Second, regulators need to strengthen disclosures related to complex financial instruments, particularly those that are held "off balance sheet." A firm's balance sheet is one of many financial statements the firm prepares to provide useful information to investors, creditors, and regulators. The purpose of a balance sheet is to present a snapshot of the firm's financial position. The basic components of a balance sheet are assets, liabilities, and equity. Assets are things that provide probable future economic benefit to the firm. Liabilities are claims on those assets, such as debt issued to finance the purchase of assets. Equity is the residual interest in the assets that remains after deducting the liabilities.

While the above definitions appear straightforward, many questions and issues arise regarding whether certain items should be reported as liabilities or as equity. In addition, questions arise in determining which items should be reflected on the balance sheet at all. The formal accounting standards that are used to distinguish between on- and off-balance-sheet items are very complicated and are open to judgment. As a result, some companies may hold large amounts of off-balance-sheet items that do indeed affect a company's health and stability. For example, at the outset of the financial crisis, some large financial institutions had *structured investment vehicles* (SIVs) holding billions of dollars in mortgage-related assets that were not reflected on their balance sheets.

SIVs are investment funds that issue short-term debt, such as commercial paper, to finance the purchase of long-term assets, such as mortgage-backed securities. Leading up to the financial crisis, SIVs were often highly levered with a great deal of debt relative to their capital. In fact, some SIVs were used to circumvent regulatory capital requirements that restricted the amount of leverage that could be used by the parent financial institutions. In the end, the SIVs' combination of leverage and reliance on short-term funding made

their parent financial institutions vulnerable to large mortgage losses. Many investors were surprised because institutions had disclosed little about the risks posed by the off-balance-sheet SIVs.

The challenge for financial market regulators is to address weaknesses in accounting and disclosure standards for off-balance-sheet items. Once complete and accurate information on the financial condition of firms is disclosed, regulators can more effectively measure firm-specific and systemwide risks. Then regulators can prudently manage those risks as appropriate.

Addressing the Pro-Cyclicality of Regulatory Capital Requirements

Third, problems with pro-cyclical regulatory capital requirements need to be addressed. During good economic times, values of financial assets increase, thus increasing a firm's capital and its ability to increase its liabilities, which helps to feed credit booms. During difficult times, values of financial assets decline. The firm's capital declines in value, and it is forced to reduce its liabilities or somehow increase its capital to satisfy regulatory requirements, which feeds the economic downturn.

The combination of mark-to-market accounting, illiquid markets, and forced sales to satisfy regulatory capital requirements during a downturn can lead to a vicious cycle. Mark-to-market accounting is one method for determining an asset's fair value. A fair value is the price that would be received if an asset were sold in an orderly transaction between market participants. The mark-to-market approach uses observable market prices to calculate an asset's fair value. An alternative valuation method is the mark-to-model approach, which relies on standard financial models that use factors such as interest rates, the probability of default, and related cash flows to calculate an asset's fair value.

Some observers have blamed mark-to-market accounting for driving asset prices well below the values determined by the asset's underlying fundamentals, such as interest rates and probabilities of default. These observers argue that understated asset values undermine investor confidence and have forced many firms to raise capital or sell assets to satisfy regulatory requirements. However, as discussed previously, problems at many financial institutions today are due less to their asset values being undervalued and more to the firms having too many troubled assets (such as MBS), engaging in poor risk management, and becoming too dependent on short-term borrowing. Mark-to-market accounting has helped bring attention to these problems by exposing which firms were very heavily invested in these troubled assets, but it did not cause them.

Investors and regulators can best evaluate a firm when they are aware of the market value of a firm's assets. Transparency is vital to the healthy functioning of financial markets. To effectively address the pro-cyclicality

problem, in which firms may be forced to undertake actions in a downturn that worsen the downturn, financial accounting rules should be distinguished from the regulatory policies that establish standards for capital requirements. The purpose of financial accounting is to provide reliable information about a firm's financial situation so that investors and creditors can make sound economic decisions. From that perspective, mark-to-market accounting is useful because it improves the quality of information in the marketplace.

As noted earlier, some observers have argued that falling asset prices in acutely distressed markets have led firms to report reduced levels of capital. Then, in order to comply with regulatory capital requirements, firms have sold assets, thus driving prices lower. Even if this selling of assets in order to comply with requirements is responsible for the subsequent asset price declines, mark-to-market accounting is not the root cause. Instead, the problem lies with a regulatory policy that is too rigid in determining capital requirements. When most asset values are falling, massive sales of assets to meet the required ratio of capital to assets are likely to be destabilizing. To reduce this problem, regulators could maintain more flexible and forward-looking standards in distressed markets, so that capital requirements themselves do not create unhealthy firms.

The Future of Mortgage Financing and Fannie Mae and Freddie Mac

Over the first half of 2008, investors became increasingly concerned about the capital positions of the GSEs Fannie Mae and Freddie Mac, following a string of quarterly losses by both firms due to reductions in the value of their portfolio holdings of MBS and mortgage loans, and because of greater-thanexpected credit losses. Eroding investor confidence in the GSEs endangered not only the U.S. mortgage market but the global financial system more generally, given the central role the GSEs play in mortgage financing and how broadly their debt and MBS are held around the world. At the recommendation of the Administration, Congress passed a bill in July 2008 that, among other things, created a new and stronger regulator for the GSEs, the Federal Housing Finance Agency (FHFA), and provided the Treasury with powers to purchase GSE debt and equity.

In September 2008, Fannie Mae and Freddie Mac were placed under conservatorship of the FHFA as serious concerns surfaced about the financial stability of these systemically important financial institutions. (See "Onset of the Crisis" above.) While conservatorship can provide necessary stability over a period of months, a long-term plan to reestablish the link between mortgage lenders and financial markets is critical to the future of the mortgage market.

Any plan for the long-term restructuring of Fannie Mae and Freddie Mac should have at its core at least three goals: to promote the efficient functioning of the mortgage market, even during periods of systemwide financial stress; to minimize systemic risk, which likely implies that government support should be either explicit or absent; and to protect the taxpayer.

Liquidation of the GSEs and Replacement by a Fully Private Market

One approach is to liquidate the GSEs and allow the private market alone to handle mortgage financing, maximizing the benefits of private market The structure would be one in which private banks and other financial institutions securitize mortgages as a part of their business model, but no single firm would be a dominant player in this market, and the mortgage securitization business would make up only a fraction of the total business of each institution. This solution would dramatically reduce taxpayer risk, maintain a functioning mortgage market in most situations, and eliminate distortions. The elimination of any implicit or explicit government guarantee would, however, increase mortgage interest rates somewhat. This is one reason that the full privatization of mortgage financing may not be the best option in the near term, despite its attractive features.

Importantly, recent experience suggests that fully private financing may not be viable under stressed financial conditions. As an example, the recent financial crisis led to a near-halt in private mortgage securitization in the United States. In contrast, Fannie Mae and Freddie Mac continued to produce and sell large quantities of MBS throughout 2008, with private demand remaining somewhat secure. Apparently, investors valued GSE MBS because of the instruments' implied government support, suggesting that some form of backstop provided by the Government or widely dispersed private reinsurers may be necessary to maintain mortgage financing during periods of systemwide financial stress.

Government-Provided Insurance of MBS

The Government could sell insurance to GSEs and other financial institutions that apply for a charter to create MBS from conforming mortgages. structure would foster competition among institutions, as the GSEs would have no institutional advantage over private institutions. Such a structure, with its explicit but limited role for government involvement, may be a good near-term solution for mortgage financing. Taxpayers would bear risk, but would be compensated by the insurance premiums paid by participating institutions. Depending on where the price of the insurance is set, the private sector could eventually compete with the Government by offering alternative mortgage products that could replace the Government insurance.

Nationalizing the GSEs

Another GSE structure that has been proposed by some but poses many challenges is nationalization. In this alternative, the GSEs could be taken out of conservatorship and be fully nationalized. As government corporations, they would be set up to guarantee conforming mortgages or MBS directly. What is less clear is how nationalization would be accomplished: Would the GSEs' debt become the Government's debt? What would happen to the equity held by existing shareholders? In addition, if Government prices for this guarantee were below the costs incurred by private markets, private competition for securitization would be precluded. Although systemic risk would be eliminated and the GSEs would have little incentive to engage in excessively risky behavior for short-run profits without shareholders, taxpayers could bear substantial risk. Finally, the terms of mortgage financing would be set by the Government, a role that can be fulfilled by the private sector.

Turning the GSEs into a Public Utility

Alternatively, Fannie Mae and Freddie Mac could be combined and turned into one public utility. This regulated private corporation would directly issue MBS, presumably with some government backing. Prices of the MBS and their rates of return would be set by a commission, and regulations would place tight limits on the company's investment portfolio. Public utilities are generally established in natural monopoly settings (because, for example, building duplicate telephone or power lines is inefficient) as a second-best solution to prevent monopoly pricing and guarantee public service. The mortgage market is not a natural monopoly, however, and can be easily served by many firms without duplicative inefficiency. As a consequence, a public utility would result in many distortions and disadvantages without significant offsetting positives.

Implicit Guarantees

The issue of distortions arising from implicit government guarantees is not limited to Fannie Mae and Freddie Mac. An increasingly important source of financing for depository institutions in recent years has been the Federal Home Loan Banks (FHLBs). As of the third quarter of 2008, the FHLBs had granted nearly \$1 trillion in loans. These loans, often backed by real estate—related collateral, have been extended to the majority of depository institutions in the United States. The FHLBs raise funds at below-market rates because they have advantages over other debt issuers, such as certain exemptions from State and local taxes and an assumed implicit government guarantee even though the FHLBs are private member-owned cooperatives. Some of these savings are passed along to member banks, who, as a result,

rely—in some cases very heavily—on financing from the FHLBs. Any long-term plan for mortgage financing must eliminate the distortions in credit markets created by implicit guarantees of this nature.

Conclusion

The United States experienced a crisis in both financial markets and housing markets in 2008. One factor that led to this crisis was an abundance of inexpensive capital that helped finance a housing boom. This boom was fueled by the growth of subprime mortgages and expanded mortgage securitization. As the boom proved unsustainable, the crisis was exacerbated by unprecedented declines in house prices, rising default rates on residential mortgages, and a resulting sharp decline in the value of mortgage-related assets. The assets were held by a wide range of institutions, some of which were highly levered and highly dependent on short-term funding. The resulting failure and nearfailure of some of these firms, combined with broad-based declines in asset prices, placed enormous stresses on world financial markets. Credit markets froze, and confidence in the financial system eroded.

The Administration and the Federal Reserve aggressively responded to restore stability to the U.S. financial system and support the functioning of financial markets and firms. The Government has taken unprecedented action to boost liquidity in short-term funding markets; provided substantial new protections for consumers, businesses, and investors; and cooperated closely with its international partners. Looking ahead, the global financial crisis presents several challenges for the United States. Among them are the need to improve financial regulation, unwind temporary programs in an orderly fashion, and develop long-term solutions for Fannie Mae and Freddie Mac.

Energy and the Environment

↑ Ithough fossil fuels will continue to compose a large share of the U.S. Aenergy portfolio for some time, the Federal Government has taken major steps to increase and diversify the Nation's energy supply and improve the Since 2001, the Government has made significant investments to develop cleaner and more reliable energy sources. Several regulatory changes are expected to deliver dramatic improvements in air quality nationwide. The President has signed two major pieces of energy legislation, the Energy Policy Act (EPACT) of 2005 and the Energy Independence and Security Act of 2007 (EISA). EISA was enacted in response to the President's "Twenty in Ten" goal, issued in the 2007 State of the Union Address, of reducing U.S. gasoline usage by 20 percent in the next 10 years by improving fuel economy and increasing the production of alternative fuels. EISA also includes numerous energy efficiency mandates that are projected to result in substantial reductions in greenhouse gas (GHG) emissions. In addition, the Nation is on track to meet—and currently projected to exceed—the President's 2002 goal of reducing U.S. GHG intensity (emissions per unit of GDP) by 18 percent by 2012. This spring, the President set a new goal of stopping the growth in total U.S. GHG emissions by 2025 and to begin decreasing them thereafter. The Administration has also recently led efforts to encourage wider international action on addressing GHGs, including action in developing countries.

Despite these steps by the Administration to address the problems associated with the country's reliance on fossil fuel-based energy sources, major challenges remain. For public health and environmental reasons, the United States must continue to improve air quality by ensuring that State and local areas come into compliance with Clean Air Act (CAA) requirements. Additional steps should be taken to mitigate the global problem of rising GHG emissions associated with fossil fuel-based energy consumption. Furthermore, diversifying the Nation's portfolio of energy sources and increasing domestic production may reduce vulnerabilities associated with the U.S. dependence on imported fossil fuels.

This chapter discusses policies for addressing the Nation's energy needs in the context of both global climate change and the reduction of local and regional pollution associated with fossil fuel-based energy use. It reviews some of the steps this Administration has taken to advance the transition to new sources of energy with fewer environmental and security concerns, and to find cleaner, more efficient methods of using existing energy sources. It

also identifies some of the overarching challenges that lie ahead in developing any comprehensive energy policy.

The key points in this chapter are:

- Because of innovative regulations promulgated under this Administration, there should be substantial improvements in air quality over the next few decades. Two rules that implemented cap-and-trade programs in the electricity sector represent a significant step in using cost-effective, market-oriented policy instruments to dramatically reduce power plants' emissions of sulfur dioxide, nitrogen oxide, and mercury.
- Despite widespread support for increased use of market-based approaches to achieve our environmental and energy policy goals going forward, challenges remain in realizing the full potential of these approaches.
- There is an increasing need to reassess how well existing laws can address the environmental problems associated with fossil fuel use in more costeffective ways. For example, it may become increasingly costly to make additional reductions in traditional air pollutants, and existing statutes were not meant to regulate global problems such as GHG emissions.
- Substantial reductions in global GHG emissions will require participation by all large emitters (countries and sectors within countries).

U.S. Energy Use and Policy Goals

Fossil fuels continue to satisfy the majority of the Nation's demand for energy. Petroleum accounts for about 40 percent of total energy consumption; 70 percent of this petroleum is used for transportation. Coal and natural gas are the next most commonly used fuel types, representing 22 percent and 23 percent of consumption, respectively. Coal is used almost exclusively for electricity production; approximately a third of natural gas consumption is also used in electricity production, with the remaining twothirds being used directly by residential, commercial, and industrial sources. Finally, nuclear power and renewable energy sources such as hydropower, biomass, geothermal, wind, and solar power remain a small but growing share of our energy consumption, with nuclear power accounting for approximately 8 percent of U.S. energy consumption in 2007 and renewable energy accounting for approximately 7 percent. (See the 2008 Economic Report of the *President* for more details on U.S. energy sources.)

The Nation's current patterns of energy use pose a number of problems that warrant government involvement in energy markets. One is the concern over the public health and environmental effects of fossil fuel-based energy production and use. In particular, the emission of many common air pollutants that are created by the combustion of fossil fuels increases the risk of premature mortality and numerous acute and chronic health conditions. Additionally, these emissions damage ecosystems, impair visibility, and have a substantial impact on water and soil quality. In this chapter, "common air pollutants" refers to the so-called *criteria pollutants* (particulate matter (PM), ozone, nitrogen oxides (NO $_{\rm X}$), sulfur dioxide (SO $_{\rm 2}$), carbon monoxide (CO), and lead), although much that is written about the criteria pollutants also applies to hazardous air pollutants or air toxics.

As in many other countries, anthropogenic (human-made) U.S. GHG emissions continue to increase. Because of the environmental risks posed by climate change and the national security implications of events like droughts and rising sea levels, many countries have grown more aware of the need to slow and reverse the growth of global emissions of carbon dioxide (CO₂) and other greenhouse gases. In 2007, total U.S. GHG emissions were 7,282 million metric tons of CO₂ equivalent (MMTCO2e), a 3-percent increase over 2000 levels; this increase is mainly attributable to energy use. Energy-related CO₂ emissions account for 98 percent of U.S. CO₂ emissions and more than 80 percent of total U.S. GHG emissions. The United States represented about 17 percent of world GHG emissions in recent years.

For energy security reasons, concerns also remain about the U.S. reliance on imported fossil fuels. Net oil imports to the United States account for a substantial share of national oil consumption, which many argue makes the United States economy more vulnerable to oil price shocks that are the result of supply disruptions in unstable exporting regions. However, as economists have pointed out, it is important to remember that it is primarily U.S. oil dependence, rather than U.S. dependence on imported oil, that exposes the country to turmoil in world oil markets. Given the integrated nature of the oil market, a supply disruption in one region still removes oil from the world market causing the price of oil to rise regardless of where it was produced.

Despite a weak economic outlook for 2009, projections indicate that energy consumption in the United States and around the world will continue to grow in the long run. Thus, we will need to continue to determine how to meet these needs while both addressing energy security concerns and improving environmental protection. It is clear that long-term policies aimed at reducing the Nation's overall reliance on fossil fuels can help to advance both goals. However, taking intermediate steps that help us use fossil fuels in more responsible ways during the transition to alternative sources of energy is still consistent with this long-term objective. For example, this Administration has supported removing regulatory impediments to bringing domestic energy sources, including fossil fuels, to market, to advance energy security objectives. It has also supported finding cleaner ways of using fossil fuels. Some of the Administration's efforts on each of these fronts are covered later in this chapter. Before that, the next section provides a brief overview of policy approaches for addressing these objectives.

The Promise of Market-Oriented Policy Approaches

This section reviews the advantages of market-oriented policies, while noting some of the challenges that must be overcome to use them most effectively in tackling some policy objectives such as climate change. This section also discusses the role for policies supporting research and development and widespread adoption of new technologies that pose fewer environmental or security concerns.

Market-Oriented Environmental Regulation

Regulatory approaches for addressing the policy goals outlined above are often grouped roughly into two categories: conventional, or command and control approaches, and market-oriented approaches. approaches to reducing pollution, for example, tend to involve policy instruments that mandate the amount individual entities can emit or prescribe which abatement behaviors or technologies should be adopted. These types of policies are often called command and control approaches because they offer little flexibility about how a particular environmental goal may be met (although, among command and control approaches, performance-based standards can offer a bit more flexibility in achieving abatement goals than do technology-based standards). Market-oriented approaches, by contrast, encourage behavior through price signals rather than with explicit standards on pollution-control levels or methods. Policy tools such as tradeable permits or taxes, for example, offer firms an incentive to reduce their pollution by placing a price on each ton of pollutant emitted.

The primary advantage of market-oriented policies is that, if they are designed well and properly implemented, they have the potential to achieve environmental goals at a lower cost to society than traditional command and control policies. This is because of the greater flexibility they offer in determining how to reduce emissions. If emitters can choose the method of pollution reduction, they have an incentive to find the lowest-cost way to meet the regulatory requirement. For example, policymakers could require producers and consumers to take into account the environmental and public health effects of a criteria pollutant like sulfur dioxide by imposing a tax on emissions that is equal to the incremental damage caused by a unit of emissions or by establishing a *cap-and-trade* program, under which policymakers set an overall cap on emissions but allow regulated entities to trade rights (called *allowances*) to those limited emissions. Since the cost of reducing emissions may vary across firms and sectors, what may be the least expensive approach for one firm may be a relatively high-cost approach for another

firm. Emitters that can reduce emissions most inexpensively will do so and then sell allowances to those who face much higher abatement costs. As a result, the most economically efficient allocation of the pollution-control burden among emitters can be achieved without requiring the policymaker to make assumptions about how compliance costs may vary across firms.

Another significant advantage of market-oriented approaches is that they can provide a greater incentive to develop new ways to reduce pollution than can command and control approaches. Command and control policies often offer incentives to abate only to the level of the standard, whereas a pricing approach encourages emitters to continue to innovate as long as they find it relatively cheap to do so. Well-designed pricing of CO₂ emissions through a tax or cap-and-trade program, for example, would give firms a direct incentive to invest in developing new low- or zero-carbon technologies based on their expectations of the increases in the costs of emissions. It would also encourage competition in making incremental innovations in existing emission reduction options. Of course, it will be important to address hurdles in providing the infrastructure necessary to allow large-scale deployment of new technologies, a point to which we return below.

Both of these advantages have created widespread support among economists for greater use of emission pricing policies to address environmental problems, including those problems associated with fossil fuel-based energy However, it is important to emphasize that challenges remain in realizing the full potential of market-oriented policy approaches. This is especially true in the context of climate change. Carbon pricing through a cap-and-trade system or, closely related, by taxing fossil fuels in proportion to their carbon content, will require broad-based participation to be effective in addressing global GHG concentrations. Limited action that does not result in emissions reductions from countries that contribute a significant share of world emissions will not lead to significant progress on climate change goals, since the majority of the future growth in emissions will come from developing nations. Absent action by all major emitting countries, it will be impossible to have a meaningful impact on the problem. Also, without similar policies across these countries, firms in energy-intensive industries that face high regulatory costs in the U.S. could have an incentive to move their operations to unregulated foreign markets. These issues and other challenges in implementing more economically efficient policies are discussed in greater detail below.

The Role for Technology Inducement Policies

Another method policymakers often use to give incentives for taking into account the environmental or security consequences of a particular behavior is to subsidize behavior that poses fewer environmental or security concerns.

For example, similar to the way a business reacts to a price signal such as an emissions tax, a profit-maximizing business will abate pollution or invest in research and development (R&D) in cleaner technologies up to the point where the cost is more than the subsidy or reward earned for doing so. This is not to imply that a tax and subsidy are equivalent policies. A tax generates revenue that can be used to offset other preexisting distortionary taxes (such as payroll taxes) in the economy, whereas a subsidy requires that revenue be raised by increasing existing taxes or requires reducing spending in other areas. Still, many economists maintain that, as a complement to any pricing policy, governments will need to support R&D for alternative energy sources and ensure that any R&D support is managed efficiently and effectively. These policies may be justified on economic grounds primarily because the process of generating and diffusing new energy technologies is characterized by imperfect market outcomes. The most significant of these is the general underinvestment in innovation due to the pure public-good nature of R&D. Because devoting a firm's resources to innovation may yield knowledge spillovers—benefits to society that do not translate into profits for the innovating firm—there may be an inefficient, low level of R&D in alternative energy technologies. This problem has long been recognized in all industries, and there are numerous policies in place to help innovators reap the rewards of their innovations (for example, patents, copyright laws, funding for general science research).

In assessing the desirability of public sector support for research and development, one might consider the extent to which private sector incentives for R&D already exist. Private incentives for R&D investment may vary across categories of prospective R&D:

- Emission control for currently regulated pollutants. In this case, there are regulatory incentives for the private sector to develop technologies that control emissions, but there will only be incentives to develop technologies that reduce emissions in ways captured by regulation.
- Energy efficiency, new energy sources, and alternative energy. Since energy is an expensive input, there are strong private sector incentives to develop new or improved technologies even without any government regulation. Support for public sector R&D in this area would be specifically justified if individual producers and consumers do not account for the broader value of energy security or of positive spillovers to others from the technology that goes with the new alternative.
- Emissions from pollutants that are not currently regulated. In this case, the incentive for private sector R&D is very limited, because prospective developers are not only uncertain about whether their new invention will work, but also must consider if or when the pollutant will be regulated, and whether their technology will be acceptable under future regulations.

Technologies to reduce emissions of non-CO₂ greenhouse gases are among those that are not currently regulated, as are technologies that would capture and store such gases to prevent them from entering the atmosphere.

It is important to highlight that domestic R&D support for alternative technologies may also help create incentives for action on climate change by other major emitting countries that are unwilling or unable to adopt GHG-reducing regulations. For example, investment in developing low-cost, low-carbon technologies could lead to inventions that such countries would adopt voluntarily. Additionally, it is often argued that production costs of new, unproven technologies fall as manufacturers gain production experience. If the gains from such "learning by doing" experience can be captured by other producers without compensating the early adopters, then there may be inefficient, low deployment of new technologies.

The difficulty in promoting technology adoption through subsidies and other tools lies in designing policies that are neutral across all alternative technologies. Weighting the size of a subsidy by the degree to which each technology reduces environmental and security concerns would help to ensure that the Government is not in the position of picking winners. In April 2008, the President called for a reform of the existing low-carbon technology deployment tax incentives into a single, expanded incentive with such features. We return to this issue below. Overall, there is less agreement among economists about the justification for these types of policies that target the commercial use of a technology than those that target the R&D stage of the technology innovation process. Many argue that once fundamental research is no longer necessary, the market should decide how widely a new technology is adopted.

Increasing Use of Alternative Energy Sources

There are many alternatives to fossil fuels available for meeting our energy needs in the electricity, transportation, and other sectors. Electricity may be generated using renewable sources (such as wind, solar, geothermal, biomass, and hydropower) or nuclear power. In the transportation sector, solutions range from finding new fuels for traditionally gas-powered vehicles to designing different types of vehicles such as those that run on electricity or hydrogen. Policy tools used under this Administration to promote the transition to some of these alternatives can be grouped into two categories: technology policies that provide incentives to encourage R&D and deployment of new technologies, and mandates that require increases in alternative energy use.

Generating Electricity

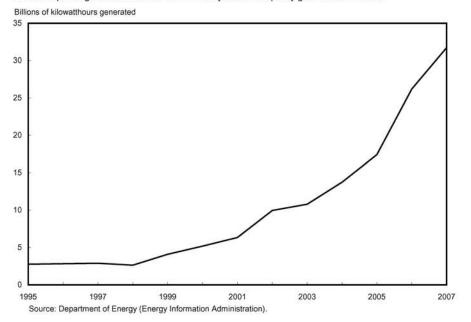
In the electricity sector, the Administration has supported development of alternative energy technologies through a mix of incentives, including both basic research investment and technology deployment policies. Department of Energy funding for electricity-related R&D, for example, totaled \$11.5 billion (2007 dollars) from fiscal year 2002 through fiscal year 2007. This section reviews some of the existing incentives for promoting electricity generation from renewable energy sources and nuclear power.

Renewable Energy

Renewable sources of energy such as wind, solar, and geothermal power are desirable for generating electricity because, despite their high initial fixed costs, they are domestic sources of power with no fuel costs or emissions except those involved in building the infrastructure required to generate the power. Biomass-fired electricity, which is derived from sources such as wood, waste, and alcohol fuels, is also a renewable source. While not technically a zeroemission process, biomass energy produces fewer common air pollutants than coal and, depending on the feedstock and firing process, has the potential to create fewer GHG emissions than either conventional coal or natural gas. This Administration has encouraged deployment of renewable energy technologies in electricity generation primarily through tax incentives. For example, the renewable energy production tax credit (PTC) has been important in encouraging the growing market for wind power. Although wind still provides only 1 percent of the United States's electricity, wind generation has grown by about 400 percent since 2001 and, in 2007, made up 10 percent of electricity generation from renewable energy sources (see Chart 3-1). This growth is in part because, in some areas, the PTC makes the cost of wind more competitive with other energy sources such as natural gas. Incentives and requirements for renewable energy use in numerous States are also contributing to the increase. The Federal PTC has been renewed and expanded several times since its original enactment in 1992, including by EPACT 2005 and again in October 2008. It is currently available for a broad range of renewable sources such as solar power; certain geothermal, landfill-gas, and biomass projects; ocean energy; and livestock methane-based power.

Renewable energy deployment is also encouraged through tax credits for investments in renewable energy equipment and property. For example, the Energy Policy Act of 2005 (EPACT) increased the solar investment tax credit (ITC), which offers businesses a tax credit for investments in solar energy equipment and installations. The 21-percent increase in solar powered electricity generation capacity between 2006 and 2007 may indicate that the solar ITC is having some effect. In order to provide clear and consistent incentives for technology investment, policies such as the PTC should be maintained for a

Chart 3-1 U.S. Wind Power Generation, 1995–2007
U.S. wind power generation has soared in recent years and capacity grew further in 2008.



reasonable length of time but be phased out once they are no longer warranted to address barriers associated with the early commercialization of a technology.

It is worth noting that renewable energy sources, especially wind and solar, face infrastructure obstacles because many large-scale renewable energy installations are most likely to be built in remote areas. Also, neither wind nor solar can currently be relied on as a consistent means to produce energy 24 hours a day. The challenges of bringing these resources to market and finding better ways to store energy are discussed in more detail later in the chapter.

Nuclear Power

In addition to renewable energy sources, the Administration has promoted increased use of nuclear power as a clean, efficient energy source to meet the Nation's growing need for electricity. Nuclear power is not a new technology. Currently, 104 commercial nuclear generating units (reactors) in the United States supply approximately 20 percent of the country's electricity. Nuclear power generation makes no contribution to global ${\rm CO_2}$ emissions and produces no notable emissions of ${\rm SO_2}$, ${\rm NO_x}$, and particulates. In addition, nuclear plants have low operating costs and are able to operate at close to full capacity all the time, thus providing a reliable, constant supply of electricity. Despite these advantages, high construction costs, investment risks, long-term management of spent fuel generated by nuclear plants, and regulatory

hurdles have deterred any new commercial reactors from being ordered and approved for construction since 1978. The last new nuclear plant came on line in 1996.

The Administration has taken several steps to address some of the concerns that are barring greater use of nuclear energy. EPACT 2005 provided a new production tax credit to reward investments in the latest developments in advanced nuclear power generation. Since then, the Nuclear Regulatory Commission has received 17 applications for combined construction permit and operating licenses for 26 new nuclear generating units.

As part of EPACT, the President also authorized the creation of loan guarantee programs to encourage commercial use of new or significantly improved energy related technologies, including nuclear power. In 2008, Congress authorized loan guarantees worth over \$18 billion to support construction of new plants and enable nuclear plant owners to reduce their interest costs. A loan guarantee is a promise by the Government to take responsibility for a certain portion of a loan in case the debtor defaults. By assuming some of the risk associated with loans for new projects, these guarantees are implicit subsidies for new nuclear energy projects. If priced appropriately, loan guarantees can help to encourage early commercial use of new technologies that had been hampered by informational asymmetries between project developers and lenders. However, such guarantees should be used with caution. If the Government assumes too much of the financial or political risk associated with a new project, investors may attempt to embark on speculative projects that could end up being costly for taxpayers. This same caution applies to loan guarantee programs available to support other energy sources such as renewable and/or energy-efficient systems, cleaner coal-based power, and other technologies.

Alternative Transportation Fuels

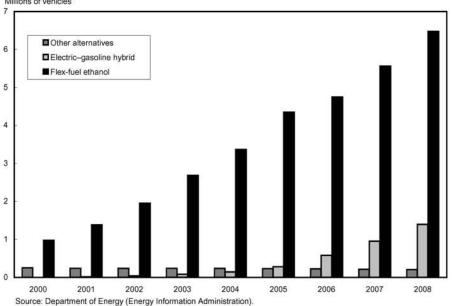
Petroleum use in road travel dominates energy consumption in transportation. In recent years, tax incentives have increased the use of some alternatives to petroleum, especially corn-based ethanol, but there has been an increasing emphasis on promoting alternatives that do not rely on food crops and have greater promise for significantly reducing GHG emissions. The Administration's efforts in this area have focused on providing incentives and funding to develop new vehicle technologies and reliable, low-cost alternative fuels to conventional gasoline and on mandating increased use of renewable fuels, including biofuels from non-food sources.

Incentive-Based Promotion of Alternative Fuels

Federal R&D support for alternative fuels has been led by a \$1.2 billion investment (over 5 years) in hydrogen-based fuel cell vehicles and about

\$1 billion since 2001 in cellulosic ethanol—an ethanol produced from wood, grasses, or the nonedible parts of plants. These fuels face significant cost hurdles which currently prevent them from being commercially viable. The benefits of R&D in hydrogen vehicles will take a long time to be realized because the vehicles still face formidable technological obstacles that may take decades to resolve. The projected cost of cellulosic ethanol, however, has dropped by more than 60 percent since 2001. If these cost reductions continue, cellulosic ethanol may become a viable transportation fuel more quickly than alternatives like hydrogen. Aided by the Corporate Average Fuel Economy (CAFE) credit given to manufacturers for producing "flex-fuel" vehicles that can run on either all gasoline or up to 85 percent ethanol, the number of light-duty vehicles that can accommodate large amounts of ethanol has grown by more than 5 million since 2001 (see Chart 3-2). However, as with other types of biofuels, significant economic, scientific, environmental, and logistical challenges remain with incorporating nationally significant volumes of cellulosic ethanol into the market. Fuel distributors and gas station owners will need to make significant investments in the infrastructure for new fuel distribution and manufacturers will need to make changes to vehicles to accommodate substantially larger biofuel volumes; existing gas station infrastructure and non-flex-fuel vehicles are currently only compatible with gasoline blends consisting of up to 10 percent ethanol.

Chart 3-2 Alternative Fuel Light-Duty Vehicles in the U.S. Fleet Flex-fuel vehicles, capable of burning up to 85% ethanol, have led U.S. growth in alternative-fuel vehicles. Millions of vehicles



Another alternative technology that shows more near-term promise in reducing gasoline consumption is electricity for powering vehicles. consumer tax credits created under EPACT in 2005 for purchasing electric gasoline hybrid vehicles have helped to encourage hybrid sales, and there are now more than 1 million hybrid vehicles on the road. The so-called "plug-in hybrid" design takes this technology a step further by using the gas engine only for back-up status and letting the electric motor do most of the work. This is possible because the large battery pack of the plug-in hybrid can be recharged using a standard household outlet. The cost of the battery pack is a major hurdle to widespread commercialization of these vehicles. Between 2001 and 2008, the Department of Energy helped to advance battery technology with about \$230 million in funding for energy storage R&D.

Replacing gasoline with electric power helps address energy security concerns by increasing the use of domestic, non-petroleum energy sources to meet our transportation needs. It does not eliminate GHG concerns or emissions of many local pollutants if the electricity is generated using fossil fuels, but it does reduce these concerns as well. Electric vehicles with more efficient alternating current systems would produce fewer CO₂ emissions per mile than most conventional gasoline vehicles if powered by electricity from a coal-fired power plant. CO₂ emissions per mile driven would be significantly lower than with gasoline if the electricity were generated with natural gas. This would also result in fewer emissions than powering a car directly with natural gas, which has shown greater use as an alternative to diesel in heavier trucks or buses. It will still be necessary to modernize and expand the electricity grid to accommodate substantial increases in electric power usage in the transportation sector. The challenge of expanding electricity transmission is discussed in more detail below.

Renewable Fuels Standard

In addition to using incentives to promote alternative fuels, the Administration has also acted to mandate increased use of alternatives to petroleum in transportation. In 2007, the President announced the Twenty in Ten goal to reduce U.S. gasoline use by 20 percent in 10 years. The passage of the Energy Independence and Security Act of 2007 (EISA) represents a major step toward this goal by requiring substantial increases in light-duty vehicle fuel economy standards and an increase in the production of renewable fuels.

The renewable fuels standard (RFS) portion of EISA is an expansion of the first RFS the President signed into law as part of Energy Policy Act of 2005 (EPACT), which required a minimum volume of renewable fuel to be sold or blended with gasoline in the United States. EISA raises the 2008 standard from 5.4 billion gallons to 9 billion gallons and increases the requirement each year thereafter, until reaching 36 billion gallons of renewable fuel

by 2022. Beginning in 2009, about 5 percent of the RFS must be met with advanced biofuels—such as cellulosic ethanol made from switchgrass or wood chips or biodiesel made from leftover restaurant grease. By 2022, nearly 60 percent of the RFS-mandated volume must come from advanced biofuels. These advanced biofuels hold greater potential for reducing GHG emissions than current U.S. biofuels and are also less likely to affect future food prices because they are not reliant on food crops as feedstock, although some advanced biofuels may compete for land and other inputs with food crops. However, minimizing the negative environmental impacts (for example, on soil, water quality, forest cover, habitat diversity, and increased GHG emissions from landuse changes) of biofuel production is likely to remain a significant challenge regardless of the type of feedstock. Furthermore, while the RFS will lead to an increase in the use of biofuels, the expected reduction in gasoline consumption (and associated emissions) will likely be dampened due to unintended consequences. For example, gasoline consumption may increase in other countries due to a rebound effect from lower demand in the United States.

The risk of food-price spikes resulting from a binding RFS mandate could be mitigated by establishing a "safety valve" mechanism that would effectively cap the cost of meeting the mandate. With such a mechanism, a refiner or fuel blender would be allowed to purchase credits from the Government to satisfy its RFS requirement if biofuel prices exceeded a predetermined safety-valve price. This would prevent drastic shocks in food prices and also offer more regulatory certainty to refiners, blenders, and biofuel producers. Despite the Administration's support for a safety valve in the RFS mandate, the final version of EISA did not include such a provision.

Harnessing Existing Energy Sources More Responsibly

Given the economy's overwhelming reliance on fossil fuels, it is reasonable to assume that it will take some time to transition to alternative sources of energy. Therefore, in addition to supporting the development of alternatives described above, the Administration has led a parallel effort to promote cleaner, more efficient, and more reliable use of existing sources, including fossil fuels.

Increasing Efficiency

Efforts to use existing energy sources more efficiently have focused on improving efficiency in vehicle fuel use and in electric energy consumption through fuel economy standards on new cars and light trucks and through various lighting and appliance standards.

Vehicle Fuel Economy Standards

The EISA Vehicle Fuel Economy Mandate builds on the Department of Transportation's 2003 and 2006 fuel economy rules for light-duty trucks and requires that the light-duty vehicle fleet (new cars and light trucks) meet a Corporate Average Fuel Economy (CAFE) standard average of 35 miles per gallon (mpg) by 2020. The 2003 rulemaking increased fuel economy standards of new light trucks by 7 percent between 2004 and 2007 model-years, and the 2006 rulemaking required an additional 8 percent increase, bringing fuel economy of new light trucks to 24 mpg by model year 2011. The 2020 requirement represents approximately 40-percent increase in miles per gallon over 2008 standards: 27.5 mpg for passenger cars, and 22.5 mpg for light trucks. Several new credit trading and banking provisions will help reduce the cost to manufacturers of meeting the new standards and are an example of the use of market-based mechanisms. Under EISA, manufacturers whose vehicles exceed minimum CAFE standards can sell credits to other manufacturers below the standards, and companies can transfer credits between their car and light truck fleets. Companies are also permitted to carry credits forward for 5 years (instead of the current 3 years), which should encourage earlier introduction of new technologies and overcompliance in the initial years. In addition, EISA provides \$25 billion in loans to the auto industry to assist in meeting the new CAFE standards. In April 2008, the Department of Transportation issued a proposal to raise fuel economy standards more rapidly than required by EISA.

In addressing potential energy security concerns, the advantage of CAFE over some other policies is that it encourages reductions in gasoline consumption, thus reducing not only oil imports but also the economy's overall reliance on oil. However, increased CAFE standards do nothing to reduce externalities related to miles driven (congestion, accidents, noise, local pollution) and will in fact increase these slightly as the per mile cost of driving falls. In addition, since regulations like CAFE standards that differentiate based on a vehicle's age make new vehicles less attractive than existing vehicles, the regulation may delay the turnover of the vehicle fleet and reduce the realized environmental benefits of the tighter standards. For such reasons, many economic analyses suggest that higher fuel taxes may be a more efficient solution to the negative externalities related to fuel consumption. As noted in Chapter 9, congestion pricing may also be a better way than CAFE to address many of the negative externalities associated with driving.

In the absence of other policies, increasing fuel economy standards will help reduce gasoline consumption and greenhouse gas emissions. It is also likely, as recent trends suggest, that higher fuel prices may persuade consumers to buy more fuel-efficient vehicles even before the higher mileage standards take full effect.

In addition to increasing the fuel economy of our vehicles, fuel efficiency may be increased by targeting inefficiencies at other points in the transportation network. For example, municipalities have saved millions of gallons of fuel and abated associated CO_2 emissions by monitoring and retiming their traffic signals and have seen significant returns on their signal-management investments (see Chapter 9).

Electric Energy Efficiency

The final set of mandates included in EISA is aimed at improving energy efficiency in electricity use. The Lighting Efficiency Mandate will essentially phase out the sale of incandescent light bulbs by 2014 and improve lighting efficiency by more than 65 percent by 2020. The Appliance Efficiency Mandate sets over 45 new standards for appliances. The Federal Government Operations Mandate requires Federal agencies to reduce the energy intensity of their facilities by 30 percent from 2003 levels by 2015 (an increase over the 20 percent reduction requirement set by EPACT 2005). EISA also revised the Federal Building Energy Efficiency Performance Standards so that fossil fuel-generated energy use is phased out of new Federal building designs by 2030. While these requirements will undoubtedly deliver efficiency improvements, reductions in fossil fuel use through these and other types of efficiency standards will be dampened by population and economic growth. In fact, the Energy Information Administration projects that net electricity consumption will still increase nearly 30 percent by 2030 even after accounting for the EISA efficiency standards. Furthermore, as in the case of vehicles, it is important to remember that improvements in electric efficiency will reduce energy cost per kilowatthour, resulting in some increased use of lighting, air conditioning, and other electricity-using activities. This rebound effect thus dampens somewhat the overall impact of the EISA mandates.

There are numerous other promising opportunities to make our electricity generation, distribution, and consumption more efficient and reliable. According to the Energy Information Administration, the U.S. electricity-generation system converts only one-third of total energy inputs into usable electricity, and about 9 percent of this electricity is lost during transmission and distribution. One way to increase the efficiency of the system would be through the use of a so-called "smart electricity grid." A smart grid could be able to receive power back from clients. It would thereby allow greater integration of renewable generation resources and facilitate distributed electricity generation from small-scale sources such as home photovoltaic panels and micro-turbines during peak demand times. Using a two-way communications system, a smart grid would also allow consumers in areas where electricity prices rise and fall based on real-time demand to shift energy consumption from high-priced peak demand periods to low-priced off-peak periods. Finally, by enabling near real-time monitoring of electricity

use, a smart grid would give utility companies more time to detect faults and take steps to prevent the possibility of a blackout. These steps could include alerting consumers about reducing energy consumption during emergency periods of peak energy usage. Recent estimates suggest that deployment of smart-grid technologies could potentially reduce America's annual electricity usage by up to 4.3 percent by 2030.

The Department of Energy is undertaking many smart-grid planning, implementation, and awareness activities. EISA also authorized up to \$100 million per year over the next 5 years for a smart-grid demonstration initiative to demonstrate the potential benefits of advanced grid technologies; to facilitate commercial transition from the current system to advanced technologies; and to improve system performance, power flow control, and reliability.

Cleaner Use of Fossil Fuels

The recent mandates for increased energy efficiency have been further supported by policies promoting cleaner use of fossil fuels, including numerous regulations targeting local and regional air pollution and technology deployment incentives, such as tax incentives for advanced coal technologies.

Regulating Local and Regional Air Pollutants

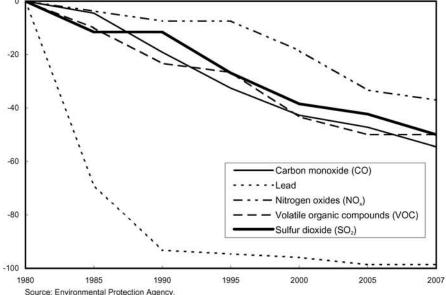
Regulations directed at local and regional air quality problems are and will continue to be linked to policies to reduce GHG emissions. These policies often provide co-benefits to each other. For example, to the extent that regulations that target common air pollutants in the transportation sector lower fossil fuel use and make fossil energy cleaner, they also contribute to more secure energy with less environmental harm. Similarly, significant air quality benefits can be expected from climate change mitigation policies. (Note that the reverse may not be true, since pollution-control equipment consumes power, which requires greater fossil fuel use (and CO, emissions) to generate the same amount of usable energy.) There may be additional savings from reduced investment in local air pollution controls (such as equipment to reduce the amount of nitrous oxide (NO_v) and sulfur dioxide (SO₂) released into the air from coal-burning power plants) under a future GHG emission pricing policy that reduces the use of fossil fuels.

According to a number of indicators, air quality has improved dramatically over the past few decades. As shown in Chart 3-3, emissions of many common air pollutants have decreased, and these trends have continued through this Administration. For example, between 2000 and 2007, NO_v and volatile organic compounds (VOC) emissions (the primary precursors to ground-level ozone) fell by 23 percent and 12 percent, respectively, and SO₂ emissions fell by 19 percent.

Chart 3-3 Emissions Levels over Time

Emissions of common air pollutants have declined substantially since 1980.

Percentage change since 1980



Over the past decade, the Environmental Protection Agency (EPA) has finalized—and is implementing—a suite of regulations on light- and heavyduty vehicles and engines and nonroad mobile sources (such as construction, agricultural, industrial equipment, locomotives, and marine engines) that are transforming the diesel engine. The 2004 Clean Air Nonroad Diesel Rule, for example, is expected to reduce emissions from new nonroad diesel equipment (such as tractors and bulldozers) by over 90 percent from 2004 levels by 2014 and to reduce sulfur levels in nonroad diesel fuel by 99 percent from 2004 levels by 2010. The Administration has also strengthened the National Ambient Air Quality Standards (NAAQS) for three out of the six common air pollutants: fine particulate matter (PM2.5), ground-level ozone (the primary component of smog), and lead. Emissions of these pollutants stem from a wide range of sources and State plans for complying with the new standards will vary. Unfortunately, several areas, such as parts of California, remain grossly out of compliance with current NAAQS, and it will be difficult for some of them to reach compliance within the next couple of decades.

The President's 2002 Clear Skies Initiative called for using cost-effective, market-based policy instruments to dramatically reduce power plants' emissions of sulfur dioxide, nitrogen oxide, and mercury. Although Clear Skies legislation did not pass the Congress, in 2005 the EPA took a major step

toward a more efficient multipollutant policy in the electricity sector by finalizing two rules, the Clean Air Interstate Rule (CAIR) and the companion Clean Air Mercury Rule (CAMR), which echoed many features of the Clear Skies Initiative.

The Clean Air Interstate Rule (CAIR) received broad support from economists, environmental groups, states, policymakers, and the regulated industry for promoting significant environmental improvements at a lower cost to society than a traditional command and control type of regulation. CAIR was designed to provide states with a solution to the problem of pollution that crosses State boundaries. Covering 28 eastern States and the District of Columbia, the rule requires the steepest emissions cuts from coalfired power plants required in over a decade implemented in two phases by 2015. When fully implemented, caps on annual NO_x and SO₂ emissions would permanently reduce NO_v and SO_v from coal-fired power plants in the eastern United States by more than 60 percent and 70 percent, respectively, from 2003 levels. The rule is projected to achieve over \$100 billion in net benefits by 2015 (see Table 3-1). In addition to the cost savings from using a more market-based approach, CAIR's cap-and-trade program has other beneficial effects. For example, the cap on NO_v would prevent any increases in aggregate NO_x emissions in the East that might otherwise arise from electricity sector restructuring.

In February 2008, the United States Court of Appeals ruled CAMR to be unlawful because the EPA had not taken the appropriate steps to regulate mercury emissions from power plants under a more flexible portion of the Clean Air Act (CAA) that allows for a cap-and-trade program. Then in July 2008, the Court ruled that the CAIR rule was fundamentally flawed, and it vacated the entire rule. The ruling was based on several issues, including that the cap-and-trade program was too focused on regionwide emission reductions and did not adequately factor in each State's significant contribution to air pollution issues. For example, the Court deemed that CAIR did not provide adequate protection for downwind areas. While both rulings have been appealed through the courts and contested and debated on many fronts, their invalidation would have substantial consequences because the underlying requirements of the Clean Air Act remain in place. For example, all States would have to redo their State Implementation Plans (SIPs) to demonstrate compliance with CAA requirements and would not be able to rely on the cost-effective controls built into CAIR. The thousands of premature deaths avoided annually and other significant health and environmental gains would come at a higher price, if at all, in the absence of a fix for these rules that retains their trading provisions. After receiving petitions from a range of industry groups, States, and the Administration, in December 2008 a Federal appeals court reversed the earlier decision on CAIR, allowing for the

Table 3-1—Projected Net Benefits from Selected 2001-08 EPA Clean Air Regulations

Rule Name	Year Enacted	Primary Pollutants	Net Benefits in 2020** (billions of 2006 dollars)		
		Targeted*	3% Discounting	7% Discounting	
Electricity Sector					
Clean Air Interstate Rule (CAIR)	2005	SO ₂ , NO _x Cobenefits: Mercury	\$119.2	\$100.7	
Clean Air Mercury Rule (CAMR)	2005; Revised 2006	Mercury Cobenefits: PM	-\$0.8 to -\$0.7	_	
Transportation Sector					
Nonroad Diesel Engines and Fuel	2004	NO _x , PM	\$49.2	\$48.0	
Locomotive and Marine Diesel Engines	2008	NO _x , PM	\$3.6 to \$8.5	\$3.3 to \$7.7	
Small Spark Ignition Engines and Equipment	2008	Hydrocarbon (HC) + NO _x , CO	\$1.0 to \$3.9	\$0.9 to \$3.7	
Emission Sources in Multiple Sectors					
Clean Air Visibility Rule (CAVR)	2005	SO ₂ , NO _x	\$2.7 to \$14.5	\$2.3 to \$11.3	
National Ambient Air Quality Standards (NAAQS)					
Particulate matter (PM2.5)	2006	PM2.5, SO ₂ , NOX \$4.2 to \$84.7		\$2.9 to \$71.4	
Ozone	2008	NO _x , VOC Cobenefits: PM			
Lead	2008	Lead Cobenefits: PM	\$0.9 to \$6.8	-\$2.6 to \$2.4	

^{*}Lists pollutants whose reductions are monetized in the benefit calculations. There may be additional cobenefits resulting from reductions in other pollutants that are not quantified in the rulemaking analysis.

Source: Environmental Protection Agency (Regulatory Impact Analyses).

reinstatement of the rule until EPA crafts a replacement. This reversal helps to avoid a prolonged period of regulatory uncertainty that may result in the reduction or elimination of pollution-control construction projects.

Developing Cleaner Fossil Fuel Technology

In addition to regulating local and regional air pollutants, the Administration has promoted cleaner ways to use our domestic fossil fuels through the use of tax incentives. For example, EPACT broadened the scope of the investment tax credits (ITCs) for renewable energy production to apply to investments in certain clean coal facilities, such as Integrated Gasification Combined Cycle (IGCC) power plants, which rely on a two-stage process in which pollutants

^{**} The table shows net benefits expected in 2015 for CAIR and CAVR and 2016 for lead NAAQS.

Note: Consistent with OMB and EPA guidelines, net benefits are calculated using both a 3 percent and 7 percent discount rate for valuing future impacts (although net benefits using the 7 percent discount rate are not available from the revised 2006 CAMR analysis). Note that the assumptions and methods used in each of the Regulatory Impact Analyses (RIAs) are not necessarily consistent across the rules listed.

are removed before combustion occurs. Recent research shows that the 20 percent ITC for new IGCC plants potentially could make this technology cost-competitive with new conventional coal plants. Because of their inherently higher operating efficiency, IGCC plants are estimated to produce up to 8 percent fewer CO₂ emissions per megawatt hour (mWh) than conventional coal plants. Furthermore, capturing and store the CO₂ emissions underground (known as carbon capture and sequestration, or CCS) would be less expensive in an IGCC plant than in a conventional power plant. Also, the IGCC process produces very low levels of common air pollutants (NO_v, SO₂, and PM) and volatile mercury, which reduces the cost of compliance with regulations of these emissions. To date, two 260-290 megawatt (mW) IGCC power plants are in operation in the United States and others are in the pipeline. A third, larger facility (with 630 mW capacity) received approval in January 2008.

Removing Regulatory Impediments to Domestic Production

Finally, the Administration has worked to remove regulatory impediments to bringing domestic energy sources, including fossil fuels, to market. In July 2008, the President lifted the Executive restriction on offshore exploration and requested that the Congress also lift its ban. On September 30, 2008, the ban on offshore domestic exploration of natural gas and oil was allowed to expire, a decision that would allow open access to an estimated 14 billion barrels of oil and nearly 55 trillion cubic feet of gas off the Atlantic and Pacific coasts. These previously restricted areas represent a sizable portion of the estimated 101 billion barrels of oil and 480 trillion cubic feet of natural gas untapped on the outer continental shelf. While we strive toward the long-term goal of reducing the economy's overall reliance on oil for environmental and security reasons, expanded domestic oil and gas production in these areas will help reduce the \$300 billion Americans spend each year on net petroleum imports.

Overarching Challenges

Despite widespread support for increasing the use of market-oriented approaches to achieve our environmental and energy policy goals going forward, numerous challenges remain in realizing the full potential of these types of policies.

Balancing Local, Regional and Global Goals

First, any future comprehensive national energy policy will need to address potential tradeoffs between environmental and security goals, as well as tradeoffs between competing environmental goals. As noted earlier, policies aimed at mitigating local air pollution can at times reduce GHG and vice versa. For example, the clean diesel programs may provide climate change benefits by reducing black carbon (soot), the climate change effects of which require further study but many argue could be quite substantial. (The clean diesel rules will also likely become more significant if there is an increase in the number of diesel vehicles due to policies aimed at improving fuel economy and reducing GHG emissions from mobile sources.) However, some air quality policies may result in "technology lock-in" that could cause major delays in the implementation of GHG control technologies because of the investment in capital and other resources to meet the air quality control requirements. Policies aimed at GHG mitigation may also at times increase emissions of traditional pollutants. For example, technology standards that require increasing the thermal efficiency of engines may lead designers to achieve the regulatory objective by raising combustion temperatures, a strategy that would tend to increase NO_v emissions unless countered by other control methods. The challenge going forward will be to design comprehensive policies that enhance synergies and reduce the degree to which policies may work at odds with one another.

There are additional conflicts that will continue to arise in achieving long term environmental goals. For example, in the transition to alternative energy sources, where will new facilities and transmission infrastructure for different types of electricity generation be built? This issue is especially contentious when talking about new nuclear facilities, large scale CCS facilities, and renewable sources such as off-shore wind turbines. Renewable energy facilities generally face greater siting hurdles than their conventional counterparts because they can only be located at certain sites. The most highly valued renewable resources are often in pristine, isolated parts of the country (like mountain ridges, open plains, and coastal waters) with significant environmental and aesthetic value. Siting hurdles are compounded by the additional transmission and distribution infrastructure that is needed to bring the electricity from remote generation sites to population centers. States will have to balance renewable energy goals with other environmental concerns in deciding whether to support investment in new transmission infrastructure, such as new regional transmission corridors. Similarly, there are significant challenges that must be faced in expanding or reconfiguring existing fuel distribution systems to accommodate the large volumes of ethanol and other biofuels required by EISA.

Obstacles to increased nuclear power generation extend beyond the hurdles of siting power plants. There is also a concern about the lack of long-term storage for the spent fuel generated by nuclear plants. To reduce the amount of spent fuel that must be properly contained for centuries, efforts may also be made to increase recycling of this fuel within the generation process, but without producing weapons-grade material. The Administration has laid the groundwork for tackling this issue through efforts such as the Global Nuclear Energy Partnership (GNEP) and the Nuclear Power 2010 joint government industry effort to develop advanced nuclear plant technology and reduce technical, regulatory, and institutional barriers to nuclear deployment.

Efficient R&D Support for Alternative Energy Sources

Technology policies will continue to be an important component of any energy policy portfolio going forward. Many economists maintain that, as a complement to any pricing policy directed at environmental problems, governments will need to support R&D for alternative energy sources. The challenge will be to ensure that any R&D support is managed efficiently and effectively.

As discussed above, an emission pricing policy is a key step in inducing technological change at low cost because the emissions price provides the private sector with a direct incentive to invest in and deploy new environment-friendly innovations. Well-targeted technology policy can reinforce these incentives for private R&D and thus reduce future costs. Basic and applied energy-related research as well as the education of the next generation of researchers will continue to be in particular need of government support, because these areas are the least likely to be undertaken by the private sector. It will also be crucial to expand the use of more flexible research policy instruments that allow the market, rather than government, to pick technology winners. For example, the Government could award prizes for basic research advancements in energy storage, which would help to spur innovation in a wide range of low-carbon technologies. Efforts are already underway to expand the use of prizes in some areas. EISA provided authorization for an L-prize for high-efficiency solid-state lighting products and an H-prize for advancements in hydrogen technology.

Current policies that target the adoption or deployment phase of the technological development process also need reviewing. Many of the existing tax credits have been found to be costly ways of making renewable sources competitive with fossil fuel sources. However, if technology deployment incentives are needed, they should be applied in a way that is neutral across all alternatives. Existing subsidies such as the ethanol blender's tax credit, flex-fuel vehicle credits, and subsidies for alternative electricity generation, in combination with the growing use of existing residential deductions and credits for energy-efficient home improvements, have created a patchwork of incentives that send an inconsistent message about how much the abatement of a ton of carbon is worth. In addition, there are opportunity costs associated with resources devoted to any area of research or deployment support. For example, in the context of renewable fuels, additional support for first-generation biofuels such as corn ethanol reduces the amount of funding available for the development of other alternatives and could make it more difficult for second-generation biofuels (with potentially significantly lower GHG emissions) to become viable.

Going forward, it will be important to reform these subsidies so as to minimize market distortions. One way existing tax incentives could be simplified is to offer a single subsidy in which the payment is weighted by the extent to which petroleum consumption and/or carbon is reduced relative to a baseline technology. In April 2008, the President voiced strong support for such a reform of the current complicated mix of incentives to make the commercialization and use of new, lower emission technologies more competitive. Another policy instrument that could encourage commercial use of new energy-efficient technology at a lower cost to the taxpayer is the reverse auction, in which would-be subsidy recipients (such as a renewable energy project developer) submit proposals for new projects and bid the minimum price they would accept for zero- or low-carbon electricity generation. However, such technology adoption policies may still favor what are currently the least expensive technologies, rather than technologies that may have greater potential to reduce cost and improve environmental performance through learning by doing.

Economically Efficient Regulation Under Existing Statutes

Another significant challenge in realizing the full potential of marketoriented policy approaches is likely to be the ability of existing laws to address old and new environmental problems in more efficient ways.

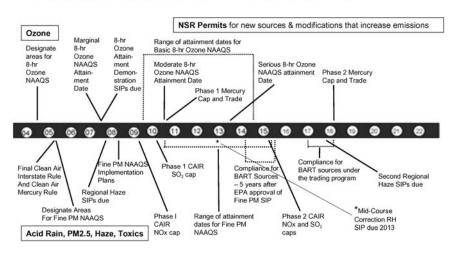
Local and Regional Air Pollutants

Although there have been great gains in reducing common air pollutants under the Clean Air Act, air pollution will continue to be a problem in the future, and the importance of finding economically efficient ways to further improve air quality will only increase. As seen in the 2008 National Ambient Air Quality Standard (NAAQS) for ozone, stricter standards have moved the private sector up the marginal cost-of-control curve. That is, it is becoming more costly to reduce each additional ton of NO_X and VOC emissions (the precursors to ground-level ozone). Upcoming reviews of the NAAQS for other pollutants will undoubtedly reveal a similar trend. These trends do not shed light on the relative cost of controlling one pollutant over others,

due to the sequential nature of the individual NAAQS reviews. However, it is likely to spark debate about the benefits of moving either toward a more integrated multipollutant approach to controlling emissions of pollutants that pose the most significant risks or toward a more goal-oriented standard setting, as there may be no level that adequately protects human health and the environment for some pollutants (for example, lead), and currently costs cannot be considered in setting a NAAQS.

A multipollutant approach can help reduce the costs of meeting standards in regulated industries, such as the electricity sector, in which power plants face an increasingly complex set of requirements under the current Clean Air Act (CAA) (see Chart 3-4). The President's Clear Skies Initiative was an important first step in establishing a multipollutant approach. It is important that the market-oriented aspects of the CAIR and CAMR rules not be lost upon being remanded to the EPA for revision. The Administration has also made efforts to reform the complex requirements for upgrading or building new power plants under the New Source Review provisions of the Clean Air Act. Such age differentiated regulations can create a disincentive to invest in energy efficiency improvements, thus slowing turnover in the capital stock (equipment and facilities) and pollution abatement. The debate over how best to reduce such counterproductive incentives will undoubtedly continue in the future.

Chart 3-4 Clean Air Act Requirements for New Electric Generating Units, 2004-2022 Power plants face a complex set of requirements under the current Clean Air Act.



Note: The timeline was developed in May 2005 and reflects EPA assumptions about rulemakings that had not been completed at that time. EPA's rulemakings are conducted through the usual notice-and-comment process, and the conclusions may vary from these assumptions. Source: Environmental Protection Agency.

Greenhouse Gas Emissions

Existing statutes are not well suited to tackling problems that were not considered when the original laws were written. In the context of climate change, the unique characteristics of GHGs and the ubiquity of GHG emission sources present significant challenges for economically efficient regulatory design under the existing Clean Air Act or other statutes. Unlike most traditional air pollutants, GHG emissions become well mixed throughout the global atmosphere, so a unit of GHG emissions has the same effect on environmental quality regardless of where it comes from, and, once emitted, GHGs can remain in the atmosphere for decades to centuries. Therefore, while policies can control the flow of GHG emissions, the ultimate concern is the stock—the cumulative concentration of GHGs in the atmosphere. These characteristics suggest that GHGs are particularly well suited to market-oriented policies that do not dictate the exact location and timing of emission reductions as opposed to the command and control type of regulation under the CAA that is used for some other pollutants.

There are examples of CAA regulations in which market-oriented approaches have been used for groups of mobile or stationary sources, such as in the Acid Rain Control Program, and even some cases in which multisector trading programs have been established. However, economists have demonstrated that taking a more integrated approach to control GHGs, such as through a common cap or price on emissions across sectors, would allow the market to identify a combination of methods to reduce the cost of achieving a given emission reduction. For example, expanding the coverage of such a market-oriented policy to include the industrial, electricity, and transportation sectors has been found to substantially decrease the cost of achieving a given emission reduction compared to one that is limited to the electricity and transportation sectors. However, if a policymaker's goal is to transform technology in a single area to the point where developing countries would voluntarily adopt the new low-carbon technology, then the advantage of a sector-specific approach is that it may help to ensure that technology investment remains within that sector.

It is unclear whether it would be legally possible to implement an economy-wide system for GHGs under the CAA. However, any economy-wide program under one provision of the CAA would likely trigger additional source-specific or sector-based requirements as a result of other CAA provisions, thus resulting in multiple programs affecting a particular sector, source category, or GHG. With multiple market-oriented policies focused on the same problem, the overall emissions reductions may not be achieved in the least costly way because there would not be a common price of pollution across all activities that directly result in GHG emissions. Without such a common price, full trading opportunities to reduce control costs will not be

realized. In addition, emissions leakage across sectors and countries can occur when the cost of reducing one ton of emissions differs across them. When faced with a high cost of complying with new environmental regulations, a firm may move its operations to a jurisdiction with less stringent (and less costly) emissions controls. Current requirements under the CAA do not consider the actions (or inaction) of other countries or allow for consideration of unequal treatment of emissions across different types of emitters.

The Clean Air Act is also not designed to implement any carbon-pricing policy so that it operates in an efficient and transparent manner. For example, economists suggest that it would be economically efficient to employ a broadbased emissions tax, using the proceeds to decrease distortionary taxes. A well designed cap-and-trade system can have much in common with a well designed tax, but policy considerations should weigh heavily on how emissions allowances would be distributed under such a program. The economic literature broadly finds that there are significant efficiency advantages to auctioning emissions allowances, particularly if the revenues are used for reducing existing distortionary taxes. Also, cost-containment provisions in a cap-and-trade program, such as a safety valve allowance price, help to prevent caps from resulting in allowance prices that are higher than the social cost of the emissions. However, the CAA does not authorize the EPA to impose taxes or to administer a broad cap-and-trade program with auctioning and cost-containment provisions, making the Act ill suited to address the unique challenges posed by GHG emissions.

The globalized nature of GHG emissions is also likely to create difficulties in other statutes, such as the Endangered Species Act (ESA) and the National Environmental Policy Act (NEPA), which were designed to address local or regional concerns. For example, the ESA requires consultation between Federal agencies when a Federal action is likely to cause effects that pose a threat to a listed species. However, because the effects of GHG emissions have global repercussions, any causal connection between the effects of any particular action and the loss of a listed animal or its habitat is not discernible, or at least not significant or proximate enough to warrant such consultation. Similarly, the types of environmental impacts included in NEPA analyses are local or regional in nature and do not fit into the complexities related to global climate change effects.

Given the difficulties in applying existing statutes to the unique problems presented by GHGs, policymakers should seek new approaches for enacting comprehensive and market-oriented solutions. The scientific debate over the specific GHG concentrations needed to affect global temperatures and the probability of catastrophic damages will continue for some time, and the policy debate over tough questions such as to how to value future emissions reductions is far from settled. In the face of such uncertainty and discussion

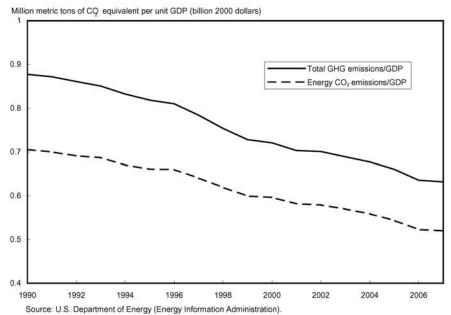
of numerous other policy design issues, flexibility and transparency will be vital to the success of any policy designed to address global climate change.

Global Action on Climate Change

Finally, perhaps the most significant challenge in tackling climate change is developing broad-based global action to make meaningful progress in reducing GHG emissions.

As shown in Chart 3-5, U.S. greenhouse gas intensity (as measured by GHG emissions per unit of GDP) has been improving over time. In 2002, the President set a goal of reducing U.S. GHG intensity by 18 percent by 2012, and the Nation is on track to meet and exceed this target. Between 2002 and 2007, both energy-related CO₂ emissions per unit of GDP and total GHG emissions per unit of GDP declined by about 10 percent. In the spring of 2008, the President also set a new goal to stop U.S. growth in total GHG emissions by 2025. Despite U.S. action toward meeting these or future domestic GHG reduction targets, it is important to understand that U.S. action alone will not reverse global emission growth or stabilize global atmospheric GHG concentrations. Many assert that it is the responsibility of developed countries to reduce GHG emissions, since they have a longer historical record of emissions and therefore are responsible for most of the existing atmospheric concentrations. This formulation does not account for the reduction in the

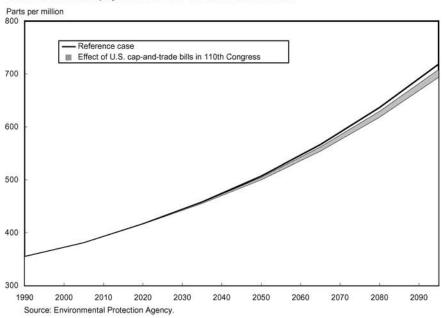
Chart 3-5 **Greenhouse Gas Intensity of U.S. Economy, 1990–2007**The greenhouse gas intensity of the U.S. economy has improved dramatically over time



natural absorption of ${\rm CO}_2$ (for example, in forests) due to land-use change that has occurred throughout the world. More important, actions by developed countries alone will not stabilize atmospheric concentrations given the recent and projected emissions growth in large rapidly developing economies.

Chart 3-6 provides one example of why it is important for all countries, particularly major economies involved in negotiations, to limit GHG emissions. The chart shows the future path of global CO, concentrations if the United States takes action to reduce GHG emissions under various cap-andtrade bills recently debated in Congress. One of the main reasons why future global concentrations do not decrease substantially compared to the reference case (which is a business-as-usual case that includes current international efforts to address climate change) is that major emerging economies represent a large and growing share of global GHG emissions. In addition, international emissions leakage may reduce global mitigation if only a handful of countries take action. Just as sector-based regulation of GHG emissions under the CAA raises worry about potential leakage of emissions across source categories, there are concerns about potential shifts in GHG emissions to countries where GHGs face no regulations. Energy-intensive industries in which domestic firms would face significantly higher costs due to regulation may move operations to unregulated foreign markets where costs are lower. International sectoral agreements in energy-intensive industries can help alleviate some of these competitiveness concerns.

Chart 3-6 Global CO₂ Concentrations
Carbon emissions are projected to rise over the next several decades.



It is clear from the projections above, as well as other recent analyses of climate mitigation scenarios, that climate change requires a global solution, with participation by all major economies. The Administration has recently taken several steps to encourage wider international action to address GHGs, including promoting consensus toward commitments in developing countries. In 2007, the Administration launched the Major Economies Meeting (MEM) process, involving those of the world's major economies that use the most energy and emit the most GHGs, to help promote international action to slow, stop, and eventually reverse the growth of GHGs. This process is intended to support the United Nations Framework Convention on Climate Change (UNFCCC) negotiations by elaborating on areas of shared understanding among the major GHG emitters. At the July 2008 MEM meeting in Japan, leaders issued a Leaders Declaration that emphasizes "ambitious, realistic, and achievable" steps toward achieving these goals and agreement to take near-term actions. Leaders agreed to continue to work together to promote the success of the negotiations under the UNFCCC.

In addition to achieving commitments by all major economies, accelerating the deployment of clean energy technology in emerging economies is critical to mitigating climate change. To this end, the United States has taken several steps to form international partnerships to support national climate change efforts. In 2007, the Administration led efforts to produce an international agreement to accelerate the phase-out of the hydrochlorofluorocarbon (HCFC) refrigerants—a potent GHG—under the Montreal Protocol on Substances that Deplete the Ozone Layer. Under this agreement, both developed and developing countries explicitly agreed to accept binding and enforceable commitments that have climate change benefits. In 2008, the President launched the Clean Technology Fund to help bridge the gap between current technology and cleaner, more efficient ways of fueling the world's growth. The President has asked Congress for an initial U.S. commitment of \$2 billion, and many other nations have pledge support. Altogether, the United States, the United Kingdom, Japan, France, Germany, Sweden, Australia, and Spain have pledged over \$5 billion to the Fund, which will be housed at and overseen by the World Bank.

To be eligible for funding, a project must be consistent with the recipient country's national low-carbon growth strategy and must help move the relevant industry or sector toward a clean-energy path. Competition is intended to be technology-neutral, with projects competing for financing based on lifetime GHG reductions compared to the baseline technology and relative to the Fund's investment. The recipient country would contribute public and/ or private capital to meet the project's baseline costs. The Clean Technology Fund would help finance the cost difference between the clean energy technology and the standard baseline, higher-emissions technology.

In partnership with the European Union, the United States also proposed the Environmental Goods and Services Agreement in the World Trade Organization (WTO) to eliminate tariff and non-tariff barriers to environmental technologies and services. This proposal included an agreement in the WTO to eliminate tariffs worldwide on 43 climate-friendly technologies identified by the World Bank. It also included a higher level of commitment from developed and most advanced developing countries to eliminate trade barriers across a broader range of goods and services. Global trade in the environmental goods covered by the proposal totaled approximately \$613 billion in 2006, and global exports of these goods have grown annually by an average of 15 percent since 2000. The World Bank suggests that by removing trade barriers on key technologies, trade could increase by an additional 7 to 14 percent annually.

Other international partnerships to pursue development and diffusion of clean energy include the 21-member Global Nuclear Energy Partnership (GNEP) and the 7-country Asia-Pacific Partnership on Clean Development and Climate (APP). These are primarily sectoral efforts to support national climate change efforts. The GNEP, announced by the President in 2006, focuses on promoting technology breakthroughs to support the long-term expansion of clean, safe, proliferation-resistant nuclear power here and abroad. As mentioned earlier, safer ways to deal with storage of nuclear waste are crucial to this effort. The APP has a somewhat broader mission. It aims to promote coordination among different sectors to create new investment opportunities, build local capacity, and remove barriers to the introduction of a wide range of cleaner, more efficient technologies.

Conclusion

Energy policy will continue to be one of the major challenges facing the United States for many years to come. As the Federal Government moves toward a more integrated approach in confronting energy security, climate change, and other environmental challenges, we will need to ensure that we consider the economic efficiency of future laws and regulations. In addition to advancing clean and renewable energy technologies, a key challenge going forward will be leading all countries to work cooperatively to achieve global climate goals with meaningful participation by all major economies.

The Benefits of Open Trade and Investment Policies

An open economy is characterized by receptiveness to foreign ideas, technology, products, services, and investment. The United States has one of the most open economies in the world, ranking very high in common measures of openness to trade and investment. As a large and diverse economy, the United States engages in more trade and investment than any other country in dollar terms, and it also has, on average, very low barriers to cross-border flows of goods, services, and capital.

In the long run, open economic policies generate many benefits. Trade and investment linkages with other countries increase competition in domestic industries; enhance the purchasing power of consumers; provide exposure to new products, services, and ideas from abroad; and give domestic firms wider markets in which to sell goods and services. In the short run, the interdependence among open economies generally provides benefits—open economies may rely on foreign borrowing or foreign demand for domestically produced exports to cushion an economic downturn—but may also create visible costs that obscure these benefits, as when foreign investment shifts abruptly out of certain sectors or when foreign demand for domestic exports falls. Nevertheless, any potential negative effects from our openness to trade and investment do not outweigh the enormous gains society has realized over decades from this openness.

This chapter begins with a discussion of key facts about trade and investment in the United States, followed by a discussion of the benefits of free trade and open investment, and the policies that the United States has taken to enhance both. These policies include an increased number of free trade agreements (FTAs) and the strong commitment of the United States to maintain openness to foreign direct investment (FDI) while still addressing legitimate national security concerns. The chapter continues with a discussion of international development assistance, and concludes with a review of issues that could affect future U.S. trade policy. The key points of this chapter are:

- Openness to trade and investment has boosted U.S. economic growth.
 Openness can also reduce the impact of shocks and increase the resilience of the U.S. economy.
- The number of U.S. FTAs has increased greatly during this Administration, and these agreements have contributed to the growth in U.S. exports.

- Portfolio and direct investment into the United States reached historic levels over the past decade, in part due to the depth, diversity, and openness of U.S. financial markets and the competitiveness of U.S. firms.
- The United States has maintained an open investment policy, facilitating FDI flows between the United States and the world while addressing legitimate national security concerns.
- U.S. development and trade initiatives, as well as U.S. engagement in multilateral institutions such as the World Trade Organization and the World Bank have helped increase growth and foster political and economic stability in developing countries throughout the world.
- Continued commitment to open economic policies throughout the world will help ensure continued economic gains for the United States and the rest of the world.

Trade and Investment in the United States

Trade in goods and services has played an increased role in the U.S. economy over the past decade. As seen in Table 4-1, in the first half of 2008, the United States exported goods and services equivalent to 13.0 percent of Gross Domestic Product (GDP), and imported goods and services equal to 18.1 percent of GDP. These figures are the highest on record, considerably above figures from 2000, when exports were equal to 10.9 percent, and imports 14.8 percent, of GDP. The current account, which measures the net value of the flow of current international transactions, is chiefly composed of the difference between exports and imports. The U.S. current account deficit widened over this period from 4.1 percent of GDP in the first quarter of 2000 to a peak of 6.6 percent of GDP in the final quarter of 2005. The current account deficit then narrowed to 4.8 percent of GDP at the end of 2007 before expanding slightly over the first half of 2008.

TABLE 4-1.—U.S. Trade and Investment

	2007 value	Share of U.S. GDP (percent)			
	(billion dollars)	2000	2007	2008 Q1-Q2	
Current account balance, (-) = deficit	-731	-4.3	-5.3	-5.0	
Exports of goods and services	1,646	10.9	11.9	13.0	
Imports of goods and services	2,346	14.8	17.0	18.1	
Other	-31	-0.4	-0.2	0.0	
Net capital inflows into the U.S.	768	4.9	5.6	4.7	
Net inflows for foreign investments in the U.S.	2,058	10.6	14.9	6.8	
Net outflows for U.S. investments abroad	1,290	5.7	9.3	2.1	

Source: Department of Commerce (Bureau of Economic Analysis).

As a matter of accounting, the current account deficit is mirrored by net inflows of capital into the United States, which have provided the financing that has allowed us to purchase more in imports than we sell in exports. From Table 4-1, we can see that net capital inflows into the United States were equal to 4.7 percent of GDP in the first half of 2008, a figure that approximately matches the current account deficit, with a discrepancy caused by measurement errors, omissions, and the exclusion of certain types of capital flows for which only partial data are available. The increase in net capital inflows looks modest compared with the huge increase in capital inflows to and outflows from the United States from 2000 to 2007, although the data for 2008 imply a sharp decline to levels lower than those of 2000 as a percentage of GDP.

Openness to Trade and Investment Has Substantially Contributed to U.S. Growth

Many studies have shown that greater openness to trade and investment is associated with faster growth in the long run. There are many ways to measure openness, including by looking at both the extent of trade and investment and the size of barriers to these flows. By either measure, countries that increased openness have grown faster and have had greater increases in living standards than countries that have remained less open. Research has not yet conclusively determined the incremental gain in income that a country receives from a specific increase in trade because the exact change can depend on particular policies and circumstances.

In the current U.S. downturn that began at the end of 2007, trade has improved the resiliency of the U.S. economy. Strong global demand for U.S. goods and services in 2007 and the first half of 2008 boosted U.S. GDP growth in this period. As the trade deficit declined, the improvement in net exports (exports minus imports) became a sizeable contributor to U.S. growth in this period. Chart 4-1 shows real GDP growth and the contribution of net exports to that growth since 2001. Net exports have accounted for over half of real GDP growth in the past 2 years. Some of the recent U.S. strength in net exports has likely been driven by the depreciation of the dollar. The value of the dollar declined fairly steadily from its peak in 2002 to the summer of 2008, when it reached a level last seen in the mid-1990s. The depreciated dollar contributed to the increase in exports and the decline in real imports. In the second half of 2008, however, the value of the dollar increased, in part reflecting increased international demand for U.S. Treasury bonds in a time of global turmoil and rapidly deteriorating global growth.

The deteriorating performance of foreign economies in the second half of 2008 has recently reduced demand for U.S. exports. In the most recent U.S. data through October, both imports and exports have begun to decline, as they did during the global slowdown of 2001–02. The decline in exports will

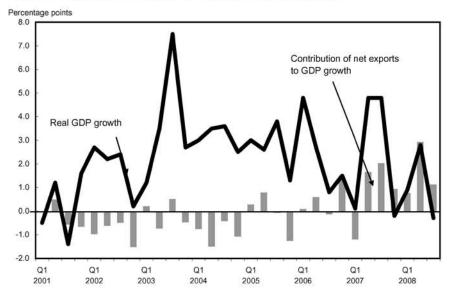
likely reduce the contribution of trade to GDP growth in the short term, and net exports may provide no boost to growth in the fourth quarter of 2008. Trade may still hold up better than other components of GDP, however, as consumption and investment are expected to decline enough to make overall GDP growth negative in the short term (see the discussion of the near-term macroeconomic environment in Chapter 1).

Strong global demand for goods drove up prices of a broad range of commodities through the middle of 2008, but global weakness in the second half of the year has reversed most of these gains. This is good news for users, both consumers and producers, but raises some concerns for the exporters that had benefited from the higher prices. However, the broad-based decline in prices of oil, food, and agricultural commodities has considerably eased earlier fears of inflation.

The Benefits of Free Trade

Free trade contributes to economic prosperity in many ways. One of the greatest benefits of trade is that international differences in prices allow countries to utilize their *comparative advantage*, because trade gives a country access to goods and services at relatively low prices, while simultaneously

Chart 4-1 Contribution of Net Exports to Real U.S. GDP Growth Net exports have accounted for more than half of U.S. growth in the last two years.



Source: Department of Commerce (Bureau of Economic Analysis).

allowing domestic producers to find profitable export markets in which to sell goods that can be produced at lower prices at home than abroad. Trade allows a nation to achieve higher overall consumption of goods and services than would be possible if no trade occurred. Trade also benefits consumers by increasing the number and variety of goods available domestically.

Trade raises the productivity of domestic firms in multiple ways: (1) Trade shifts production toward goods in which the country has a comparative advantage, so that over time, capital and labor will become concentrated in relatively more productive sectors, raising national income; (2) trade connects domestic producers to new technology and a greater variety of inputs, and it exposes them to more competition; and (3) firms that gain access to new markets can increase average productivity as unit costs fall, thus benefiting from what economists call *economies of scale* in production. Because trade allows the most productive firms and sectors to increase their share of U.S. production, trade makes possible increases in productivity, profitability, and wages that raise national standards of living.

Firms engaged in export trade provide important benefits to the economy. Exporting firms are a large engine of growth and employment in the U.S. economy. In 2006, 20 percent of manufacturing jobs were generated directly or indirectly by exports. Not only do exporters play a major role in job creation, but on average, productivity per worker is up to one-quarter higher in exporting firms than in nonexporters, and exporters pay each worker 13–18 percent more. Some of this exceptional performance occurs because exporters tend to concentrate in productive industries, but exporters also have higher productivity and higher wages than nonexporting firms in the *same* sector.

Among exporting firms, multinational enterprises, which own and control business operations in more than one county, account for an important share of U.S. trade and productivity growth. In the United States, U.S.-owned multinationals account for over one-half of total exports, and over 90 percent of U.S. exports to manufacturing affiliates were inputs for further processing. The extent of trade in intermediate inputs is an indication that trade is part of an increasingly complex chain, and companies have substantially improved productivity through the development of these global supply chains. Research shows that multinationals in the United States, both U.S.-owned and U.S. affiliates of foreign companies, were responsible for more than half of the increase in U.S. nonfarm labor productivity between 1977 and 2000.

Trade, while broadly beneficial, does not reward all people equally, and changes in trade can negatively affect some workers. In some cases, workers can receive lower wages when trade liberalization reduces the price of goods and services that they produce, and workers can lose jobs when imports reduce domestic production or jobs are relocated overseas. Over time, however, increased trade has made the United States more productive and has contributed to large increases in the U.S. standard of living. Estimates

of the gains to the United States from the postwar increase in global trade and the reduction in global trade barriers range up to \$1 trillion dollars per year, or about \$10,000 per household. In other cases, the use of global supply chains has led to the displacement of some U.S. workers, but as noted above, multinational companies generate considerable benefits for U.S. workers, generating high-wage jobs, substantial employment, and considerable improvements to U.S. productivity.

Although some jobs are lost due to trade, there are many other reasons for job loss in the United States, such as technological change and domestic competition. The United States has several programs to help workers adjust to displacements caused by trade. Chief among these programs is Trade Adjustment Assistance (see Box 8-2 in Chapter 8), which provides benefits and training to workers whose jobs are affected by trade and promotes their rapid reemployment.

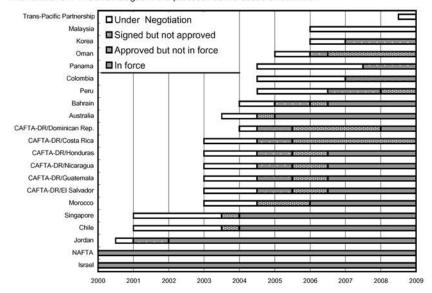
Free Trade Agreements

Trade policy is an important determinant of a country's openness to trade, and hence of its growth. In the past 8 years, U.S. policy has supported engagement in global free trade, which has been most evident in the increase in the number of U.S. free trade agreements (FTAs). FTAs are agreements that eliminate tariffs on substantially all trade between two or more countries; U.S. FTAs also reduce other barriers, such as restrictions on services trade and investment. Before 2001, the United States had implemented FTAs with three countries. To date, the United States has concluded FTAs with 20 countries, including 16 in force, one approved by Congress but not yet in force, and three concluded but not yet approved by Congress. The United States has concluded FTAs with trading partners on five continents and with three of our top 10 trading partners. In addition, the United States is currently negotiating FTAs with Malaysia and the members of the Trans-Pacific Strategic Economic Partnership. Chart 4-2 illustrates the progress of U.S. FTAs since 2000, from negotiation to the President's signature to enactment by Congress to being fully in force.

FTAs can dramatically increase trade. U.S. exports to countries whose FTAs came into force during this Administration increased 61 percent from 2000 to 2007, while U.S. imports from these countries increased 26 percent. Recent research shows that, on average worldwide, FTAs increase trade among member countries by about a third after 5 years and more than double trade after 15 years. Because many U.S. FTAs have been in force for less than 5 years, the experience of other countries suggests that these FTAs may continue to expand trade for another decade.

Increased duty-free trade has substantially reduced costs to U.S. importers and exporters and also lowered prices for U.S. consumers. In 2007, 41 percent

Chart 4-2 U.S. FTA Progress, 2000-2009
The number of FTAs at all stages in the process has increased since 2000.



Note: U.S. FTAs with Costa Rica and Oman entered into force on January 1, 2009. Source: Office of the United States Trade Representative.

of U.S. exports went to FTA partners, and over 98 percent of U.S. products were eligible to enter these foreign markets duty free. In the same year, 31 percent of U.S. imports came from FTA partners, and 95 percent of these imports entered the United States duty free. The reduction in tariffs and quantitative limits, such as quotas, on goods trade in FTAs provides important benefits. Countries gain over time when they liberalize their own market, because capital and labor relocate to sectors in which they will be used more efficiently. Countries also gain immediately when FTA partners liberalize, because this liberalization lowers trade costs and improves the competitive position of exporters.

The size of initial foreign trade barriers is an important determinant of potential export gains from FTAs. One reason that U.S. exports to recent FTA partners increased more than imports from them did, is that in most cases, prior to these agreements, foreign tariffs were higher than U.S. tariffs. Many of these countries apply relatively high tariffs to imports from non-FTA partners, so U.S. FTAs considerably reduced costs to U.S. exporters and improved their competitive position. In contrast, goods from these countries were often already eligible to enter the United States duty free. Several FTA partners also had prior preferential access to the U.S. market under programs such as the Andean Trade Preferences Act and the Generalized System of Preferences, which are discussed in the development assistance section below.

U.S. FTAs also contain many beneficial nontariff provisions; particularly important are investment and services liberalization. Because of investment provisions in U.S. FTAs, U.S. companies that operate abroad benefit from more transparent and less burdensome regulation and greater certainty for investors. Developing countries can benefit from an improved legal framework at home and from the stability of permanent preferential access to U.S. markets, which can make the countries more attractive to international investment in all sectors. Liberalization of foreign services markets can improve access to the telecommunications, financial services, professional services, and other sectors. This access can generate large trade and welfare gains because of the high barriers to services trade in many countries.

Reducing barriers to investment and services can have large effects on trade and even greater effects on economic welfare than tariff liberalization does. FTAs have dramatically increased trade in some sectors with preexisting low, or even zero, tariff rates, demonstrating the positive effects of nontariff liberalizations. International data on barriers to services trade and investment flows are less precise than data on goods trade, so estimates vary, but recent research on U.S. FTAs shows that increased investment and reductions in services barriers can each provide more than twice the gains in purchasing power than can tariff liberalizations alone.

Quantifying the gains from FTAs is difficult because of the many uncertainties involved in estimating the effects that these agreements have on trade flows and on the behavior of producers and consumers, and because data limitations make some benefits currently unquantifiable. One series of reports that has focused on only the gains from tariff liberalizations under all U.S. FTAs finds that U.S. consumers gain about \$22 billion in increased purchasing power annually. Other studies, though necessarily more speculative, have also included the gains from greater economies of scale, more product variety, long-run gains from capital accumulation, and reduced services barriers. These studies suggest that cumulatively, U.S. FTAs, both those in force and those pending, could increase U.S. purchasing power by about \$150 billion, equivalent to about \$1,300 per U.S. household, annually.

Reductions in Tariffs

The United States has one of the lowest average tariff rates in the world. U.S. average tariff rates have been steadily decreasing as duty-free imports from FTA partners have increased in the past decade. The trade-weighted average tariff rate, which gives each of over 11,000 tariff rates a weight equal to the value of U.S. imports in that sector, has been below 2 percent since 1999, and has now fallen below 1.4 percent. Trade-weighted averages can be misleading, however. Because high tariffs reduce trade, sectors with high tariffs are counted less when weighting by trade. The restrictiveness of U.S. tariffs is better measured by calculating a single, "uniform" tariff that would produce the same volume of trade (or the same purchasing power for U.S. consumers) if applied to all sectors. Recent estimates of such a uniform tariff have been near 5 to 6 percent for the United States. This higher value captures a number of relatively high U.S. tariffs, particularly in agriculture, that are not well represented by the average rate.

The U.S. "uniform" tariff rate of 5 to 6 percent is lower than comparable estimates of tariff protection in major U.S. trading partners, both developing and developed. As in the United States, agricultural tariffs are a major source of other countries' high rates of protection. Because high agricultural protection is a global concern, efforts to reduce it are best negotiated in multilateral institutions such as the World Trade Organization (WTO), which is currently negotiating the Doha Round of trade liberalizations (initiated in Doha, Qatar). The United States and numerous other countries have proposed ambitious reductions in both agricultural tariffs and tradedistorting agricultural subsidies (see Box 4-1) that are critical to a successful market-opening outcome of the Doha Round.

Box 4-1: Farm Subsidies

Government payments to the farm sector have been part of U.S. farm policy since the 1930s, with the goal of increasing the standard of living of American farmers. Although they benefit some farmers, government payments can induce economically wasteful overproduction by encouraging production of higher-cost goods that would be unprofitable without subsidies. Thus, subsidies can generate costs to taxpayers that exceed the benefits received by U.S. producers and consumers. Due to the rise of large commercial farms, subsidies have also become increasingly directed toward high-income farmers. In 2006, farm households with an income over \$100,000 received the majority of government payments (compared with the median U.S. household income of approximately \$48,000). In addition to monetary costs, farm subsidies can also raise other concerns. Some subsidies require that land be reserved for specific crops, potentially limiting the variety of foodstuffs in local communities, and subsidy-induced production may raise fertilizer use, which contributes to environmentally damaging runoff.

Despite the fact that farm income in the United States is forecast to reach record levels in 2008, taxpayers will provide a projected \$13 billion in payments to U.S. farmers this year. In real terms, direct government payments have come down by over half since 2000, when they were the highest ever, even exceeding payments during the farm debt crisis

continued on the next page

Box 4-1 — continued

of the 1980s. This decline was driven primarily by higher market prices for agricultural commodities, rather than by policy initiatives to reduce support. For example, government payments under several programs that provide support when commodity prices drop below a threshold level have declined over 80 percent since 2005, while farm bills, such as the Food, Conservation, and Energy Act of 2008, continue most existing support programs.

Agricultural subsidies are widespread in developed countries, although they represent a lower share of gross farm receipts in the United States than in the EU and in many other countries, including Japan, Korea, and Canada. Because subsidies can impose greater costs than benefits, reducing subsidies would increase incomes and economic welfare; indeed, research suggests eliminating agricultural subsidies in developed countries would increase U.S. welfare by several billion dollars per year. In developing countries, reducing subsidies would raise agricultural prices and improve the lives of producers, although it could also raise the cost of some food for consumers. Given the prevalence of agricultural support, multilateral agreements are the single most effective way to address this issue. The Doha Round of the WTO trade talks has included negotiations on limiting subsidies with the greatest potential to stimulate overproduction and distort trade. In July 2008, as part of the Doha talks, the U.S. Trade Representative announced that the United States was prepared to limit this subset of subsidies to \$15 billion annually, down from the \$22 billion limit offered in 2005. In the United States, these subsidies have exceeded the proposed new \$15 billion limit in seven of the last 10 years.

The Benefits of Open Investment

The ability to either export excess savings in return for foreign assets or to borrow savings and invest more than is saved within the country can allow nations both to achieve higher income growth than would otherwise be possible and to cushion temporary shocks to the economy. Over time, the United States has benefited in both ways. For example, foreign demand for secure investments has lowered borrowing costs for the U.S. Government. There have also been benefits from accumulating assets overseas: U.S. businesses and investors have been able to make use of their foreign asset holdings to diversify, reduce risk, and raise overall returns on investments.

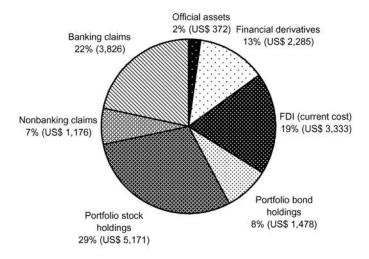
Economic growth has likely been supported by openness to foreign investment in a variety of ways, including an increase in the amount of capital available for investment; greater transfer of technology; increased employment; and greater access to global capital, goods, and services by domestic firms. Although still a matter of debate among economists, foreign direct investment is generally considered to convey all of these benefits in a particularly straightforward fashion. According to the latest data available from the Commerce Department, in 2006, U.S. affiliates of foreign companies accounted for 6.1 percent of U.S. nonbank private sector production, provided more than 5.3 million jobs to American workers (4.6 percent of the U.S. workforce), spent \$34.3 billion on research and development (14 percent of U.S. expenditure on R&D), and accounted for 19 percent of U.S. exports.

The benefits that a country receives are related to the volume and composition of its investment flows. The net flow of investment across borders is equal to the gap between the value of goods and services that a nation exports and the value of the goods and services it imports. This is also equal to the difference between a nation's savings and its domestic investment. Nations that save more than they invest domestically invest these extra savings in the rest of the world, and in the process purchase foreign assets, including bonds, equities, and FDI. Nations whose domestic investment exceeds their savings receive investments from abroad and, in doing so, sell assets to foreign residents.

The composition of investment flows is in part determined by the willingness of the investor to accept greater risk in exchange for a potentially higher return. Chart 4-3a provides a breakdown of types of foreign assets accumulated by U.S. investors (including the government), and Chart 4-3b shows the types of U.S. assets accumulated by foreign investors. Relative to foreign investors in the United States, U.S. private investors have been relatively risk-tolerant in their holdings of foreign assets, particularly in holdings of private portfolio stocks and FDI. Portfolio stocks constituted 30 percent of total private foreign investment by U.S. investors in 2007, whereas they constituted 17 percent for foreign investors in the United States. Likewise, U.S. investors allocated 19 percent of their foreign holdings to FDI, whereas private foreign investors only allocated 14 percent of their U.S. investments to FDI. In keeping with their lower risk appetite, foreign private investors held twice the share of bonds, including U.S. Treasury bonds, in their U.S. asset holdings (24 percent of private investment) than U.S. investors held in their foreign asset holdings (9 percent of private investment). There was also a pronounced difference in official government holdings. Foreign governments and official institutions held 17 percent of all U.S. assets owned by foreigners, whereas the U.S. Government held only 2 percent of the total foreign assets in U.S. residents' possession. The majority of foreign official holdings of U.S. assets in 2007 were U.S. Treasury bonds and bonds issued by governmentsponsored enterprises (GSEs) such as Fannie Mae and Freddie Mac.

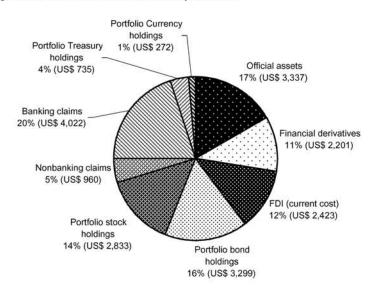
Chart 4-3a U.S. Holdings of Foreign Assets, 2007 (US\$ bil)

U.S. investors abroad are relatively risk-tolerant.



Source: Department of Commerce (Bureau of Economic Analysis).

Chart 4-3b Foreign Holdings of U.S. Assets, 2007 (US\$ bil) Foreign investors in the United States are relatively risk-averse.



Source: Department of Commerce (Bureau of Economic Analysis).

U.S. Investment and Investment Policy

Since the early 1980s, the United States has received more capital from foreign investors than U.S. residents invested abroad. Table 4-2 provides capital flow data for the years 2000 through 2007, the latest available data. There are many aspects about the United States that have proved attractive to foreign investors, including the size, diversity, liquidity, and depth of U.S. financial markets. According to one estimate, U.S. financial markets accounted for approximately one-third of the world supply of financial assets in 2006 (the latest year for which data are available). The U.S. share of the world supply of securities available to investors may even be much higher, given that in many countries the fraction of a company's shares available on the market may be much lower due to the large controlling stake in the company held by the government, a financial institution, or a family. In addition, U.S. markets offer strong minority shareholder rights and other property rights, a large domestic market, opportunities to invest in technological innovation, and demographic trends that result in a younger and faster-growing population than in most other advanced nations.

Much attention has been given to the large purchases of U.S. assets by foreign governments (primarily central banks and sovereign wealth funds; see Box 4-2). Although official flows (primarily foreign exchange reserves invested in the United States) are important, private flows are much larger. In 2000, for example, total foreign capital inflows into the United States were \$1,038 billion of which private capital flows were \$995 billion, or 96 percent of the total. Since then the share of private flows has not fallen below 68 percent, and it stood at 80 percent in 2007, the last year for which data are available. FDI and other investment flows are likely to be affected, even if only in the short to medium term, by the current financial crisis. This is the subject of Box 4-3.

Table 4-2.—Capital Flows into and out of the United States (billions of U.S. dollars)

	2000	2001	2002	2003	2004	2005	2006	2007
Foreign Capital Inflow	\$1,038	\$783	\$795	\$858	\$1,533	\$1,247	\$2,061	\$2,058
Of Which: Private Flows	995	755	679	580	1,135	988	1,573	1,647
U.S. Capital Outflow	561	383	295	325	1,001	547	1,252	1,290
Net Capital Inflow into the U.S	417	385	461	523	625	729	788	731

Note: The net capital inflow figures are equal to those reported as the current account. This series differs from a straight subtraction of outflows from inflows due to omissions of certain types of financial transactions and statistical discrepancies. Source: Department of Commerce (Bureau of Economic Analysis).

Box 4-2: Sovereign Wealth Funds

A sovereign wealth fund (SWF) is a state-owned investment fund. While there is no widely recognized definition of a SWF, typical hallmarks include that it holds foreign financial assets; makes some long- or medium-term investments that are riskier than the safe, liquid assets that make up official foreign currency reserves held for balance of payments or monetary policy purposes; and has few or no defined obligations, such as paying pension benefits or other specific liabilities. Nations may create SWFs for many purposes, including to earn higher returns on foreign currency holdings in excess of desired reserve assets, stabilize fiscal revenues, save wealth across generations, or fund development projects. SWFs are typically funded through commodity exports such as oil, gas, or diamonds, or through transfer of official foreign reserves accumulated as a result of large trade surpluses. Examples of some large SWFs include the United Arab Emirates' Abu Dhabi Investment Authority, Norway's Norges Bank Investment Management, the Government of Singapore Investment Corporation, and the China Investment Corporation.

Sovereign wealth funds have existed at least since the 1950s, but the amount of money estimated to be in such funds has increased dramatically in the past 10 to 15 years. One recent study estimates that SWFs currently manage \$3.6 trillion in assets, and that total could rise to \$10 trillion by 2015, although recent decreases in commodity prices will lower this projection. In 2006–2007, the amount of assets held by SWFs was large compared to the amounts held by private equity (\$0.8 trillion) and hedge funds (\$1.9 trillion), but was dwarfed by the assets held by insurance companies, mutual funds, and pension funds (on the order of \$20 trillion each).

Sovereign wealth funds have the potential to promote global financial stability by acting as long-term, stable investors that provide significant capital to the system. They are not typically highly leveraged and would therefore not be under pressure to sell off assets for the purpose of meeting debt obligations. At the same time, the performance incentives that SWFs face remain opaque, and like all large, concentrated investors, SWFs could cause market volatility by abruptly shifting their asset allocations to avoid losses. The extent to which SWFs act as a stabilizing force in financial markets is an open empirical question that may be difficult to answer due to the lack of transparency of many SWFs.

Foreign investment, including investment by SWFs, provides capital to U.S. businesses, improves productivity, and creates jobs. The United States is currently the largest recipient of SWF investment. Investment

continued on the next page

Box 4-2 — continued

from SWFs has helped to shore up financial institutions during the credit crisis: sovereign wealth funds invested an estimated \$92 billion in global financial institutions from January 2007 to July 2008.

The increasing size of SWFs in global financial markets has prompted some concern, however. For recipient countries, ownership of sensitive assets by foreign governments may pose national security concerns. High-profile investments by SWFs may also provoke a protectionist backlash against foreign investment. In April 2008, the Organization for Economic Co-operation and Development (OECD) published investment policy principles for countries that receive SWF investment, endorsing long-standing OECD principles against protectionist investment barriers and for nondiscriminatory treatment of investors. The principles stress that when additional investment restrictions are required to address legitimate national security concerns, then investment safeguards by recipient countries should be transparent and predictable, proportional to clearly identified national security risks, and supportive of accountability.

Countries that own SWFs have also raised concerns about the governance and accountability of these funds, and recognize that it is in their interest to ensure that their money is invested well. In October 2008, a group of 23 countries with SWFs published the Generally Accepted Principles and Practices, known as the "Santiago Principles," for sovereign wealth funds. The voluntary principles stress that SWFs should be transparent and accountable and should make investment decisions based on commercial principles. Adherence to these principles not only will help ensure that SWFs are well managed, but will have the additional benefit of reassuring recipient countries that SWF investments are financially stable and are economically and financially motivated.

Box 4-3: The Effect of the Current Economic Slowdown on Foreign Investment into the United States.

The large capital inflows into the United States over the past decade have led to many benefits described in this chapter. It is too early to say definitively how the financial crisis will affect these inflows. There are two aspects to this issue. First, there is the question of whether the supply of credit that net-saver nations provide to the rest of the world will be reduced. This credit has primarily flowed from Asian economies

continued on the next page

Box 4-3 — continued

(including Japan's), whose combined current account surplus (a measure of capital outflows) was \$608 billion higher in 2007 than it was in 1997, and Middle East economies, whose combined current account surplus was \$253 billion higher in 2007 than in 1997. To the extent that the recent slowdown in global economic activity reduces demand for Asian exports and petroleum products (as well as other commodities), the net savings available from these nations may fall if savings rates do not rise sharply. Moreover, foreign countries' savings are also likely to decline if governments decide to engage in higher spending to boost their flagging economies, thereby lowering the amount of government saving. Such spending would reduce the gap between national saving and domestic investment and reduce the supply of credit to the rest of the world, raising world interest rates.

The second question is whether the cost of foreign savings to the United States will rise. This depends on U.S. demand for foreign savings and the relative desirability of U.S. assets for foreign investors. The rising U.S. demand for foreign savings over the past decade is evident in Table 4-2. To add further evidence, the current account deficit of the United States (equal to net capital inflows) was \$591 billion higher in 2007 than in 1997, and the United States received net investment from the rest of the world equal to 1.3 percent of world GDP in 2007, compared with average net foreign investment in the United States equal to 0.7 percent of world GDP from 1994 to 2001. Although predictions vary, U.S. imports and exports are both anticipated to fall sharply, likely leading to continued high levels of net capital inflows, and therefore high demand for foreign savings. If other nations that have relied on net capital inflows also maintain their same level of demand for foreign savings as well, unchanged demand in the United States for a potentially shrinking supply of global savings would tend to raise the cost of obtaining these inflows.

Yet the cost of foreign savings has not increased for the United States, and this primarily reflects an increase in the relative desirability of U.S. Treasury bonds for global investors. The net inflow of foreign savings into U.S. Treasuries has permitted the U.S. Government to borrow at a relatively low cost, and this has so far helped cushion the impact of the crisis on the U.S. economy. The relative desirability of U.S. Government bonds reflects a seismic decrease in global investors' appetite for risk. This has generated enormous demand for low risk assets such as U.S. Treasuries. If global investors' appetite for risk returns, demand for Treasuries will likely fall and whether the cost of foreign savings will rise for the United States will depend on the relative attractiveness of U.S. investments compared to opportunities abroad.

Foreign Direct Investment into the United States

For statistical purposes, the United States defines foreign direct investment (FDI) as the acquisition of at least 10 percent of an existing U.S. business, or the establishment of a new business, by a foreign person. The business acquired or formed as a result of the FDI is known as a U.S. affiliate of the foreign parent. Outlays for new FDI into the United States rose in 2006 and 2007, and the rate of increase of spending for new FDI greatly exceeded the rate of increase of U.S. merger and acquisition activity. Of total new FDI outlays into the United States of \$277 billion in 2007, \$255 billion (92 percent) was for the acquisition of existing U.S. firms, while \$22 billion (8 percent) was for the establishment of entirely new businesses, according to preliminary data. In 2006, the three countries with the greatest production (or value added) by U.S. affiliates as a share of total U.S. affiliate production were the United Kingdom (19.6 percent), Japan (12.3 percent), and Germany (11.0 percent). The three biggest industry recipients of FDI new investment outlays in 2007 were manufacturing (49 percent), finance and insurance (9 percent), and real estate and rental and leasing (7 percent).

U.S. affiliates of foreign businesses are a large force in the U.S. economy, and their importance has increased in certain ways. Over the past 20 years, U.S. affiliates have increased their contribution to U.S. production from 3.8 percent of U.S. private sector production in 1988 to 6.1 percent of production by 2006 (the latest year available). The employment share of U.S. affiliates reached 4.6 percent in 2006. In 2007, newly acquired or established U.S. affiliates employed 487,600 people (including 147,500 in manufacturing and 143,600 in retail).

Although U.S. affiliates of foreign businesses are distinguished by relatively high wages and productivity, these attributes may reflect the nature of the industries to which FDI is attracted rather than any special attribute of foreign ownership itself. However, the ability to sell a business to foreign investors interested in acquiring new technology creates an incentive for entrepreneurs to innovate by increasing the potential rewards. There are other benefits as well. Studies that investigate the unique benefits of FDI, as opposed to other forms of foreign financing, typically claim that FDI can introduce new technologies to domestic industries and increase the nation's growth rate as these new technologies are adopted and spread throughout the economy.

Efforts to measure *technological spillovers* have often come to conflicting conclusions about the extent of these benefits. Many studies indicate that the benefits of FDI for the host country depend heavily on context. One recent study, for example, finds results that are sensitive to the level of worker education in the region where the investment is being made. Its findings indicate that FDI stimulates economic growth most for U.S. States where worker education exceeds certain threshold levels.

U.S. affiliates may be most productive if they are located near other firms with similar technical and knowledge requirements, or near a large number of workers with specialized skills and suppliers with specialized inputs. A recent study that finds that U.S. affiliates tend to cluster in specific areas (often with other U.S. affiliates with parents from the same country). For example, Connecticut and South Carolina tied for the largest U.S. affiliate share of private industry employment at 7.1 percent. Most of the U.S. affiliates in Connecticut were controlled by Dutch businesses, whereas the U.S. affiliates in South Carolina were heavily associated with German businesses.

Foreign Investment Policy

The perception that openness to foreign investment must be traded off against security is misguided. Foreign investment gives investors in other countries an economic stake in the prosperity of the United States, creating an incentive to support policies that are good for U.S. growth and stability. Nonetheless, foreign acquisition of assets or businesses may create a risk to national security if production of key resources could be disrupted or if sensitive information or technologies may be disclosed. The Exon-Florio provision of the Defense Production Act of 1950, which became law in 1988, provides for the President or the President's designee to review certain foreign investments in the United States. If a transaction threatens to impair national security, the President is authorized to prohibit the transaction.

In October 2007, the Foreign Investment and National Security Act of 2007 (FINSA) became effective, amending Exon-Florio in various ways, including by codifying the structure, role, process, and responsibilities of the interagency Committee on Foreign Investment in the United States (CFIUS), which has been designated by the President to undertake Exon-Florio reviews since 1988. Although FINSA expands government oversight of some foreign acquisitions, it also increases the transparency and predictability of the CFIUS process. With the publication of final regulations in November 2008, FINSA is now fully implemented.

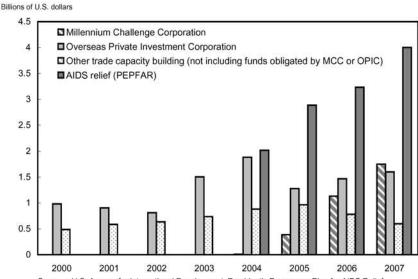
Development Assistance Initiatives

The United States benefits from increased trade as other economies grow and become more open, but the main benefits of development assistance programs include improving the lives of disadvantaged populations, increasing economic and political stability abroad, and fostering closer ties to the United States. The United States has many long-standing economic assistance commitments, including those funded through the United States Agency for International Development (USAID), the Departments of State

and Defense, and funding for multilateral development institutions such as the World Bank. Under this Administration, the United States has initiated and expanded specific economic assistance programs in developing economies, particularly those that practice good governance; make trade a prominent feature of their development plans; and demonstrate a commitment to taking ownership of the reforms, planning, and logistics required for the success of development programs and projects. Economic assistance programs, including trade capacity building (TCB) programs, are provided primarily by the Millennium Challenge Corporation (MCC) and USAID, and investment promotion programs are provided by the Overseas Private Investment Corporation (OPIC). The United States offers developing countries, particularly the least developed, preferential access to the U.S. market through several preferential trade programs. The United States also has health and education initiatives such as the President's Emergency Plan for AIDS Relief (PEPFAR).

To put these programs in context, U.S. spending on four of these initiatives from fiscal year 2000 to 2007 is shown in Chart 4-4. MCC has had a steady increase in funding since its inception in 2004. Spending on "Other TCB" in Chart 4-4 does not include TCB funds that are already included in spending by MCC and OPIC; overall, TCB funding rose to \$2.3 billion in 2008. The highest spending from 2004 through 2006 was on PEPFAR, reaching \$4 billion in 2007. The MCC, TCB, and OPIC, in addition to trade preference

Chart 4-4 U.S. Obligations on Select Development Assistance Initiatives, 2000-2007 Spending on innovative new development initiatives such as PEPFAR and the MCC has increased significantly.



Sources: U.S. Agency for International Development, President's Emergency Plan for AIDS Relief, Millennium Challenge Corporation, and Overseas Private Investment Corporation.

programs, are each discussed below, while PEPFAR is described in the section on health programs in Chapter 7.

Millennium Challenge Corporation

In 2002, the President announced the creation of the Millennium Challenge Account (MCA), a new bilateral initiative aimed at reducing poverty through investment programs, or compacts, of up to five years with countries that practice good governance, provide economic freedoms, and invest in their people's health and education. The Millennium Challenge Corporation (MCC) was set up to administer the MCA, and the importance of the MCC's focus on reducing poverty through economic growth is supported by research showing that economic growth is an important precursor for poverty reduction. In recognition of this relationship, before approving projects, MCC gathers evidence that the problems to be addressed by potential MCC-funded projects are indeed critical constraints to a country's growth. The strong commitment by MCC to near-universal application of cost-benefit analysis and rigorous, state-of-the-art project evaluation will allow the development community to better understand and learn important lessons about the effectiveness of various types of aid projects. Without making advances in knowledge about which projects are effective, U.S. efforts to improve the lives of targeted populations may not ultimately succeed. Given that most of MCC's compacts are currently in progress, it is too early to evaluate whether MCC has met its objectives.

Trade Capacity Building

An important goal of U.S. trade policy is to create opportunities for individuals and companies in developing countries. Trade capacity building (TCB), also called Aid for Trade, helps developing countries build capacity so that they can take advantage of global markets and implement trade rules. Top priorities for this aid are to develop infrastructure, strengthen financial markets, improve customs operations, develop sound business environments, and facilitate trade. The United States is the largest single-country donor of TCB assistance, spending \$2.3 billion in the 2008 fiscal year, and it has committed to provide \$2.7 billion in annual spending by 2010.

A key component of TCB is improving key physical infrastructure needs such as transportation, ports, telecommunications, electricity, and water—in developing regions. In recent years, the United States has supported road building in rural Colombia, pipeline rehabilitation in Georgia, and the construction of a new international airport in Ecuador. TCB funds also strengthen developing countries' financial infrastructure. A number of programs are aimed at improving the productivity and business practices in

micro-, small-, and medium-sized businesses, and at improving lending to these businesses.

Trade facilitation is another important part of TCB. Trade facilitation funds are used chiefly to modernize customs practices, promote exports from developing countries, and provide business support and training to help firms participate in global markets. Improvements in these areas are often key to generating new trade and investment flows in these countries. For example, trade may increase because improved customs practices reduce costs and shorten delivery times. The United States has supported projects to improve the flow of goods at the Kenya-Uganda border and along the route from coastal Namibia to South Africa. Investment may increase because trade facilitation addresses areas of chief concern to many international investors; a 2007 survey reported that customs and ports improvements are the highest priority for international investors in some emerging markets.

Recent U.S. trade agreements, such as the Dominican Republic-Central America-United States Free Trade Agreement, include a formal Committee on TCB to help trading partners implement the agreement and to smooth the transition to new trading regimes. The United States also promotes TCB more broadly. For example, the United States supports efforts by the WTO and the OECD to expand worldwide funding for Aid for Trade. This aid helps developing countries, particularly least-developed countries, enhance trade-related skills and improve infrastructure needed to expand trade and benefit from trade agreements. Along these lines, the Africa Global Competitiveness Initiative, announced by the President in 2005 to build on the African Growth and Opportunity Act, provides technical assistance to bolster the trade competitiveness of African countries. This initiative has been credited with supporting \$35 million in exports by African Growth and Opportunity Act beneficiaries in 2007. The United States also supports the Integrated Framework that coordinates efforts by six multilateral organizations (including the International Monetary Fund, the World Bank, the WTO, and other organizations) to reduce poverty in developing countries by better integrating trade into national development strategies.

Investment Promotion Programs

The United States also facilitates investment in emerging and developing countries by U.S. companies through the Overseas Private Investment Corporation. According to the corporation's 2007 annual report, it has supported over \$177 billion in U.S. investment abroad through its pioneering use of U.S. Government-backed political risk insurance, direct loans, guaranties, and equity funds. These investments, which help provide crucial opportunities to households and firms in developing economics, also contribute to increased foreign asset holdings of U.S. residents.

In addition, bilateral investment treaties foster market-oriented investment policies in partner countries, and support international standards for investment protection. In February 2008, the Administration signed a bilateral investment treaty with Rwanda. When implemented, it will bring the number of U.S. bilateral investment treaties in force to 41. Government is pursuing investment treaties with key emerging markets, as demonstrated by the 2008 announcements of treaty negotiations with China, India, and Vietnam.

Trade Preference Programs

Four U.S. preference programs are among the central elements of U.S. trade policy to promote growth and stability in developing countries. These programs provide preferential duty-free access for thousands of products that would otherwise be subject to duty upon entry to the United States. The U.S. Generalized System of Preferences, for example, provides dutyfree access to the U.S. market for over 3,400 products from 132 beneficiary developing countries, and provides even broader duty-free access for products from 44 least developed countries. In addition to the Generalized System of Preferences, U.S. preferential trade programs include the African Growth and Opportunity Act, the Caribbean Basin Initiative, and the Andean Trade Preference Act. These programs have been successful in increasing and diversifying developing countries' exports, which better integrates these countries into the global trading system and expands choices for U.S. manufacturers and consumers. These programs have also improved economic stability, promoted internationally recognized labor rights, and provided adequate and effective means to secure and enforce property rights, including intellectual property rights. Researchers have cautioned that preference programs can have negative consequences if preferences divert limited resources in developing countries to sectors that would not otherwise be competitive. Research on specific U.S. programs, however, suggests that in general these programs have increased exports and improved welfare.

These programs have generated many successes. The Generalized System of Preferences has a large and geographically diverse impact. For example, for 15 beneficiary countries, more than one-third of their exports to the United States received preferential duty-free access under the program in 2007. Under the Caribbean Basin Initiative and the associated Haiti Hope Act, Haiti—the poorest country in the Western Hemisphere—increased apparel exports to the United States by 75 percent between 2000 and 2007. These benefits helped to preserve an important sector of the Haitian economy. The African Growth and Opportunity Act has also been successful in increasing trade. For January to October 2008, exports from the original African beneficiary countries to the United States increased over 250 percent compared to

the same period in 2001, and exports that entered the United States duty free under the program exceeded \$50 billion, up almost 700 percent. U.S. exports to sub-Saharan Africa more than doubled in the same period, totaling over \$15 billion in 2008 through October.

Trade Policy Going Forward

Notwithstanding the rapid increase in U.S. regional and bilateral trade and investment agreements, the multilateral trading system remains at the heart of U.S. trade policy. The rules-based multilateral system of the WTO is the essential foundation of an increasingly integrated global economy, and the WTO remains the single best forum to generate progress on many global trade and investment issues. Such issues include reducing trade-distorting support and protection for agricultural sectors maintained by many countries, both developing and developed; and liberalizing trade barriers and burdensome restrictions on FDI in services sectors in developing countries.

The United States must continue to lead international efforts to address these and similar issues in order to expand the benefits of open markets and economic integration. In particular, the WTO Doha Round remains a top U.S. trade policy objective, with the goal of concluding an agreement that creates new trade flows in agricultural, industrial, and services markets that will expand global economic growth, development, and opportunity. The United States and many other countries remain committed to reaching a successful final agreement that achieves an ambitious market-opening outcome for both developed and developing countries.

In the history of global trade liberalization, there has not been smooth and uniform progress toward ever lower barriers. There have been long periods of inactivity or, worse, periods of rising protectionism. Previous periods of economic hardship have often coincided with an increase in protectionism and economic isolationism; for example, the use of nontariff barriers such as quotas rose in the 1970s and 1980s. In the current troubled economic environment, an increase in protectionism at home or abroad could further slow global economic progress. Limiting trade would jeopardize the strongest engine of growth of the past 2 years in the U.S. economy. In the short term, the United States must provide global leadership to oppose any resurgence of protectionism, while continuing to recognize and support the extensive benefits that an open trade and investment environment conveys.

In the longer term, the forces of greater global economic integration appear strong. During this Administration, as the United States implemented FTAs with 13 countries, more than 100 other countries put more than 75 other FTAs into force. Other nations will press forward and so must the United

States to avoid becoming economically disadvantaged in foreign markets. The United States should continue to pursue free trade agreements and, in particular, put into force those that have already been negotiated. The growth in bilateral agreements further emphasizes the importance of multilateral initiatives such as the WTO Doha Round, which can magnify gains by simultaneously reducing barriers in many countries, ensure that the benefits of market access are shared more widely among nations, and lead to transparent and less complex global trading rules.

Conclusion

The United States' commitment to openness in trade and investment and promotion of open markets abroad has led to a greater diversity in consumer choices, more exposure to new technologies and ideas, and higher levels of investment and economic growth than would otherwise have been possible. Openness to trade and investment has contributed to higher U.S. standards of living and has allowed the United States some structural flexibility to cushion economic shocks. On balance, strong links to other economies are likely to increase the resilience of the U.S. economy in the short and long term, even taking into account the potential for negative shocks, such as a decline in demand for U.S. exports. Short-run hardships will surely occur, and it may take some time for current weaknesses to be resolved, but the U.S. commitment to openness provides substantial benefits in both the short and long run.

With regard to trade, the U.S. commitment to openness has been most evident in the increased number of U.S. free trade agreements. These agreements have improved the competitiveness and performance of U.S. producers abroad and have provided substantial savings for U.S. producers and consumers at home. In investment, the United States has benefited from inflows of capital from abroad. Although it is unclear how future flows will be affected by the current crisis, U.S. investors have historically earned high returns on their investments abroad. The recent reform of the Committee on Foreign Investment in the United States represents a careful effort to remain open to foreign investors while safeguarding national security.

U.S. development assistance has supported openness in developing and emerging economies through investment in infrastructure, trade capacity building, trade preference programs, and investment promotion. U.S. efforts to relieve poverty and promote economic growth and stability have helped numerous developing countries. In addition, the United States' continued promotion of trade with developing countries will improve their access to, and ability to benefit from, global markets.

Tax Policy

Economists agree that taxes affect people's incentives and behavior. For example, allowing tax deductions for educational expenses makes it cheaper to go to college, which may encourage more people to go to college. Taxes can also discourage people from engaging in certain activities. Taxes on cigarettes, for example, make them more expensive to purchase, which may discourage people from buying them. Similarly, taxes on dividends (periodic distributions of a firm's profits to stockholders) and capital gains (the growth in value of an asset, such as corporate stock) decrease the return people receive from investing their money, which might cause them to invest less. When a higher tax rate is imposed on an activity, people have less incentive to engage in that activity. To encourage people to work and invest more, the tax rates on labor and investment income should be reduced. Over the past 8 years, several policy changes have resulted in lower tax rates for both individuals and businesses.

Individual income tax rates for all income levels are lower now than they were in 2001. Also, specific incentives have been established to reduce the adverse tax consequences of certain desirable activities, from running a small business to buying an alternative-fuel vehicle. Lower tax rates have increased the benefit to these activities; in particular, lower tax rates on dividends and capital gains helped business investment expand, thereby increasing the amount of capital per worker which improves worker productivity. Tax relief has contributed to the solid economic growth and job creation that prevailed over most of the past several years.

However, important challenges remain. Foremost among these is the fact that most of these tax reductions are scheduled to expire at the end of 2010. Allowing them to expire would constitute one of the largest tax increases in history and could have serious consequences for the U.S. economy. Another challenge is to further reduce business tax burdens and thereby encourage business investment in the United States. The United States should continue to attract such investment in today's global economy in order to develop better jobs for U.S. workers and to continue improving our standard of living.

Of course, individuals and businesses would prefer not to be taxed at all. Yet governments perform many functions desired by citizens—such as building roads and bridges, maintaining law and order, and providing for the national defense—and impose taxes to raise revenue for these activities. While this chapter focuses on the economic effects of taxes, it should be noted that this is only one side of the Government's budget; a complete analysis of

fiscal policy should consider the economic effects of both the revenue and spending sides of the budget.

The key points of this chapter are:

- Taxes alter individual and business incentives and have the potential to distort their behavior. This Administration consistently fought to reduce tax burdens on individuals and businesses; tax rates are now much lower than they were just 8 years ago.
- Tax reductions over the past 8 years have improved incentives to work, save, and invest.
- Globally, nations compete for businesses and the associated jobs; the United States may need to reduce tax rates on businesses to remain competitive in today's world.
- Future goals should include permanently extending the tax relief of the past 8 years and reforming the Alternative Minimum Tax (AMT).

Individual Income Tax Reform

Governments impose taxes to obtain the revenue needed to perform their duties. The transfer of resources from individuals to the government does not directly impose a burden on the overall economy because the ability to purchase goods and services shifts from the individual to the government there is no net loss for the economy as a whole. However, taxes can impose a considerable burden on the economy for other reasons. Most significantly, taxes interfere with the efficient allocation of resources by altering the rewards from working, saving, and investing.

Resources are allocated efficiently when individuals and firms allocate them to the activities for which they are best suited, thus achieving the highest possible output for the economy. Without taxes, individuals and firms can allocate resources in the most efficient manner possible. With taxes, people receive lower benefits from taxed activities and adjust their behavior accordingly. (In some cases, such as when people engage in an activity that produces negative consequences for others, imposing a tax can improve economic efficiency; for example, high taxes on cigarettes can reduce the damage caused by secondhand smoke.)

High tax rates on labor income can induce people to reduce the time they spend working. This is particularly true for people with flexible work weeks and in households with a second worker. High tax rates on dividends and capital gains discourage people from investing and reduce the funds available in financial markets. In turn, this reduces business investment, which reduces the amount of capital available in the economy. Less capital means less machinery and equipment for each worker to use, making workers less

productive and leading to reductions in wages. The net result of these taxcaused changes is an inefficient allocation of resources: output is lower than it would have been in the absence of taxes. Economic research indicates that the total economic burden imposed on the economy for each dollar of income tax revenue collected actually exceeds 1 dollar, but estimates of the exact burden vary widely.

A second problem arises when people engage in activities to avoid paying taxes. The possibilities here include both legal activities, such as using complicated tax shelters to prevent income from being taxed, and illegal activities, such as not filing a tax return. While the great majority of people pay the taxes they owe, the latest Internal Revenue Service (IRS) estimate suggests that the gap between the amount of tax people owed and the amount actually paid was approximately \$290 billion in 2001, or 13.7 percent of all taxes owed. One consequence of people failing to pay their fair share of taxes is that a higher tax rate must be imposed on those who do comply with tax laws in order to collect the desired amount of revenue.

Lowering Tax Rates Stimulates Economic Growth

Taxing earned income reduces incentives to work because it reduces the return from work. Similarly, taxing capital income (such as interest, dividends, and capital gains) reduces the return from saving and investing and therefore reduces the incentive to save and invest. The changes in incentives, along with any associated behavioral changes that result from changes in tax rates, are what economists mean when they assert that taxes "distort" the normal operation of labor and capital markets. When taxes are imposed on choices people make, distortions tend to occur and markets operate at less than peak efficiency. Because different types of taxes create different types and sizes of distortions, one goal of tax policy should be to choose tax rates that minimize the distortions and the accompanying inefficiencies whenever possible.

Key determinants of the effect a tax system has on the economy are the average tax rate—the fraction of income paid in taxes—and the marginal tax rate—the amount of tax owed on an additional (that is, marginal) dollar of income. A high average tax rate tends to discourage people from engaging in an activity at all. For example, a high average tax rate on labor income can reduce the total after-tax return so much that it discourages people from working at all. In contrast, a high marginal tax rate on labor income reduces an individual's after-tax return from increased work effort and from investing in additional education. The example in Box 5-1 examines this particular issue in more detail. Because education levels positively affect productivity, economic growth will generally be higher when people acquire more education.

By reducing both average and marginal tax rates on labor and capital income at almost every income level, the tax policies of the past 8 years reduced the distortionary effects of these taxes and thereby improved the efficiency of the labor and capital markets and of the U.S. economy as a whole.

Box 5-1: Encouraging Human Capital Investment

High marginal tax rates can discourage people from pursuing additional education and improving their skills to qualify for a higherpaying job. To see this, consider a high school teacher who is choosing between continuing to work for about \$50,000 per year (the median salary for high school teachers in 2007), and getting additional education so he can become a school principal and earn \$80,000 per year (the median salary for elementary and secondary education administrators in 2007). Although there may be other factors, suppose this worker's main concern is his after-tax income.

Consider the impact of two different tax regimes: In the first regime, assume the high school teacher would owe \$5,000 per year in income tax and the principal would owe \$12,500 per year in income tax. The difference, \$7,500, is the additional tax he would owe if he were to acquire the skills needed to be a principal. Comparing this amount to the expected increase in income (\$30,000), we see that the marginal tax rate imposed on the additional income is 25 percent (\$7,500/\$30,000). In the second regime, assume an alternate tax system in which the high school teacher owes \$3,000 per year in tax and the principal owes \$15,000 per year in tax. Under this new system, the tax impact of acquiring additional skills is \$12,000. Comparing this to the expected increase in income (still \$30,000) reveals that the marginal tax rate imposed on the additional income is 40 percent (\$12,000/\$30,000).

The larger marginal tax rate in the second regime means the worker experiences a smaller increase in after-tax income; thus, his incentive to acquire the skills necessary for the higher-paying job is smaller in this regime and may cause him not to pursue additional education.

As an aside, notice that if the worker chooses to stay a high school teacher, he pays more in income tax in the first regime (\$5,000) than he would in the second (\$3,000). Part of the reason the first regime has a lower marginal tax rate for additional education is that there is a higher average tax rate on lower-earning individuals than in the second regime.

Increased Work Incentives

A labor income tax decreases the incentive workers have to supply labor to the market by reducing their take-home pay. Workers may choose to work fewer hours, and some may even choose not to work at all. These behavioral changes reduce the efficiency of the labor market and of the economy as a whole. The tax relief of 2001 reduced tax rates on labor income and thereby reduced the distortions and efficiency losses created by taxing wages.

Economists have found that different people can be affected differently by taxes. Some people exhibit very little change in labor supply as tax rates vary, while others may enter or exit the workforce entirely. Consider a married couple in which one person works at a full-time job; call this person the primary breadwinner for the family and assume he makes \$50,000 per year and works a fixed 40-hour week. The other person has the option of working at an hourly job and can earn up to \$10,000 per year, depending on how many hours she works; call this person the secondary earner. When there is a change in tax rates, the breadwinner will probably continue to work the same amount of time because of the importance of his income to the family and his fixed work hours. However, the work decisions for the secondary earner are not as clear. Because married couples are taxed on their combined income, any income earned by the secondary earner will be taxed at the marginal tax rate facing the couple. Because an income tax lowers the reward for working outside the home, it makes other activities (such as leisure or raising a family) look relatively more attractive compared to work. An increase in the marginal tax rate facing the couple could reduce the return the secondary earner receives from working by enough to cause her to choose not to work at all. Alternatively, if a worker wants to earn a specific amount of income, higher tax rates could cause her to increase work time.

In practice, economists find the labor supply of married men to be relatively stable regardless of changes in tax rates. Research shows, however, the labor supply of married women to be quite sensitive to changes in tax rates, although this sensitivity has declined over the last few decades as labor force participation by women aged 25–54 increased from about 50 percent in 1970 to over 75 percent in 2008.

The tax relief of the past 8 years reduced marginal tax rates at almost every income level, reduced the distortions inherent in taxing earned income, and thereby increased the rewards from working and encouraged more people to work. In addition, tax relief that reduced marriage penalties improved the incentives for secondary earners to participate in the labor force.

Increased Saving and Investment Incentives

When individuals receive income, they can either spend it for current consumption or save it to finance future consumption. Financial intermediaries, such as banks and insurance companies, pool individual savings to finance capital investments. For example, a bank may combine the savings deposits of many individuals to make a loan to a small business owner. The business owner plans to make a profit so she can pay interest on her loan, which the bank uses to pay interest to the depositors. Similarly, when people purchase stock in a company, the company can use the funds to invest in new machinery and equipment. These new assets generate income for the company that gets returned to the investor in the form of dividends or capital gains. These investments increase the amount of machinery and equipment used by each worker, raising the productivity of workers; this helps to increase workers' wages and, ultimately, increases the average standard of living for Americans.

An important tax policy issue is the double taxation of income earned from saving and investing. Taxing this income discourages individual saving and investment, which reduces the funds available to finance new businesses and for existing businesses to expand. Currently, corporations first pay tax on their profit, then the after-tax profit is either distributed to shareholders as dividends or reinvested in the company by retaining it and allowing shareholders to benefit via capital gains (that is, increased equity); either way, the shareholder then pays taxes on the income he or she earns. As a result, income from new capital investment by corporations, financed by individual equity investment, is taxed twice—once by a tax on the corporation's profit, and again by a tax on the dividends and capital gains earned by the individual investor. This double taxation of corporate income generates an effective tax rate on equity investment that is greater than either the statutory corporate tax rate or the individual income tax rate. Ultimately, such taxes lower the capital-to-labor ratio, suppress wages, and harm long-run economic growth. Box 5-2 gives an example of how double taxation can slow economic growth.

The tax reductions of the past 8 years increased individual incentives to save and invest. In 2001, the top marginal income tax rate was reduced from 39.6 percent to 35 percent, thus reducing the tax on flow-through businesses (businesses whose profits are not taxed directly; instead, any profit they earn "flows through" the business to the owners, who then pay individual income tax on it). Before 2003, capital gains were taxed at a maximum of 20 percent, and dividends were taxed as ordinary income (at a maximum rate of 38.6 percent in 2002). As part of the Jobs and Growth Tax Relief Reconciliation Act of 2003 (JGTRRA), the maximum tax rate for long-term capital gains and dividends was reduced to 15 percent. (The next section elaborates on the significance of reducing tax rates on dividend income.)

Box 5-2: Double Taxation Slows Economic Growth

From an individual perspective, the act of saving reduces consumption today so more can be consumed in the future. Similarly, when firms invest they reduce present production so they can be more productive and profitable in the future. Taxing capital income lowers the return to saving and investment, which encourages current consumption and discourages future consumption. For example, suppose a corporation is considering selling additional stock to finance the construction of a new plant. The corporation expects that the *net return* on this investment (the return after subtracting depreciation) will be 10 percent. Suppose further that individuals will purchase the shares if they receive a return of at least 6 percent. The investment is socially beneficial because it generates a higher return (10 percent) than the savers providing the funds require (6 percent).

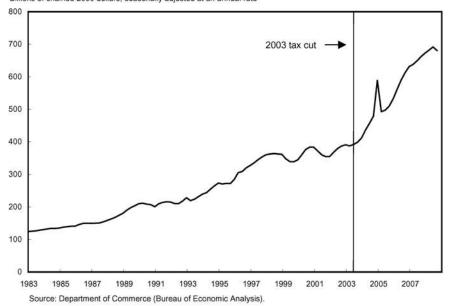
When the new plant begins operating, the income it generates for the firm is subject to the corporate income tax; currently, the corporate income tax has a top marginal rate of 35 percent. Similarly, individuals investing in the firm owe tax on the income they receive from their investments; currently, the top marginal rate on dividends and long-term capital gains is 15 percent.

Now consider an individual who invests \$1,000 in the company's new stock. The new plant generates \$100 of net income on this investment. The firm owes 35 percent in tax, leaving \$65 of after-tax profit for the firm. Suppose the firm immediately returns all of this money to the investor as a dividend. The investor owes 15 percent in tax, leaving about \$55 for her to use. That is, after applying the two taxes, the investor receives a return of only 5.5 percent on her initial investment. Because this is less than her required return of 6 percent she will choose not to invest in this company's stock and the new plant would not be built. In summary, taxing both corporate income and individual capital income can produce an effective tax rate high enough to alter saving and investment decisions enough to cause socially beneficial projects to go unfunded.

Dividend Tax Relief

A major Administration accomplishment was reducing the tax rate applied to corporate dividends. JGTRRA reclassified dividends so they are taxed at the same rate as long-term capital gains, currently a maximum of 15 percent. As Chart 5-1 shows, the change appears to have been effective in expanding dividend payments: since 2003, real dividend income has grown at an average of 11.1 percent per year, while from 1983 until 2003, real dividend income grew at an average of only 5.8 percent per year. (The 2004 spike in the chart reflects a special one-time dividend paid by Microsoft Corporation.)

Chart 5-1 Real Personal Dividend Income Dividend payments have increased since the 2003 tax cut. Billions of chained 2000 dollars, seasonally adjusted at an annual rate



Reducing tax rates on corporate dividend payments directly reduces the double taxation of corporate income. It also reduces the incentive corporations have to use debt, rather than equity, to finance purchases of new capital. The fact that corporations can deduct interest payments from taxable income, but cannot deduct dividend payments, makes it cheaper for firms to borrow (rather than issue stock) to finance additional spending. Excessive borrowing increases the chances of insolvency because the higher a firm's debt payments, the greater the chance the firm's income will be insufficient to cover these payments. Insofar as insolvency triggers bankruptcy, this subjects equity holders and employees to additional costs and uncertainty.

Changing the tax treatment of dividends also reduced the tax bias against paying dividends compared to retaining earnings. Paying dividends returns funds to stockholders, who can decide for themselves how to use them, rather than having to leave the funds invested in a particular company. Also, paying dividends is a way firms can provide tangible evidence of their profitability. Clear signals about how profitable different firms are help investors identify the most efficient allocation of their resources. When the tax code penalizes dividends relative to capital gains and penalizes equity financing relative to debt financing, corporate financing decisions will be inefficient.

The Macroeconomic Benefits of Lower Tax Rates

Over the past 8 years, tax relief has reduced distortions to labor supply, saving, investment, and corporate governance. Making the tax relief permanent can substantially improve economic efficiency and increase economic activity. The Treasury Department estimates, for example, that if the tax relief of 2001 and 2003 were made permanent and were paid for by reductions in future government spending, economic output would increase by 0.7 percent in the long run. The benefits would be smaller or even negative, however, if the extension of the tax relief results in additional government borrowing or future tax increases rather than spending reductions. The Treasury Department estimates, for example, that if the tax relief were made permanent but the lost revenues were made up with other tax increases, economic output would decline by 0.9 percent over the long run. The concern about long-term financing for the tax relief is particularly important because of the likelihood of rising spending pressures in the future, as discussed in Chapter 6.

A Record of Tax Reform

One of the Administration's major tax policy objectives has been to change tax laws so they better encourage activities that are beneficial to the economy as a whole, such as work effort, saving and investing, education, and the creation of new jobs. With regard to individual income taxes, the Administration took steps each year to reduce the burden imposed on the American taxpayer. Here are some of the highlights of the actions taken:

- The Economic Growth and Tax Relief Reconciliation Act of 2001 was the most significant tax reduction since 1981. It created a new low 10 percent tax bracket and phased in reductions of the other existing marginal tax rates. It reduced marriage penalties by increasing the standard deduction and the lowest tax bracket threshold for married taxpayers, increased the child tax credit, and made many other tax preferences more generous. It also began phasing out the estate tax.
- The Jobs and Growth Tax Relief Reconciliation Act of 2003 accelerated the phasing-in of many of the tax reductions enacted in 2001. It also reduced capital gains tax rates and applied the capital gains tax rates to dividends.
- The Working Families Tax Relief Act of 2004 and American Jobs Creation Act of 2004 further accelerated the tax reductions previously enacted, including increasing the child tax credit to \$1,000. These laws further reduced marriage penalties by making the standard deduction for joint returns twice the single standard deduction, and expanding the

- 10 and 15 percent tax brackets for joint returns to twice the size of the corresponding brackets for single returns.
- The Pension Protection Act of 2006 made permanent a number of pension-related provisions of previous tax bills, such as higher dollar amounts for IRA contributions, higher dollar limits on defined contribution plans, and catch-up contributions for older workers.
- The Tax Increase Prevention Act (TIPA) of 2007 and the Emergency Economic Stabilization Act of 2008 each extended AMT relief. TIPA also increased the number of personal credits that could be used to reduce AMT liability.

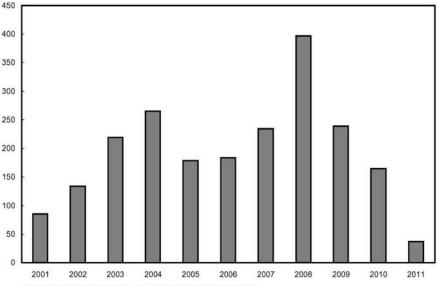
Each of the above measures was intended to promote long-term growth and improve economic efficiency. Another significant measure was the Economic Stimulus Act of 2008, which returned approximately \$100 billion to consumers via tax rebates—up to \$600 per taxpayer (\$1,200 for couples filing jointly) and \$300 for each dependent. Rebates were phased out for taxpayers with over \$75,000 in income (over \$150,000 for couples filing jointly). On the business tax side, the Economic Stimulus Act increased the dollar value of new equipment that could be deducted in 2008 and provided an expanded depreciation allowance of 50 percent on certain business property put into service in 2008. The primary purpose of these actions was to provide short-term, counter-cyclical stimulus to the economy by encouraging short-run growth in consumer spending and business investment. Tax rebates were chosen as the best way to provide this short-term stimulus because of the speed with which they put money into the hands of people most likely to spend it. Similarly, the business tax incentives were designed to encourage firms to accelerate purchases of capital equipment, making such purchases in 2008 rather than waiting until 2009 or later. Compared to the paths consumption and investment would have otherwise followed, the rebates appear to have boosted real personal consumption expenditures in the second quarter of 2008 and the accelerated depreciation was expected to boost business investment throughout 2008.

In total, the tax relief enjoyed by taxpayers from 2001 to 2008 saved Americans nearly \$1.7 trillion in taxes. Chart 5-2 illustrates how those benefits were distributed over these years. The value for 2008 includes over \$100 billion from the Economic Stimulus Act of 2008. Aside from stimulus, the amount of tax relief granted to individuals declines after 2008 because of the expiration of temporary changes to the AMT (discussed in detail later in this chapter) and declines significantly in 2011 because most of the tax reductions are scheduled to expire at the end of 2010.

Chart 5-2 Federal Income Tax Relief by Year

Tax relief has already allowed families to keep nearly \$1.7 trillion.

Billions of Dollars



Source: U.S. Department of the Treasury (Office of Tax Analysis)

Lower Tax Burdens

As a result of the tax relief of the past 8 years, the average Federal individual income tax rate declined to 20.4 percent in 2008. Without tax relief, the average Federal tax rate would have been 24.2 percent. The top half of Table 5-1 shows the rates taxpayers at different income levels face in 2008 as a result of the tax relief of the past 8 years and the tax rates they would have faced if it were not for this tax relief. Notice that taxpayers at all income levels experienced a reduction in their average Federal tax rate for 2008. For example, among people in the lowest income quintile, the average Federal income tax rate would have been 5.2 percent without tax relief, but with tax relief it was only 1.1 percent; while for people in the highest income quintile, the average Federal income tax rate would have been 29 percent without tax relief, and with tax relief it was only 25.4 percent.

The distribution of the burden of Federal individual income taxes is shown in the bottom half of Table 5-1. Without tax relief, the lowest quintile would have borne 0.8 percent of the Federal tax burden in 2008. With tax relief, the lowest quintile bore only 0.2 percent of all Federal taxes. The highest income quintile was the only group to see its share of Federal taxes increase in 2008, from 66.3 percent of Federal taxes before tax relief to 68.9 percent after tax relief.

TABLE 5-1.—Estimated 2008 Effects of Individual Income Tax Relief from the Past 8 Years

Average Federal Tax Rates (percent)							
	Lowest Quintile	Second Quintile	Third Quintile	Fourth Quintile	Top Quintile	All	
With Tax Cuts	1.1	8.3	15.0	18.1	25.4	20.4	
Without Tax Cuts	5.2	13.0	18.9	21.9	29.0	24.2	
Share of Federal Taxes (percent)							
	Lowest Quintile	Second Quintile	Third Quintile	Fourth Quintile	Top Quintile	All	
With Tax Cuts	0.2	3.3	10.2	17.3	68.9	100.0	
Without Tax Cuts	0.8	4.4	10.8	17.6	66.3	100.0	

Source: Urban Institute and Brookings Institution Tax Policy Center.

Pro-Growth Business Tax Reform

Throughout the past 8 years, the Administration has worked consistently to lower the burden of taxes on businesses, with the objectives of encouraging greater investment, job creation, and long-term economic growth. To accomplish these goals, the Administration has pursued two primary strategies: first, addressing enduring aspects of the tax system that diminish returns on investment for both individuals and businesses; and second, providing new tax incentives for businesses to stimulate greater investment.

Reducing the Double Taxation of Corporate Income

As indicated earlier, one aspect of the current tax system that diminishes returns on investment is the practice of double taxation of corporate income, which reduces the return to saving and investing. The Administration's 2003 tax relief reduced the magnitude of double taxation by reducing the tax rate on both dividends and capital gains. In addition, there have been amendments to the legal structure of corporations that have helped reduce corporate tax burdens.

To understand these changes, it is first helpful to understand the basic framework of corporate taxation. The tax treatment of business income varies depending on the organizational structure of the firm. There are two basic classifications of corporations for purposes of taxation and regulation: (1) C corporations, the traditional large, stock-issuing corporations; and (2) flow-through businesses, which include S corporations, partnerships, and sole proprietorships. For tax purposes, the main difference between these two groups is that flow-through businesses are exempt from the corporate profits tax that is imposed on C corporations. In flow-through businesses, profits are distributed to owners and shareholders (flowing "through" the company

directly to their owners), who then pay income taxes on their gains. (There are restrictions on both size and financial activities that prevent most firms from qualifying to be S corporations.) This arrangement allows flow-through business owners to avoid the double taxation of corporate profits and to face lower effective tax rates than do shareholders of C corporations. One goal of tax relief has been to "level the playing field" by reducing the difference between the tax rates applied to income generated by S corporations and C corporations.

Two types of changes helped to reduce the burden of corporate taxes. First, regulatory changes in 2004 and 2007 relaxed some of the restrictions that limit which firms can be S corporations. In addition to increasing the maximum allowable number of shareholders, new rules were enacted to make it easier for a firm to elect to become, and to remain, an S corporation. Second, each year from 2002 to 2005, and again in 2008, allowances for depreciation deductions were extended or expanded. As described below, these changes allow firms to take a greater deduction from income when new capital equipment is purchased, which effectively decreases the tax burden on income generated by that equipment.

Accelerating Depreciation Allowances

A consistent goal of the Administration has been to provide tax incentives for businesses to invest in new facilities and equipment. One way this goal was promoted was by accelerating business depreciation allowances. When physical assets (such as machinery and equipment that can be used over and over when producing goods and services) are used by businesses, their value declines (depreciates) over time due to the wear and tear they experience. With this in mind, businesses are allowed to deduct from their taxable income the dollar amount of the depreciation of their assets. The more quickly a firm is able to deduct, through depreciation, the cost of new investment, the more attractive new investment becomes. Because different types of assets have different useful lives and therefore depreciate at different rates, the IRS established the Modified Accelerated Cost Recovery System, which specifies the rates at which different types of assets can be depreciated.

Accelerating depreciation rates improves investment incentives for firms. As part of a temporary stimulus program, the Administration succeeded in expanding businesses' first-year depreciation allowance on qualified property by an additional 30 percent of its adjusted basis in 2002, to encourage greater business investment in new machinery and equipment in that year. In 2003, to provide additional short-term stimulus, the first-year depreciation allowance was expanded further, to 50 percent of the adjusted basis for qualified property. This expanded depreciation allowance expired in 2004, but was reintroduced—at 50 percent of the adjusted basis—as part of the Economic Stimulus Act of 2008.

Increasing Small Business Expensing

In addition to accelerating business depreciation rates, the Administration has supported pro-growth business tax policies by increasing the amount of "expensing" small businesses can do for their use of depreciable property. Distinct from the traditional concept of "business expensing," which refers to a business's ability to deduct expenses incurred that are not associated with acquiring or improving assets, Section 179 of the U.S. Internal Revenue Code allows individuals and small businesses to deduct the cost of property used to generate income, rather than having to capitalize the benefits through the depreciation schedule discussed above. The Administration expanded the capability of businesses to expense the cost of property under Section 179; in 2003, the maximum dollar amount that could be expensed under Section 179 was increased to \$100,000. In 2007 the limit was again increased, to \$125,000, and indexed for inflation for 2008 through 2010. Then, as part of the Economic Stimulus Act of 2008, the limit was increased to \$250,000 for 2008.

Tax Credits for Research and Development

Finally, a number of tax credits have been extended to businesses to encourage the types of research and development investment that have benefits for the public. Economists use the term "public goods" to describe things that could easily be used by more and more people with little or no additional production cost. From a social perspective, private companies generally make insufficient investments in public goods, such as scientific research to develop new technologies for health care or to expand utilization of renewable energy resources. This "underinvestment" occurs because companies pursue investment projects based on the potential value to themselves and generally do not consider the full benefit to society that could result from the investment.

For example, suppose a company was considering investing in research to develop a vaccine against diabetes. Once developed, the company would sell the drug at a price set high enough to recover its research costs and to generate some profit. Ultimately, the company would evaluate the merits of the investment based on the profit it expected to receive from selling the vaccine relative to the profit it could earn on other possible investments. Unfortunately, the price the firm would need to charge could exceed what some people who would benefit from the drug can afford to pay. As a result, some people who could benefit from the vaccine will not get it, and the company will underestimate the full value of this research investment. That is, the research will have a public value that is greater than its private value to the company. Put another way, for goods with large social benefits, private markets tend to offer smaller returns than are needed to result in efficient levels of investment.

Tax credits can be used to "fill the gap," by providing the company with an additional incentive that will encourage it to undertake this publicly beneficial investment. In the area of alternative energy, the Administration successfully extended existing research and development tax credits and expanded upon them in 2005 and 2006, providing an additional 20 percent credit for qualified energy research and increasing the percentage of research and development expenses that qualify for the credit. In 2005 and 2006, private industry research and development grew notably. Annual research and development spending by private industry grew by only 2.9 percent per year over the 20 years from 1985 through 2004. Subsequently, private industry research and development grew at an average rate of 5.1 percent per year in 2005 and 2006.

International Competitiveness

Today's global economy enjoys more economic interconnectedness than ever before. Efficiency improvements in information, communication, and transportation technologies have increased the ability of international firms to compete with U.S. firms in domestic and international markets. Associated improvements in the international mobility of capital mean that modern companies have a high degree of international flexibility regarding the location of new facilities. Thus, companies that want to open new facilities can compare investment opportunities across the globe to find locations with the highest after-tax return. As a result, a country's corporate tax policy, including its statutory tax rates, can have a significant impact on both job creation and the competitiveness of businesses within that country. There is ample evidence that companies include tax considerations when determining where to locate new facilities, a fact that has led to a sense of competition between countries as they try to attract companies by reducing their respective corporate tax rates.

To illustrate the trend toward lower corporate tax rates, Chart 5-3 shows the statutory corporate tax rate for the United States and the average (weighted by gross domestic product (GDP)) statutory corporate tax rate for non-U.S. members of the Organization for Economic Co-operation and Development (OECD) since 1981. (State and local rates are combined with the Federal statutory rates where appropriate.) During the early 1980s, the United States had a statutory corporate tax rate of nearly 50 percent, which was higher than the OECD average. Significant tax reform in 1986 reduced the United States's combined (Federal and State) rate to about 39 percent, a level it has roughly maintained since then. While this change reduced the U.S. tax rate to well below that of most other OECD countries in the late

1980s, other countries soon began reducing their corporate tax rates as well. By 2008, the non-U.S. OECD average corporate tax rate had fallen to about 30 percent, and the non-U.S. median corporate tax rate stood at 27.5 percent. Table 5-2 gives statutory tax rates for most OECD countries; the United States currently has the second highest statutory corporate tax rate of any industrialized country, less than 1 percentage point below Japan's.

That said, the United States offers companies a more generous depreciation allowance than do most other countries—only Italy and Greece offer greater allowances (see Table 5-2). When considered together, the high statutory tax rate in the United States is somewhat mitigated by its generous depreciation allowance. However, as shown in the last column of Table 5-2, the United States still has the fourth highest effective marginal tax rate on equity-financed projects, which can dampen the competitiveness of U.S. businesses and can dissuade firms from locating new facilities—and the associated jobs—here in the United States.

Future Challenges

The tax policy changes of the past 8 years have considerably reduced the burden on taxpayers and improved the efficiency of U.S. income tax laws. However, there is more work to be done. In addition to making these changes a permanent part of the tax code, the AMT needs to be reformed or even eliminated, and the tax code should be greatly simplified because complying with its incredible complexity consumes resources that could be put to better use elsewhere.

Making Tax Relief Permanent

Failing to extend the tax relief enacted over the past 8 years would amount to one of the largest tax increases in history. Individuals at all income levels, from low-income Earned Income Tax Credit recipients to high-income taxpayers, would be negatively affected. The total increase would average nearly 1.9 percent of GDP per year over the next 10 years and would increase the tax burden on the economy to well above the average over the past 40 years of 18.3 percent of GDP.

Taxing business income reduces the incentive people have to invest in businesses. Tax relief has encouraged greater business investment over the last several years. Going back to the high tax rates of the 1990s could reduce business investment, which could in turn reduce workers' wages and economic growth. In an international context, higher corporate tax rates would make locating new businesses in the United States less attractive, and would further depress jobs and growth.

Chart 5-3 Combined (Federal and State) Corporate Income Tax Rate

U.S. corporate tax rates are now well above those of most other developed countries.

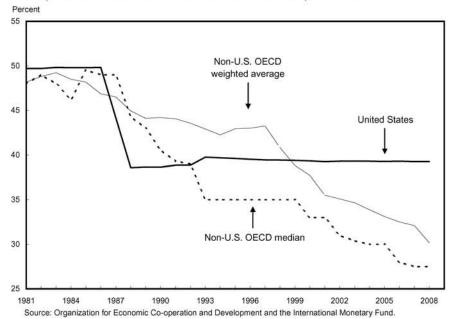


Table 5-2.—Statutory Corporate Income Tax Rates, Depreciation Allowances, and Effective Marginal Tax Rates for Selected OECD Countries, 2005

Country	Statutory Corporate Income Tax Rate (percent)	Discounted Value of Depreciation Allowance— Equipment (equity)	Effective Marginal Tax Rate Equipment (equity; percent)
Japan	40	73	28
United States	39	79	24
Germany	38	71	29
Italy	37	82	19
Canada	36	73	25
Spain	35	78	21
Belgium	34	75	22
France	34	77	20
Switzerland	34	78	20
Greece	32	87	12
Netherlands	32	73	21
Australia	30	66	24
United Kingdom	30	73	20
Norway	28	67	22
Portugal	28	79	15
Sweden	28	78	16
Finland	26	73	17
Austria	25	66	20
Ireland	13	66	10
Average (unweighted)	31	75	20
G-7 Average (unweighted)	36	76	24

Source: Institute for Fiscal Studies, Corporate Tax Database.

These lower tax rates have had many positive consequences for the economy. Lower taxes for individuals increased people's disposable income, allowing them to save more and spend more. Lower taxes for businesses increased business incentives to invest in new capital assets, which will improve worker productivity and wages and increase their international competitiveness. Letting tax relief expire will remove many of the gains made in each of these areas.

Fixing the Alternative Minimum Tax

The first minimum tax was enacted in 1969 in response to a Treasury Department report that a number of high-income taxpayers had no Federal income tax liability in 1966. The Alternative Minimum Tax, which is a parallel tax system with its own set of exemptions, deductions, and tax rates, was intended to ensure that high-income taxpayers pay their fair share of taxes. A major difference between the regular income tax laws and the AMT is that several significant deductions allowed under the regular income tax—such as personal exemptions, State and local income taxes, and business expenses—are not allowed under the AMT.

Technically, all taxpayers are required to compute their tax liability under both the regular income tax laws and the AMT and then pay the larger tax amount. Having to compute one's tax liability twice increases both compliance costs and the complexity of the tax code. In practice, the large income exemption available under the AMT means low-income taxpayers hardly ever owe more under the AMT. For many years, middle-income taxpayers were similarly unaffected by the AMT. However, the major problem with the AMT is that, unlike the regular tax exemptions and bracket thresholds, the AMT values are not indexed for inflation. This means that, as people's incomes naturally rise, even if only with inflation, an increasing number of middle-income taxpayers find themselves having a greater tax liability under the AMT than they do under the regular tax code. To counteract this problem, the exemption has been permanently increased several times, most recently in 1993, to \$45,000 for joint returns and to \$33,750 for singles. Above the exemption amount, the AMT tax rate is 26 percent on the first \$175,000 of taxable income and 28 percent thereafter. (Adjusting for inflation, the \$45,000 exemption in 1993 is worth more than \$66,000 in 2008 dollars.)

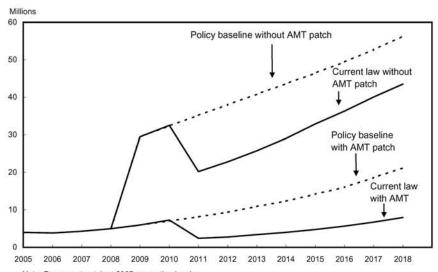
In its first year of operation, the minimum tax affected only 19,000 taxpayers and raised about \$122 million, meaning this tax caused these taxpayers to owe \$122 million more in tax than they owed under the regular tax laws. In 2007, the AMT affected over 4 million taxpayers and raised roughly \$26 billion in revenue (about 1 percent of all Federal revenue). Under current law, these

numbers are projected to increase to over 29 million taxpayers and over \$100 billion in revenue in 2009.

Chart 5-4 shows the number of taxpayers who are forecast to be affected by the AMT under different future policies. Under current law—with the AMT parameters returning to their 1993 levels after 2008 and tax relief expiring at the end of 2010—the number of AMT-affected taxpayers will rise sharply in 2009, ultimately reaching nearly 44 million taxpayers in 2018. In 2008, Congress enacted an AMT "patch," which adjusted the AMT parameters for 1 year to \$69,950 for joint returns and \$46,200 for singles (Congress has enacted short-term changes to the AMT parameters several times since 2001). If this patch is permanently extended and tax relief is allowed to expire at the end of 2010, the number of AMT-affected taxpayers would rise to 8 million in 2018. Alternately, if tax relief is extended (the "policy baseline" lines in Chart 5-4) the number of AMT-affected taxpayers will grow to 56 million in 2018 if the AMT parameters are allowed to return to their 1993 levels or to 21 million taxpayers if the AMT patch is permanently extended.

Taxpayers with many dependents or significant business deductions and those in high-tax States are more likely to be subject to the AMT. Three reductions to taxable income allowed under regular tax laws but not under the AMT are personal exemptions, miscellaneous business deductions, and State and local taxes. Taxpayers claiming more dependents may be accustomed to

Chart 5-4 Number of Taxpayers Subject to the Alternative Minimum Tax The number of taxpayers affected by the AMT in the future depends on whether the AMT parameters are adjusted for inflation and on whether tax relief is allowed to expire after 2010 (current law) or is extended (policy baseline).



Note: Permanent patch at 2007 exemption levels. Source: U.S. Department of the Treasury (Office of Tax Analysis). seeing a large reduction in taxable income because of the personal exemption allowed for each dependent, but no corresponding reduction is available under the AMT. Similarly, miscellaneous business deductions, allowable under the regular tax laws when they exceed 2 percent of adjusted gross income (AGI), are not deductible under the AMT. Taxpayers in a State with relatively high income taxes or relatively high property taxes receive a relatively large deduction under the regular tax laws but receive no relief for this expense under the AMT. The result of these items not being deductible under the AMT is that people with these deductions are more likely to be subject to the AMT than are people without these deductions. Among otherwise similar people, taxpayers with these deductions generally still pay less in Federal income tax than do people without these deductions, but the existence of the AMT reduces the tax benefit these deductions provide and means these people will have the extra work of filling out the additional form(s) required for the AMT.

Prior to 1998, most personal credits (such as the education tax credits and the child and dependent care credit) could not be used to reduce tax liability owed under the AMT. In fact, even if a taxpayer did not owe additional tax under the AMT, he or she would be prohibited from using the full amount of a credit if it would reduce his or her tax liability below the level determined under the AMT. This reduction in credit usefulness was yet another way people could be "hit" by the AMT.

AMT Reform Ideas

The most obvious way to deal with the AMT would be to abolish it entirely, although this would require the Federal Government to forgo over \$1.7 trillion in revenue over the next 10 years (assuming tax relief is extended through at least 2018). Short of that, there are several incremental approaches that could be used. One alternative would be for Congress to enact permanent inflation indexing of the AMT income exemption and other parameters. The recent experiences when 1-year increases in the AMT exemptions were enacted make clear that a permanent solution is needed. Other ways to reduce the impact of the AMT on the middle class include allowing deductions for personal exemptions and State and local taxes. Prohibiting taxpayers from using their personal exemptions under the AMT means the AMT treats large families differently than the regular tax code does, and effectively makes it more expensive for people to raise a family.

Simplifying the Tax Code

Finally, it remains difficult to overstate the complexity of the U.S. Internal Revenue Code: at standard print sizes, it would fill thousands of pages, with more added nearly every year. Deductions, exemptions, phase-outs, credits, and the AMT add complexity to the tax code that makes it challenging for ordinary people to determine their tax liability. See Box 5-3 for a fuller discussion of these issues.

Box 5-3: Tax Code Complexity

The U.S. individual income tax system is extremely difficult to understand and, as a result, imposes a substantial burden on taxpayers in the form of time and money spent complying with its various rules. There are dozens of tax credits and deductions, many of which target specific social goals. As the number of credits and deductions has grown over the years, the number of overlapping provisions has also increased, which often creates complicated interactions among provisions. Further, eligibility can vary across similar tax preferences due to idiosyncratic definitions and complicated phase-out provisions intended to limit tax benefits to lower-income taxpayers. For example:

- The tax code currently contains a dozen special tax preferences relating to educational expenses. Three commonly utilized preferences—the Hope credit, the Lifetime Learning credit, and the tuition deduction—help families meet the costs of post-secondary education, but each provision varies in terms of eligibility and benefits. Also, the use of one tax provision may affect a student's ability to use one of the other provisions and can even affect a student's eligibility for subsidized student loans or Pell Grants.
- Phase-out provisions reduce the benefit of certain tax preferences (such as personal exemptions and the tuition deduction) for high-income taxpayers. Similarly, the maximum allowable amount of itemized deductions can be reduced for taxpayers with an AGI above \$159,950 (in 2008). These provisions require additional calculations for taxpayers and also effectively increase their marginal tax rate. In 2008, an estimated 13 percent of taxpayers who itemized deductions will have their allowable itemized deductions reduced.
- When the parents of a qualifying child file separate tax returns, the tax code contains a number of special rules to determine which parent can claim the child as a dependent. These rules depend on the marital status and adjusted gross income of the parents as well as on the amount of time the child lives with each parent.
- To prevent parents from shifting investment income to their children, the unearned income of dependent filers is taxed at the parents' marginal tax rate. However, to limit this provision to higher-income families, this applies only to a child's unearned income in excess of a certain limit (\$1,800 in 2008).
- As discussed in the text, the AMT, which requires taxpayers to calculate their tax liability a second time using a different set of tax rules and rates, affects a growing number of taxpayers.

Complying with these complex laws costs taxpayers time and money. It takes time to read and understand the laws, to collect the relevant data and keep records, and to fill in the forms themselves (or to have someone else do it). In fact, the tax laws are so complex that an entire industry of lawyers and accountants exists to help people comply with the laws and even to find ways to avoid paying the taxes they owe. The resources used in this industry are unavailable for use to produce other goods and services. In effect, other than for tax-related purposes, there are no consumable goods or services produced by these resources—one could argue that the economy is wasting these resources. Several studies have examined the social cost of the complexity of our tax code. A Government summary of these studies concludes that the annual cost of complying with the tax laws averages at least 1 percent of GDP (about \$140 billion in 2008) and may be even higher. Tax reform that substantially simplified the tax code would free up these resources for more beneficial uses.

Conclusion

Taxes distort incentives to work, save, and invest. By lowering individual income tax rates at all income levels over the past 8 years, the Administration has substantially reduced these distortions and increased incentives to work, save, and invest. Lower Federal tax rates on capital gains and dividend income, along with the temporary increases in depreciation allowances, increased business incentives to purchase new capital equipment and reduced the double taxation of corporate income. Each of these changes improves the efficiency of the tax structure, enhances economic growth, and improves our standard of living over the long run. However, most of these tax reductions are scheduled to expire at the end of 2010, which would eliminate many of the gains made over the past 8 years. Allowing these tax reductions to expire will increase taxes for all income groups, with the lower- and middle-income groups experiencing the largest percentage increases.

Despite the improvements of the past 8 years, there remains much to be done to make the tax code as efficient as possible. In the international arena, the relatively low U.S. corporate tax rates of the late 1980s were left unchanged while most other developed countries dramatically reduced rates. As a result, U.S. corporate tax rates are now among the highest in the developed world. This handicap is partly offset by other tax provisions, such as generous depreciation allowances. But the resulting tax burden still places U.S. companies at a competitive disadvantage relative to companies in lowertax jurisdictions, and it reduces our ability to attract capital in an environment where capital is highly mobile across international borders. In addition, two

long-standing problems needing attention are the Alternative Minimum Tax and the complexity of the U.S. income tax laws. Without its annual "patch," the AMT would affect more than 20 million more taxpayers each year.

The Long-Run Challenges of Entitlement Spending

Pederal spending on entitlement programs is expected to increase dramatically in the coming decades, particularly for Social Security, Medicare, and Medicaid. Taken together, these programs currently constitute 45 percent of Federal non-interest spending; assuming there are no major changes to these programs, this share is projected to rise dramatically in coming decades. An aging population and rising health care spending per person are major reasons for these projected increases. The primary objective of this chapter is to highlight the budgetary challenges facing each of the three major entitlement programs and to outline possible strategies for addressing these challenges.

The key points of this chapter are:

- Federal entitlement spending is on an unsustainable path. Spending
 on the three major entitlement programs—Social Security, Medicare,
 and Medicaid—is projected to increase much faster than tax revenues
 or than the overall economy over the coming decades. Paying all scheduled benefits would eventually require substantial reductions in other
 Government spending, or major tax increases, or both.
- The aging population is a major cause of the expected increase, especially for Social Security, representing a permanent, as opposed to temporary, shift in the entitlement landscape. Currently, one out of six adults is age 65 or older; by 2020, one out of five adults will be 65 or older; and, by 2030, one out of four adults will be age 65 or older.
- The pay-as-you-go financing structure of Social Security, coupled with the aging population, creates a sizeable structural imbalance that will cause current and future generations of workers to bear increasing costs, or receive smaller benefits than now scheduled, or both.
- Over the past 30 years, real per capita health care spending has grown considerably faster than real gross domestic product (GDP) per capita.
 Real growth in Medicare spending is being driven by increasing enrollment, greater utilization of more expensive high-technology medical treatments, and expansion of the goods and services covered by the program.
- Long-term care expenditures for low-income elderly and disabled persons represent a large and growing share of total Medicaid spending. The demand for long-term care is expected to grow in the United States as a result of the aging population. In turn, this will place even greater financial strain on Federal and State budgets.

Background Facts About Entitlement Programs

Social Security, Medicare, and Medicaid are key components of the U.S. social safety net. This section briefly reviews the evolution and current structure of each program.

Social Security

The Social Security system protects people from income loss due to life events such as retirement, a period of disability, or the death of a household wage earner. This system was introduced in 1935, when it is estimated that over half of the elderly lacked the income needed to care for themselves. In 2007, approximately 50 million beneficiaries received \$585 billion in benefit payments. Approximately \$486 billion of these benefits was paid to over 40 million retirees and survivors, and \$99 billion was paid to 8.9 million disabled workers and their families. Nearly 90 percent of all individuals aged 65 and over received some benefit from Social Security in 2006 (the most recent year for which these data are available). Social Security benefits provided about 58 percent of all income received by individuals age 65 and older and for 32 percent of recipients, Social Security benefits provided over 90 percent of their entire income.

Social Security is largely a pay-as-you-go program, meaning that current benefits are financed primarily with a payroll tax on wages earned by current workers. Employers and employees each pay 6.2 percent of wages—although economists generally believe the employer's portion is passed on to workers in the form of lower wages—up to a maximum amount of taxable wages. This maximum, called the contribution and benefit base, increases each year as average wages increase; it was \$102,000 in 2008, increasing to \$106,800 in 2009. Self-employed individuals pay the entire 12.4 percent.

As a result of legislation enacted in 1983, Social Security began collecting more revenue than was needed to pay benefits each year, thereby requiring current workers to partially prefund future retirement benefits. The annual surpluses have been placed in the Social Security Trust Fund, which is invested in special U.S. Treasury bonds, used only for this purpose. In 2007, Social Security ran a surplus of \$190 billion, which brought the balance in the Trust Fund to over \$2.2 trillion. Because the value of the assets accumulated in the Trust Fund is exactly offset by the liability of the general fund to repay the special Treasury bonds, the Social Security Trust Fund has zero net value for the Government.

The Social Security benefit a worker receives in retirement is based on the average wage he or she earns when working and paying the Social Security payroll tax. Workers who earned higher wages get larger benefits, but the portion of preretirement income replaced by Social Security declines as

preretirement wage income rises. An individual must have worked and paid Social Security taxes for 40 quarters (10 years of employment) to be eligible for retirement benefits. Individuals become eligible for a reduced benefit at age 62, while those who work past full retirement age can receive a larger benefit for each year worked up to age 70. Once a retiree's initial benefit has been determined, it increases each year with annual cost-of-living adjustments that are based on the inflation rate for the previous year.

More than one in six recipients of Social Security benefits receive their benefits through the Disability Insurance program. This program provides monthly benefits to workers and their families for workers who are unable to work for a year or more. The Social Security Administration has guidelines about the conditions that must be met before an individual can receive this benefit.

Medicare

Beginning in the 1930s and for several subsequent decades, policymakers considered legislation that would create a larger role for Government in the provision of health insurance for Americans, particularly for those who faced financial barriers to medical care. Before Medicare was created in 1965, almost 50 percent of older adults lacked health insurance. Originally, only people age 65 and older were eligible for Medicare. In 1972, eligibility was expanded to include those receiving Social Security Disability Insurance payments for 2 consecutive years and those with end-stage renal disease who meet specific eligibility requirements. Today, nearly 45 million individuals are enrolled in Medicare, including approximately 38 million elderly and 7 million disabled beneficiaries.

Medicare has four parts:

- Part A, also known as Hospital Insurance, provides coverage for inpatient hospital services, some home health care, hospice, and up to 100 days in a skilled nursing facility after a qualifying inpatient stay. Individuals who have worked at least 40 quarters in qualified employment are automatically enrolled in Part A upon reaching age 65. Individuals who lack 40 quarters of employment can buy into Part A when they reach 65 years of age by paying a monthly premium (plus a late penalty if enrolling after the initial eligibility period); in 2009, the maximum monthly premium is \$443.
- Part B provides coverage for outpatient services, including outpatient provider visits, emergency room services, and certain preventive screening measures. Enrollment in Part B is optional (there is a penalty for enrolling after the initial eligibility period) and requires a premium contribution, which is higher for individuals who make more than \$85,000 per year, based on their most recent Federal income tax return.

- Part C, also called Medicare Advantage, uses private health plans to provide Part A and B and, in most cases, Part D benefits. Medicare Advantage plans often include benefits not covered by traditional The Medicare Prescription Drug, Improvement, and Modernization Act of 2003 changed how the Government reimburses health plans for the coverage they provide to enrollees. This resulted in an increase in the number of private plan choices available to beneficiaries in every county in America. Enrollment growth has been steady, most likely due to improved access to Medicare Advantage plans and more generous benefits. Current enrollment is nearly 10 million beneficiaries, representing over 20 percent of all Medicare beneficiaries.
- Part D, also created by the 2003 legislation, is an optional, outpatient prescription drug benefit. This benefit is administered by private health insurance plan sponsors that contract with the Federal Government. In 2008, 32 million Medicare beneficiaries were enrolled in stand-alone prescription drug plans, Medicare Advantage prescription drug plans, or employer/union plans receiving the Retiree Drug Subsidy.

Medicare is financed primarily through a combination of payroll taxes, general revenues, and premiums paid by beneficiaries. Part A is financed primarily by a dedicated payroll tax of 2.9 percent, which is split evenly between employees and employers. If total non-interest revenues exceed Medicare Part A spending for a particular year, the difference is placed into the Hospital Insurance Trust Fund. If non-interest revenues are lower than spending, money is withdrawn from the Hospital Insurance Trust Fund. At the end of 2007, the Hospital Insurance Trust Fund had a balance of \$326 billion; however, under the Medicare Trustees' intermediate estimates, this balance is expected to begin declining in 2008.

Medicare Part B is financed by general revenues and beneficiary premiums, the latter of which are set to equal approximately 25 percent of total expected spending. Part D is also financed through beneficiary premiums and general revenues, as well as State payments for low-income beneficiaries who are also enrolled in Medicaid. Medicare Advantage (Part C) is not separately financed; rather, it is simply a vehicle for providing Part A, Part B, and typically Part D benefits. Projections by the Medicare Trustees indicate that in 2010, approximately 45 percent of non-interest income will come from payroll taxes, 39 percent from general revenues, 12 percent from beneficiary premiums, and the remainder from miscellaneous sources.

Medicaid

Medicaid provides medical assistance to low-income individuals, including children and parents in working families, children and adults with severe disabilities, and low-income Medicare beneficiaries, who are known as "dual eligibles" because of their eligibility for both programs. The Federal and State Governments share responsibility for administering and funding Medicaid. For States to receive Federal funding, their Medicaid plans must cover specific populations, including children under the age of 6 and pregnant women whose family income is below 133 percent of the poverty level; school-age children (ages 6 to 18) with family income below 100 percent of the poverty level; parents with income below States' July 1996 welfare eligibility levels; and certain other low-income and disabled persons. In addition, with approval from the Centers for Medicare and Medicaid Services, States have the flexibility to expand Medicaid eligibility to other groups of individuals, including those whose incomes exceed the mandatory thresholds indicated above.

Medicaid programs cover a broad set of health care services, including inpatient and outpatient services, dental care, family planning, mental health, substance abuse treatment, home health care, and long-term care services. In 2007, Medicaid monthly enrollment averaged approximately 48.1 million people, including 23.5 million children.

Medicaid is jointly financed by the Federal Government and the States. The Federal Government's share of each State's Medicaid spending is based on the Federal Medical Assistance Percentage (FMAP), which is calculated using a formula that incorporates data on average per capita income for each State and for the United States as a whole for the most recent 3 years. The FMAP formula is designed to provide a larger Federal share of spending for States with lower per capita income relative to the national average, with Federal shares ranging from a minimum of 50 percent to a maximum of 83 percent. Overall, Federal Government expenditures on Medicaid account for approximately 57 percent of total annual Medicaid spending. Unlike Medicare, the Medicaid program does not have any dedicated revenue sources; rather, Federal expenditures come from the general fund of the Federal Government.

As part of the Balanced Budget Act of 1997, the State Children's Health Insurance Program (SCHIP) was created to provide health insurance to uninsured children under age 19 who live in low-income families that are not eligible for Medicaid. In 2007, more than 7 million children enrolled in SCHIP. States have significant flexibility in terms of their program design. In particular, they can implement SCHIP by expanding their existing Medicaid programs, creating separate programs, or using a combination of the two approaches. States that implement SCHIP as a Medicaid expansion must provide all of the benefits offered through their Medicaid programs, while States that choose to have separate SCHIP programs must provide benefits that meet specific Federal standards. Like Medicaid, the SCHIP program is financed jointly by the Federal Government and the States, although the Federal matching rate for SCHIP is higher than the rate used for Medicaid, and ranges from 65 percent to 83 percent of total spending.

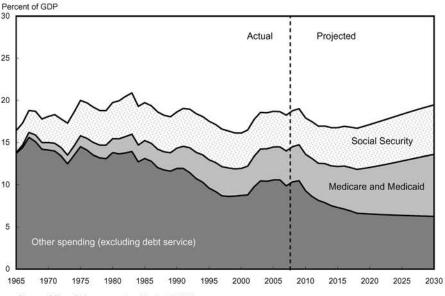
Unlike Medicaid, SCHIP is not actually an entitlement program, but is instead a matching grant program that has a fixed limit on Federal spending, both nationally and State by State.

Major Entitlement Spending Over Time

Federal Government expenditures for Social Security, Medicare, and Medicaid have grown from 3.8 percent of GDP in 1970 to roughly 8.4 percent of GDP in 2008. (For comparison, Federal revenue generated from all sources averaged 18.3 percent of GDP over the last several decades.) Estimates of expected future growth in entitlement spending consistently predict sharply rising expenditures in coming decades, although such projections depend on specific assumptions made for a variety of economic and demographic variables. The Office of Management and Budget (OMB) projects that in the absence of reforms, by 2020, spending on these three programs will exceed 10 percent of GDP; by 2040, it will reach 14.9 percent of GDP, and by 2080, it will reach 18.9 percent of GDP. It is important to note, however, that there is considerable uncertainty among long-run forecasts. For example, under its Alternative Fiscal Scenario, the Congressional Budget Office (CBO) projects that Federal spending will rise much faster, reaching 11.2 percent of GDP by 2020, 16.8 percent of GDP by 2040, and exceeding 25 percent of GDP by 2080. The primary difference between the OMB and CBO projections (and other projections) is in their forecasts of future health care expenditures; in contrast, their forecasts of Social Security growth are very similar. Chart 6-1 uses the OMB projections to contrast the projected growth in these programs with other Federal spending, which fell in the 1990s with declines in defense spending, rose with increased Homeland Security spending over the past few years, and is assumed to decline in the coming decades, primarily due to declines in defense and other discretionary spending. Two trends can be discerned from Chart 6-1. One trend is the growth in Social Security spending expected over the next two decades. In 2008, Social Security spending constituted approximately 4.3 percent of GDP. CBO estimates this share will grow to 6.1 percent of GDP by 2030, with OMB estimating growth to 5.9 percent of GDP by 2030. After 2030, the share of GDP spent on Social Security remains relatively constant under both forecasts. Population aging is the main cause of this growth, a factor that also affects Medicare costs.

The second trend shown in Chart 6-1 is that after the period of Social Security's rapid cost growth, health care expenditure growth will cause Medicare and Medicaid spending to grow far more over the long term. In 2008, Medicare and Medicaid respectively constituted 2.7 percent and 1.4 percent of GDP. CBO projects that, absent reforms, in 2030 these

Chart 6-1 Expenditures as a Percent of GDP
Social Security, Medicare, and Medicaid will all grow as a share of GDP over the next generation.



Source: Office of Management and Budget (2008)

shares will rise to 5.9 percent of GDP for Medicare and 2.5 percent of GDP for Medicaid. In comparison, OMB predicts that, absent reforms, in 2030 Medicare spending will be 5.0 percent of GDP and Medicaid spending will be 2.4 percent of GDP. By 2060, CBO projects spending for these programs will grow to 11.2 and 3.3 percent of GDP, respectively, while OMB projects spending will grow to 7.7 and 3.2 percent of GDP, respectively. Note that the major difference between the two forecasts lies in their estimates of the growth in health care expenditures per beneficiary.

Even under the more optimistic OMB projections, expected growth in entitlement spending will place a significant burden on the Federal budget and will require policymakers to make hard choices about the financing and benefit structures of these entitlement programs, as well as other Federal spending.

Social Security

During the program's first four decades, spending for Social Security benefits steadily increased relative to the size of the economy, reaching about 4 percent of GDP in the mid-1970s. This initial growth was driven largely by repeated program expansions that broadened coverage to include benefits for spouses and dependent children of retirees (1939), survivors of deceased workers (1939), the self-employed (1950), and disabled individuals (1956). Since then, annual spending for Social Security benefits has generally fluctuated between 4.1 percent and 4.5 percent of GDP.

As shown in Table 6-1, the number of Social Security beneficiaries is expected to more than double from 2000 to 2050, while the total population will increase by roughly 50 percent. The relative growth of the number of elderly individuals means that a larger share of the adult (age 18 and over) population will be drawing Social Security benefits in the years ahead. The demands imposed on the Social Security program by the baby boomers will diminish by the middle of the 21st century, but the expectation of a relatively constant fertility rate in combination with increasing lifespans means the portion of the adult population drawing Social Security benefits will remain high by historical standards. Box 6-1 describes some of the ways in which the Social Security program influences the saving behavior and labor supply decisions of individuals.

TABLE 6-1.—Old-Age, Survivors, and Disability Insurance (OASDI) Benefits and Beneficiaries, 1950–2050

Year	Benefits Paid (billions of dollars)	Percent of GDP	Beneficiaries (thousands of people)	Percent of Adult Population
1950	1.5	0.5	2,930	2.8
1975	68.7	4.2	31,123	20.9
2000	418.2	4.3	45,162	21.5
2025	1,814.1	5.7	77,138	28.3
2050	5,989.4	6.1	95,640	28.3

Source: Congressional Budget Office, Department of Commerce (Bureau of the Census and Bureau of Economic Analysis), and Social Security Administration.

Box 6-1: Undesirable Consequences of Social Security

The specific taxation and benefit structure of Social Security produces some undesirable consequences that may discourage participants from working and saving. Reduced work and saving levels reduce national output (GDP) and gradually reduce the U.S. standard of living over time from what it could have been. Efforts to reform Social Security should address each of these disincentives.

There are at least three ways Social Security discourages work and saving. First, the system imposes high effective tax rates on secondary earners. The benefit available to a married couple is either the sum of the benefits they are each individually eligible for or up to 150 percent of the higher earner's benefit, whichever is larger. This structure means the lower earner in a couple receives very little return on his or her Social

continued on the next page

Box 6-1 — continued

Security tax contributions and, if the low earner's wage is low enough, may not realize any benefit from his or her tax contributions. This reduces the reward for the second member of a married couple to work outside the home and can contribute to a decision not to participate in the labor force at all. As an extreme example, this can also cause the Social Security taxes paid by a low-income two-earner couple to subsidize the benefits received by a high-income one-earner couple.

Second, the program encourages early retirement. The existence of an Early Eligibility Age encourages workers to retire earlier than they may have done in the absence of Social Security. In fact, while the decision of when to retire probably depends on many factors, the mere existence of a sure income source in retirement, via Social Security benefits, could encourage people to retire earlier. The average age of retirement has been declining steadily, from over 67 in the early 1950s to under 63 in the early 2000s. When workers retire early, they pay less tax into Social Security and draw benefits for a longer period of time. This provision thus places additional stresses on Social Security finances and reduces the total amount of labor supplied to the economy.

Few people work past normal retirement age, perhaps because, in terms of one's Social Security benefit, the return to working past normal retirement age is modest at best. While a person who delays taking Social Security benefits receives a larger monthly benefit, they receive this benefit for a shorter period of time. The actuarial present value of the deferred payments is almost identical to the value of the payments that could be taken at normal retirement age. When one considers the additional taxes a person pays on labor income earned after normal retirement age, the return to working after this age may even be negative. This provides little incentive for people to work past their normal retirement age.

Third, Social Security discourages private saving. Social Security is a system that effectively forces people to save for their retirement—a portion of their wage is taken away and, in return, they expect income during retirement. From the perspective of an individual planning for his or her retirement, it makes little difference whether this income comes from a government program or from his or her own investments. However, when individuals do their own saving, the money is used by the financial markets to expand the economy. With a pay-as-you-go Social Security system, the taxes collected today are used to pay benefits for current retirees, and no actual saving occurs in terms of money going into financial markets. This means that a pay-as-you-go Social Security system actually reduces economy-wide saving, which reduces economic growth from what it could have been.

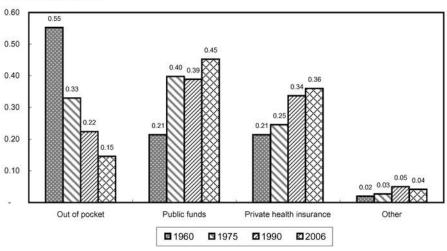
Medicare and Medicaid

Public spending on health care has increased as a share of total U.S. personal health care expenditures over the past several decades, as shown in Chart 6-2. In 1960, only 21 percent of personal health care spending was paid for by Federal and State Governments. With the introduction of Medicare and Medicaid in 1965, and SCHIP in 1997, public spending as a share of total health care spending has more than doubled to 45 percent. In contrast, the share of personal health care spending that is paid out of pocket by individuals has fallen dramatically from 55 percent in 1960 to just 15 percent of total spending in 2006.

Medicare expenditures, which include benefit payments and administrative expenses, were \$432 billion, or approximately \$10,500 per enrollee, in 2007. Between 1980 and 2006, real Medicare spending, that is, spending adjusted for the effects of inflation, grew at an average annual rate of 6.4 percent. This rate is higher than the 3.1 percent average annual growth rate for real GDP during that period. From 2008 to 2017, the Medicare Trustees' intermediate projections, which take into account currently legislated reductions in physician payment rates, suggest real Medicare spending will grow at an average rate of 6.0 percent per year. This rate exceeds projected average real economic growth of 2.8 percent per year over the same period.

Chart 6-2 Changes in Source of Funds for Personal Health Care Expenditures The share of health care expenditures paid out of pocket by individuals has declined, while the shares paid by the Government and private insurers have increased.

Percent of total expenditures

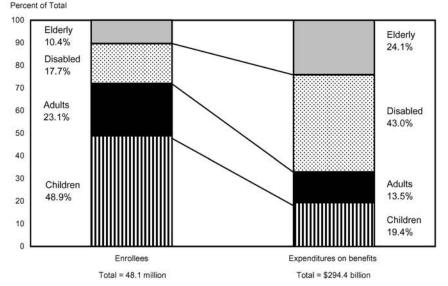


Source: National Health Expenditures Data, Department of Health and Human Services (Centers for Medicare and Medicaid Services).

Government spending on Medicaid and SCHIP includes benefit payments, administrative expenses, and payments for the Vaccines for Children Collectively, the Federal Government and States spent \$352 program. billion on Medicaid and an additional \$10 billion on SCHIP in 2008. Of this total, Federal spending was approximately \$190 billion for Medicaid and \$7 billion for SCHIP. The amount spent on different Medicaid enrollee groups varies considerably. While the elderly and disabled represent the smallest groups in terms of numbers of enrollees (28.1 percent), they account for over 67 percent of spending, as depicted in Chart 6-3. (See Box 6-2 for a discussion of Medicaid and long-term care expenditures.) In contrast, children are much less expensive to cover. In 2007, almost half of total Medicaid enrollees were children, and yet they generated less than 20 percent of total spending.

Between 1997 and 2007, real Federal Medicaid spending grew at an average of 3.5 percent per year. This growth reflects a number of factors, including increased enrollment from outreach efforts and eligibility expansions, increased use of high-technology services (such as advanced diagnostic imaging and prescription drugs), and greater reliance on Medicaid to cover long-term care expenses. Medicaid spending is expected to continue growing faster in real terms than the overall economy throughout the coming decade.

Chart 6-3 Medicaid Enrollees and Expenditures by Enrollment Group, 2007 The elderly and disabled comprise 28.1% of Medicaid enrollees and 67.1% of Medicaid expenditures.



Source: Department of Health and Human Services (Centers for Medicare and Medicaid Services) 2008 Actuarial Report on the Financial Outlook for Medicaid.

Box 6-2: Long-Term Care and Medicaid

Today, about 10 million Americans receive long-term care services. Long-term care refers to medical care and support required by someone with a chronic illness or disability over an extended period of time. Typical long-term care services range from providing assistance with eating, bathing, and dressing, to managing medications and preparing food. Most people who require long-term care are 65 years of age or older. This demographic cohort is projected to grow dramatically over the next several decades, greatly increasing demand for long-term care services.

Current estimates suggest the average cost of nursing home care is \$68,000 per year, an amount high enough to strain most families' finances. Private long-term care insurance represents one way individuals can obtain financial protection from these costs. Yet most people do not purchase long-term care insurance.

In 2005, Medicaid expenditures for long-term care services were \$101 billion, representing 49 percent of the Nation's spending on longterm care. Under Federal law, State Medicaid programs must cover nursing home care and home health care, and may opt to cover some personal care services as well for qualified individuals. Medicare covers only some home health care and limited recuperative care in skilled nursing facilities following a qualified inpatient hospitalization. In 2005, Medicare's share of total U.S. long-term care spending was approximately 20 percent.

Medicaid expenditures have grown rapidly in recent years with the increasing cost of covering long-term care and a growing population of elderly and disabled people. Medicaid expenditures on long-term care, including skilled nursing care as well as home- and community-based services, are expected to grow at an average real rate of approximately 6 percent per year over the next decade. By 2017, Medicaid long-term care expenditures for the Federal Government and States are projected to reach \$228 billion. In the absence of fundamental reforms, this enormous entitlement burden will severely strain both Federal and State budgets.

Factors That Drive Expenditure Growth Over Time

Growth in expenditures for Social Security is expected to accelerate as the baby-boom generation retires, after which it is expected to level off. In contrast, expenditures for Medicare and Medicaid are expected to continue rising faster than GDP. This section examines the main factors that drive these expected increases in expenditures.

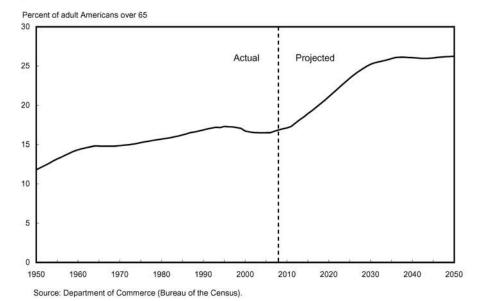
Demographic Shifts

The changing demographics of the United States population is an important factor in the growth of entitlement spending. With slowing birth rates and increasing life expectancy, the U.S. population is aging. For example, in 1950, less than 12 percent of the adult population was 65 or older; in 2008 this group constituted nearly 17 percent of the adult population. Demographers estimate that this trend will continue and that by 2030, twenty-five percent of the adult population—72 million people—will be at least 65 years of age.

This demographic shift means there are fewer workers paying taxes into the Social Security system for each retired person. To illustrate, in 1950, there were 16 workers paying taxes into the Social Security system for each Social Security beneficiary, meaning the effective tax burden on each worker was only one-sixteenth of the average amount paid to each beneficiary. In 2007, there were 3.3 workers per beneficiary. The number of workers per beneficiary is expected to fall further, to 2.6 workers per beneficiary in 2020 and to 2.1 workers per beneficiary in 2035. As the number of workers per beneficiary falls, the effective individual burden of taxes for both Social Security and Medicare Part A increases. For example, for Social Security, the payroll tax rate has been raised more than 20 times and the maximum annual amount of taxable income has been increased statutorily 11 times since the program's inception. This maximum is now (since 1981) adjusted annually to reflect average wage growth.

It is important to note that the demographic shift is not a temporary phenomenon brought on simply by the aging of the baby-boom generation. That is, assuming stable fertility rates and immigration patterns, one should not expect to return to a world with 16 workers—or even 5—contributing to each Social Security recipient's benefit after the baby-boom generation stops collecting Social Security benefits. Chart 6-4 shows that in the very near future, as the baby boomers retire en masse, the share of the adult population that is eligible for Social Security and Medicare will begin shifting from a recent average of about 16 percent to over 25 percent, where it will stay for the foreseeable future.

Chart 6-4 The Population Age 65 or Older as a Percentage of the Total Adult Population The share of the U.S. adult population age 65 or older will increase from about 16 percent to over 25 percent over the next two decades.



A clear implication of this trend is that there will be fewer workers to pay taxes to support each Social Security and Medicare recipient.

Increased Health Care Spending per Beneficiary

Advances in medicine over the past few decades have created new methods for diagnosing illness and disease, as well as new therapies for preventing and treating medical conditions. While these advances have contributed to improvements in quality of life and longer life expectancy, they also have contributed to greater utilization of complex, expensive treatments and higher spending per person. This phenomenon is not restricted to Medicare and Medicaid enrollees, but instead reflects broader health spending patterns among individuals in the United States.

Although health insurance, including Medicare and Medicaid, provides important financial protections, one consequence of comprehensive coverage and a third-party payment system is that individuals have little incentive to consider providers' costs when making decisions about the medical care they receive. This moral hazard effect can lead people to demand more medical care than they would without insurance because their out-of-pocket cost at the point of use constitutes only a small portion of the total cost of the service.

Among Medicare enrollees, moral hazard problems are exacerbated by the widespread use of supplemental insurance, including retiree coverage, private Medigap plans, and Medicaid (for dual eligibles). In effect, the combination of Medicare and supplemental insurance means enrollees pay only a very small portion or none of the total cost of care, and as a result, price is removed as a factor in determining how much medical care enrollees consume.

The Bottom Line

The permanent demographic shift and growth in per-person health care spending suggest that there are two distinct aspects of these programs that must be addressed. One aspect is program solvency: that is, how will the Government finance the benefits scheduled to be paid over the near term to current and future beneficiaries? Given the permanent nature of the demographic shift and the likelihood that future health care expenditures will grow, it will be impossible for the Government to continue these entitlement programs indefinitely as they currently exist. Thus, the second aspect that must be addressed is the long-term sustainability of the programs.

The Financial Future of Social Security

The demographic transition to an older population that is already underway in the United States will place increasing stress on the financing of Social Security in the years ahead. This section examines the issues inherent in ensuring that benefits can be paid in the near term (solvency) and the issues that must be addressed to ensure long-term sustainability of this important program.

Addressing Future Solvency

Projections by the Social Security Administration (SSA) indicate that payroll tax revenues will exceed expenses through 2016, then, beginning in 2017, it will be necessary to draw on Social Security Trust Fund assets to pay all scheduled benefits. This would require making increasing amounts of general revenue available from 2017–2041 to pay full scheduled benefits, after which time the trust fund would be exhausted. Payroll tax revenues are projected to be sufficient to pay 78 percent of scheduled benefits in 2041 and beyond.

As Social Security costs continue to rise faster than revenues, increasing pressure will be placed on the general fund of the Federal Government. By purchasing Treasury bonds with its annual surpluses, the Social Security Trust Fund has been effectively lending money to the general fund of the Federal Government. As Social Security's annual surpluses decline, beginning after 2009, less money will be available to the Treasury Department from this channel and the Government will increasingly be forced to find other revenue

sources or reduce spending. The problems for the Federal budget intensify in 2017, when Social Security will first need money from the general fund to pay scheduled benefits. During the 2020s, Social Security will require larger and larger transfers from the general fund as it redeems the Treasury bonds that have accumulated in the trust fund, putting greater and greater pressure on the Federal budget.

Most proposed solutions to the solvency issue involve some form of revenue increases, or benefit reductions, or both. Social Security revenues could be increased either by raising the payroll tax rate or increasing the maximum amount of taxable earnings. However, as discussed in the preceding chapter, imposing taxes distorts markets—higher taxes would decrease economic efficiency by worsening the adverse labor incentives discussed in Box 6-1.

There are a variety of ways Social Security benefits could be reduced, such as further delaying the normal retirement age, or reducing scheduled benefits, particularly for higher-income workers. To help address the solvency issue, the President embraced the concept of progressive price indexing for new retirees. Progressive price indexing would reduce the growth in initial benefits for new retirees, particularly for high-income workers, and thus would reduce projected program costs in the decades ahead, while retaining currently scheduled benefits for very low income workers.

Workers with higher preretirement earnings are eligible for a larger initial benefit, but the marginal increase in the initial benefit decreases as a worker's preretirement income gets higher and higher. Progressive price indexing would further reduce the rate at which benefits grow with preretirement income, which would slow the year-by-year growth of initial benefits for high- and middle-income retirees. This proposal would ensure that retirees of the future will receive real benefits that are at least as high as those of today's retirees who are at comparable positions on the wage spectrum. Benefits for all recipients would still increase annually via cost-of-living adjustments to maintain the purchasing power of the benefits. Note that the current benefit formula would be preserved for individuals with low preretirement income. Estimates suggest that progressive price indexing would cover about 70 percent of the gap between income and outlays over the long term. Benefits paid under the Disability Insurance program would not be affected by this proposal.

Funding Future Benefits

The current Social Security system was designed in an era in which average life expectancy was less than 65 years and few women participated in the labor force. Today, average life expectancy is 78 years and about 60 percent of all women participate in the labor force. The demographic and labor market changes that have occurred in the last 70 years or so render the pay-as-you-go system of the 1930s inappropriate for the 21st century.

A central feature of the Administration's 2005 proposals for Social Security reform, the Personal Retirement Account (PRA), was designed to pre-fund a portion of future benefit obligations. Participation in PRAs would be entirely voluntary. Workers could choose to have up to 4 percentage points of their current Social Security taxes go into their own, individual account. The Federal Government would administer these accounts, making contributions and withdrawals as appropriate for each worker's wages and individual choices.

Each worker could choose to have the funds in their account invested in any of a set of prescreened, broadly diversified investment funds, similar to those currently available to Government employees in their retirement savings plan. Recent stock market declines raise concerns about the desirability of investing even a portion of Social Security assets in the stock market. However, market declines, like market increases, are a normal part of stock market behavior and do not negate the desirability of owning stocks as part of a long-term investment strategy. From 1926 to 2000, even with several periods of significant market decline, stocks generated an average annual return of 10.7 percent.

Nevertheless, there is currently much concern about the risks of investing Social Security assets in the stock market. One way to mitigate these risks could occur automatically; as workers near retirement age, their PRA investments could be moved to lower-risk, life-cycle funds, which ensure the safety of the worker's retirement benefits by progressively shifting more of the worker's investment from growth funds to secure bonds as the worker nears retirement age.

A PRA-based system offers a partially self-funded retirement benefit while retaining the social safety net aspects of the current system. A primary advantage of this system would be significantly reduced intergenerational transfers from future workers entering the system. This system would give workers a partial alternative to the current, pay-as-you-go, Social Security system that, as discussed above, will require reducing benefits when the Social Security Trust Fund is exhausted or force workers to bear ever-increasing tax burdens as the population continues to age.

PRAs could be phased in to ensure that current retirees and workers nearing retirement would receive the full Social Security benefits they are expecting. PRAs would offer those who want it individual ownership and management of retirement assets and could be transferable to family members if the worker were to die prematurely. Finally, PRAs would reduce the disincentives the current system generates regarding labor supply and saving decisions. (Box 6-1 describes the disincentives present in the current system.) For example, PRAs reduce possible adverse labor supply effects for secondary earners by giving them explicit rights to a portion of their Social Security assets.

The Financial Future of Medicare and Medicaid

Medicare and Medicaid are currently responsible for purchasing health care services for over 80 million individuals in the United States annually—a number that is expected to exceed 100 million by 2017. This section takes a closer look at the future budgetary impact of these programs and identifies possible strategies for promoting long-term sustainability of Medicare and Medicaid.

Recall that Medicare is financed predominately by payroll taxes, general revenues, and beneficiary premiums. Under current projections in the 2008 Medicare Trustees Report, the Medicare Hospital Insurance Trust Fund for Part A is projected to be exhausted in 2019. The projected 75-year deficit for the Medicare Hospital Insurance Trust Fund is 3.54 percent of taxable payroll. That is, the Medicare Hospital Insurance payroll tax would have to immediately increase from a total of 2.90 percent to 6.44 percent to cover all projected spending for Part A over the next 75 years. Thus, one option for keeping Part A solvent would be to more than double the Medicare payroll tax rate. For Medicare Parts B and D, as well as Medicaid, general revenues are the largest source of financing. This suggests that, in the absence of significant reforms to slow spending growth, spending on other government programs will have to be dramatically reduced, budget deficits will grow larger, or income taxes will have to increase.

Real spending growth for Medicare and Medicaid is on a much steeper trajectory than projected growth for the economy as a whole. The long-term sustainability of these programs is in question unless policymakers implement a comprehensive set of reforms to slow both the overall growth in health care spending as well as the Federal Government's liabilities. Although key stakeholders have not yet discovered a silver bullet for slowing overall spending growth, insurers and providers are pursuing a variety of approaches in an attempt to improve the efficiency of resource allocation and to slow the growth of costs.

Some of these efforts focus on greater use of high-value health care services by individuals, including preventive care (certain types of screening for diseases), wellness initiatives (flu shots or smoking cessation advice), and disease management for those with chronic conditions. Other efforts target provider behavior, including adopting health information technology that may reduce medical errors and duplication of services, and participating in qualitymeasurement activities and public reporting. In value-based purchasing, insurers design payment systems that are tied more directly to the quality and efficiency of care that is delivered by providers. One example includes payfor-performance programs, whereby providers may receive financial rewards if the quality of care they provide achieves certain outcomes (such as a physician

making sure that all of his diabetic patients receive HbA1c tests during the year) or if a provider shows improvement over time in the quality of care he or she provides. Of course, many of these initiatives are fairly recent and as a result, the empirical evidence is not yet available to establish what impact these particular initiatives might have for slowing overall cost growth.

A second strategy directly targets Federal spending growth vis-à-vis structural changes to the designs of the Medicare and Medicaid programs. Several types of reform proposals are specifically aimed to reduce Federal spending by altering the current structure of Medicare benefits. Increasing the age of eligibility for Medicare, raising premiums, and modifying the benefit design are three examples. Similar to the changes that were made to Social Security in 1983, the age at which individuals become eligible for Medicare could gradually increase. However, unlike Social Security, the savings generated from delaying eligibility may not be substantial, since younger Medicare beneficiaries have much lower average costs relative to older beneficiaries.

Beneficiary premiums are an important source of income for Medicare Parts B and D. Raising beneficiary premiums is one option for reducing Federal spending, although raising premiums for all beneficiaries may impose a significant financial burden on lower-income beneficiaries who are not also eligible for Medicaid. One suggested proposal calls for the broader use of income-related premiums, whereby higher-income beneficiaries would pay more for their coverage. Income-related premiums are already being used for Part B; however, as of 2007 the threshold was set so high that it affected less than 3 percent of the Medicare population. Using more stringent thresholds and adopting income-related premiums for Medicare Part D are two possible strategies for reducing the implicit subsidy that Medicare provides to higher-income beneficiaries.

Modifying the benefit design offers another approach to limiting Federal spending. Benefit design features, such as deductibles and coinsurance, are typically used to address moral hazard concerns. While increasing deductibles and coinsurance can reduce beneficiaries' incentives to overuse care and reduce spending, it may lead some beneficiaries to delay or forgo needed care due to cost. A related issue is the widespread use of supplemental Medicare insurance, which typically reimburses beneficiaries for deductibles and coinsurance amounts when they seek care. With this additional coverage, the price of medical care is effectively removed as a factor from decision making. Some economists have suggested that private supplemental Medicare insurance should be limited or eliminated altogether. Since greater utilization of high-technology treatments is a major driver of health care spending growth, an additional strategy is to base coverage decisions about new medical treatments on their comparative effectiveness and cost effectiveness relative to existing therapies. Certainly, this may raise concerns by patients and

providers regarding the role of government in determining which medical treatments are prescribed.

In addition to strategies that alter the existing program structure, others have suggested more fundamental changes to promote long-run sustainability. For example, some have suggested moving completely to a market-based approach in which Medicare beneficiaries receive risk-adjusted and incomeadjusted vouchers that could be applied toward the cost of private health plans. Such a reform could build upon the strengths of the current Medicare Advantage program and potentially strengthen competition in the market for health insurance. Moreover, a voucher system would provide greater certainty in terms of the Federal Government's future liabilities.

Medicare provider payment systems are complex and generally create poor incentives for limiting spending growth. Fee-for-service payment systems reward providers for how much they do rather than for the value that they provide to Medicare patients. Furthermore, administrative pricing may or may not necessarily reflect what would be observed in a competitive market, due to inflation and technological advances in medicine. Competitive bidding has been proposed as one alternative method for setting prices. Specifically, competitive bidding requires providers to submit bids that reflect costs plus a normal rate of profit. Providers with the lowest cost can be identified. Over time, this type of system can enable providers to more easily adjust prices to reflect changes in production costs resulting from changes in input prices (such as the wages of nurses) or technology (such as MRI or CT scanners).

For Medicaid, one of the most pressing issues is the anticipated growth in long-term care. While some people require the level of care provided by nursing homes, many eligible Medicaid beneficiaries would actually prefer less expensive community-based care. Transitioning away from primarily institutional care and toward a more community-based long-term care system is one potential cost-saving measure; however, it is not clear to what extent overall demand for services will rise when access to this option improves. Encouraging the purchase of private long-term care insurance through tax credits or Qualified State Long-Term Care Partnerships, which protect some assets of those with long-term care insurance while still allowing them to qualify for Medicaid, may both reduce the spending burden on Medicaid and protect many seniors from poverty. Additionally, better coordination of care between Medicare, which is often responsible for financing initial nursing home stays through its post-acute care coverage, and Medicaid, which often assumes responsibility for nursing home patients after their Medicare benefits end, could also help reduce costs.

Conclusion

There are no painless solutions to the budgetary challenges arising from long-term projected growth in Social Security, Medicare, and Medicaid. While there is no specific year when one can be sure a crisis is imminent, it is clear that these problems will only grow larger the longer policymakers delay in developing and implementing reform strategies. The environments in which Social Security, Medicare, and Medicaid were created no longer exist, and the Legislative and Executive branches of the Federal and State Governments need to take up the budgetary challenges entitlement programs present and ensure that these programs are adapted to their new realities.

Balancing Private and Public Roles in Health Care

Health care is one of the largest and fastest growing sectors of the U.S. economy, employing millions of individuals in hospitals, physician offices, home health agencies, long-term care facilities, insurance, and pharmaceutical and medical device companies. Today, Americans are living longer as a result of public health improvements and advances in medical treatment. While modern health care provides substantial benefits, there are growing concerns about its rising cost. In 2008, the United States is projected to spend approximately \$2.4 trillion, or almost \$8,000 per person, on health care, and forecasts indicate that spending will continue to grow at a rate faster than the gross domestic product (GDP). Recognizing that rising costs pose a threat to Americans' access to health insurance and medical care, the Administration has pursued several initiatives to encourage the efficient provision of health care through private markets and to improve access to affordable health care for individuals in the United States.

This chapter begins with a brief overview of U.S. performance with respect to the population's health status and spending on health care. This is followed by a discussion of key efforts by the Administration to address issues of health care quality, cost, and access. The key points of this chapter are:

- Health care spending is expected to grow rapidly over the next several
 decades, a trend that is driven by the increased use of high-technology
 medical procedures, comprehensive health insurance that decreases
 consumer incentives to shop for cost-effective care, rising rates of chronic
 disease, and the aging of the population in the United States.
- Markets for health care services can function more efficiently when payers, providers, and consumers have more complete information as well as incentives to use medical care that is clinically effective and of high value.
- Health insurance improves individuals' well-being by providing financial protection against uncertain medical costs and by improving access to care. Market-based approaches and innovative benefit designs can enable people to select coverage that best fits their preferences and to more actively participate in their own health care decision making.
- The Federal Government has an important role in investing in public health infrastructure, particularly with respect to improving the availability of community-based health care for the underserved, preparing for possible public health crises, supporting health-related research and development, and promoting global health improvement.

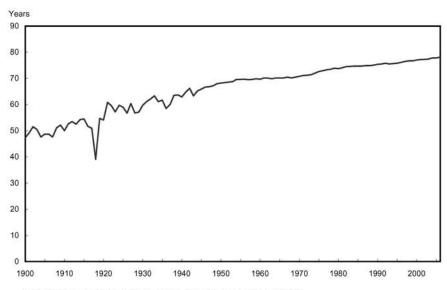
The Health of the U.S. Population

Health can be defined as a state of complete physical, mental, and social well-being. Individuals who are healthy are more productive and happier. Genetic factors; the environment; lifestyle behaviors such as smoking, eating healthy foods, and exercise; and medical care consumption are all factors that have been shown to affect an individual's health.

There are several different ways to measure health outcomes for a population. One consistent and reliable measure is life expectancy, defined as the average number of years of life remaining to a person at a particular age. Chart 7-1 shows how U.S. life expectancy at birth has changed over the past century. In the early part of the 20th century, life expectancy averaged 51 years until an influenza pandemic in 1918 resulted in a significant drop, to 39 years. Following that crisis, there have been steady increases in life expectancy over time. This positive trend can be explained by several factors, most notably, public health improvements such as cleaner water, improved sanitation, and vaccinations, as well as medical innovation.

A second way to measure population health is by examining disease prevalence. Rising rates of age-adjusted chronic diseases, which are conditions

Chart 7-1 Life Expectancy at Birth
Life expectancy at birth has increased over time.

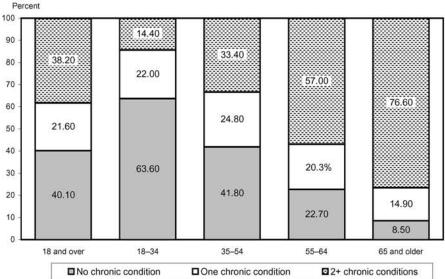


Note: Data from before 1929 are only from states that recorded death statistics. Source: Centers for Disease Control.

expected to last at least 1 year, are particularly concerning to the medical, public health, and health policy communities. Heart disease and diabetes are two examples of chronic diseases that afflict millions of Americans each year. Heart disease, which affects 7.3 percent of adults 20 years of age and older, has been the leading cause of death for the past 90 years, as well as a major cause of disability. Diabetes affects 7.8 percent of the population, or roughly 23.6 million children and adults, and has numerous costly complications, including kidney damage, eye problems, nerve damage, foot problems, and depression.

In 2005, approximately 60 percent of people 18 years of age and older in the United States had at least one chronic condition, and older adults were considerably more likely to have multiple chronic conditions (Chart 7-2). Managing many chronic diseases can be quite costly. More than 50 percent of total medical care expenditures generated by the adult U.S. population (excluding expenditures for dental care and medical equipment and services) is for the treatment of chronic conditions. However, with medical management and lifestyle changes, people can remain productive and lower their risk of disability from these conditions.

Chart 7-2 Distribution of Adults by Age Group According to Number of Chronic Conditions, 2005 Chronic conditions are more prevalent among older people.



Source: Center for Financing, Access, and Cost Trends, AHRQ, Medical Expenditure Panel Survey, Statistical Brief #203: Health Care Expenses for Adults with Chronic Conditions, 2005.

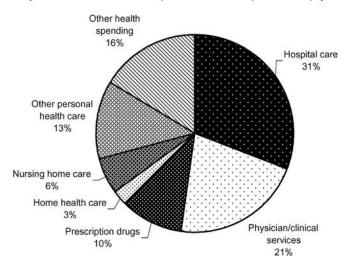
The good news is that many chronic diseases are preventable. Healthy lifestyle decisions, such as being a nonsmoker, eating nutritious foods, and getting regular physical activity, can significantly lower the likelihood of developing a wide variety of serious medical conditions. In the United States, the rate of smoking has fallen during the past several decades, a trend partially explained by better information about the associated health risks, as well as public policies that deter smoking behavior. However, a major health concern remains in that about 20 percent of adults still report being current smokers. Another major public health concern is the rapid rise in obesity rates among adults and children. Currently, more than 72 million people ages 20 and older are obese, which is defined as having a body mass index (a measure using information on a person's weight and height to indicate body fat) greater than or equal to 30. Obesity is a known risk factor for several costly medical conditions, including heart disease, diabetes, stroke, and some forms of cancer. Continued efforts to promote healthy eating and regular physical activity are critical for reversing this rising trend.

U.S. Health Care Spending

Health-related goods and services include hospital care, physician and clinical services, nursing home care, prescription drugs, and more. Over time, there have been large spending increases across all of these major categories. Chart 7-3 shows the distribution of national health expenditures by type of service in 2006, the most recent year of data available. Hospital care represents the largest segment, at 31 percent of total expenditures, followed by physician and clinical services (21 percent), other types of health spending (which include administration, the net cost of health insurance, public health activity, and research (16 percent)), other personal health care costs such as dental care and medical equipment (13 percent), and prescription drugs (10 percent).

U.S. health care expenditures have grown rapidly during the past several decades. In 2008, the United States is projected to spend approximately \$2.4 trillion, or 16.6 percent of GDP, on health care. Based on actuarial estimates from the Centers for Medicare and Medicaid Services, forecasts indicate that by 2017, the United States will spend approximately \$10,592 per person (in 2008 dollars), which corresponds to 19.5 percent of GDP. Spending a larger share of GDP on health care costs is not necessarily bad; it is to be expected as a nation's wealth rises. In addition to income effects, there are several other factors that drive up the cost of health care in the United States, including population aging, increases in input prices that are greater than inflation, technological advances, and third-party payment.

Chart 7-3 Distribution of National Health Expenditures by Type of Service, 2006
Approximately 50% of national health care expenditures are for hospital care and physician services.



Note: "Other personal health care" includes dental and other professional health services and durable and non-durable medical equipment. "Other health spending" includes administration and net cost of private health insurance, public health activity, research, and structures and equipment.

Source: Centers for Medicare and Medicaid Services, Office of the Actuary, National Health Statistics Group.

Researchers who have investigated the catalysts of health care spending growth suggest that third-party payment and advances in medical technology can account for a significant proportion of the long-term, historical spending trends. Although health insurance provides valuable financial protection, benefit designs that have low out-of-pocket costs at the point of use (such as doctor or hospital visits) greatly inhibit consumers' incentives to search for the lowest-priced providers or to engage providers in discussion about alternative treatment options and their respective costs. Health insurance that has low out-of-pocket cost-sharing can also create distorted incentives regarding the development and diffusion of new medical technologies. Of course, many advances in medicine have been instrumental in helping Americans live longer and healthier lives. For example, providers now have more advanced technologies to diagnose specific problems (such as MRI or CT scanners), treat existing ailments (such as using minimally invasive surgical procedures), and prevent the onset and spread of new diseases or illnesses (such as use of vaccinations or screening procedures). However, when providers and consumers lack strong incentives to control spending, one potential result is that new, more expensive technologies may be prescribed and received, even if they are only slightly more effective than existing therapies. As the amount of financial resources allocated to health care rises, it is important to consider

the role that incentives play in determining the quantity and types of medical care that consumers receive. Additionally, it will be important to continue evaluating the extent to which greater utilization of medical services, including high-technology treatments, translates into better health outcomes.

Improving the Effectiveness and Efficiency of Health Care

The terms "effectiveness" and "efficiency" are frequently used in the context of discussions about improving health system performance. But what do these terms actually mean? Effective care includes services that are of proven clinical value. It is medical care for which the benefits to patients far outweigh the risks, such that all patients with specific medical needs should receive it. Efficient care includes medical services that maximize quality and health outcomes, given the resources committed, while ensuring that additional investments yield net value over time.

In the United States, there is clear empirical evidence that many patients do not receive the highest quality of care possible. That is, patients do not receive care that fully complies with current clinical guidelines. In one well-respected study, researchers found that only 54 percent of acute care and 56 percent of chronic care provided by physicians conformed to clinical recommendations in the medical literature. Receiving better quality care, particularly for those with chronic conditions, has the potential to reduce the adverse impacts of existing illnesses and prolong life.

There are large differences in the levels of effective care provided in the United States, a result that reflects differences both in provider practice styles and in patient preferences. Researchers associated with the Dartmouth Atlas of Health Care have reported extensive geographic variation in medical care spending and in the use of medical care across a wide range of services such as preventive screenings, diabetes management, joint replacement surgeries, and end-of-life care. Differences across regions of the United States cannot be fully explained by differences in illness rates or well-informed patient preferences. In fact, this research finds that higher rates of utilization reported across the United States do not appear to be correlated with better health outcomes, and that nearly 30 percent of Medicare's costs could be saved without adverse health consequences if spending in high- and medium-cost areas of the country was reduced to levels in low-cost areas. The Administration has strongly advocated, in its policies, using information and better incentives to improve the effectiveness and the efficiency of health care delivery, including hospital care, physician services, and long-term care.

Health Information Technology

There is optimism among policymakers about the ability of health information technology (IT) to generate significant production efficiencies in the delivery of health care. This is because health IT permits the management of medical information and the secure exchange of information among consumers, providers, and payers. Using IT in health care may help reduce medical errors, provide physicians with information on best practices for diagnosis and treatment, improve care coordination, and reduce duplication of services. The most comprehensive form of health IT is an electronic health record, which is a longitudinal record of patient information that typically includes the patient's demographic characteristics, past medical history, medication use, vital signs, laboratory data, and radiology reports.

One goal of the Administration is for most Americans to have an electronic health record by 2014. While providers have expressed interest in the potential benefits of IT for workflow improvement, adoption has been somewhat slower than anticipated. Results from a survey conducted by the Office of the National Coordinator for Health IT indicate that 14 percent of outpatient doctors currently use an electronic health record, and a study sponsored by the American Hospital Association finds that 68 percent of hospitals have or are in the process of implementing an electronic health record. Key barriers to adoption of health IT include lack of a business case to support adoption; privacy and security concerns; technical issues that make exchanging information difficult; and organizational culture issues, including providers' resistance to changing business processes.

In response to these concerns, the Administration formed the American Health Information Community, a Federal advisory body that includes experts from the public and private sectors, to make recommendations to the Secretary of Health and Human Services about how to accelerate the development and adoption of health IT. Over the past few years, this advisory body has also provided recommendations on how to make records digital and available for providers to share easily, as well as how to assure the privacy and security of those records.

Comparative Effectiveness

For many types of medical conditions, a patient may have a choice between at least two diagnostic methods and/or treatments that have different benefits and risks. Selecting the most appropriate course of care relies on having current information about the effectiveness of each option, given a patient's characteristics. Comparative effectiveness research studies are rigorous evaluations that compare the performance of various diagnostic and treatment options for specific medical conditions and sets of patients. By using

comparative effectiveness research findings, providers can help patients select the most clinically appropriate course of treatment. Advocates of comparative effectiveness research also suggest that widespread use of research findings may help to reduce some of the geographic variation in utilization and spending that exists in the United States.

The number of comparative effectiveness studies has increased in recent decades, and provides the potential to improve the quality of care delivered to patients. A recent Federally-sponsored comparative effectiveness initiative is the Agency for Healthcare Research and Quality's Effective Health Care Program. Created as part of the Medicare Prescription Drug, Improvement, and Modernization Act of 2003, this program funds the creation of new research, synthesizes current research on the benefits and risks of alternative medical interventions, and translates these findings into useful formats that can be easily accessed by health care providers and patients.

Price and Quality Information Transparency

When individuals shop for many goods or services, often they can access information on prices and quality using readily available sources. With this information, they can compare alternatives and then select the one of highest Unfortunately, the same information is not readily available for health-related goods and services. Having information on prices and provider quality may be important as people consider which physicians or hospitals to select for care and what impact this might have on their out-of-pocket costs (such as copayments or coinsurance) and their potential health outcomes.

To illustrate, suppose a couple learns that they are expecting their first child and that their physician has admitting privileges at the two hospitals in their community. Wanting to make an informed decision about which hospital they should use for the birth, this couple would benefit from being able to look on their insurer's web site to find information about the price that each hospital charges for different types of deliveries. With this information, they could assess how much it will likely cost them out of pocket for a normal delivery, given their insurance coverage. Additionally, the couple would be able to find information on each hospital's web site about the quality of its maternity services, including the volume of deliveries during the past year, the proportion of deliveries that were performed by Cesarean section, and whether there is a neonatal intensive care unit at the facility.

One challenge in health care is that there are actually two types of prices: list prices and transaction prices. List prices, which are also called charges, are well-documented and are found in all standardized information that hospitals and physicians submit when seeking payment for services. However, list prices are often not relevant because most payers, whether private insurers, Medicare, or Medicaid, pay much less than the list price. The payment that is actually made by the insurer to the provider is called a *transaction price*. Unfortunately, this information is more difficult to access because it is insurer-specific and providers may be sensitive about having negotiated rates available in the public domain.

In the past 20 years there have been tremendous advances in the development of objective measures of clinical quality for chronic diseases, acute care, preventive care, and long-term care. Improvements in health care quality measurement as well as better information systems are making it easier to evaluate provider performance and generate information that is relevant and timely for providers and individuals. Increasing the transparency of information about health care quality can motivate providers to improve the care that they deliver, and it can help consumers to make more informed decisions regarding their provider choices. A key priority for the Administration has been public reporting of price and quality information. In addition to advocating for greater transparency across the entire health care system, the Federal Government and the Centers for Medicare and Medicaid Services, in particular, have developed Hospital Compare, Nursing Home Compare, and the Medicare Prescription Drug Plan Finder, which are comprehensive, web-based resources providing quality and pricing information.

Pay-for-Performance

Pay-for-performance refers to purchasing practices aimed at improving the value of health care services that are provided to patients, where value depends on both quality and cost. Private insurers, as well as Medicare and Medicaid, are using pay-for-performance programs that provide doctors and hospitals with financial incentives to meet certain performance measures for quality and efficiency or to show quality improvement. Researchers in the private and public sectors are conducting numerous evaluations of pay-for-performance programs to assess whether these programs affect provider behavior and improve the quality of care that patients receive.

One such evaluation includes the Premier Hospital Quality Incentive Demonstration Project, which started in 2003. In this Medicare demonstration, hospitals receive bonus payments based on their performance on five medical conditions, including acute myocardial infarction (heart attack), coronary artery bypass graft, pneumonia, heart failure, and hip/knee replacement. Improvements in quality of care during the first 3 years of the demonstration have saved the lives of an estimated 2,500 acute myocardial infarction patients, based on an analysis of mortality rates at participating hospitals. Additionally, more than 1.1 million patients treated in the five clinical areas at participating hospitals have received approximately 300,000 additional services or recommendations that align with evidence-based clinical quality measures, such as smoking cessation advice, discharge instructions, and pneumococcal vaccination.

Using Market-Based Approaches to Improve Access to Health Insurance

The financial burden of health care costs can be extensive, particularly for those who have a serious health episode, such as cancer or a trauma-related injury. In the United States, about 80 percent of medical care expenditures each year are generated by about 20 percent of the population. Health insurance provides individuals with financial protection against costs associated with medical treatment, giving them access to needed and valuable care that otherwise might not be affordable. This section provides an overview of current health insurance coverage patterns and discusses key Administration initiatives to promote market-based approaches and new types of insurance benefit designs to provide individuals with greater flexibility as they choose coverage that best meets their needs.

Private Health Insurance

The private market for health insurance is really two markets—one for employer groups and another for individuals. Currently, 165 million Americans under 65 years of age obtain their coverage through an employer source, either as a worker or a dependent of a worker, and approximately 17 million non-elderly individuals purchase coverage in the individual market.

In the United States, employer provision of health insurance is voluntary, and while 99 percent of large firms (those with 200 or more workers) offer coverage to their workers as a benefit, a smaller percentage of small firms do. In 2008, 62 percent of small firms (those with 3-199 workers) offered their workers health insurance, down from 68 percent in 2000. Two main factors cause small firms to be less likely to offer health insurance as a fringe benefit relative to large firms. First, small firms may have difficulty pooling risk effectively. Very small groups, in particular, may be less able to absorb the financial shock of a high-cost, low-probability medical problem by one or more of their employees, which may result in higher premiums for a specific amount of coverage, as well as larger rate increases over time. Second, there are human resources costs for firms when they shop for insurance, coordinate enrollment with employees, and integrate employee contributions toward the premium with payroll. If the per-worker administrative costs of insurance are higher for small firms, they may be less likely to offer coverage.

For individuals who are not offered health insurance through an employer, the individual market is an alternative way to acquire coverage. Many who purchase insurance in this market use it as a bridge between jobs that provide employer-sponsored insurance or between employer-sponsored coverage and Medicare. For others, including the self-employed, coverage purchased in the individual market may need to serve their needs over the long term.

There are several different types of health insurance plans available in the private market, including health maintenance organizations, preferred provider organizations, and point-of-service plans. In addition to traditional managed care plans, a new generation of insurance benefit designs, called *consumer-directed health plans*, is emerging. Consumer-directed health plans typically have three basic features: a high deductible, which is the dollar amount that has to be paid before an insurer covers any medical expenses; an associated account that can be funded with pre-tax dollars and can be used to pay for out-of-pocket medical expenses; and tools to help enrollees make decisions about their medical care treatment options. The two most prevalent forms of consumer-directed health plans are Health Reimbursement Arrangements, which are offered by employers, and Health Savings Accounts, which are offered in both the employer group and individual markets. See Box 7-1 for information about Health Savings Accounts.

Box 7-1: Health Savings Accounts: Innovation in Benefit Design

Health Savings Accounts (HSAs) were signed into law by the President in 2003 as part of the Medicare Prescription Drug, Improvement, and Modernization Act. HSAs are tax-advantaged savings accounts to which individuals can contribute funds that they can then use to pay for qualified medical expenses. HSAs are used in conjunction with High-Deductible Health Plans that meet specific criteria. In particular, these plans must have a minimum deductible of \$1,150 for single coverage and \$2,300 for family coverage in 2009, an annual out-of-pocket limit of no more than \$5,800 for individuals and \$11,600 for families in 2009, and catastrophic coverage in case an individual or family exceeds the out-of-pocket limit as a result of a serious medical episode. Health plans that meet these criteria are referred to as HSA-compatible or HSA-eligible plans.

HSAs are available in both the employer group and individual markets. When offered in an employer setting, both an employer and employee can contribute money to the account, up to specific limits (\$3,000 for individuals and \$5,950 for families in 2009). Also, employees whose health plans meet the deductible and out-of-pocket limit criteria described above can open an HSA on their own if their employer does not open an account for them. Unused balances may be rolled over from year to year and accumulate interest, thus allowing individuals to build up savings that can be used to cover future medical expenses. Additionally, HSAs are portable, which means that individuals are able to

continued on the next page

Box 7-1 — continued

keep any unspent funds in the account when they change employment or exit the labor force.

Enrollment in HSA-compatible health plans has been growing steadily each year. In 2006, over 6.8 million employees and dependents were enrolled in High-Deductible Health Plans, and over 30 percent of these enrollees were in small firms. As of January 2008, approximately 1.5 million consumers had purchased HSA-compatible plans in the individual market. HSAs in combination with a High-Deductible Health Plan are playing an increasingly important role in the individual market, providing an option that is more affordable, on average, than other traditional types of health plans.

HSAs and High-Deductible Health Plans are designed to encourage more consumer control over health care decision making, but concerns have arisen about the impact that these plans may have on policyholders' care-seeking behavior. In particular, some believe that the deductible may lead individuals to forgo or delay getting care such as preventive screenings (for example, mammograms). To mitigate this concern, most insurers now provide some coverage before the insured person meets his or her deductible. Research that analyzes the impact of HSAs and High-Deductible Health Plans on medical care utilization and expenditures is mixed. In coming years, as these plans gain market share, research may help to clarify the full effect of this type of benefit design on care-seeking behavior and costs.

The employer group and individual markets for health insurance have unique advantages and disadvantages. Employer groups are generally able to pool risk, as individuals within an employer group initially come together for a purpose other than buying health insurance and because larger numbers of covered people makes it easier to predict the average expenditure of the group. Effective risk pooling is often more challenging in the individual market, given the potential for adverse selection, whereby individuals who expect high health care costs are more likely to buy coverage, while those who expect to have low costs may be less likely to do so. If insurers are not able to fully identify the risk of individuals seeking coverage and premiums are set according to the average risk in the population, then there will be insufficient funds to cover the claims that are generated. In most States, health insurers use medical underwriting to assess individuals' risk for generating medical expenditures based on their demographics, health status, and past utilization.

Another important distinction between the employer group and individual markets is the tax treatment of premiums. For employer-sponsored insurance, premiums that are paid by employers are exempt from the Federal income tax, State income taxes in 43 States, and Social Security and Medicare taxes. In addition, many employees can pay their share of the insurance premium with pre-tax dollars if their firm offers a "Section 125" plan. The amount of forgone revenue associated with excluding tax on premiums is often referred to as the "tax subsidy" for employer-sponsored health insurance. The tax exclusion encourages employers to provide a larger share of workers' total compensation in the form of health insurance benefits, leading employers to offer generous coverage with low levels of coinsurance and deductibles. In turn, these low levels of cost-sharing can encourage moral hazard, whereby individuals use more medical care than they would if they were responsible for the full price of that care.

For self-employed workers and their families, there is a partial tax subsidy of health insurance, which allows them to deduct health insurance for themselves and their families from the Federal income tax (up to the net profit of their business) but not from the self-employment tax (equivalent to the combined tax that they would pay for Social Security and Medicare). For those who neither are self-employed nor have an offer of employer group insurance, medical care expenses, including the premiums for coverage purchased in the individual market, are tax deductible only when these expenses exceed 7.5 percent of adjusted gross income.

As discussed before, not all workers have access to employer-sponsored insurance; those who do may have limited choices, particularly if they are employed at a small firm. While the individual market provides an alternative way to acquire health insurance, for many it is not perceived to be as attractive as employer-sponsored insurance. One way to move toward balancing the attractiveness of the employer group and individual markets is to alter the current tax treatment of premiums. Removing the tax exclusion for employer premiums has the potential to eliminate many of the inefficiencies and equity issues associated with the current system; it would also increase Federal Government income tax revenues by up to \$168 billion in FY 2009.

The President has proposed replacing the current tax exclusion with a flat \$15,000 standard deduction for health insurance for families or \$7,500 for individuals. The amount of the standard deduction would be independent of the actual amount spent on a health insurance policy, which would need to meet a set of minimum requirements for catastrophic coverage. Thus, individuals and families would still be able to take the full amount of the deduction from income and payroll taxes, even if their health insurance premium cost less than that amount. Although individuals with small tax liabilities would not stand to gain as much from a tax deduction as individuals with higher tax liabilities, this approach would make health insurance more affordable, particularly for those who do not have access to employer-sponsored coverage.

Public Insurance

Several programs funded by the Federal Government exist to provide health care to specific populations. These programs include the Federal Employees Health Benefits Program (FEHBP), TRICARE, the Veterans Health Administration (VHA), the Indian Health Service (IHS), Medicaid, the State Children's Health Insurance Program (SCHIP), and Medicare. The FEHBP and TRICARE are health insurance programs for Federal employees and active duty personnel, respectively. The Federal Government also provides medical care to veterans through the Veterans Health Administration. Run by the Department of Veterans Affairs, the VHA provided services to 5.5 million patients in 2007, up from 3.8 million in 2000. The Indian Health Service provides health care to members of Federally-recognized tribes and their descendants. This too is a public health care system in the sense that the Federal Government operates the IHS hospitals and employs the program's health care providers. In 2007, the IHS provided services to 1.5 million American Indians and Alaska Natives.

Established in 1965, Medicaid provides medical assistance for certain children, families, and elderly and disabled individuals with low incomes and low resources. Medicaid is administered by the States and is jointly funded by the Federal Government and States. In 2007, there were approximately 48 million Medicaid enrollees. Another public insurance program is the State Children's Health Insurance Program (SCHIP), which was created in 1997. SCHIP enables States to provide health insurance coverage for low-income children who do not qualify for Medicaid. SCHIP is also administered by the States and jointly funded by the Federal Government and the States. States receive an enhanced Federal matching rate for SCHIP that is higher than their Medicaid matching rate but capped at a fixed level. During fiscal year 2007, more than seven million children were enrolled in SCHIP.

Medicare, also begun in 1965, provides health insurance to nearly all individuals aged 65 and older, as well as some younger individuals with permanent disabilities or those who have been diagnosed with end-stage renal disease. Today, there are approximately 44.6 million Medicare beneficiaries. As discussed in Chapter 6, Medicare consists of four parts: Part A provides coverage for inpatient hospital services, some home health care, and up to 100 days in a skilled nursing facility. Part B provides coverage for outpatient services, including outpatient provider visits and certain preventive screening measures. Part C, also known as Medicare Advantage, provides beneficiaries with the option of enrolling in one of several types of private health plans rather than traditional, fee-for-service Medicare. Finally, Part D provides coverage for outpatient prescription drugs.

Revitalizing and strengthening Medicare Advantage has been a key priority for the Administration. As an alternative to traditional Medicare, beneficiaries may enroll in one of several types of private health plans, including health maintenance organizations (HMOs), preferred provider organizations (PPOs), and private fee-for-service (PFFS) plans. For the past 3 years, 100 percent of Medicare beneficiaries have had at least one Medicare Advantage plan available in their local geographic market, up from 75 percent in 2004. Currently, nearly 10 million people, or over 20 percent of all Medicare beneficiaries, are enrolled in Medicare Advantage plans.

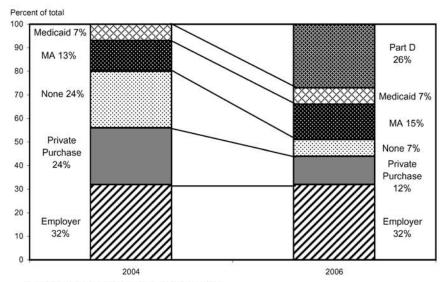
Many beneficiaries are attracted to Medicare Advantage plans because these plans typically cover services that are not covered under traditional Medicare, such as dental care, certain preventive services, and care management for those with chronic conditions. Additionally, Medicare Advantage enrollees may have lower out-of-pocket costs. For 2008, Medicare Advantage plans offered an average of approximately \$1,100 in additional annual value to enrollees in terms of cost savings and added benefits. Of course, it is important to acknowledge that beneficiaries who enroll in Medicare Advantage plans must comply with the particular policies of those plans when using services. In some cases, this may include using only providers in the plan's network.

One of the most significant changes in Medicare during this Administration was the creation of Part D, a voluntary program in which beneficiaries are able to purchase prescription drug coverage from private health plans that contract with Medicare. On average, beneficiaries pay 25.5 percent of the cost for standard drug coverage, while the Federal Government subsidizes the remaining 74.5 percent. Each year, beneficiaries can choose a drug benefit plan from a large number of diverse plan offerings. This variety ensures that beneficiaries are able to select the insurance policy that best meets their preferences.

Before Part D was created, beneficiaries could obtain drug coverage by using an employer retiree plan, if they had one; purchasing a private Medigap plan; enrolling in a Medicare managed care plan; or using Medicaid coverage if they were dually eligible. Chart 7-4 illustrates the change in prescription drug coverage among beneficiaries between 2004 and 2006, the year that Part D was fully implemented. In 2004, 24 percent of Medicare beneficiaries lacked prescription drug coverage. By 2006, many of these Medicare beneficiaries obtained prescription drug coverage by choosing a stand-alone drug plan or a Medicare Advantage (MA) plan.

Part D has had important effects on beneficiaries' out-of-pocket spending and their adherence to the medication protocols they have been prescribed. Recent analyses from the Health and Retirement Study data found that the introduction of Part D has been associated with a median decrease of

Chart 7-4 Prescription Drug Coverage for Medicare Beneficiaries in 2004 and 2006 The implementation of Medicare Part D resulted in significant changes for how Medicare beneficiaries obtain coverage for prescription drugs.



Note: Due to rounding, percentages may not add to 100. Source: The University of Michigan Health and Retirement Study.

\$30 per month in out-of-pocket spending among the newly insured population, compared to median baseline spending of \$100 per month. When prescription drugs are not affordable, individuals may not adhere to their prescribed regimes. They may skip doses, reduce doses, or let prescriptions go unfilled. Recent work finds a small but significant overall decrease in cost-related medication non-adherence following the implementation of Part D. Both the revitalization of Medicare Advantage and the creation of Medicare Part D represent important steps for ensuring that beneficiaries have affordable choices for their health insurance.

The Uninsured

An important issue facing policymakers today is that a large number of individuals lack health insurance in the United States. In addition to providing important financial protection, health insurance can help people obtain timely access to medical care. Research has shown that having health insurance is positively related to having a usual source of medical care, receiving preventive services, and getting recommended tests or prescriptions. Based

on U.S. Census data, the current number of individuals who lacked insurance during the calendar year is estimated to be 45.7 million people, or roughly 15.3 percent of the population. It is important to note that some people in Federal survey-based counts of the uninsured actually may have access to public insurance, but do not wish to report their program enrollment due to the possible stigma, or have not yet enrolled despite their eligibility. Also, others in Federal survey-based counts of the uninsured may have access to private insurance but have chosen not to purchase it.

The uninsured are diverse in terms of their employment and demographic characteristics. Individuals in households that have a full-time, full-year worker make up about 62 percent of the non-elderly uninsured population. Even with strong ties to the labor force, many people may not be offered employer-sponsored coverage. Even if such coverage is available to them, many people may choose not to buy insurance because it is not affordable or they do not place much value on having insurance. Individuals who lack insurance also tend to be younger.

In 2007, roughly 58 percent of the uninsured were under the age of 35. Finally, the uninsured are more likely to be from lower-income households, although a significant proportion of the uninsured population is made up of people in higher-income households. As shown in Table 7-1, among households earning less than \$50,000 per year, more than 20 percent of those households are uninsured. This contrasts with the highest household income category, where only 7.8 percent of individuals lack insurance.

Going forward, it is important that as the Federal Government continues to work on increasing the number of Americans who have health insurance, it uses approaches that effectively target those who are the greatest risk for being uninsured.

Table 7-1.—Uninsurance Rates by Household Income Category

Household Income	Population	Number of Uninsured	Percentage of Population That is Uninsured
Less than \$25,0000	55,267,000	13,539,000	24.5%
\$25,000-\$49,999	68,915,000	14,515,000	21.1%
\$50,000-\$74,999	58,355,000	8,488,000	14.5%
Greater than \$75,000	116,568,000	9,115,000	7.8%

Source: Income, Poverty, and Health Insurance Coverage in the United States, 2007, U.S. Census. Note: Due to rounding, percentages do not add to 100.

Investing in Public Health

The Federal Government plays an important role in identifying and addressing public health issues. This Administration has pursued several public health investment areas, including building a stronger safety net for the medically underserved, preparing for disease outbreaks and bioterrorism threats, supporting health-related research, and taking a leadership role in global health-improvement activities focused on HIV/AIDS and malaria.

Strengthening Community-Based Health Care

The Health Center Program is a Federal grant program that offers funding to local communities for providing family-oriented primary and preventive health care services. Health centers serve as an important safety net for people who need medical care but are underserved, including those without health insurance. Health centers provided care to more than 16 million individuals in 2006, and they are located in all 50 States and the District of Columbia. In 2002, the President made a commitment to create 1,200 new or expanded sites—a goal that was attained in 2007. Additionally, Federal funding for health centers has increased to \$2 billion annually.

Preparing for Public Health Emergencies

The Federal Government plays an important role in ensuring a timely and appropriate response in the event of a public health emergency, such as an influenza pandemic or a bioterrorism threat. These types of situations could potentially lead to high levels of illness, social disruption, and economic loss, and therefore it is important for the Federal Government to invest resources in developing strategies to prepare for them. Working in collaboration with the States, the Federal Government has provided funding, advice, and other assistance to State and local planning efforts.

Supporting Research

Health-related research is multidisciplinary. It includes biomedical and epidemiological work that can reduce a population's mortality and morbidity risks from disease; economic analyses that investigate consumer and provider decision making; and health services research that examines issues such as medical care utilization, quality, and access to services. Americans rate health research as a high national priority. For fiscal year 2009, Federal funding for the National Institutes of Health is \$29.5 billion. These resources will be used predominantly for supporting more than 38,000 research grant awards. It is beneficial to have a balance between investments that support biomedical research and those that address critical issues pertaining to the delivery and financing of health care, particularly given the substantial amount of resources that are going to be required to meet the medical care needs of the population in future decades.

Promoting Global Health Improvement

Many nations across the world are developing strategies to deal with consequences from the broad transmission of serious diseases, including HIV/AIDS, malaria, and tuberculosis, among others. In less developed parts of the world, people who contract these diseases face a much higher risk of mortality than do people in more developed parts of the world. There is also a significant economic impact from disease. In addition to the direct costs of medical treatment, high rates of serious disease within a population can hinder economic development. For example, HIV/AIDS may lead to large-scale losses in work productivity as the disease progresses and leaves those who are infected and their caregivers unable to work. Studies suggest that the high rate of HIV/AIDS has reduced the average national growth rates in African countries by 2 to 4 percent per year. Over the long term, high levels of disease also may inhibit educational investment, as shorter life expectancy diminishes incentives for human capital investment.

In 2003, the United States took a leadership role in supporting HIV/AIDS treatment, care, and prevention programs around the world, including in 15 countries that together have half of the world's HIV infections: Botswana, Côte d'Ivoire, Ethiopia, Guyana, Haiti, Kenya, Mozambique, Namibia, Nigeria, Rwanda, South Africa, Tanzania, Uganda, Vietnam, and Zambia. Known as the President's Emergency Plan for AIDS Relief (PEPFAR), this program has supported more than 57 million HIV counseling and testing sessions and has supported care for more than 10.1 million people infected or affected by HIV/AIDS, including more than 4 million orphans and vulnerable children worldwide. Additionally, through September 30, 2008, PEPFAR supported antiretroviral treatment for approximately 2.1 million people and prevention of mother-to-child transmission interventions during more than 16 million pregnancies. In 2008, Congress extended this program for an additional 5 years and significantly increased its authorized funding level.

A second global health initiative pursued by the Administration has been prevention and treatment of malaria. Each year, more than 1 million people die of malaria, most of them young children in Sub-Saharan Africa. It also causes serious morbidity, as those who are infected tend to lose, on average, 6 weeks from school or work due to the illness. Spending related to the disease can account for as much as 40 percent of public health expenditures, as well as high levels of household out-of-pocket expenditures. Beyond imposing high medical costs and lower incomes due to absenteeism, malaria

is likely to impose indirect costs through broader macroeconomic channels, including underdeveloped tourism industries and lower levels of foreign direct investment.

In June 2005, the President's Malaria Initiative was announced. This initiative represents a public-private partnership among the U.S. Government, nongovernmental organizations, corporations, foundations, and faith-based service organizations, with the goal of reducing the mortality rate from malaria in 15 African countries by 50 percent. In 2007, the initiative's second year, 25 million people in Sub-Saharan Africa are estimated to have benefited from the program. More than 6 million long-lasting, insecticide-treated mosquito nets have been purchased, with two-thirds of those nets distributed.

Conclusion

The U.S. health care system is at a critical juncture. While advances in medical technology help millions of Americans lead longer and healthier lives, the rising cost of health care is both threatening the ability of Americans to access care that is affordable and is increasing the strain on Federal and State budgets. There are several opportunities to increase the value of health care and improve health insurance coverage. This Administration has pursued policies to improve the efficiency of health care markets through increased consumer involvement, improved choices, information transparency, and incentives to providers for delivering high-quality, efficient care.

This Administration has also pursued policies to improve the health insurance options of Americans. With the Medicare Prescription Drug, Improvement, and Modernization Act of 2003, Medicare was expanded to provide beneficiaries with improved access to affordable prescription drugs. Additionally, this legislation created Health Savings Accounts, which, in combination with High Deductible Health Plans, give individuals the incentive to become more active decision makers regarding their health care and health investments. Finally, this Administration has held to its commitment to make important investments in public health, including the expansion of Health Centers, collaboration with States and local governments to prepare for potential crises or threats, support of health-related research and development, and promotion of global health-improvement initiatives.

Education and Labor

Long-term economic growth requires a productive workforce with the skills unecessary to compete in a global labor market. The Administration's commitment to boosting the high productivity of American workers is evident in successful education and training policies. These include initiatives to increase primary and secondary school accountability, to ensure broader access to higher education, and to train workers so that they may take advantage of new high-paying job opportunities.

Real disposable income grew steadily during the Administration, and earnings per hour outpaced inflation despite large increases in energy prices and a growing portion of employee compensation being paid in non-wage benefits. Real median household income did fall slightly during the Administration, but this decline began prior to the Administration taking office. The Administration included several years of strong growth in real median household income from 2004 to 2007. The strongest pension reform measures in over three decades were also enacted. These offered important protections to workers who depend on their firm's pension plans for their retirement incomes.

Challenges lie ahead, however, and the most successful initiatives of the Administration must be bolstered. A continued commitment to better quality in kindergarten through twelfth-grade (K–12) education and broader access to higher education will help produce the additional workers the United States needs to meet the increasing worldwide demand for highly skilled labor.

In addition to these challenges, some related issues will need to be addressed, and education and labor policy will be important elements. First, the high level of income inequality in the United States calls for educating and training a greater number of workers, as better and more widely dispersed skills will be a force in reducing income inequality in the United States. Furthermore, the United States also needs comprehensive reform of its immigration policies. The principles of this Administration's immigration plan, which include a number of education and labor initiatives, will likely be the starting point for future discussions.

The key points of this chapter are:

• Education benefits individuals through higher earnings, and benefits society as a whole. Administration initiatives to improve K–12 education,

- most notably the No Child Left Behind Act, are demonstrating clear, measurable results.
- Access to higher education was maintained through an expanded Pell Grant program and proactive efforts that helped protect Federally subsidized student loans from recent credit issues faced elsewhere in the economy.
- Despite a small decline in real median household income, which had begun prior to the Administration taking office, hourly earnings of workers outpaced inflation, and real per capita disposable income rose substantially during the past 8 years. Median household income increased steadily after the recovery began in earnest in 2004. Also, pension reforms were enacted to help protect retirement income.
- Income inequality and immigration reform must still be addressed. Strong support for education and a focus on workers' skills can help close income gaps. Reform of immigration policies must provide border security while allowing the economic benefits that immigrant labor provides to the economy.

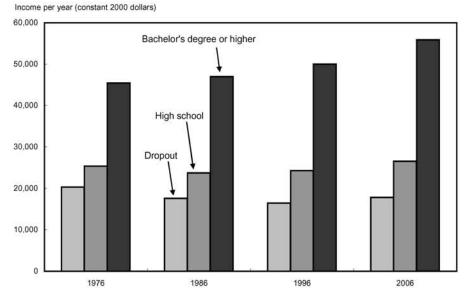
Economic Benefits of Education

Education is an investment. As with other investments, people compare benefits and costs when deciding whether to invest. The benefits of a quality education are widespread, with greater earnings being enjoyed by people and families who invest in education. Also, there are additional, non-pecuniary benefits of education that are enjoyed by both individuals and society at large. Education is also a key component of worker productivity and long-term economic growth.

For most people, a strong motivation to obtain additional years of schooling is the labor market return they expect to receive. Indeed, according to Chart 8-1, adults with a bachelor's or an advanced degree earn considerably more than adults with a high school degree. Likewise, those with a high school degree earn more than those who failed to complete high school. The gap between the earnings of those with a college education and those with a high school education, however, has grown since the 1970s. Currently, the average recipient of a college degree earns well over twice the amount earned by the average adult without a degree. Although any one individual's benefit from a college degree will differ due to ability, choice of major, and other factors, the expected return for investments in education undoubtedly motivate people to attend college.

Chart 8-1 does not take into account other individual benefits of education, most notably improved health. A substantial number of recent studies have

Chart 8-1 Average Adult Real Earnings by Educational Attainment Earnings increase substantially with education, and the return has grown over time.



Source: Department of Commerce (Bureau of the Census, Current Population Survey).

shown that a direct link exists between educational attainment and health, even after holding income constant. One reason for this link may be the fact that people with greater educational attainment make better choices that impact their health positively, such as getting more exercise or not smoking. Education might also improve one's ability to navigate a complex health care system. Although the health returns to education are difficult to price in monetary terms, people surely value their health.

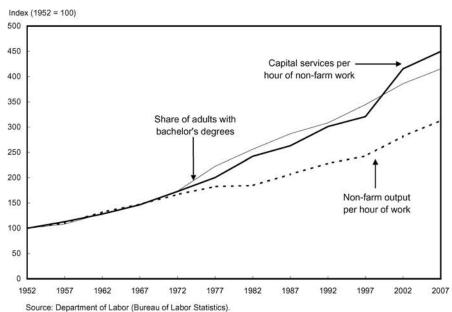
In addition to an individual's benefit from more education (greater earnings and better health), society benefits from a better-educated population. Education has been shown to foster civic-mindedness. For example, education makes it more likely someone will vote or support free speech. It also improves social skills and reduces crime. These effects of education positively affect fellow citizens as well as the individuals obtaining the education.

Finally, education is a key component of economic growth. Chart 8-2 illustrates the sustained productivity growth the United States has enjoyed throughout the past half century. It sets an index of output per hour of work for all non-farm workers to 100 in 1952 and displays the index over 5-year increments through 2007. The chart indicates that productivity has grown more than 200 percent over the past half century. Chart 8-2 also plots indexes of educational attainment (measured as the share of adults with a bachelor's degree) and capital services (for example, machinery and

equipment) per hour. Both educational attainment and capital intensity, which measures the extent to which capital is used with labor, show strong This means that in recent decades, businesses have not upward trends. only employed an increasingly educated workforce, but have also put more capital (especially computers and high-tech equipment) at the disposal of Through better production processes and management, this workforce. businesses have also become more efficient in using labor. Education, capital intensity, technological advances, and efficiency gains are all interrelated in complex ways, but research has credited education with as much as one-third of the growth of U.S. productivity from the 1950s to the 1990s.

As more of the population achieves higher levels of education and the education they receive is of better quality, additional productivity benefits start to take hold through spillover effects. Educated workers share their knowledge and skills with each other, thereby increasing their combined productivity. Moreover, an increasingly skilled workforce fosters technological advancements that increase the demand for even more skilled workers. This technologically driven increase in demand has been great enough in the United States to drive up the wages for skilled workers even as the supply of such workers is increasing.

Chart 8-2 Growth in Educational Attainment, Capital Intensity, and Labor Productivity over Time Education and the use of capital per hour of work have grown, spurring productivity growth.



There are also benefits to moving the entire population up to a basic level of competence because the labor market continues to demand increasing skills of its participants in virtually all tasks. Thus, the focus of the current Administration on improving K–12 instruction of every student in the United States is well placed.

Primary and Secondary Education

A strong commitment to education begins with ensuring that every child has access to quality primary and secondary schools. The No Child Left Behind Act (NCLB), which is intended to accomplish this goal, has been the centerpiece of the Administration's education policy. The NCLB Act was signed into law in January 2002 and has since reshaped the Federal role in the provision of K–12 education in the United States. It holds schools accountable for the performance of students, provides parents with more information and more choices, gives States and localities more flexibility in using Federal funds to meet the needs of children they serve, and promotes proven education methods. Among its many provisions, two innovative approaches to improve the quality of education stand out: holding schools accountable for making adequate yearly progress toward NCLB goals, and facilitating school choice options and supplemental education services for students in schools that are failing to meet standards.

Under the adequate yearly progress provisions of NCLB, each State is charged with developing its own guidelines for determining whether schools make sufficient progress each year toward the NCLB goal that all students be proficient in math and reading by 2014. If a school receives NCLB funds due to its low-income status and fails to meet its State's standards for adequate yearly progress for consecutive years, that school is identified as needing improvement and faces an escalating set of interventions. Students can transfer to another school in the same district. In addition, low-income students in the schools are offered supplemental education services (such as tutoring services or other academic help), which are paid for out of Federal funds. School districts have the obligation to notify parents of these options and to provide a list of approved supplemental education service providers in their area. A school that continually fails to make adequate yearly progress is subject to takeover or restructuring by the State.

Early Signs of NCLB Success

The success of NCLB will take years to determine, as current cohorts of students complete high school and move on to college or the workforce, but early indications are encouraging. The top panel of Table 8-1 summarizes

recent trends in standardized math test scores for fourth graders as reported by the National Assessment of Educational Progress, which periodically tests fourth and eighth graders across the country. Researchers suggest that math test scores are a good way to judge achievement because they predict future labor market success well. The scores of students who were in fourth grade in 2005 and 2007 (no test was given in 2006) provide the most information because most if not all of their schooling to that point was during the time of the NCLB. These scores are from national standardized tests, and each State sets it own definition of proficiency, so the table is more indicative of general changes in student performance over time rather than actual progress toward a specific State's proficiency standard.

Table 8-1 shows that early in this decade, less than 10 percent of lowincome students and less than 25 percent of all students were proficient in math (with low-income defined as being eligible for government-sponsored free lunch programs). Over 50 percent of low-income students were below even basic levels at that time. By 2007, however, 82 percent of students had reached the basic level, and the number of students achieving proficiency had increased from 24 percent in 2000 to 39 percent in 2007. For low-income students, the percent proficient has nearly tripled, from 8 percent in 2000 to 22 percent in 2007. This is encouraging evidence, but we must use caution in attributing these increased test scores to NCLB directly. For example, there were increases in math and reading scores from 2000 though 2003, and this may reflect some upward trending of scores before NCLB took effect in 2002. This pre-NCLB trend could be reflective of an accountability movement that was taking shape across the country, which culminated in Federal

Table 8-1.—Proficiency Levels of Fourth Graders

Math Achievement					
	1996	2000	2003	2005	2007
Percent Proficient or Above					
Among All Students	21%	24%	32%	36%	39%
Among Students Eligible for Federal Lunch Programs	8%	8%	15%	19%	22%
Percent at Basic Level or Above					
Among All Students	63%	65%	77%	80%	82%
Among Students Eligible for Federal Lunch Programs	40%	43%	62%	67%	70%
Reading A	Achievement	,			
	1998	2000	2003	2005	2007
Percent Proficient or Above					
Among All Students	29%	29%	31%	31%	33%
Among Students Eligible for Federal Lunch Programs	13%	13%	15%	16%	17%
Percent at Basic Level or Above					
Among All Students	60%	59%	63%	64%	67%
Among Students Eligible for Federal Lunch Programs	39%	38%	45%	46%	50%

Source: U.S. Department of Education (National Center for Educational Statistics)

law through NCLB. The continuing upward trend after NCLB was enacted is noteworthy, however, and under NCLB, test scores clearly are higher than they were before NCLB.

Although not shown, math test scores for eighth graders have improved as well, but the gains are slightly more modest. This is perhaps because the eighth graders have not had the benefit of NCLB for their entire school careers. More time will need to pass to appropriately evaluate results for eighth graders.

NCLB Challenges

Although the success in math that is illustrated in Table 8-1 is encouraging, the reading scores in the bottom panel of Table 8-1 have not increased as much as math scores. Math scores are better predictors of future labor market success, but the slower pace of improvement in reading scores should not be dismissed. The Administration's Reading First Program was enacted as part of the NCLB Act in 2002. This Department of Education program supports State educational agencies and local school districts that submit a plan to implement a scientifically based instructional reading program. Each submitted plan must demonstrate that students will be able to read by the end of third grade. The amount of support is based on the proportion of children in low-income households in each State. The program has demonstrated success in improving reading comprehension. For example, 44 State educational agencies reported improvements, and 31 of them reported an increase of at least 5 percentage points. Unfortunately, funding for this program was substantially reduced in fiscal year (FY) 2008.

Low test scores in poorer households are improving, according to Table 8-1, and achievement gaps are narrowing. Continuing to narrow the achievement gaps by raising test scores of low-income students remains an ongoing challenge that will require that attention be paid to some unique problems facing schools in high-poverty areas. For example, there is a high rate of teacher turnover in schools that serve low-income students. The most recent data available show a turnover rate in public schools in high-poverty areas that is 50 percent higher than in low-poverty areas.

Two components of the NCLB program that may help address the needs of low-income students are NCLB's supplemental education service and school choice options for students in failing schools. These programs are currently underutilized, alarmingly so in some districts. Parental outreach could be improved by providing more timely and better information about students' eligibility for these programs, and new Department of Education regulations specifying early notification requirements may help. In addition, ways to make school choice options more convenient for parents should be explored, because many parents are currently reluctant to enroll their children

in alternative schools largely because of the perceived inconvenience of doing so. School choice options are limited, however, for many districts where there are no schools to which a student can reasonably transfer.

Finally, high school graduation is valuable for future labor market success (Chart 8-1) and is the most likely path to college enrollment. An accurate method of calculating graduation rates that is uniform across States is necessary to improve high school accountability. Requiring school officials to have written confirmation that a student transferred out, immigrated to another country, or is deceased before removing the student from their graduation cohort will improve the accuracy of graduation rate calculations. Written confirmation will ensure that students who have dropped out of school are not counted as transfers; consequently, schools will be held accountable for dropouts and others who do not graduate from high school with a regular diploma. The final NCLB regulations require States to use the methodology adopted by the National Governors Association. This "4-year adjusted cohort graduation rate" uses the number of students who graduate in 4 years with a regular high school diploma divided by the number of students who entered high school 4 years earlier (adjusting for transfers in and out). The use of the 4-year adjusted cohort graduation rate is an improvement over previous systems not only because it is a uniform method of calculating graduation rates, which will allow for more meaningful cross-State comparisons, but also because this particular method will give parents and educators a more accurate picture of high school completion in their communities. This will improve the understanding of the scope and characteristics of the population of students who do not earn regular high school diplomas or take longer to graduate. Educators will be able to use this information to help local education agencies meet their State graduation rate goals and thus make adequate yearly progress.

Currently, high school dropout rates hover around 10 percent and have fallen since the inception of NCLB, from 10.5 percent in 2002 to 9.3 percent in 2006. High school dropout rates among certain population groups, however, remain remarkably high. For example, Hispanic students dropped out of school at a rate of 22.1 percent in 2006. Although this has decreased from 25.7 percent in 2002, it is still over twice the national average. Dropout rates in the southern United States (11.7 percent) far exceed those in the Midwest (6.1 percent) and Northeast (6.5 percent).

Because teachers are on the front line of the NCLB mission, future Administrations will need to do more to keep our best teachers in the classroom, particularly those who have been successful in reaching low-income students. The Administration supported tax deductions for the out-of-pocket expenses teachers incur while providing instruction, as well as loan forgiveness programs for teachers in low-income schools. While both of these programs are likely to provide some financial incentives, the need to find new ways to

help keep good teachers in classrooms still remains a challenge for improving K–12 education. The President's Teacher Incentive Fund has supported several pay-for-performance models around the country to help reward and retain outstanding teachers.

Higher Education

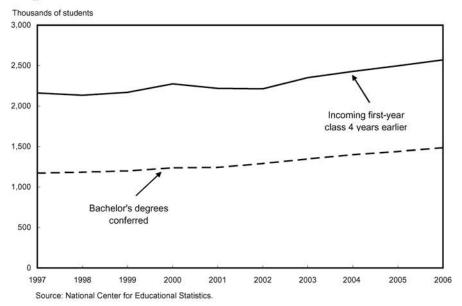
The U.S. higher education system is the best in the world. World rankings are dominated by American institutions, and the United States has long been the destination of many of the world's best students, teachers, and researchers. The American Competitiveness Initiative embodies the Administration's strong commitment to maintain the United States's standing as a leading producer of scientific knowledge, and it would increase the funding capabilities of grant organizations and expand the math and science curricula at primary and secondary schools. While keeping American universities competitive should remain a priority, maintaining student access to these institutions is perhaps even more important.

After several decades of growth, the share of high school graduates immediately transitioning to either a 2- or 4-year college has hovered around two-thirds since 1996. Although college enrollment is more likely among high school graduates from high-income families, about half of the students who graduated from high school in the poorest fifth of families have immediately enrolled in college since 2000.

Enrollment does not necessarily mean that a student receives a college degree. According to Chart 8-1, completing a 4-year degree is associated with the highest earnings. Thus, Chart 8-3 shows an unfortunate trend. Since 1996, there has been a large and steady gap between the number of students completing a bachelor's degree and the number of students enrolling in college 4 years before. Because it is true that many students take longer than 4 years to graduate from college, the gap depicted in Chart 8-3 does not capture everyone who will drop out. Nevertheless, the relative steady space between the two trends does show that college completion rates are low. This finding is backed up by more exact information on the number of enrollees who ultimately complete college (regardless of the number of years it takes), which indicates that the completion rate is only slightly above 50 percent. Furthermore, among 25- to 29-year-olds, the proportion of all college attendees with no bachelor's degree has remained at about 50 percent over the past decade. There are two things that can be done to help increase completion rates: continue with the Administration's efforts to improve K-12 education so that students are better prepared for college, and maintain access to grant aid to defray the increasing costs of education.

Chart 8-3 Enrollees and Degrees Conferred

The number of college graduates continues to rise, but the number of enrollees far exceed the number of degrees conferred.



College Preparedness

One reason for low college completion rates may be that many students are ill-prepared for the rigors of college education. One recent study suggests that nearly half of public high school graduates attending college in 2005 felt that there were notable gaps in their high school preparation. Moreover, college professors reported that about 42 percent of public high school graduates are not prepared for college-level classes.

There are reasons to be optimistic, however, because of the improved scores for fourth and, to some extent, eighth graders. In addition, the American Competitiveness Initiative contains a sound plan to devote significant resources to improving college preparedness through investments in math and science education. Congress also recently enacted the Adjunct Teacher Corps, a program proposed by the President that encourages well-qualified math and science professionals to serve as adjunct middle or high school teachers. There is more work to do at the high school level, however, and encouraging good teachers to remain in classrooms would likely improve college preparedness.

Funding Higher Education

The real cost of education (tuition and fees less aid and tax benefits) has increased substantially during this decade. In response to the rising costs, the Administration substantially expanded the Pell Grant program. Under this Administration, the total value of Pell Grants more than doubled from \$8 billion in the 2000–2001 school year to \$16.3 billion in the 2008–2009 school year. During 2008–2009, the maximum award available was \$4,731, which exceeds the annual tuition and fees of attending a public 2-year institution and covers over 70 percent of the average tuition and fees of a public 4-year college. Pell Grant aid, however, is targeted to families with the greatest financial need, so the reality is that even large expansions in grant programs cannot keep up with increasing college costs for many families whose incomes are too high to qualify for Pell Grants. For millions of students, Federal Stafford loans provide essential assistance to help cover costs.

Stafford loans come in two forms. Subsidized loans defer payments until after students complete college, and the Government pays the interest while the students are in school. Unsubsidized loans allow deferred payments, but interest accrues while students are in school. Schools can sign up for Stafford loans to be handled by the Department of Education through the Federal Direct Loan Program or through private lenders that offer students loans through the Federal Family Education Loan Program. Because students represent a greater credit risk (they tend to be younger and have lower incomes), private lenders rely on the Government's guarantee against borrowers defaulting on loan payments. The Administration took action this year, as discussed in Box 8-1, to ensure continued access to the Federal student loan program in the face of credit markets disruptions.

Box 8-1: The Ensuring Continued Access to Student Loans Act of 2008

Largely unnoticed in the turmoil of the financial markets in 2008 was the fact that the Administration was proactive in avoiding a crisis in the student loan market. Many student lenders finance their lending by repackaging student loans and reselling them to investors in the secondary market. However, in early 2008, the disruption in credit markets made it increasingly difficult for lenders to resell loans. As a result, many of these lenders warned that they might not take part in the Federal student loan program for the 2008–2009 school year.

continued on the next page

Box 8-1 - continued

The Administration stepped in with an innovative program that was embraced by both parties in Congress.

On May 7, 2008, the President signed into law HR 5715, the Ensuring Continued Access to Student Loans Act of 2008. One of the critical provisions of this law granted the Secretary of Education the authority to purchase Federal Family Education Loan (FFEL) Program loans. Under this authority, the Department of Education created two programs: one in which it offers lenders the option to sell fully disbursed FFEL loans and another in which it purchases a participation interest in 2008-2009 FFEL loans. The programs were designed to retain lenders who might otherwise not have participated in the FFEL program; the ability to sell loans to the Department assured lenders that even if they had difficulty reselling the loans in the secondary market, they would not be stuck with the loans. The programs have also ensured that lenders originated new loans to students because lenders who sold their loans to the Department then had the funds necessary to originate new loans.

The intervention has helped the Federal student loan program function effectively so far this academic year despite the condition of financial markets. A projected 8.5 million students are attending college partly because they were able to finance their studies through the FFEL program. Recognizing that the financial crisis may impact the student loan program for the 2009-2010 year, Congress recently extended the authority for the Department of Education to purchase loans for another year. The Department has announced that it will replicate the current programs for the 2009-2010 school year. This will help ensure that students who are investing in their future through education will have access to Federal student loans despite current conditions in credit markets.

Labor Issues: Income Trends, Worker Flexibility, and Pension Reform

Real hourly earnings grew during the Administration, and real per capita disposable income (which includes income from labor and non-labor sources) rose substantially. The Administration also worked to promote retraining so that workers could fill jobs in demand. Finally, pension reform enacted in 2006 will help protect retirement incomes.

Recent Trends in Real Incomes

A common belief is that the incomes of working American families have not kept pace with inflation in recent years. Adjusting for inflation, it is indeed true that the annual median household income (measured in 2007 dollars) was \$408 less in 2007 than it was at its peak in 1999, two years before this Administration took office. Although this is a decline in real terms, it tells an incomplete story of what happened during the Administration. Real median household income fell through 2004, but this represented a trend that began before the Presidency. Real median income strongly rebounded beginning in 2004 and reached near-peak levels by 2007.

Annual median household income, as reported by the Census Bureau, also includes both labor income and non-labor income. Thus, changes in median household income can be driven not only by changes in labor income but also by changes in income from investments and government transfer payments, such as Social Security or unemployment benefits. Turning to more specific measures of labor income, workers fared well during the Administration. Chart 8-4 plots an index of real hourly earnings for private non-farm production or non-supervisory workers from 1988–2007 (with real earnings in 1988 set to 100). The chart shows that real hourly earnings fell slightly through the early 1990s. After that, however, there was a long period of strong growth starting in the mid 1990s and continuing into the early part of this decade. Although it is true that real earnings are still less than their historic highs in the 1970s, 2007 marked their highest point since 1979.

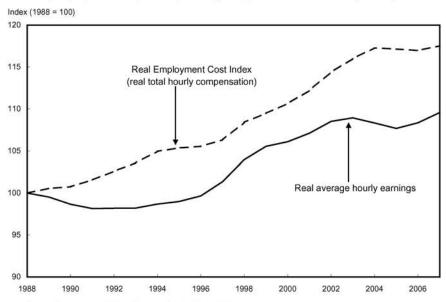
Chart 8-4 reveals one other important point about recent trends in labor income. Workers are increasingly getting less of their pay in terms of cash wages and more in terms of benefits. Real total compensation per hour for private non-farm workers is plotted using the Employer Cost Index, which includes wages, salaries, and employer costs for employee benefits. Again, the index is set to 100 in 1988. Real total employee compensation grew considerably faster throughout the last 20 years than real hourly earnings. In 2007, total employee compensation in real terms reached its highest point on record. The growth appears most pronounced during the first half of this decade. This rise in total compensation likely stems from the growth in the costs of employer-provided health and retirement benefits, which far outpaced the growth in cash wages (and inflation) during the Administration. The increase in the dollar value of compensation received in the form of nonwage benefits has reduced the real wage increases that workers would have otherwise received.

Finally, the real household income decline noted at the start of this section, as well as the changes in worker wages, masks one other important factor. These are pretax measures and therefore are imperfect gauges of what people

and households are able to spend, save, and invest. One measure that looks at after-tax income tells a much different story. Specifically, real per capita disposable income, another important measure of income derived from the Bureau of Economic Analysis's National Income and Product Accounts, reflects after-tax income and is more reflective of purchasing power. From 2000 to 2007, there was a steady increase in per capita real disposable income that averaged 1.68 percent per year, compared with 2.12 percent annual growth in real disposable income over the 8 years from 1992 to 2000. Given the rise in energy prices during the current Administration, however, as well as the fact that there was an economic downturn over its first several years, the growth in real disposable income is noteworthy. Like real median household income, however, real per capita disposable income reflects both labor and non-labor income.

Although 2008 and 2009 will undeniably be difficult for many workers and their families as unemployment rises, data from 2000–2007 show that most measures of real income (that is, labor income, total compensation, and per capita disposable income) grew during the Administration.

Chart 8-4 Real Hourly Earnings and Real Total Compensation Costs over Time Real hourly employment costs (total compensation) have grown faster than real hourly earnings.



Source: Department of Labor (Bureau of Labor Statistics).

Worker Flexibility and Training

The U.S. labor market is part of a dynamic worldwide market with constantly changing demands brought about by technological change and international trade. The U.S. labor market, however, is well structured to meet these challenges. The United States has a long history of limiting the amount of government intervention between workers and firms, thus allowing for flexibility in the American workforce. Specifically, businesses in the United States are less limited than businesses in other developed countries in their ability to discharge a worker, thereby making them more willing to hire workers, knowing that they can more easily fire an unproductive employee. In times of growth, job openings are plentiful and workers are willing to search for the job that best matches them. The flexible employment relationship in the United States is evidenced by the relatively high rate of job mobility. Although it must be recognized that workers do build up specific skills from remaining at a firm and that not all job separations are advantageous, a growing economy still requires that workers be flexible and change jobs to find the correct match for their skills.

Among countries in the Organization for Economic Co-operation and Development (OECD), the United States has by far the most mobile workforce. Since January 2001, about 1 in 30 workers separated from their job in an average month (or about 4.39 million jobs were vacated). During these months, an average of 4.54 million workers were hired each month, suggesting that the economy was both creating new jobs and that workers were quickly filling positions that opened. The majority of job separations during these years were also created by workers voluntarily quitting, suggesting that many workers left jobs for new opportunities. Although these numbers have become more volatile in the latter half of 2008, with layoffs making up a higher percentage of job separations, during times of growth the rate of job openings in the United States is a testament to the relative flexibility of the U.S. labor market.

Workers in the United States have also shown more willingness to move to where jobs are located. According to the OECD, in each year from 2000 to 2005, over 3 percent of the U.S. working-age population moved across State lines. In comparison, only 1 percent of the working-age population in the EU-15 (the 15 European Union members before the 2004 expansion) moved between the 72 recognized European regional subdivisions. Moreover, less than 0.25 percent moved between EU-15 countries annually over this period. Obviously language barriers preclude some EU-15 mobility, but the greater geographic mobility in the United States also compares favorably to Australia and Canada. In short, the willingness of workers in the United States to move is an important part of the structure of the labor force and a reason for its flexibility.

Another key to meeting the growing demand for new and changing skills in the labor force will be the continued willingness of American workers to get the education and training needed to fill the new jobs that are created in the economy. A commitment to education, particularly in more technical fields, will prove to be important in the coming decades. The Administration's job training initiatives, including the Community-Based Job Training Grants and the High Growth Job Training Initiative, have helped prepare workers for jobs in high-demand industries. The Administration also proposed Career Advancement Accounts that put funds directly in the hands of people to pay for expenses related to education and training and put strict limits on administrative overhead in order to increase resources available for job training. Finally, international trade has also created many new opportunities for American workers, and Box 8-2 describes programs aimed to help workers take advantage of these opportunities.

Retiree Income

As life expectancies increase, American workers will likely spend an increasing amount of time in retirement. The Federal Government provides substantial retirement assistance through the Medicare and Social Security programs, but the challenges faced by these entitlement programs are substantial and are discussed in Chapter 6. Private savings and individual pensions provided by employers continue to be essential.

Box 8-2: Trade Adjustment Assistance

International trade brings substantial benefits to the U.S. economy. Not only are American consumers able to take advantage of a greater number of goods at lower prices, but workers in industries whose products and services are in high demand internationally benefit as well. In 2006, for example, an estimated 13 million U.S. jobs were supported by exports. The wages of manufacturing workers in plants that export are 9 percent higher than the wages of workers in non-exporting plants, and the wage premium in service-oriented firms that export is 13 percent over non-exporting firms. Furthermore, exports accounted for approximately 30 percent of economic growth in 2006.

Although the benefits of trade are enormous, workers in industries that must compete with imports can be adversely affected. Because of this, Trade Adjustment Assistance (TAA) exists to provide benefits to workers who are potentially adversely affected by trade. Though

continued on the next page

Box 8-2 — continued

the TAA has been in operation since 1974, it was changed substantially when it was reauthorized in the Trade Act of 2002. The Act consolidated the TAA and the North American Free Trade Agreement (NAFTA) TAA programs, expanded the eligibility to cover workers affected by shifts in production to certain other countries and to workers secondarily affected upstream or downstream from TAA-certified firms, expanded the training opportunities available, provided a health coverage tax credit, and promoted earlier intervention to allow more rapid enrollment, training, and reemployment of eligible workers. In FY 2007, firms covered by TAA certifications employed nearly 147,000 workers. Of these, over 49,000 eligible workers entered TAA training.

Of the eligible workers who took up benefits in the program in fiscal year 2007, 68 percent received some form of training, 59 percent received specific occupational training, and 13 percent received remedial training. The TAA program has also become successful over time in finding new employment for workers. While in 2001 only 63 percent of workers who exited the program were successfully reemployed, with a wage replacement rate of 87 percent, by 2006, 72 percent of workers exiting the program were reemployed, with a wage replacement rate of 89 percent.

In discussions of TAA reauthorization during 2007, debate developed in Congress over potential ways to expand the TAA program. Administration supported reforms to the TAA to improve the delivery of services, to offer greater flexibility, and to enhance training for eligible workers. Several legislators and policymakers, however, suggested a number of expansions to TAA benefits, most notably: (a) allowing service workers, in addition to manufacturing workers, to receive benefits; (b) allowing workers who produce service-related goods to receive benefits; (c) allowing entire sectors to be eligible for coverage under TAA benefits; and (d) increasing the amount of funding for benefits and training. The fiscal and economic costs of such an expansion were uncertain, and some estimates indicated they would be substantial (the Congressional Budget Office estimated an additional \$8.6 billion over the 2008-2017 period). Beyond the fiscal cost, however, there were additional concerns regarding economic efficiency. Extending TAA benefits to substantially more workers could lead to economic losses by creating longer-term, higher unemployment in the covered industries. Furthermore, service workers experience minimal wage loss during displacement when compared with manufacturing workers, indicating that expanding benefits to them may not be justified. Finally, there were worries that expansion would open the door for further, unwarranted expansions of TAA benefits.

Employer-provided pensions come in one of two types: defined benefit plans or defined contribution plans. Defined benefit pension plans specify an amount to be paid upon retirement, normally calculated using a formula based on an employee's years of service with the company and his or her earnings history. Defined contribution pension plans consist of an individual employee account into which the employer and/or employee contribute, usually at a fixed percentage of the employee's salary. Upon retirement, individuals have access to the balance in the account. Historically, defined benefit plans have been dominant, but over the past several decades, defined contribution plans have become more popular.

The first Federal protections of worker pensions were set by the Employee Retirement Income Security Act (ERISA) of 1974, which, among other things, established the fiduciary responsibilities of plan managers. It also established the Pension Benefit Guaranty Corporation, which protects the defined benefit plans (up to a statutory limit) of private sector workers against the possibility that an employer will fail to pay the promised benefits. The Pension Benefit Guaranty Corporation is funded primarily through premiums established by law paid by the sponsors of defined benefit plans.

There have been many changes in pension provision since ERISA was passed in 1974, including the increased prevalence of defined contribution plans and heightened concerns regarding underfunded private plans. The Pension Protection Act of 2006 accomplished several important goals. First, with regard to defined benefit plans, greater premiums were imposed on companies with underfunded plans. Moreover, caps on the amount employers could put into plans were raised to allow employers to build a cushion during good economic times.

The Pension Protection Act also addressed the growing use of defined contribution plans by including provisions that give workers more information and control over the investment of their account balances. It also provided incentives for employers to automatically enroll new employees in defined contribution plans, which likely will increase plan participation. Furthermore, after observing the potential for notable shortfalls in pension plan funding, the act also improved the process employed to value plan assets and liabilities. By utilizing fair-market valuations, the pension reform was able to limit the use of valuation-smoothing practices that often made it difficult to detect gaps in pension funding, thus helping to prevent funding shortfalls. The various reforms in the Pension Protection Act followed an initiative led by the President in his 2005 pension reform proposal. These reforms will make retirement incomes of millions of Americans more secure.

Looking Ahead

As we look toward the future, there are a number of education and labor issues that will likely receive attention. First, the distribution of income in the United States is more skewed toward the wealthy than in other developed countries. The lower level of intergenerational economic mobility in the United States, compared with other countries, suggests this is a concern that will persist. Second, a need for comprehensive immigration reform exists and will necessarily require education and labor policies to be balanced with border security. The Administration has been a strong supporter of such reform, and the ideas generated by the Administration will likely shape discussions in the years ahead.

Income Inequality

In addition to arguments centered in theories of social justice, high income inequality may create more tangible problems. Some argue that inequality leads to a breakdown in social cohesion, which lowers a population's aggregate health (even holding income constant). Violent crime also increases as gaps between the poor and wealthy widen. Apart from that, high inequality threatens to squander the abilities and talents of a larger number of children in poorer families if upward economic mobility is also low. This is the case in the United States, where intergenerational mobility is relatively low and income inequality is high.

The most common method for measuring income inequality is the Gini coefficient, which is a value that ranges from zero (perfect equality, or everyone has an equal amounts of income) to one (perfect inequality, or all income is held by one family). The U.S. Gini coefficient is currently 0.45, according to the most recent cross-country comparison measures from the Central Intelligence Agency (or 0.46, according to the most recent Census Bureau estimates, which measures U.S. inequality). This level of inequality exceeds that of most other developed countries, with many European nations having Gini coefficients below 0.30. In fact, the U.S. level of inequality exceeds that in some lesser developed countries such as Indonesia (0.36) and is comparable to Kenya (0.45). Only a few countries noticeably exceed the United States in terms of inequality (for example, Brazil (0.57) and South Africa (0.65)). In short, the level of inequality in the United States is unusually high given our level of development and wealth.

In addition to the Gini coefficient of the United States being high by international standards, it has steadily risen over the past several decades. Many researchers have tried to explain the reasons for the high and growing level of income inequality in the United States. Although some have attributed the

greater inequality to institutional factors such as the declining real value of the minimum wage and lower rates of unionization, institutional explanations fail to match some of the more recent trends in inequality that look beyond the Gini coefficient. Specifically, an analysis of the wage distribution of workers suggests that the gap between mid-level earners and low-wage workers has remained relatively steady over the past decade despite a declining real value of the minimum wage. Instead, the gap between the highest earners and midlevel earners has increased over the past decade.

This most recent analysis of trends argues that technological change since the 1990s, particularly in the area of information technology, has benefited workers who possess skills for which these advances are complementary. These include highly skilled workers who are in jobs where technology is used in combination with interpersonal skills, such as in management or professional positions. These jobs are not as easily automated or outsourced as the tasks performed by middle-educated white collar or production workers. Those with less education but wages in the middle of the distribution have seen the difference between their wages and the wages of the highest earners widen.

One way to bring more of the workforce into the group of highly skilled workers whose jobs are not easily automated or outsourced is to provide a greater emphasis on education, particularly in math and science. Recent successes in raising math test scores and expanding the Pell Grant program are important steps. A continuing focus on increasing educational attainment for children across the income distribution is critical. Increased access to quality education will create more productive workers and greater wages for an increasing share of the population, thereby closing income gaps.

Immigration Reform

The United States is a nation of immigrants and has long depended on the contributions of the foreign-born to its economy. A sound immigration policy must continue to foster the economic benefits of immigrants by recognizing that foreign-born labor complements the existing strengths of the U.S. workforce. Such an immigration policy should also promote fluency in English, which not only enhances the earnings potential of immigrants but also can help improve productivity. Furthermore, the flow of immigration must also be regulated and restricted to legal channels.

Residents of foreign countries will immigrate when the benefits of migration outweigh the costs. The benefits typically are the earnings differentials between the United States and their home country. Because of this, the United States usually attracts immigrants of all skill levels. The highly skilled are attracted to the greater earnings they receive in the United States given their skill level. Immigrants with fewer skills are attracted to the better wages and potential opportunities for their families.

The United States benefits from both types of immigration. The scientific establishment and high-technology industries have long benefited from workers with superior skills who immigrate to the United States and boost productivity. Immigrants with fewer skills perform jobs that complement existing labor in this country.

Education and labor policies have their roles in a comprehensive approach to immigration policy in the United States. While many immigrants are highly skilled, the average educational attainment of immigrants lags behind the native-born. Promoting English fluency is important because it increases labor market opportunities for immigrants, boosts their productivity, facilitates higher earnings, and promotes greater assimilation. To enhance the potential contribution of immigrants and to improve their well-being, it is also important to continue this Administration's sound education policies. NCLB, Reading First, and policies that increase access to higher education are all targeted toward students that need the most assistance, and the U.S. immigrant population stands to gain much from these programs. The U.S. economy will benefit in turn.

The issues the United States confronts with regard to its immigration policy are complex, and the Administration introduced comprehensive immigration reform as part of its domestic policy agenda in 2004. This proposal addressed many issues, including devoting more manpower to border security and increasing worksite enforcement of immigration laws. To ensure that the United States has an immigrant workforce that complements the existing U.S. workforce and meets economic needs, the Administration called for a flexible temporary guest worker program. To improve the productivity of immigrants, enhance their contributions to U.S. labor markets, and improve their welfare, assimilation proposals that promoted English and cultural literacy were advanced. The sweeping reforms of this proposal, however, failed to gain the necessary Congressional support. The need for these immigration reforms endures, and the Administration's plan remains one that is sound in terms of both securing borders and promoting economic progress.

Conclusion

The Administration has been committed to ensuring that the U.S. labor force remains productive for decades to come. Significant progress has been made in the U.S. educational system to help current and future students meet the ever-increasing and changing demand for skills in the more global,

competitive labor market. K-12 education has improved, test scores are rising, and students in underperforming schools now have more education options. Also, access to the U.S. higher education system has improved through expansions of the Pell Grant program and reforms enacted in the student loan program. Despite these successes, there are challenges that remain. Income inequality in the United States is high and suggests that a continued emphasis on education is necessary to raise the incomes of those in the lower half of the income distribution. Also, education and labor policy will need to be part of comprehensive immigration reform in the United States. This reform must reduce illegal immigration while continuing to allow the U.S. economy to benefit from legal immigrants.

Economic Regulation

The United States relies on the private sector to organize most economic activity. Through price signals and competition, markets allocate scarce resources to their highest-value uses, encourage businesses to avoid waste, and create incentives to invest in new technologies. Government plays a vital role in a market system by guaranteeing property rights and enforcing contracts, meaning that businesses and individuals can invest and trade with confidence that their agreements will be honored and free from fraud. A private enterprise system supported by consistent enforcement of laws protecting property and contracts has been at the heart of the American economy's tremendous prosperity and growth.

Although free markets produce the most efficient outcome in most cases, there are markets in which government intervention can increase economic efficiency. A market failure is an instance in which unregulated markets yield an outcome that is inefficient from society's point of view. As discussed in Chapter 2, regulation is important in financial markets because of imperfect information; for example, investors often have far less information about the firms they invest in than the managers who control those firms. Chapter 3 discusses the role of regulation when production of a good creates a negative externality, such as environmental harm, that does not represent a cost from the producer's perspective but imposes a cost on society. Regulation can mitigate the costs of negative externalities by ensuring that consumers and producers bear the full cost of their activities. Regulation can also reduce harm from *natural monopoly*, which occurs when a single seller can produce a good or service more cheaply than a competitive industry. In the presence of natural monopoly, an unregulated market will yield output levels that are too low and prices that are too high from society's perspective. In cases like these, where there is a specific market failure that can be effectively addressed by the government, regulation may be able to improve economic outcomes.

When unregulated markets produce inefficiencies, however, government is not always effective in eliminating or reducing the inefficiencies. There are several reasons that government is often inefficient in carrying out regulation. First, competitive market prices, which efficiently coordinate decisions in competitive markets, are unavailable where market failures have caused inefficiencies. The lack of reliable price information makes it difficult for government to design effective regulation. Second, government does not face market incentives to keep costs low and to use resources in the most efficient way possible. Third, government decision making reflects the results

of a political process in which decision makers may be motivated by narrow interests rather than the broader goals of society. Market participants may spend resources on attempts to influence the political process, when other uses of resources would produce greater public benefit. These factors mean that government intervention can have significant costs, which must be weighed against the potential benefits of addressing market failures.

One way government can mitigate these problems is by designing regulations that take advantage of markets or market mechanisms whenever possible. "Command and control" regulation, which replaces decentralized market choices with centralized decision making by government officials, exacerbates the three problems identified above. Regulation that relies on market mechanisms, however, can take advantage of individuals' information about costs and benefits, give individuals the incentive to make socially efficient decisions, and reduce the ways that narrow interests can influence policy choices.

This chapter reviews several areas in which markets have been affected by government policy in the past 8 years. The Administration has pursued market-oriented policies that favor individual choice over government decision making and has supported new rules when needed to address identified market failures. The Administration has also considered the effectiveness of the overall regulatory structure for financial markets in particular, a summary of which is provided in Chapter 2. The key points of this chapter are:

- Regulation is appropriate when, and only when, there is an important market failure that can be effectively addressed by the government. For example, the Administration has taken steps to reduce restrictive regulation of broadband markets, preserving an environment conducive to innovation and new investment. Conversely, the Administration supported new rules for financial reporting when it became clear that existing laws did not adequately reduce information asymmetries between investors and management.
- When the government intervenes to address market failures, it should attempt to take advantage of market-based incentives whenever possible. The Administration has helped ensure that scarce spectrum licenses are allocated more efficiently by increasing the amount of bandwidth allocated through auctions rather than through arbitrary allotments. In transportation, the Administration has supported market-based approaches to financing infrastructure such as roads and the air traffic control system.
- The Administration has endeavored to ensure that, when the government does intervene in markets, it does so in a way that supports the operation of competitive markets. When the market for terrorism insurance was disrupted following the attacks of 9/11, the Administration supported a temporary program of Federal support for terrorism insurance, and

the Administration has insisted that subsidies be phased out as private insurers adapt and return to the market. By supporting tort reform, the Administration has helped reduce the scope for class action lawsuits that create costs that outweigh their social benefits.

Telecommunications and Broadband

Digital technologies and the Internet are rapidly changing the market for telecommunications. Much of our system for regulating telecommunications, however, is designed to address local monopolies in telephone service. Regulation that was well suited to markets based on prior technologies should be revisited as markets change. Particularly when innovation is transforming an industry, outdated regulations can hamper investment and prevent new products and services from developing in the way that best serves consumers.

Governments regulate local telephone service because it has long been considered a natural monopoly. It is expensive to build and maintain a network of lines to homes and businesses, but once the lines are in place, the extra cost of providing each call is small. This means new entrants would find it very hard to challenge an incumbent phone company. A potential competitor would need to invest large amounts to duplicate an incumbent phone company's network of lines, and resulting competition would make it hard for either firm to charge rates high enough to pay for the investment. To prevent incumbent phone companies from charging monopoly prices, government regulates rates for local phone service. In addition, the Federal Government attempts to encourage competition in local service by requiring incumbent phone companies to make their lines available to competitors and by regulating the price for access to their lines.

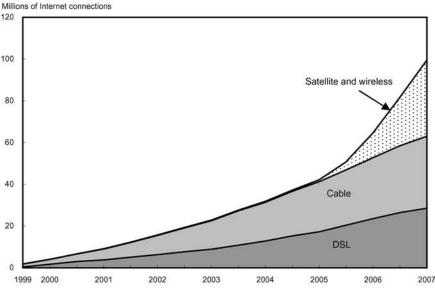
New Technologies Permit Greater Competition in Telecommunications

New technologies are changing the telecommunications market. A new market has developed in *broadband* Internet connections that can transmit data at high speeds. Broadband data can be delivered along the same physical lines that carry telephone signals, but can also be delivered via cable, via fiber optic connections, wirelessly via "third-generation" networks or satellites, or via newer technologies such as broadband over power lines. Because digital signals can be delivered in a variety of ways, the broadband market is more open to competition than the traditional phone system, which required copper wires connected to every home.

Unlike local phone service, for which Americans traditionally had only one provider available, the large majority of Americans can now choose among competing broadband providers. As of June 2007, 99 percent of U.S. ZIP codes had access to two or more high-speed Internet service providers, and more than three-quarters of ZIP codes were served by five or more providers. The price of broadband service has fallen in real terms even as the average broadband connection has become more advanced. Chart 9-1 shows that the total number of subscribers has grown dramatically, with an increasing variety of technologies used.

These same digital technologies, combined with large investments in wireless telephone networks, mean that consumers have new choices for local telephone service, a market situation that undermines the traditional arguments for regulation in local telephone markets. Between 2002 and 2006, the number of households that use a wireline for their primary phone connection fell from 102 million to under 90 million, and the number of "wireless-only" households increased from 2 million to 19 million. That new competitors are challenging the longstanding monopoly position of local telephone providers raises questions about the best approach to regulating local telephone service going forward.

Chart 9-1 High-Speed Internet Lines in the United States by Type of Connection, 1999-2007 Broadband connections have grown rapidly.



Note: Fiber and powerline connections are a small fraction of connections and have been omitted. Source: Federal Communications Commission.

Telecommunications Regulation in an Evolving Market

The Administration's approach to broadband regulation has recognized that a dynamic and competitive broadband market should not be governed by rules designed for monopoly telephone services. That does not mean that no rules are appropriate. Broadband companies should disclose the policies they use in managing their networks; if consumers know what they are getting, competitive pressures will offer the most effective means of providing consumers with low prices and high-quality service. However, prescriptive regulation of a growing, dynamic market carries two risks. First, because the market continues to evolve, a regulation aimed at temporary or hypothetical problems may cause permanent harm by preventing new and innovative ways of delivering service. Second, regulations that make it harder for broadband providers to price or manage their networks effectively may lower the incentives to invest in new capacity, ultimately harming consumers.

Following the principles outlined in the previous paragraph, the Administration has supported policies that avoid unwarranted regulation of the broadband market and encourage private sector investments in the market. In a series of decisions, the Federal Communications Commission (FCC) determined that broadband service providers would not be regulated as a local phone service; in particular, they are not required to make their high-speed lines available to competitors at a regulated price. While government-mandated access can facilitate competition between a large incumbent provider and potential competitors, applying it to an emerging industry that features competing technologies would have risked undermining incentives to invest in new capacity. In fact, the private sector has invested more each year in building broadband networks, in real terms, than the Federal Government invested annually in the Interstate Highway System in the 1950s. These investments in turn have meant more options for consumers, and ultimately more competition in the broadband market.

There is certainly a role for telecommunications regulations that target specific failures in the telecommunications market. For example, 911 services provide external benefits by making it more likely that emergencies are promptly reported to emergency services. The Administration supported the FCC's efforts to ensure that 911 services are available for subscribers of Voice over Internet Protocol telephone providers. When there is a role for regulation, the rules should facilitate competition and consumer choice whenever possible. In implementing the "Do Not Call" list, for example, the Federal Trade Commission did not dictate a market outcome but created a way for people to decide whether they wanted to receive certain telemarketing calls (see Box 9-1).

Box 9-1: The Do Not Call List

Telemarketing can be an effective way to inform people about products and services, but it generates a negative externality by wasting the time of those who are not interested in the product being sold. Although the harm from each call may be small, many consumers have found the aggregate externality to be quite large. The policy behind the Do Not Call list is to permit consumers to decide for themselves whether the benefits of telemarketing calls outweigh the costs. Individuals who do not want to receive calls simply add their phone numbers to a central registry, and telemarketers must delete any numbers listed in the registry from those they plan to call. The program has proved quite popular: as of 2007, according to one survey, 72 percent of Americans had registered on the list, and 77 percent of those say that it made a large difference in the number of telemarketing calls that they receive (another 14 percent report a small reduction in calls). Another survey, conducted less than a year after the Do Not Call list was implemented, found that people who registered for the list saw a reduction in telemarketing calls from an average of 30 calls per month to an average of 6 per month.

Spectrum Policy

Since the 1920s, the U.S. Government has required a license of anyone who transmits radio signals on most frequencies. Radio communication works by transmitting a signal on a specific frequency of the electromagnetic spectrum. Mandatory licensing prevents interference: when multiple signals are broadcast on the same frequency, it is difficult to receive any of those signals clearly. Interference is an example of an externality, because when one person decides to broadcast a signal, he or she does not take into account the harm this causes to people who are attempting to send or receive other signals on the same frequency.

While licensing addresses the externality problem, it puts the government in the position of allocating a scarce and valuable resource. Given spectrum's value, it is important to allocate it efficiently. Radio waves can be used in many different ways: for two-way communication, to broadcast radio or television programs, and for radar, among other uses. The more spectrum is set aside for broadcast television stations, for example, the less spectrum is available for wireless phones. The challenge of spectrum licensing is to ensure that spectrum is divided among competing uses in the way that creates the greatest benefits to society.

Ordinarily, markets allocate scarce resources using prices, ensuring that resources are dedicated to their highest-value uses. For many decades, however, the U.S. Government awarded spectrum licenses through an administrative process, deciding both how spectrum would be used and who would be allowed to use it. Prospective users submitted applications to the FCC, and the FCC attempted to identify the applicant who would offer the greatest public benefit.

The optimal allocation of spectrum, however, depends on information not easily available to government, from technical information about how much spectrum is needed to effectively carry out different activities and how that is likely to change in the future, to questions about the value to consumers of the various services that require spectrum. Administrative assignment of licenses also gives firms no incentive to find ways to use spectrum more efficiently, because they cannot change their method of transmission and cannot sell or lease unused capacity to others who would use spectrum in a different way.

The United States began using a more market-oriented approach to allocating spectrum rights in 1994 with the first auctions of radio spectrum for use in wireless phones. In the auctions, the FCC announces the portion of the spectrum for which licenses will be made available, and all interested parties are invited to submit bids. By 2008, the FCC had held more than 70 auctions that raised tens of billions of dollars for the Federal Government. More important than the revenue, however, is that auctions ensure that spectrum will go to those who are able to use it in the most efficient way. When one company outbids others, it generally means that the winner believes it can produce more value using that spectrum, by using it more effectively or in a more innovative way than its competitors. Instead of a government evaluation of which applicant is best able to use spectrum to serve the public, the bidding process allocates licenses based on what companies reveal about the benefits they can actually produce.

The Administration has worked to increase the role of auctions in allocating spectrum. Most spectrum remains under licenses granted long ago; as of 2001, less than 7 percent of the most valuable spectrum was available for allocation through market mechanisms. One obstacle to reallocating spectrum is that incumbent license holders have a strong incentive to retain spectrum they use, even if others might be able to use it more efficiently. One way the Administration has tried to overcome this obstacle is by making it easier for incumbents to transfer their spectrum to others. In October 2003, the FCC established new procedures for holders of existing licenses to more easily sublicense their spectrum to third parties, helping to foster secondary spectrum markets. More broadly, the Administration has supported policies under which incumbents are compensated as part of a process that reduces the total amount of spectrum they use. Two major spectrum auctions using

this general approach since 2001 have freed up significant bands of spectrum, nearly doubling the amount of spectrum allocated through auctions for wireless use.

In early 2008, the FCC held an auction to allocate spectrum that will be vacated when the United States makes the transition to digital television broadcasting, pursuant to the Digital Television Transition and Public Safety Act of 2005. Digital signals allow broadcasters to transmit television programming more efficiently, so that the spectrum that was used to broadcast a single analog television channel is now able to carry multiple digital channels. One result of the transition is that spectrum that was previously used for channels 52 to 69 (between 698 and 806 megahertz (MHz)) will become vacant. Television stations using other frequencies will be able to transmit using digital signals. Much of the newly vacated spectrum was auctioned for wireless communications use.

In December 2004, the President signed the Commercial Spectrum Enhancement Act, which created a mechanism for transferring spectrum from government use into the private sector. Government users of these frequencies were given the opportunity to switch to other parts of the spectrum, with the transition costs (including new equipment) paid for using a portion of the auction proceeds. Under the Act, the reallocation of spectrum was not to take place unless the auction raised sufficient funds to compensate the affected agencies. In fact, auction revenues were several times what the agencies had reported was necessary to compensate them for the switch. The large difference between the market value of spectrum and the costs of the transition demonstrate the large efficiency gains available from reallocation of spectrum. Together with the transition to digital television, the Commercial Spectrum Enhancement Act has freed up 152 MHz of spectrum to be auctioned for wireless communications use, and all but 10 MHz had been auctioned by 2008. This represents an increase of 80 percent over spectrum available for mobile telephones at the beginning of this Administration.

The President's Spectrum Policy Initiative for the 21st Century, which was announced in 2003, requires a studied look at the current spectrum management policies and practices in the United States. As part of this program, the Commerce Department's National Telecommunications and Information Administration has worked to establish or expand incentives for promoting efficient spectrum use by the private sector as well as Federal agencies, using market-based approaches wherever appropriate. Areas of particular interest have included revising the traditional "command and control" management of Federal spectrum, developing user fees that reflect market worth, and creating property rights that would permit spectrum trading.

Tort Reform

Even when businesses are not regulated directly by the government, they face the possibility of being sued under the tort system. "Tort" refers to the body of law that permits individuals to sue others, seeking compensation when they have been accidentally or deliberately injured. Many tort suits arise from harms involving strangers, such as automobile accidents, but an important class of torts arises when buyers of a good or service sue the seller in response to harm related to the purchase of the good or service.

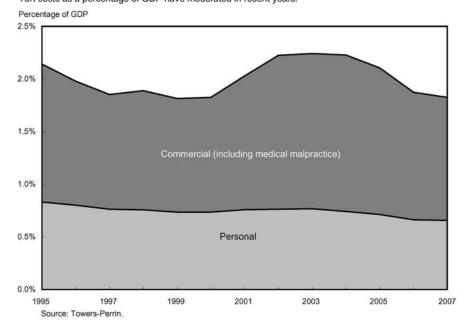
Tort law can be a response to the market failure of imperfect information. Buyers often cannot tell ahead of time whether a product is safe or a service provider is qualified. By providing buyers with redress when a product or service they buy causes harm, tort law can encourage sellers to exercise appropriate care and to make sure buyers are getting what they expect when they enter into a transaction.

Like more direct forms of government regulation, tort law establishes rules that firms must follow to avoid being penalized. Tort law can increase sellers' incentives to provide safe, high-quality products and services. It also compensates victims of some accidents, providing a form of insurance when an accident is caused by another's negligence. However, the tort system is an expensive form of regulation, and tort law can be abused in ways that make its costs to society greater than its benefits. One study found that out of each dollar of costs in the tort system, only 46 cents goes to compensating plaintiffs for their losses. This makes the tort system much more expensive to administer than other systems that compensate victims for unexpected losses, such as worker's compensation.

Total tort costs represent a significant part of U.S. economic activity. Tort costs in 2007 totaled \$252 billion, or 1.83 percent of gross domestic product (GDP), including damages paid to compensate plaintiffs, costs of defense, and administrative costs. As shown in Chart 9-2, more than half of tort costs come from lawsuits against businesses (including doctors) as compared with personal lawsuits such as automobile accidents.

The Administration has worked to reduce the scope of lawsuits in areas where costs often outweigh benefits. A type of lawsuit that may be especially susceptible to abuse is the class action suit, in which a single suit is filed on behalf of a large number of plaintiffs with the claim that everyone in the class has been harmed by the defendant. Class actions can be efficient in some cases in which a large number of people have suffered a similar type of harm, because they eliminate the redundancy of multiple courts exploring similar sets of facts, and because absent a class action, each individual may have little incentive to bear the costs of a lawsuit. A potential problem with class action lawsuits, however, is that plaintiffs' lawyers may have incentives that are not

Chart 9-2 U.S. Tort Costs, 1995-2007 Tort costs as a percentage of GDP have moderated in recent years.



aligned with those of their clients. Because individual plaintiffs may not have a large stake in the outcome, they may not effectively monitor their attorneys, and plaintiffs' attorneys may negotiate a settlement with the defendant that works well for the attorneys but does not represent meaningful redress for the people actually harmed.

In 2005, the President signed the Class Action Fairness Act, which contained provisions aimed at reducing the number of abusive class action lawsuits. An important set of reforms addressed "coupon settlements," one arrangement that may often serve the interests of defendants and plaintiffs' lawyers at the expense of plaintiffs themselves. In a coupon settlement, members of the affected class receive coupons that can be redeemed for discounts on the defendant's product, but attorneys receive what may be a very large cash payment based on the nominal value of the coupons. For example, in one case, plaintiffs alleged that a video rental company had failed to disclose its late-fee policy. Members of the class received coupons worth \$1 off a future rental, while the plaintiffs' attorneys received a fee of \$9.25 million. Experts estimated that at most 20 percent of the coupons would be redeemed. Moreover, it is plausible that the coupons were more effective as a marketing effort by the defendant than as a deterrent to poor disclosure policies. The Act reduced possible abuse of settlements through

a number of reforms, including instructing courts to scrutinize settlement agreements more carefully and a requirement that attorney fees be based on the value of coupons actually redeemed, rather than coupons issued.

The Act also took steps to curtail "forum shopping"—that is, efforts by plaintiffs to choose a jurisdiction that they expect will be friendly to their case. Lawsuits are generally tried in a jurisdiction that has some connection to the parties, but because class actions often include a large number of plaintiffs nationwide, attorneys had the opportunity to initiate a lawsuit in a location where they felt either the court or the local jury pool would be most favorable to their case. The Class Action Fairness Act addresses this issue by making it easier for defendants to have their case heard in Federal court, reducing opportunities for plaintiffs to shop around for a jurisdiction in which they are likely to have an advantage.

Corporate Governance Reform

For small businesses, a firm's owner is likely to be its manager. But large corporations may be owned by thousands of shareholders at once, and such a large, dispersed group must delegate management to a smaller group of people. This separation of ownership and control makes it possible to maintain central control over a firm's operations while raising the large amounts of capital needed for many corporate investments. But it also introduces the problem of ensuring that managers make decisions that are in the best interests of the shareholders. Corporate governance refers to the systems through which shareholders are able to control the choices of those who manage the firm on their behalf.

Regulation of corporate governance arises from the fact that managers know more about the corporation's situation than the shareholders on whose behalf they are making decisions. Most shareholders would like the corporation's managers to make decisions that maximize profits. To encourage this, corporate boards attempt to design incentives that reward managers when their actions increase profits. For these incentive systems to work, however, they must be based on accurate financial reports that are generated in a transparent way.

A corporation will be better off if it can ensure accurate financial reporting, because if investors doubt the information they receive, they will be less willing to invest. But it is difficult for shareholders to observe the mechanisms that a corporation uses to improve accuracy and to prevent management from making misleading reports. Furthermore, shareholders are a large, dispersed group, so that an individual shareholder will not receive the full benefit of costly efforts to monitor management. In the face of these challenges to

private monitoring of financial reporting, the U.S. Government attempts to ensure the accuracy of financial reporting through the securities laws enforced by the Securities and Exchange Commission (SEC).

Beginning in the late 1990s, an increase in earnings restatements and some large accounting scandals at major companies led to concerns that corporations had been misleading investors about the extent of their profits. In March of 2002, the President proposed a plan to improve corporate governance, centered on three principles: accuracy and accessibility of information, management accountability, and auditor independence. Congress later passed the Sarbanes-Oxley Act of 2002, which incorporated these three principles by introducing a number of changes to U.S. securities laws. Some of the key reforms are described in the following paragraphs.

To promote greater accuracy and accessibility of information, Sarbanes-Oxley requires corporations to disclose more information about internal control structures and the members of their audit committees. It also significantly increases the penalties for criminal fraud, increasing the maximum term for securities fraud to 25 years in prison and permitting terms of up to 20 years for destroying documents.

To promote greater management accountability, Sarbanes-Oxley requires chief executive officers and chief financial officers to certify the accuracy and completeness of financial reports that they file with the SEC and makes it a criminal offense to knowingly certify a false report. In addition, executives must forfeit any bonuses or other incentive compensation to which they would have been entitled during the year after a false report is issued.

To increase auditor independence, the Act creates the Public Company Accounting Oversight Board, which oversees the firms that audit corporations' financial reports. The Board conducts regular reviews of accounting firms' activities, and if it discovers problems it can impose sanctions and can bar a firm from providing audit services to corporations listed on U.S. securities exchanges. In addition, the Act creates new requirements to ensure that accounting firms are more independent of a corporation's management. Accounting firms are no longer permitted to sell certain non-audit services to their corporate audit clients, and a company's accountants must be chosen by a committee of directors who have no ties to management.

Since passage of the Sarbanes-Oxley Act, many have expressed concern about the cost of compliance with its requirements. There is evidence that some firms, especially smaller firms and foreign firms, have chosen to cease or to avoid trading on U.S. public markets because of the expense of complying with Sarbanes-Oxley, although there is no definitive evidence on how large this effect has been. While some increase in costs is the inevitable result of stricter reporting standards, it is important to ensure that the increased costs are justified by greater accuracy and transparency. Many of the specifics of Sarbanes-Oxley depend on rules and standards under the control of the SEC

and the Public Company Accounting Oversight Board. As regulators and corporations become more familiar with the implementation of the Act, and as reporting companies adapt their practices and regulators adjust rules to eliminate inefficient requirements, the costs should fall.

Insurance Against Terrorism and Natural Disasters

When disasters occur, such as the terrorist attacks of September 11, 2001, or hurricanes such as Katrina in 2005 or Ike in 2008, the government plays an important role in providing emergency relief and helping communities to recover. At the same time, insurance coverage is vital in helping individuals and businesses recover from catastrophic events. Most insurance is provided by the private sector, regulated to make sure that insurers are able to repay claims if they come due. But disaster relief acts as a form of public sector insurance, and this means that the market for insurance against catastrophic events is inevitably affected by government policy. To preserve private insurers' important role in mitigating disasters, government disaster relief should help the Nation recover from major losses without discouraging the operation of private insurance markets.

Insurance markets give individuals and businesses a way to reduce risk. For example, anyone who owns a building faces a small risk of losing property in a fire. Rather than accepting a small probability of suffering a large financial loss, insurance allows one to substantially reduce this risk by paying a regular fee, called a *premium*, in exchange for compensation for some or all of the losses sustained in the case of a fire. Because only a small fraction of the population will suffer a fire in any given period, the premiums from the overall pool of insured people provide funds to pay for the damage suffered by those few who do suffer fires.

Insurance markets work most effectively if premiums are tailored to risks that are observable or can be controlled by the insured customer. If individuals with different risk profiles are grouped together and charged the same premium, then those who in fact have low risks are being charged premiums that are greater than the expected value of their losses and may choose to go without insurance. Differences in premiums can also lead individuals to make more efficient choices about what risks to take and how best to mitigate risks—for example, if driving a safer car means paying lower insurance premiums, people will have an incentive to choose safer vehicles. Similarly, it may be more expensive to live in some coastal areas because a high risk of storm damage leads to higher insurance premiums. This means that when

home buyers decide whether to live in those areas, they will take into account the extra cost associated with potential storm losses.

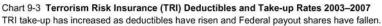
For risks such as house fires or automobile accidents, the fraction of the population that will suffer losses each year is relatively stable. This means that insurers can feel reasonably confident about what level of premiums will be sufficient to cover the year's losses. Losses from major catastrophes are much more difficult to predict—for example, flood losses in 2005 related to Hurricane Katrina were many times larger than the annual flood losses from preceding years. This creates the risk that total losses in a year will be greater than the funds available to the insurer to pay claims. Insurance companies address this risk by purchasing reinsurance for large losses: in exchange for premiums, reinsurers agree to bear a fraction of insurer's losses if those losses exceed a certain amount. Because reinsurers typically diversify their risks internationally, they are in a position to pay claims arising from catastrophic losses in a single country.

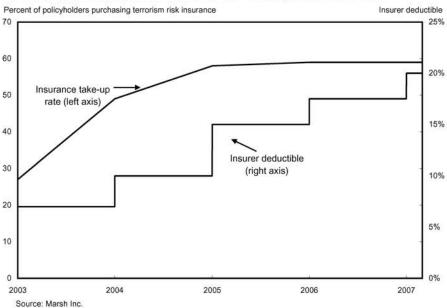
The 9/11 attacks seriously disrupted the market for terrorism insurance. Prior to the 9/11 attacks, the risk of terrorist attacks was covered by most commercial insurance policies. In the months following the attacks, however, insurers were forced to reassess the likelihood of potential terrorist attacks and the capital reserves they would require, and many insurers began excluding terrorism risk from commercial insurance policies. Congress passed the Terrorism Risk Insurance Act (TRIA) to address this disruption in the market and to help reassure businesses that they could obtain insurance against the commercial risks associated with the threat of terrorism. Under TRIA. the U.S. Government provides reinsurance for terrorism losses: in the event of a claim for terrorism-related losses, an insurer would pay the claim to the insured party and then be compensated by the Government for a large share of the losses above certain limits. Insurers do not pay premiums up front for this reinsurance. Instead, TRIA specifies that assessments from insurers would be made after the fact.

TRIA was intended to address a sharp temporary disruption in insurance markets, not to be a long-term subsidy to insurers that provide terrorism coverage. Providing insurance at subsidized rates reduces the efficiency of the insurance market. First, it undermines the incentive effects of premiums that reflect expected losses as discussed above. This can encourage people to undertake risks that they would otherwise not be willing to bear and discourages people from taking actions that would mitigate risk. Second, government-provided reinsurance undermines the private market for reinsurance, discouraging innovation and efficient pricing of risk.

Because of these problems with government-subsidized insurance, the Administration has insisted that TRIA should be a temporary program and that subsidies should be reduced as markets adjust to the post-9/11 environment. The subsidies provided by TRIA have gradually been reduced. The insurer's deductible was initially 7 percent of the insurance company's previous year's premiums, and this fraction had been increased to 20 percent by 2007. In addition, the Federal share of insured losses has been reduced from 90 percent to 85 percent, and as of 2007, Federal payments will not be made unless insured losses from a terrorist event exceed \$100 million. The program is scheduled to expire in December of 2014.

The market in terrorism insurance has grown since 2002, even as subsidies for terrorism insurance have been reduced. As shown in Chart 9-3, the fraction of policyholders purchasing terrorism insurance increased from 27 percent in 2003 to 59 percent in 2007, even as deductibles for the Federal reinsurance program were increasing. As the private market develops to accommodate the post-9/11 environment, government assistance should be eliminated to allow the market to operate efficiently.





Roads

The Nation's roads are built and maintained primarily by State and local governments; the Federal Government's role has been to help fund these activities. Like some other infrastructure projects, roads are often natural monopolies: once a road is constructed, it is usually less expensive to accommodate extra traffic on that road than to construct a competing road. But rather than organizing roads under a regulated, private sector monopolist, the government generally owns and operates the roads itself—at least in part because of the expense that would be involved in limiting access to roads to paying drivers and collecting revenue from road users.

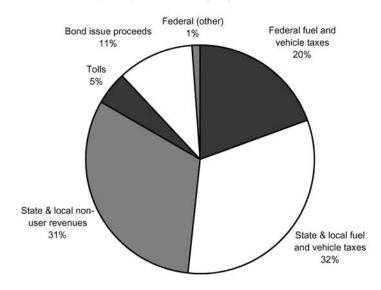
When government provides a service itself to an identifiable subset of society, it is often most efficient to pay for the service through user fees that reflect the marginal cost of providing it—that is, the extra cost created by each user. This approach, when practical, both ensures that the service will be used when its value is greater than its costs and provides information about whether and when capacity should be expanded. User fees that reflect marginal costs will lead drivers to make efficient decisions, choosing to drive when the benefits they receive are greater than the costs their trip generates.

On an uncongested road, the marginal congestion imposed by each driver is very small, and fees that reflect marginal cost may often be insufficient to pay the fixed costs of building and operating the road. In this case, the goal is to finance roads in a way that does as little as possible to discourage efficient road use. When a road is congested, however, each trip adds to the delays experienced by other drivers, meaning that the marginal cost of each trip can be quite large. As discussed below, efficient user fees will reflect these congestion costs.

Broadly speaking, roads in the United States are financed in one of three ways: through general revenues such as property or sales taxes, through fuel taxes and other vehicle fees, and through tolls. Chart 9-4 shows that about a third of expenditure on roads is raised through taxes unrelated to road use, largely at the State and local level. About half is raised through fuel and vehicle taxes, and only about 5 percent through tolling (11 percent is funded through bond issues that will be repaid from one of these three revenue sources). Almost all Federal expenditure is funded by fuel and vehicle taxes, reflecting an early decision that the Nation's Interstate Highway System should be funded by the drivers who benefit from it.

One advantage of funding roads with fuel taxes rather than general revenues is that they approximate a user fee: roads are paid for by those who use them, and on average people who drive more contribute more of the cost of providing the roads. However, fuel taxes do not do a good job of capturing the marginal cost of using the road. One of the most important

Chart 9-4 Highway Expenditures by Revenue Source, 2006
Fuel and vehicle taxes represent just over half of highway revenue.



Source: Department of Transportation (Federal Highway Administration).

costs associated with road use is congestion: when a driver uses a congested road, she or he increases the delays experienced by everyone else. The increased delay is a negative externality, because each driver does not take into account these costs when deciding when, where, and whether to drive. The fuel tax fails to account for this negative externality, because drivers pay the same amount whether driving on an urban highway at rush hour or on an empty rural road. Many economists point out that fuel taxes can be effective in addressing some negative externalities directly related to fuel use, such as environmental degradation and petroleum dependence. But this does not imply that fuel taxes are the best way to finance roads. In fact, as vehicles become more fuel efficient, they will produce less revenue for each mile driven, so that the same amount of driving will contribute less and less highway revenue.

The Administration has supported exploring ways to begin moving away from fuel taxes toward forms of direct pricing, such as tolls, that would be more effective at matching what drivers pay to the costs they impose. Not only are tolls independent of a vehicle's fuel efficiency, but they also have the flexibility to address congestion externalities because they can be adjusted according to time and place, so that drivers pay more to travel on busy routes

or during busy times. Such tolls encourage drivers to drive at times and places where they will contribute less to the delay experienced by others on the road. Furthermore, tolls that reflect how busy a road is can provide information about how much drivers are willing to pay to use each road. This information can help improve decisions about new investments, by providing objective measures of how valuable roads are to drivers.

By linking revenue to particular road projects, tolling can facilitate private investment in building and maintaining roads. This increases the likelihood that investments will be based on a careful analysis of a project's benefits and costs. When funding is controlled by the government, decisions about road investments are likely to be influenced by a political process that takes place among people with competing interests, and the process frequently does not reflect an objective cost-benefit analysis. Tolling permits revenues to be collected at the point of road consumption and directed to those responsible for building and operating the road. Toll revenues can give investors strong incentives to pursue only investments with revenues that exceed their costs, so that they will not ignore projects with a large revenue-to-cost ratio and will not spend money on projects that do not have a positive return (see Box 9-2). However, private infrastructure investments may not give weight to public benefits of an investment that are not reflected in the project's revenues, such as increased safety or reduced pollution. For projects for which such benefits are substantial, it is important to have a public partner that can contribute funding that reflects the public benefits of the project.

To encourage development of more efficient forms of highway finance, the Department of Transportation has entered into Urban Partnership Agreements with several metropolitan areas that will undertake programs that include congestion pricing or variable toll demonstration projects. Calling for broader reform to highway finance, the Secretary of Transportation proposed a plan in 2008 to reform Federal highway policy by initiating a movement away from the fuel-tax-based approach to funding highway investment to methods that link fees more closely to use of the road system, such as congestion pricing. The Secretary also proposed expanding support for private sector participation in road projects, including removing current Federal statutory and regulatory barriers to tolling on Federally supported highways.

Box 9-2: The Role of Incentives in Road Investments

When private sector road operators rely on user fees for their revenue, the potential for profit gives them incentives to invest in projects that improve service to the public. Examples of such investment can be seen on the Indiana Toll Road, which provides a key route between Chicago and Ohio. In 2006, the State agreed to turn over operations on the road to the Indiana Toll Road Concession Company under a 75-year lease. Within the first year, the company installed electronic tolling facilities, easing congestion and saving commuters valuable time. The company also spent \$250 million to add lanes to highly trafficked areas of the road. Because the company's profits depend on the toll revenues it generates, the operators have an incentive to improve road conditions when the cost of doing so is less than the extra revenue it gains from improving service to drivers.

While some State and local governments use cost-benefit analyses to guide their infrastructure investment decisions, many others fail to make the investments that offer the greatest net benefits. Traffic signal optimization is one area in which municipal governments have frequently failed to invest resources despite very high expected returns. Over time, pedestrian and vehicle traffic patterns change substantially as cities grow and residential and commercial areas develop. Retiming traffic signals to optimize traffic flow can reduce vehicle stops, which in turn reduces delays, fuel use, and vehicle emissions. Transportation engineers recommend retiming signals every 3 to 5 years, but a recent survey showed that only 60 percent of State and local traffic agencies retime their signals at least every 5 years.

Signal optimization is relatively inexpensive, and recent projects have seen benefits in time and fuel savings exceed their cost by more than 40 to 1. Cities like Nashville, Austin, and Portland, Oregon, have invested in signal optimization plans and seen improvements in traffic delay and air quality, but State and local agencies often fail to allocate resources to signal optimization programs. Many retime their signals infrequently or conduct traffic assessments only in response to citizen complaints. Local governments will better serve drivers if they follow the private sector's lead and base their investment decisions more heavily on costbenefit analysis.

Aviation

Like roads, airports and air traffic control services are often provided by the public sector. As with fees to finance roads, it would be economically efficient to set aviation fees where a competitive market would set them, at marginal cost. In fact, aviation fees bear little relationship to marginal costs. Airport landing fees are generally based on aircraft weight, and air traffic control operations are funded largely by a ticket tax of 7.5 percent on each airline ticket. Air traffic control operations are also funded by fuel taxes and additional fees.

This approach to financing means that fees do not reflect marginal costs in at least two important respects. The cost of air traffic control services depends on the number of planes, not on the size of those planes or the number of passengers each carries. Similarly, each flight at a congested airport contributes approximately the same amount to congestion, regardless of the plane's size. Because fees are roughly proportional to the size of each plane and the value of tickets sold, an airline that flies a single plane with 200 passengers might pay roughly the same fees as an airline that flies 10 planes with 20 passengers each. The second airline, however, generates approximately 10 times as much congestion and requires about 10 times as much air traffic controller time.

The result is that airlines do not take into account the external cost they impose when they schedule a flight using a crowded airport. Airlines schedule frequent flights with small aircraft rather than fewer flights with larger aircraft. Overcrowded airports mean delayed flights, and delays have been increasing in recent years, with congestion at the Nation's busiest airports a significant contributing factor. Delays were especially severe in New York City airports in the summer of 2007; for example, at John F. Kennedy International Airport (JFK), only 56 percent of flights arrived on time during the summer months.

One method the government can use to address overcrowding is to place caps on the number of flights permitted to land at an airport, in order to limit those flights to the capacity the airport can accept. When the Federal Aviation Administration (FAA) establishes a cap at an airport, each airline is assigned "slots" permitting its aircraft to land or take off at particular times. Delays are thereby reduced by excluding other airlines from the airport. In the past, slots have been assigned through a negotiated process, and this approach was used in 2008 at JFK and Newark Liberty International airports after severe delays in the summer of 2007.

A problem with this approach is that the government must decide whose planes can and cannot land at the airport. The need to obtain slots from the government acts as a barrier to new entry at the airport, so that passengers are

denied the benefits of competition. Even if the FAA makes wise decisions about which airlines should initially receive slots when a cap is imposed at an airport, this allocation will become inefficient over time. But the FAA will find it difficult to further reallocate the slots regardless of how inefficient a given distribution of slots becomes: given their scarcity, slots are very valuable, so an incumbent authorized to use the slot will go to great lengths to maintain its allocation.

Recognizing the inefficiency that results when the government decides which airlines have access to an airport, the Administration has sought to use market-based mechanisms to allocate scarce airport capacity. One approach is to allow airports to charge landing fees in a way that reflects the greater demand to operate at certain times of the day. The Department of Transportation published guidance in 2008 clarifying that airports have the authority to charge congestion-based prices that would help encourage planes to use the airport when it is less busy, as long as the total charges imposed do not exceed the eligible costs of operating the airport. Under such an approach, airlines—and ultimately passengers—would decide whether it was worth paying a premium to schedule a flight at the most popular time.

Another approach with a similar result is to auction slots so that each slot is used by the airline that values it most highly. As with congestion-based landing fees, an auction would drive up the price of slots at the busiest times, but it would be less expensive to schedule a flight when the airport is less crowded. Auctions would permit new entry by airlines if they believed they could serve consumers more efficiently. In New York City, the Administration issued rules that would implement this approach for a limited number of slots. Apart from efficiently allocating the slots within the cap, an auction would reveal the market value of the other slots held by the airlines. This could help encourage airlines to trade slots among themselves if they discover that particular slots would be worth more in the hands of a different airline.

Conclusion

Government can play an important role in addressing the market failures associated with natural monopoly, externalities, and imperfect information. However, it would be naive to assume that government can eliminate all inefficiency in a market. Government lacks the information and incentives that make competitive markets work efficiently. Before intervening in a market, policymakers should first examine whether the inefficiencies of government involvement are outweighed by the inefficiencies of an unregulated market.

Regulation will be most efficient if it takes advantage of market mechanisms where possible. The Administration has taken an approach to regulation that supports competitive markets and attempts to take advantage of private sector incentives rather than working against them. There are many opportunities to further improve the efficiency of regulations, and this chapter has laid out a number of areas where such improvements are possible.

Appendix A REPORT TO THE PRESIDENT ON THE ACTIVITIES OF THE COUNCIL OF ECONOMIC ADVISERS DURING 2008

LETTER OF TRANSMITTAL

Council of Economic Advisers Washington, D.C., December 31, 2008

Mr. President:

The Council of Economic Advisers submits this report on its activities during calendar year 2008 in accordance with the requirements of the Congress, as set forth in section 10(d) of the Employment Act of 1946 as amended by the Full Employment and Balanced Growth Act of 1978.

Sincerely,

Edward P. Lazear, Chairman Donald B. Marron, Member

Council Members and Their Dates of Service

Name	Position	Oath of office date	Separation date
Edwin G. Nourse	Chairman	August 9, 1946	November 1, 1949
Leon H. Keyserling	Vice Chairman	August 9, 1946	
	Acting Chairman	November 2, 1949	
	Chairman	May 10, 1950	January 20, 1953
John D. Clark	Member	August 9, 1946	
	Vice Chairman	May 10, 1950	February 11, 1953
Roy Blough	Member	June 29, 1950	August 20, 1952
Robert C. Turner	Member	September 8, 1952	January 20, 1953
Arthur F. Burns	Chairman	March 19, 1953	December 1, 1956
Neil H. Jacoby	Member	September 15, 1953	February 9, 1955
Walter W. Stewart	Member	December 2, 1953	April 29, 1955
Raymond J. Saulnier	Member	April 4, 1955	
	Chairman	December 3, 1956	January 20, 1961
Joseph S. Davis	Member	May 2, 1955	October 31, 1958
Paul W. McCracken	Member	December 3, 1956	January 31, 1959
Karl Brandt	Member	November 1, 1958	January 20, 1961
Henry C. Wallich	Member	May 7, 1959	January 20, 1961
Walter W. Heller	Chairman	January 29, 1961	November 15, 1964
James Tobin	Member	January 29, 1961	July 31, 1962
Kermit Gordon	Member	January 29, 1961	December 27, 1962
Gardner Ackley	Member	August 3, 1962	
	Chairman	November 16, 1964	February 15, 1968
John P. Lewis	Member	May 17, 1963	August 31, 1964
Otto Eckstein	Member	September 2, 1964	February 1, 1966
Arthur M. Okun	Member	November 16, 1964	
	Chairman	February 15, 1968	January 20, 1969
James S. Duesenberry	Member	February 2, 1966	June 30, 1968
Merton J. Peck	Member	February 15, 1968	January 20, 1969
Warren L. Smith	Member	July 1, 1968	January 20, 1969
Paul W. McCracken	Chairman	February 4, 1969	December 31, 1971
Hendrik S. Houthakker	Member	February 4, 1969	July 15, 1971
Herbert Stein	Member	February 4, 1969	
	Chairman	January 1, 1972	August 31, 1974
Ezra Solomon	Member	September 9, 1971	March 26, 1973
Marina v.N. Whitman	Member	March 13, 1972	August 15, 1973
Gary L. Seevers	Member	July 23, 1973	April 15, 1975
William J. Fellner	Member	October 31, 1973	February 25, 1975
Alan Greenspan	Chairman	September 4, 1974	January 20, 1977
Paul W. MacAvoy	Member	June 13, 1975	November 15, 1976
Burton G. Malkiel	Member	July 22, 1975	January 20, 1977
Charles L. Schultze	Chairman	January 22, 1977	January 20, 1981

Council Members and Their Dates of Service

Name	Position	Oath of office date	Separation date
William D. Nordhaus	Member	March 18, 1977	February 4, 1979
Lyle E. Gramley	Member	March 18, 1977	May 27, 1980
George C. Eads	Member	June 6, 1979	January 20, 1981
Stephen M. Goldfeld	Member	August 20, 1980	January 20, 1981
Murray L. Weidenbaum	Chairman	February 27, 1981	August 25, 1982
William A. Niskanen	Member	June 12, 1981	March 30, 1985
Jerry L. Jordan	Member	July 14, 1981	July 31, 1982
Martin Feldstein	Chairman	October 14, 1982	July 10, 1984
William Poole	Member	December 10, 1982	January 20, 1985
Beryl W. Sprinkel	Chairman	April 18, 1985	January 20, 1989
Thomas Gale Moore	Member	July 1, 1985	May 1, 1989
Michael L. Mussa	Member	August 18, 1986	September 19, 1988
Michael J. Boskin	Chairman	February 2, 1989	January 12, 1993
John B. Taylor	Member	June 9, 1989	August 2, 1991
Richard L. Schmalensee	Member	October 3, 1989	June 21, 1991
David F. Bradford	Member	November 13, 1991	January 20, 1993
Paul Wonnacott	Member	November 13, 1991	January 20, 1993
Laura D'Andrea Tyson	Chair	February 5, 1993	April 22, 1995
Alan S. Blinder	Member	July 27, 1993	June 26, 1994
Joseph E. Stiglitz	Member	July 27, 1993	
	Chairman	June 28, 1995	February 10, 1997
Martin N. Baily	Member	June 30, 1995	August 30, 1996
Alicia H. Munnell	Member	January 29, 1996	August 1, 1997
Janet L. Yellen	Chair	February 18, 1997	August 3, 1999
Jeffrey A. Frankel	Member	April 23, 1997	March 2, 1999
Rebecca M. Blank	Member	October 22, 1998	July 9, 1999
Martin N. Baily	Chairman	August 12, 1999	January 19, 2001
Robert Z. Lawrence	Member	August 12, 1999	January 12, 2001
Kathryn L. Shaw	Member	May 31, 2000	January 19, 2001
R. Glenn Hubbard	Chairman	May 11, 2001	February 28, 2003
Mark B. McClellan	Member	July 25, 2001	November 13, 2002
Randall S. Kroszner	Member	November 30, 2001	July 1, 2003
N. Gregory Mankiw	Chairman	May 29, 2003	February 18, 2005
Kristin J. Forbes	Member	November 21, 2003	June 3, 2005
Harvey S. Rosen	Member	November 21, 2003	
.,	Chairman	February 23, 2005	June 10, 2005
Ben S. Bernanke	Chairman	June 21, 2005	January 31, 2006
Katherine Baicker	Member	November 18, 2005	July 11, 2007
Matthew J. Slaughter	Member	November 18, 2005	March 1, 2007
Edward P. Lazear	Chairman	February 27, 2006	, 200
Donald B. Marron	Member	July 17, 2008	

Report to the President on the Activities of the Council of Economic Advisers During 2008

The Council of Economic Advisers was established by the Employment Act of 1946 to provide the President with objective economic analysis and advice on the development and implementation of a wide range of domestic and international economic policy issues.

The Chairman of the Council

Edward P. Lazear continued to chair the Council during 2008. Dr. Lazear is on a leave of absence from the Stanford Graduate School of Business where he is the Jack Steele Parker Professor of Human Resources Management and Economics. He also served as the Morris Arnold Cox Senior Fellow at the Hoover Institution.

Dr. Lazear is responsible for communicating the Council's views on economic matters directly to the President through personal discussions and written reports. He represents the Council at daily White House senior staff meetings, a variety of inter-agency meetings, Cabinet meetings, and other formal and informal meetings with the President. He also travels within the United States and overseas to present the Administration's views on the economy. Dr. Lazear is the Council's chief public spokesperson. He directs the work of the Council and exercises ultimate responsibility for the work of the professional staff.

The Members of the Council

Donald B. Marron was confirmed by the Senate as a Member of the Council of Economic Advisers on June 27, 2008, was appointed by the President on June 30, and was sworn in on July 17. While awaiting confirmation, Dr. Marron had served as Senior Economic Adviser to the Council. Dr. Marron previously served as Deputy Director of the Congressional Budget Office, including more than a year as its Acting Director. His earlier government service included serving as Chief Economist at the Council and as Executive Director and Chief Economist of the Congressional Joint Economic Committee. At the Council Dr. Marron's responsibilities include work on financial markets, housing, and a variety of macroeconomic and microeconomic policy issues.

Macroeconomic Policies

As is its tradition, the Council devoted much time during 2008 to assisting the President in formulating economic policy objectives and designing programs to implement them. In this regard the Chairman kept the President informed, on a continuing basis, of important macroeconomic developments and other major policy issues through regular macroeconomic briefings. The Council prepares for the President, the Vice President, and the White House senior staff regular memoranda that report key economic data and analyze current economic events and financial market developments. Council staff also regularly provides assistance with economic data and analysis to other offices within the Executive Office of the President.

The Council, the Department of the Treasury, and the Office of Management and Budget—the Administration's economic "troika"—are responsible for producing the economic forecasts that underlie the Administration's budget proposals. The Council, under the leadership of the Chairman and the Chief Economist, initiates the forecasting process twice each year. In preparing these forecasts, the Council consults with a variety of outside sources, including leading private sector forecasters.

In 2008, the Council took part in discussions on a range of macroeconomic issues. The Council contributed significantly to discussions on the macroeconomic impact of this year's housing and credit market disruptions, and provided analysis and support for the Administration's economic growth package and various policies to promote financial stability.

The Council works closely with the Department of the Treasury, the Federal Reserve, and other government agencies in providing analyses to the Administration on these topics of concern. It also works closely with the National Economic Council, the Domestic Policy Council, the Office of Management and Budget, and other offices within the Executive Office of the President in assessing the economy and economic policy proposals.

International Economic Policies

The Council was involved in a range of international trade and finance issues, with a particular focus on the determinants of the international financial crisis and related global economic slowdown. The Council was an active participant in discussions at the global, regional, and bilateral levels. Council members regularly met with economists and policy officials of foreign countries, finance ministers, other government officials, and members of the private sector to discuss prevailing issues relating to the global economy.

In response to high commodity prices in 2007 and the first half of 2008, the Council provided analysis on the causes and impact of rising crop prices on the United States and on developing economies. The Council also examined the effects of global biofuels policies including the U.S. ethanol mandate.

On the international trade front, the Council provided empirical analysis of pending free trade agreements including the Colombia, Panama, and South Korea free trade agreements. The Council was also a participant in the U.S. Trade Policy Review, conducted by the World Trade Organization.

The Council also prepared in-depth analyses for the President's international itinerary, including travel to Africa, as well as the annual Asia Pacific Economic Cooperation (APEC) summit in Peru.

In the area of investment and security, the Council took part in discussions on the implementation of the Foreign Investment and National Security Act of 2007 (FINSA), which clarified and improved the operations of the Committee on Foreign Investment in the United States (CFIUS), including participating in the drafting and publication of new regulations governing CFIUS under FINSA. The Council also participated in discussions of individual cases before CFIUS.

The Council is a leading participant in the Organization for Economic Cooperation and Development (OECD), the principal forum for economic cooperation among the high-income industrial economies. Senior Council members participated in the OECD's Economic Policy Committee (EPC) meetings, the Economic Development Review Committee, as well as the Working Party meetings on macroeconomic policy and coordination.

Microeconomic Policies

A wide variety of microeconomic issues received Council attention during 2008. The Council actively participated in the Cabinet-level National Economic Council and Domestic Policy Council meetings, dealing with issues including health care, labor, energy policy, legal reform, the environment, homeland security, education, pensions, transportation, and technology among others.

The Council was active in the examination of health care policy related to Medicare spending growth and reform, Health Savings Accounts, health information technology adoption, tobacco regulation, and the promotion of price and quality information transparency. The Council was also heavily involved in the policy process for the two 2008 State of the Union healthcare proposals: the Standard Deduction for Health Insurance and the Affordable Choices Initiative.

The Council was also active in energy and environmental policy discussions, where it analyzed energy markets, alternatives to fossil fuels, energy efficiency issues, and environmental regulatory reform. This included issues such as oil price volatility, the Renewable Fuels Standard, fuel economy standards, the Strategic Petroleum Reserve, global climate change, air quality, and the international trade of energy.

The Council examined transportation policies relating to airports, infrastructure and congestion pricing. The Council also played a role in the analysis of policy for telecommunications, broadband, spectrum allocation and patent reform.

The Council participated in discussions related to catastrophic risk insurance relating to natural disasters and attacks. The Council also participated in ongoing policy discussions relating to the government's role in terrorism risk insurance.

The Council was involved with a number of issues within the scope of education and labor policy. The Council assisted the Department of Education with analysis of plans to ensure the viability of Federal student loan programs and also continued to participate in discussions on regulatory changes to No Child Left Behind. In the realm of labor policy, the Council was involved with policy discussions and analysis concerning proposed regulatory changes in Trade Adjustment Assistance and Immigration, as well as an extension of Unemployment Insurance.

The Council was active in tax policy discussions relating to fiscal stimulus and individual income tax, business tax credits, and corporate taxation issues. Many additional tax policy discussions were held in connection with other microeconomic discussions including labor, insurance, pensions, and health care.

The Staff of the Council of Economic Advisers

The professional staff of the Council consists of the Chief of Staff, the Chief Economist, the Director of Macroeconomic Forecasting, and the Director of the Statistical Office, nine senior economists, and seven junior staff including staff economists, analysts and research assistants. The professional staff and their areas of concentration at the end of 2008 were:

Chief of Staff
Pierce E. Scranton

Chief Economist
Jane E. Ihrig

Director of
Macroeconomic Forecasting
Steven N. Braun

Michael B. Love......Labor and Education

Aditi P. Sen...... International Trade and Investment

Director Statistical Office Adrienne T. Pilot

Senior Economists

Jean M. Abraham Health
Scott J. Adams Labor, Immigration, Education, Welfare
Benjamin Dennis International Trade
Erik Durbin Legal, Transportation, Regulation
Wendy M. Edelberg Macroeconomics, Labor, Small Business
Elizabeth A. Kopits Agriculture, Environment, Natural Resources
Michael S. Piwowar Public Finance, Technology
William M. Powers International Finance
Robert P. RebeleinTax, Budget
Staff Economist
Staff Economist Kristopher J. Dawsey Macroeconomics
55
Kristopher J. Dawsey Macroeconomics
Kristopher J. Dawsey Macroeconomics Joshua K. Goldman Microeconomics and Regulation
Kristopher J. Dawsey Macroeconomics Joshua K. Goldman Microeconomics and Regulation Elizabeth M. Schultz International Finance and US Finance/Banking
Kristopher J. Dawsey Macroeconomics Joshua K. Goldman Microeconomics and Regulation Elizabeth M. Schultz International Finance and US Finance/Banking

Statistical Office

The Statistical Office administers and updates the Council's statistical information. Duties include preparing material for and overseeing publication of the monthly Economic Indicators and the statistical appendix to the Economic Report of the President. Staff verifies statistical content in Presidential memoranda and produces background materials for economic analysis. The Office also serves as the Council's liaison to the statistical community.

Brian A. Amorosi Program Analyst Dagmara A. Mocala Program Analyst

Administrative Office

The Administrative Office provides general support for the Council's This includes financial management, ethics, human resource activities. management, travel, operations of facilities, security, information technology, and telecommunications management support.

Rosemary M. Rogers...... Administrative Officer Archana A. Snyder Financial Officer Doris T. Searles...... Information Management Specialist

Office of the Chairman

Alice H. Williams	Executive Assistant to the Chairman
Sandra F. Daigle	Executive Assistant to the Chairman
C	and Assistant to the Chief of Staff
Lisa D. Branch	Executive Assistant to the Member
	and Assistant to the Chief Economist
Mary E. Jones	Executive Assistant to the Member

Staff Support

Sharon K. Thomas...... Administrative Support Assistant

Jane Tufts, Bruce Kaplan, and Anna Paganelli provided editorial assistance in the preparation of the 2009 Economic Report of the President.

Student Interns during the year were: William J. Allen; Carl B. Blau; Andrew V. Carfang; Stacy L. Carlson; Gordon N. Cook; Lauri J. Feldman; Matthew D. Kaczmarek; John V. Komkov; Jacob N. Mohs; Jacob A. Procuniar; Kevin L. Richards; Joanne C. Rodrigues; Alex D. Rosner; Tejas A. Sathian; and Sonia Sohaili.

Departures

The Council's senior economists, in most cases, are on leave of absence from academic institutions, government agencies, or private research institutions. Their tenure with the Council is usually limited to 1 or 2 years. The senior economists who resigned during the year were: Scott L. Baier (Clemson University); Charles W. Griffiths (Environmental Protection Agency); Daniel E. Polsky (University of Pennsylvania); Korok Ray (University of Chicago); Dan T. Rosenbaum (University of North Carolina); Howard Shatz (Rand Corporation); Sita N. Slavov (Occidental College); and John J. Stevens (Federal Reserve Board).

The economists are supported by a team of junior staff made up of staff economists, analysts, and research assistants who generally work with the Council for 1 or 2 years before returning to school or other endeavors. The staff economist who resigned during 2008 was: Elizabeth J. Akers. Those who served as research assistants at the Council and resigned during 2008 were: Mark W. Clements and Chen Zhao.

Public Information

The Council's annual *Economic Report of the President* is an important vehicle for presenting the Administration's domestic and international economic policies. It is available for purchase through the Government Printing Office, and is viewable on the Internet at *www.gpoaccess.gov/eop*. The Council also publishes the monthly *Economic Indicators*, which is available on-line at *www.gpoaccess.gov/indicators*. The Council's home page is located at *www.whitehouse.gov/cea*.

Appendix B STATISTICAL TABLES RELATING TO INCOME, EMPLOYMENT, AND PRODUCTION

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General Notes

Detail in these tables may not add to totals because of rounding.

Because of the formula used for calculating real gross domestic product (GDP), the chained (2000) dollar estimates for the detailed components do not add to the chained-dollar value of GDP or to any intermediate aggregate. The Department of Commerce (Bureau of Economic Analysis) no longer publishes chained-dollar estimates prior to 1990, except for selected series.

Unless otherwise noted, all dollar figures are in current dollars.

Symbols used:

^p Preliminary.

... Not available (also, not applicable).

Data in these tables reflect revisions made by the source agencies through December 5, 2008. In particular, tables containing national income and product accounts (NIPA) estimates reflect revisions released by the Department of Commerce in July 2008.

National Income or Expenditure

Table B-1.—Gross domestic product, 1959–2008

[Billions of dollars, except as noted; quarterly data at seasonally adjusted annual rates]

									· .					
			Persor	nal consump	tion expend	litures	Gross private domestic investment							
		Gross							Fix	ed investme	ent		01	
Year or quarter	domestic		Total	Durable	Non-	Consisses	Total		N	onresidenti	al		Change in	
	product	Total	goods	durable goods	Services	Total	Total	Total	Struc- tures	Equip- ment and software	Resi- dential	private inven- tories		
		506.6	317.6	42.7	148.5	126.5	78.5	74.6	46.5	18.1	28.4	28.1	3.9	
1961 1962 1963 1964 1965 1966 1967 1968		526.4 544.7 585.6 617.7 663.6 719.1 787.8 832.6 910.0 984.6	331.7 342.1 363.3 382.7 411.4 443.8 480.9 507.8 558.0 605.2 648.5	43.3 41.8 46.9 51.6 56.7 63.3 70.4 80.8 85.9	152.8 156.6 162.8 168.2 178.6 191.5 208.7 217.1 235.7 253.1	135.6 143.8 153.6 162.9 176.1 189.0 203.8 220.3 241.6 266.1 291.5	78.9 78.2 88.1 93.8 102.1 118.2 131.3 128.6 141.2 156.4	75.7 75.2 82.0 88.1 97.2 109.0 117.7 118.7 132.1 147.3	49.4 48.8 53.1 56.0 63.0 74.8 85.4 86.4 93.4 104.7	19.6 19.7 20.8 21.2 23.7 28.3 31.3 31.5 33.6 37.7 40.3	29.8 29.1 32.3 34.8 39.2 46.5 54.0 54.9 59.9 67.0 68.7	26.3 26.4 29.0 32.1 34.3 34.2 32.3 32.4 42.6 41.4	3.2 3.0 6.1 5.6 4.8 9.2 13.6 9.9 9.1 9.2	
1971 1972 1973 1974 1975 1976 1977 1978		1,127.1 1,238.3 1,382.7 1,500.0 1,638.3 1,825.3 2,030.9 2,294.7 2,563.3	701.9 770.6 852.4 933.4 1,034.4 1,151.9 1,278.6 1,428.5 1,592.2	96.9 110.4 123.5 122.3 133.5 158.9 181.2 201.7 214.4	285.5 308.0 343.1 384.5 420.7 458.3 497.1 550.2 624.5	319.5 352.2 385.8 426.6 480.2 534.7 600.2 676.6 753.3	178.2 207.6 244.5 249.4 230.2 292.0 361.3 438.0 492.9	169.9 198.5 228.6 235.4 236.5 274.8 339.0 412.2 474.9	114.1 128.8 153.3 169.5 173.7 192.4 228.7 280.6 333.9	42.7 47.2 55.0 61.2 61.4 65.9 74.6 93.6 117.7	71.5 81.7 98.3 108.2 112.4 126.4 154.1 187.0 216.2	55.8 69.7 75.3 66.0 62.7 82.5 110.3 131.6 141.0	8.3 9.1 15.9 14.0 –6.3 17.1 22.3 25.8 18.0	
1981 1982 1983 1984 1985 1986 1987		2,789.5 3,128.4 3,255.0 3,536.7 3,933.2 4,220.3 4,462.8 4,739.5 5,103.8 5,484.4	1,757.1 1,941.1 2,077.3 2,290.6 2,503.3 2,720.3 2,899.7 3,100.2 3,353.6 3,598.5	214.2 231.3 240.2 280.8 326.5 363.5 403.0 421.7 453.6 471.8	696.1 758.9 787.6 831.2 884.6 928.7 958.4 1,015.3 1,083.5 1,166.7	846.9 950.8 1,049.4 1,178.6 1,292.2 1,428.1 1,538.3 1,663.3 1,816.5 1,960.0	479.3 572.4 517.2 564.3 735.6 736.2 746.5 785.0 821.6 874.9	485.6 542.6 532.1 570.1 670.2 714.4 739.9 757.8 803.1 847.3	362.4 420.0 426.5 417.2 489.6 526.2 519.8 524.1 563.8 607.7	136.2 167.3 177.6 154.3 177.4 194.5 176.5 174.2 182.8 193.7	226.2 252.7 248.9 262.9 312.2 331.7 343.3 349.9 381.0 414.0	123.2 122.6 105.7 152.9 180.6 188.2 220.1 233.7 239.3 239.5	-6.3 29.8 -14.9 -5.8 65.4 21.8 6.6 27.1 18.5 27.7	
1991 1992 1993 1994 1995 1996 1997		5,803.1 5,995.9 6,337.7 6,657.4 7,072.2 7,397.7 7,816.9 8,304.3 8,747.0 9,268.4	3,839.9 3,986.1 4,235.3 4,477.9 4,743.3 4,975.8 5,256.8 5,547.4 5,879.5 6,282.5	474.2 453.9 483.6 526.7 582.2 611.6 652.6 692.7 750.2 817.6	1,249.9 1,284.8 1,330.5 1,379.4 1,437.2 1,485.1 1,555.5 1,619.0 1,683.6 1,804.8	2,115.9 2,247.4 2,421.2 2,571.8 2,723.9 2,879.1 3,048.7 3,235.8 3,445.7 3,660.0	861.0 802.9 864.8 953.4 1,097.1 1,144.0 1,240.3 1,389.8 1,509.1 1,625.7	846.4 803.3 848.5 932.5 1,033.3 1,112.9 1,209.5 1,317.8 1,438.4 1,558.8	622.4 598.2 612.1 666.6 731.4 810.0 875.4 968.7 1,052.6 1,133.9	202.9 183.6 172.6 177.2 186.8 207.3 224.6 250.3 275.2 282.2	419.5 414.6 439.6 489.4 544.6 602.8 650.8 718.3 777.3 851.7	224.0 205.1 236.3 266.0 301.9 302.8 334.1 349.1 385.8 424.9	14.5 4 16.3 20.8 63.8 31.1 30.8 72.0 70.8 66.9	
2001 2002 2003 2004 2005		9,817.0 10,128.0 10,469.6 10,960.8 11,685.9 12,421.9 13,178.4 13,807.5	6,739.4 7,055.0 7,350.7 7,703.6 8,195.9 8,694.1 9,207.2 9,710.2	863.3 883.7 923.9 942.7 983.9 1,020.8 1,052.1 1,082.8	1,947.2 2,017.1 2,079.6 2,190.2 2,343.7 2,514.1 2,685.2 2,833.0	3,928.8 4,154.3 4,347.2 4,570.8 4,868.3 5,159.2 5,469.9 5,794.4	1,735.5 1,614.3 1,582.1 1,664.1 1,888.6 2,086.1 2,220.4 2,130.4	1,679.0 1,646.1 1,570.2 1,649.8 1,830.0 2,042.8 2,171.1 2,134.0	1,232.1 1,176.8 1,066.3 1,077.4 1,154.5 1,273.1 1,414.1 1,503.8	313.2 322.6 279.2 277.2 298.2 337.6 410.4 480.3	918.9 854.2 787.1 800.2 856.3 935.5 1,003.7 1,023.5	446.9 469.3 503.9 572.4 675.5 769.6 757.0 630.2	56.5 -31.7 11.9 14.3 58.6 43.3 49.3 -3.6	
III .		12,155.4 12,297.5 12,538.2 12,696.4	8,480.9 8,610.8 8,791.1 8,893.7	1,006.6 1,033.3 1,038.7 1,004.4	2,432.4 2,469.9 2,554.8 2,599.4	5,041.9 5,107.6 5,197.6 5,289.9	2,046.0 2,039.7 2,084.2 2,174.6	1,963.3 2,020.3 2,073.2 2,114.3	1,233.6 1,261.0 1,286.1 1,311.8	326.9 333.8 337.3 352.4	906.7 927.2 948.8 959.3	729.7 759.3 787.1 802.5	82.6 19.4 11.0 60.3	
2006: I II		12,959.6 13,134.1 13,249.6 13,370.1	9,026.3 9,161.9 9,283.7 9,357.0	1,046.5 1,049.1 1,054.4 1,058.2	2,629.3 2,681.5 2,726.3 2,703.8	5,350.5 5,431.3 5,502.9 5,595.0	2,236.7 2,253.7 2,231.7 2,159.5	2,183.6 2,187.9 2,169.2 2,143.6	1,375.5 1,408.3 1,433.0 1,439.6	377.4 406.0 424.4 433.9	998.1 1,002.3 1,008.6 1,005.6	808.1 779.6 736.2 704.0	53.1 65.9 62.5 15.8	
II		13,510.9 13,737.5 13,950.6 14,031.2	9,524.9 9,657.5 9,765.6 9,892.7	1,076.6 1,085.3 1,086.2 1,083.0	2,761.5 2,817.7 2,846.6 2,906.2	5,686.8 5,754.4 5,832.8 5,903.5	2,117.8 2,147.2 2,164.0 2,092.3	2,133.4 2,148.1 2,141.0 2,113.4	1,456.4 1,493.7 1,522.9 1,542.1	449.6 469.8 492.9 508.7	1,006.8 1,023.9 1,030.0 1,033.4	677.0 654.4 618.1 571.3	-15.6 9 23.0 -21.1	
2008: I	ρ	14,150.8 14,294.5 14,420.5	10,002.3 10,138.0 10,169.5	1,071.0 1,059.3 1,015.1	2,950.7 3,026.2 3,046.5	5,980.6 6,052.5 6,107.9	2,056.1 2,000.9 2,013.6	2,081.7 2,077.0 2,062.1	1,553.6 1,571.9 1,582.7	522.7 549.8 568.9	1,030.9 1,022.1 1,013.9	528.1 505.0 479.4	-25.6 -76.0 -48.6	

See next page for continuation of table.

Table B-1.—Gross domestic product, 1959-2008—Continued

[Billions of dollars, except as noted; quarterly data at seasonally adjusted annual rates]

	Ni good	et exports Is and serv	of vices	Gov	vernment c and q	onsumption gross inves	n expenditu tment	ires	Final	Gross	Adden-	Percent from pre	eceding
Year or quarter						Federal		State	sales of domes- tic	domes- tic pur-	dum: Gross national	Gross	Gross domes-
	Net exports	Exports	Imports	Total	Total	National defense	Non- defense	and local	product	chases 1	product ²	domes- tic product	tic pur- chases ¹
1959	0.4	22.7	22.3	110.0	65.4	53.8	11.5	44.7	502.7	506.2	509.3	8.4	8.5
1960 1961 1962 1963 1964 1965 1966 1967 1968 1968	4.2 4.9 4.1 4.9 6.9 5.6 3.9 3.6 1.4 4.0	27.0 27.6 29.1 31.1 35.0 37.1 40.9 43.5 47.9 51.9	22.8 22.7 25.0 26.1 28.1 31.5 37.1 39.9 46.6 50.5	111.6 119.5 130.1 136.4 143.2 151.5 171.8 192.7 209.4 221.5 233.8	64.1 67.9 75.3 76.9 78.5 80.4 92.5 104.8 111.4 113.4	53.4 56.5 61.1 61.0 60.3 60.6 71.7 83.5 89.3 89.5	10.7 11.4 14.2 15.9 18.2 19.8 20.8 21.3 22.1 23.8 25.8	47.5 51.6 54.9 59.5 64.8 71.0 79.2 87.9 98.0 108.2 120.3	523.2 541.7 579.5 612.1 658.8 709.9 774.2 822.7 900.9 975.4 1,036.5	522.2 539.8 581.5 612.8 656.7 713.5 783.9 829.0 908.6 983.2	529.5 548.2 589.7 622.2 668.5 724.4 792.9 838.0 916.1 990.7	3.9 3.5 7.5 5.5 7.4 8.4 9.5 5.7 9.3 8.2 5.5	3.2 3.4 7.7 5.4 7.2 8.6 9.9 5.8 9.6 8.2
1971 1972 1973 1974 1975 1976 1977 1978	.6 -3.4 4.1 8 16.0 -1.6 -23.1 -25.4 -22.5	63.0 70.8 95.3 126.7 138.7 149.5 159.4 186.9 230.1	62.3 74.2 91.2 127.5 122.7 151.1 182.4 212.3 252.7	246.5 263.5 281.7 317.9 357.7 383.0 414.1 453.6 500.8	113.7 119.7 122.5 134.6 149.1 159.7 175.4 190.9 210.6	84.6 87.0 88.2 95.6 103.9 111.1 120.9 130.5 145.2	29.1 32.7 34.3 39.0 45.1 48.6 54.5 60.4 65.4	132.8 143.8 159.2 183.4 208.7 223.3 238.7 262.6 290.2	1,118.9 1,229.2 1,366.8 1,486.0 1,644.6 1,808.2 2,008.6 2,268.9 2,545.3	1,126.5 1,241.7 1,378.6 1,500.8 1,622.4 1,826.9 2,054.0 2,320.1 2,585.9	1,134.7 1,246.8 1,395.3 1,515.5 1,651.3 1,842.1 2,051.2 2,316.3 2,595.3	8.5 9.9 11.7 8.5 9.2 11.4 11.3 13.0 11.7	8.9 10.2 11.0 8.9 8.1 12.6 12.4 13.0 11.5
1980 1981 1982 1983 1984 1985 1986 1987 1988	-13.1 -12.5 -20.0 -51.7 -102.7 -115.2 -132.7 -145.2 -110.4 -88.2	280.8 305.2 283.2 277.0 302.4 302.0 320.5 363.9 444.1 503.3	293.8 317.8 303.2 328.6 405.1 417.2 453.3 509.1 554.5 591.5	566.2 627.5 680.5 733.5 797.0 879.0 949.3 999.5 1,039.0 1,099.1	243.8 280.2 310.8 342.9 374.4 412.8 438.6 460.1 462.3 482.2	168.0 196.3 225.9 250.7 281.6 311.2 330.9 350.0 354.9 362.2	75.8 84.0 84.9 92.3 92.8 101.6 107.8 110.0 107.4 120.0	322.4 347.3 369.7 390.5 422.6 466.2 510.7 539.4 576.7 616.9	2,795.8 3,098.6 3,269.9 3,542.4 3,867.8 4,198.4 4,456.3 4,712.3 5,085.3 5,456.7	2,802.6 3,141.0 3,275.0 3,588.3 4,035.9 4,335.5 4,595.6 4,884.7 5,214.2 5,572.5	2,823.7 3,161.4 3,291.5 3,573.8 3,969.5 4,246.8 4,480.6 4,757.4 5,127.4 5,510.6	8.8 12.2 4.0 8.7 11.2 7.3 5.7 6.2 7.7	8.4 12.1 4.3 9.6 12.5 7.4 6.0 6.3 6.7 6.9
1990 1991 1992 1993 1994 1995 1996 1997 1998	-78.0 -27.5 -33.2 -65.0 -93.6 -91.4 -96.2 -101.6 -159.9 -260.5	552.4 596.8 635.3 655.8 720.9 812.2 868.6 955.3 955.9 991.2	630.3 624.3 668.6 720.9 814.5 903.6 964.8 1,056.9 1,115.9 1,251.7	1,180.2 1,234.4 1,271.0 1,291.2 1,325.5 1,369.2 1,416.0 1,468.7 1,518.3 1,620.8	508.3 527.7 533.9 525.2 519.1 519.2 527.4 530.9 530.4 555.8	374.0 383.2 376.9 362.9 353.7 348.7 354.6 349.6 345.7 360.6	134.3 144.5 157.0 162.4 165.5 170.5 172.8 181.3 184.7 195.2	671.9 706.7 737.0 766.0 806.3 850.0 888.6 937.8 987.9 1,065.0	5,788.5 5,996.3 6,321.4 6,636.6 7,008.4 7,366.5 7,786.1 8,232.3 8,676.2 9,201.5	5,881.1 6,023.4 6,371.0 6,722.4 7,165.8 7,489.0 7,913.1 8,405.9 8,906.9 9,528.9	5,837.9 6,026.3 6,367.4 6,689.3 7,098.4 7,433.4 7,851.9 8,337.3 8,768.3 9,302.2	5.8 3.3 5.7 5.0 6.2 4.6 5.7 6.2 5.3 6.0	5.5 2.4 5.8 5.5 6.6 4.5 5.7 6.2 6.0 7.0
2000	-379.5 -367.0 -424.4 -499.4 -615.4 -713.6 -757.3 -707.8	1,096.3 1,032.8 1,005.9 1,040.8 1,182.4 1,311.5 1,480.8 1,662.4	1,475.8 1,399.8 1,430.3 1,540.2 1,797.8 2,025.1 2,238.1 2,370.2	1,721.6 1,825.6 1,961.1 2,092.5 2,216.8 2,355.3 2,508.1 2,674.8	578.8 612.9 679.7 756.4 825.6 875.5 932.2 979.3	370.3 392.6 437.1 497.2 550.7 588.1 624.1 662.2	208.5 220.3 242.5 259.2 274.9 287.4 308.0 317.1	1,142.8 1,212.8 1,281.5 1,336.0 1,391.2 1,479.8 1,575.9 1,695.5	9,760.5 10,159.7 10,457.7 10,946.5 11,627.3 12,378.6 13,129.0 13,811.2	10,196.4 10,495.0 10,894.0 11,460.2 12,301.3 13,135.5 13,935.7 14,515.3	9,855.9 10,171.6 10,500.2 11,017.6 11,762.1 12,514.9 13,256.6 13,910.0	5.9 3.2 3.4 4.7 6.6 6.3 6.1 4.8	7.0 2.9 3.8 5.2 7.3 6.8 6.1 4.2
2005: I II III IV	-670.7 -680.9 -725.1 -777.7	1,266.8 1,305.1 1,314.5 1,359.6	1,937.5 1,986.0 2,039.6 2,137.4	2,299.2 2,328.0 2,388.0 2,405.9	861.0 867.1 894.2 879.5	576.1 584.4 606.3 585.4	284.9 282.8 288.0 294.1	1,438.2 1,460.9 1,493.8 1,526.4	12,072.7 12,278.1 12,527.2 12,636.1	12,826.1 12,978.4 13,263.3 13,474.1	12,258.0 12,389.7 12,641.2 12,770.6	7.1 4.8 8.1 5.1	6.3 4.8 9.1 6.5
2006: I II IV	-761.7 -777.2 -792.7 -697.7	1,423.2 1,462.8 1,492.5 1,544.5	2,184.9 2,240.0 2,285.2 2,242.2	2,458.4 2,495.7 2,526.9 2,551.4	922.8 928.5 935.5 941.7	613.6 623.1 624.0 635.9	309.3 305.4 311.5 305.9	1,535.5 1,567.2 1,591.4 1,609.7	12,906.5 13,068.3 13,187.1 13,354.3	13,721.4 13,911.3 14,042.3 14,067.9	13,039.2 13,219.4 13,316.1 13,452.0	8.6 5.5 3.6 3.7	7.5 5.7 3.8 .7
2007: I II IV	-728.8 -723.1 -682.6 -696.7	1,560.5 1,614.4 1,714.9 1,759.7	2,289.4 2,337.5 2,397.5 2,456.5	2,597.0 2,655.9 2,703.5 2,742.9	950.3 974.6 994.0 998.3	636.9 656.8 675.6 679.3	313.4 317.8 318.3 319.0	1,646.8 1,681.3 1,709.5 1,744.6	13,526.5 13,738.4 13,927.6 14,052.3	14,239.7 14,460.6 14,633.1 14,728.0	13,583.3 13,797.2 14,062.8 14,196.6	4.3 6.9 6.3 2.3	5.0 6.4 4.9 2.6
2008: 	-705.7 -718.2 -706.5	1,820.8 1,923.2 1,971.3	2,526.5 2,641.4 2,677.9	2,798.1 2,873.7 2,943.9	1,026.5 1,056.1 1,097.7	699.9 723.3 759.5	326.6 332.9 338.2	1,771.6 1,817.6 1,846.2	14,176.4 14,370.5 14,469.1	14,856.6 15,012.7 15,127.0	14,289.0 14,408.3 14,538.0	3.5 4.1 3.6	3.5 4.3 3.1

 $^{^1}$ Gross domestic product (GDP) less exports of goods and services plus imports of goods and services. 2 GDP plus net income receipts from rest of the world.

Table B-2.—Real gross domestic product, 1959–2008

[Billions of chained (2000) dollars, except as noted; quarterly data at seasonally adjusted annual rates]

		Person	nal consump	otion expend	litures	Gross private domestic investment							
	_C							Fixed investment				01	
Year or quarter	Gross domestic	Takal	Durable	Non-				Nonresidenti		al		Change in	
	product	Total	goods	durable goods	Services	Total	Total	Total	Struc- tures	Equip- ment and software	Resi- dential	private inven- tories	
1959	2,441.3	1,554.6				266.7							
1960	2,501.8	1,597.4				266.6							
1961 1962	2,560.0 2,715.2 2,834.0	1,630.3 1,711.1				264.9 298.4							
1963	2,834.0	1,781.6				318.5							
1964	2,998.6 3,191.1	1,888.4 2.007.7				344.7 393.1							
1965 1966	3,399.1	2,121.8				427.7							
1967	3.484.6	2,185.0				408.1							
1968 1969	3,652.7 3,765.4	2,310.5 2,396.4				431.9 457.1							
1970	3,771.9	2,350.4				427.1							
1971	3,898.6	2,545.5				475.7							
1972	4,105.0 4,341.5	2,701.3 2,833.8				532.1 594.4							
1973 1974	4,341.5	2,812.3				550.6							
19/5	4,311.2	2,876.9				453.1							
1976 1977	4,540.9 4,750.5	3,035.5 3,164.1				544.7 627.0							
19/8	5,015.0	3,303.1				702.6							
1979	5,173.4	3,383.4				725.0							
1980	5,161.7	3,374.1				645.3							
1981 1982	5,291.7 5,189.3	3,422.2 3,470.3				704.9 606.0							
1983	5,423.8	3,668.6				662.5							
1984	5,813.6 6,053.7	3,863.3 4,064.0				857.7 849.7							
1985 1986	6,263.6	4,228.9				843.9							
198/	6,475.1	4,369.8				870.0							
1988 1989	6,742.7 6,981.4	4,546.9 4,675.0				890.5 926.2							
1990	7.112.5	4.770.3	453.5	1.484.0	2.851.7	895.1	886.6	595.1	275.2	355.0	298.9	15.4	
1991	7,100.5	4,778.4	427.9	1,480.5	2,900.0	822.2	829.1	563.2	244.6	345.9	270.2	5	
1992	7,336.6	4,934.8	453.0 488.4	1,510.1	3,000.8	889.0 968.3	878.3 953.5	581.3 631.9	229.9	371.1 417.4	307.6 332.7	16.5	
1993 1994	7,532.7 7,835.5	5,099.8 5,290.7	529.4	1,550.4 1,603.9	3,085.7 3,176.6	1,099.6	1,042.3	689.9	228.3 232.3	467.2	364.8	20.6 63.6	
1995	8,031.7	5,433.5	552.6	1,638.6	3.259.9	1.134.0	1.109.6	762.5	247.1	523.1	353.1	29.9	
1996 1997	8,328.9 8,703.5	5,619.4 5,831.8	595.9 646.9	1,680.4 1,725.3	3,356.0 3,468.0	1,234.3 1,387.7	1,209.2 1,320.6	833.6 934.2	261.1 280.1	578.7 658.3	381.3 388.6	28.7 71.2	
1998	9,066.9	6,125.8	720.3	1,794.4	3,615.0	1,524.1	1,455.0	1,037.8	294.5	745.6	418.3	72.6	
1999	9,470.3	6,438.6	804.6	1,876.6	3,758.0	1,642.6	1,576.3	1,133.3	293.2	840.2	443.6	68.9	
2000	9,817.0 9,890.7	6,739.4 6,910.4	863.3 900.7	1,947.2	3,928.8	1,735.5 1,598.4	1,679.0 1,629.4	1,232.1	313.2	918.9 874.2	446.9 448.5	56.5 -31.7	
2001	9,890.7	7,099.3	964.8	1,986.7 2,037.1	4,023.2 4,100.4	1,598.4	1,544.6	1,180.5 1,071.5	306.1 253.8	874.2	448.5 469.9	-31.7 12.5	
2003	10,301.0	7,295.3	1,020.6	2,103.0	4,178.8	1,613.1	1,596.9	1,081.8	243.5	843.1	509.4	14.3	
2004	10,675.8	7,561.4	1,084.8 1,134.4	2,177.6 2,252.7	4,311.0 4,420.9	1,770.2	1,712.8	1,144.3 1,226.2	246.7 249.8	905.1 989.6	560.2 595.4	54.3 38.9	
2005	10,989.5 11,294.8	7,791.7 8,029.0	1,185.1	2,335.3	4,529.9	1,873.5 1,912.5	1,829.8 1,865.5	1,318.2	270.3	1,061.0	552.9	42.3	
2007	11,523.9	8,252.8	1,242.4	2,392.6	4,646.2	1,809.7	1,808.5	1,382.9	304.6	1,078.9	453.8	-2.5	
2005:	10,875.8	7,697.5	1,111.6	2,220.7	4,379.3	1,869.1	1,790.5	1,200.4	253.1	956.6	582.1	74.6	
 	10,946.1 11,050.0	7,766.4 7,838.1	1,143.7 1,158.9	2,243.7 2,260.1	4,398.2 4,439.4	1,844.8 1,862.8	1,823.5 1,847.2	1,219.0 1,237.1	252.3 246.2	977.9 1,006.5	595.8 601.7	16.7 11.0	
IV	11,086.1	7,864.9	1,123.3	2,286.3	4,466.9	1,917.3	1,858.0	1,248.2	247.4	1,017.4	602.0	53.5	
2006: I	11,217.3	7,947.4	1,173.1	2,310.8	4,484.7	1,946.3	1,895.2	1,295.2	256.5	1,056.6	596.5	45.9	
II	11,291.7 11,314.1	8,002.1 8.046.3	1,178.3 1,188.4	2,328.7 2.342.0	4,515.7 4.537.6	1,944.3 1,917.8	1,883.1 1,860.0	1,315.4 1.332.7	268.3 277.4	1,061.2	570.1 536.7	56.9 53.3	
III IV	11,314.1	8,119.9	1,188.4	2,342.0	4,537.6	1,841.6	1,860.0	1,332.7	277.4	1,066.4 1,059.9	508.4	13.1	
2007: 1	11,357.8	8.197.2	1,227.3	2.380.1	4,616.1	1,795.9	1,807.8	1,340.4	286.6	1,060.0	486.4	-15.0	
II	11.491.4	8,237.3 8,278.5	1,242.3 1,249.4	2,391.5 2,398.6	4,632.7	1.822.9	1,821.3	1.373.8	298.9	1.077.9	471.7	-2.8	
III IV	11,625.7 11,620.7	8,2/8.5 8,298.2	1,249.4 1,250.6	2,398.6 2,400.2	4,659.8 4,676.1	1,838.7 1,781.3	1,817.0 1,788.2	1,402.9 1,414.7	313.2 319.7	1,087.5 1,090.1	445.3 411.6	16.0 -8.1	
2008: 1	11,646.0	8,316.1	1,230.0	2,397.9	4,704.3	1,754.7	1,760.2	1,414.7	326.4	1,088.6	383.0	-10.2	
II	11,727.4	8,341.3	1,228.3	2,420.7	4,712.1	1,702.0	1,754.9	1,431.8	340.5	1,074.7	369.6	-50.6	
p	11,712.3	8,262.1	1,178.8	2,377.8	4,712.2	1,703.9	1,730.0	1,426.5	346.0	1,059.2	352.1	-29.1	

See next page for continuation of table.

Table B-2.—Real gross domestic product, 1959-2008—Continued

[Billions of chained (2000) dollars, except as noted; quarterly data at seasonally adjusted annual rates]

		et exports ds and serv		Gov		onsumptio gross inves		ıres	Final	Gross	Adden- dum:	from pr	t change receding riod
Year or quarter						Federal			sales of domes-	domestic pur-	Gross national	Gross	Gross
	Net exports	Exports	Imports	Total	Total	National defense	Non- defense	State and local	tic product	chases 1	prod- uct ²	domes- tic product	domes- tic pur- chases ¹
1959		77.2	101.9	714.3					2,442.7	2,485.9	2,457.4	7.1	7.1
1960		90.6	103.3	715.4					2,506.8 2,566.8	2,529.6	2,519.4 2,579.3	2.5	1.8
1961 1962		91.1 95.7	102.6	751.3 797.6					2,566.8	2,587.6	2,579.3 2,736.9	2.3 6.1	1.8 2.3 6.3 4.2 5.5
1963		102.5	114.3 117.3	818.1					2,700.3	2,751.4 2,866.0	2,730.9	4.4	0.3
1964		114.6	123.6	836.1					2,999.9	3,023.2	3,023.6	5.8	5.5
1965		117.8	136.7	861.3					3,173.8	3,228.6	3,217.3	6.4	6.8
1966 1967		126.0 128.9	157.1 168.5	937.1 1,008.9					3,364.8 3,467.6	3,450.3 3,545.1	3,423.7 3,510.1	6.5	6.9 2.7
1968		139.0	193.6	1,040.5					3,640.3	3,727.5	3,680.0	4.8	5.1
1969		145.7	204.6	1,038.0					3,753.7	3,844.1	3,792.0	3.1	3.1
1970		161.4	213.4	1,012.9					3,787.7	3,837.4	3,798.2	.2	2
1971		164.1	224.7	990.8					3,893.4	3,974.2	3,927.8	3.4	3.6
1972 1973		176.5 209.7	250.0 261.6	983.5 980.0					4,098.6 4,315.9	4,192.8 4,399.1	4,136.2 4,383.6	5.3 5.8	5.5 4.9
1974		226.3	255.7	1,004.7					4,305.5	ll 4.343.8 l	4,367.5	5	-1.3
1975		224.9	227.3 271.7	1,027.4					4,352.5	4,297.0	4,348.4	2 5.3	-1.1
1976 1977		234.7 240.3	2/1./ 301.4	1,031.9 1,043.3					4,522.3 4,721.6	4,575.0 4,818.5	4,585.3 4,800.3	5.3 4.6	6.5 5.3
1978		265.7	327.6	1,043.3					4,721.6	5,081.5	5,064.4	5.6	5.5
1979		292.0	333.0	1,094.1					5,161.2	5,206.8	5,240.1	3.2	2.5
1980		323.5	310.9	1,115.4					5,196.7	5,108.9	5,227.6	2	-1.9
1981		327.4	319.1	1,125.6					5,265.1	5,244.7	5,349.7	2.5	2.7
1982 1983		302.4 294.6	315.0 354.8	1,145.4 1,187.3					5,233.4 5,454.0	5,175.1 5,477.6	5,249.7 5,482.5	-1.9 4.5	-1.3 5.8
1984		318.7	441.1	1,227.0					5.739.2	5,951.6	5,869.3	7.2	8.7
1985		328.3	469.8	1,312.5					6,042.1	6,215.8	6,093.4	4.1	4.4
1986		353.7 391.8	510.0 540.2	1,392.5 1,426.7					6,271.8 6,457.2	6,443.6 6,644.1	6,290.6 6,500.9	3.5 3.4	3.7 3.1
1987 1988		454.6	561.4	1,445.1					6,734.5	6,857.9	6,775.2	4.1	3.1
1989		506.8	586.0	1,482.5					6,962.2	7,060.8	7,015.4	3.5	3.0
1990	-54.7	552.5	607.1	1,530.0	659.1	479.4	178.6	868.4	7,108.5	7,161.6	7,155.2	1.9	1.4
1991	-14.6 -15.9	589.1 629.7	603.7 645.6	1,547.2 1,555.3	658.0 646.6	474.2 450.7	182.8 195.4	886.8 906.5	7,115.0 7,331.1	7,101.2 7,338.9	7,136.8 7.371.8	2	8
1992 1993	-52.1	650.0	702.1	1,555.5	619.6	425.3	193.4	919.5	7,522.3	7,577.2	7,568.6	3.3	3.3 3.2
1994	-79.4	706.5	785.9	1,541.3	596.4	404.6	191.7	943.3	7,777.8	7,911.3	7,864.2	4.0	4.4
1995	-71.0 -79.6	778.2	849.1	1,549.7	580.3	389.2	191.0	968.3	8,010.2	8,098.4	8,069.8	2.5	2.4
1996 1997	-79.6	843.4 943.7	923.0 1,048.3	1,564.9 1,594.0	573.5 567.6	383.8 373.0	189.6 194.5	990.5 1,025.9	8,306.5 8,636.6	8,405.7 8,807.6	8,365.3 8,737.5	4.5	3.8 4.8
1998	-203.7	966.5	1,170.3	1,624.4	561.2	365.3	195.9	1,063.0	8,997.6	9,272.5	9,088.7	4.2	5.3 5.3
1999	-296.2	1,008.2	1,304.4	1,686.9	573.7	372.2	201.5	1,113.2	9,404.0	9,767.7	9,504.7	4.5	5.3
2000	-379.5	1,096.3	1,475.8	1,721.6	578.8	370.3	208.5	1,142.8	9,760.5	10,196.4	9,855.9	3.7	4.4
2001	-399.1 -471.3	1,036.7 1,013.3	1,435.8 1,484.6	1,780.3 1,858.8	601.4 643.4	384.9 413.2	216.5 230.2	1,179.0	9,920.9	10,290.1 10,517.7	9,933.6 10,079.0	.8 1.6	2.2 2.8
2003	-518.9	1,026.1	1.545.0	1,904.8	687.1	449.0	238.0	1,215.4 1,217.8	10,285.1	10,815.5	10.355.3	2.5	2.8
2004	-593.8	1,126.1	1,719.9	1,931.8	715.9	475.0	240.7	1,215.8	10,619.8	11.261.4	10,746.0	3.6	4.1
2005	-616.6 -615.7	1,205.3 1,314.8	1,821.9 1,930.5	1,939.0 1,971.2	724.5 741.0	482.2 490.0	242.0 250.8	1,214.3	10,947.3	11,597.8 11,904.1	11,072.1 11,362.3	2.9 2.8	3.0 2.6
2007	-546.5	1,425.9	1,972.4	2,012.1	752.9	502.1	250.4	1,259.0	11,523.4	12,066.8	11,609.8	2.0	1.4
2005: I	-623.7	1.177.9	1.801.7	1.929.6	718.0	476.3	241.5	1.211.4	10.799.3	11.490.6	10.968.4	3.0	2.5
II	-601.3	1,203.1	1,804.4	1,934.0	720.1	481.0	238.8	1,213.8	10,925.9	11,539.4	11,028.4	3.0 2.6	2.5 1.7
III	-603.6	1,204.3	1,807.9	1,950.4	736.8	495.1	241.4	1,213.6	11,035.5	11,645.4	11,140.7	3.8	3.7 2.5
IV	-637.8	1,235.7	1,873.6	1,941.9	723.2	476.5	246.5	1,218.5	11,028.4	11,716.2	11,151.2	1.3	
2006:	-636.0 -619.4	1,284.3 1,301.4	1,920.2 1.920.9	1,960.5 1,966.6	740.6 737.7	486.7 489.0	253.8 248.5	1,219.9 1,228.8	11,167.6 11,232.1	11,846.2 11,904.4	11,286.5 11,365.1	4.8 2.7	4.5 2.0
iii	-623.0	1,312.6	1,935.7	1,974.9	741.1	487.9	253.1	1,233.7	11,257.8 11,339.7	11,930.6	11,370.8	.8	
IV	-584.3	1,361.1	1,945.3	1,982.7	744.4	496.3	247.8	1,238.2	11,339.7	11,935.6	11,426.5	1.5	.9 .2
2007:	-618.6	1,363.2	1,981.8	1,987.1	737.5	488.8	248.6	1,249.3	11,370.5	11,970.9	11,419.1	.1	1.2
	-571.2	1,392.2	1,963.4	2,006.4	749.6	498.8	250.5		11,490.5	12,058.2 12,135.1	11,541.7	4.8	2.9
III IV	-511.8 -484.5	1,466.2 1,482.1	1,978.0 1,966.5	2,025.3 2,029.4	762.7 761.7	511.0 509.9	251.2 251.5	1,262.6 1,267.5	11,605.0 11,628.0	12,135.1	11,719.9 11,758.3	4.8 2	2.6 -1.0
2008: 1	-462.0	1,500.6	1,962.6	2,039.1	772.6	518.9	253.2	1,266.7	11,653.7	12,105.8	11,760.9	.9	.1
II	-381.3	1,544.7	1,926.0	2,058.9	785.0	528.1	256.3	1,274.4	11,778.8	12,102.6	11,822.2	2.8	1
P	-352.3	1,557.8	1,910.2	2,085.9	810.4	550.5	259.1	1,276.9	11,737.9	12,057.1	11,809.6	5	-1.5

 $^{^{\}rm I}$ Gross domestic product (GDP) less exports of goods and services plus imports of goods and services. $^{\rm 2}$ GDP plus net income receipts from rest of the world.

Table B-3.—Quantity and price indexes for gross domestic product, and percent changes, 1959-2008

[Quarterly data are seasonally adjusted]

		Index	numbers, 200	D=100		Percent change from preceding period ¹							
	Gross d	omestic produc		Personal co expendito	onsumption ures (PCE)	Gross de	omestic produ	-	Personal co	onsumption ures (PCE)			
Year or quarter	Real GDP (chain-type quantity index)	GDP chain-type price index	GDP implicit price deflator	PCE chain-type price index	PCE less food and energy price index	Real GDP (chain-type quantity index)	GDP chain-type price index	GDP implicit price deflator	PCE chain-type price index	PCE less food and energy price index			
1959	24.868 25.484 26.077 27.658 28.868 30.545 32.506	20.754 21.044 21.281 21.572 21.801 22.134 22.538	20.751 21.041 21.278 21.569 21.798 22.131 22.535	20.432 20.767 20.985 21.232 21.479 21.786 22.103	21.031 21.382 21.640 21.911 22.175 22.497 22.771	7.1 2.5 2.3 6.1 4.4 5.8 6.4	1.2 1.4 1.1 1.4 1.1 1.5	1.2 1.4 1.1 1.4 1.1 1.5	1.6 1.6 1.0 1.2 1.2 1.4 1.5	2.2 1.7 1.2 1.3 1.2 1.5 1.2 2.1			
1966	34.625 35.496 37.208 38.356 38.422	23.180 23.897 24.916 26.153 27.538	23.176 23.893 24.913 26.149 27.534	22.662 23.237 24.151 25.255 26.448	23.246 23.915 24.931 26.089 27.270	6.5 2.5 4.8 3.1	2.8 3.1 4.3 5.0	2.8 3.1 4.3 5.0 5.3	2.5 2.5 3.9 4.6 4.7	2.1 2.9 4.2 4.6 4.5			
1971 1972 1973 1974 1975 1976 1977 1978	39.713 41.815 44.224 44.001 43.916 46.256 48.391 51.085 52.699	28.916 30.171 31.854 34.721 38.007 40.202 42.758 45.762 49.553	28.911 30.166 31.849 34.725 38.002 40.196 42.752 45.757 49.548	27.574 28.528 30.081 33.191 35.955 37.948 40.410 43.248 47.059	28.538 29.462 30.533 32.825 35.543 37.716 40.112 42.756 45.735	3.4 5.3 5.8 5 2 5.3 4.6 5.6 3.2	5.0 4.3 5.6 9.0 9.5 5.8 6.4 7.0 8.3	5.0 4.3 5.6 9.0 9.4 5.8 6.4 7.0 8.3	4.7 4.3 5.4 10.3 8.3 5.5 6.5 7.0 8.8	4.6 3.2 3.6 7.5 8.3 6.1 6.4 6.6 7.0			
1980	52.579 53.904 52.860 55.249 59.220 61.666 63.804 65.958 68.684 71.116	54.062 59.128 62.738 65.214 67.664 69.724 71.269 73.204 75.706 78.569	54.043 59.119 62.726 65.207 67.655 69.713 71.250 73.196 75.694 78.556	52.078 56.720 59.859 62.436 64.795 66.936 68.569 70.947 73.755 76.972	49.869 54.215 57.776 60.823 63.352 65.778 68.244 70.772 73.838 76.884	-2 2.5 -1.9 4.5 7.2 4.1 3.5 3.4 4.1 3.5	9.1 9.4 6.1 3.9 3.8 3.0 2.2 2.7 3.4 3.8	9.1 9.4 6.1 4.0 3.8 3.0 2.2 2.7 3.4 3.8	10.7 8.9 5.5 4.3 3.8 3.3 2.4 3.5 4.0 4.4	9.0 8.7 6.6 5.3 4.2 3.8 3.7 3.7 4.3 4.1			
1990 1991 1992 1993 1994 1995 1996 1997 1998	72.451 72.329 74.734 76.731 79.816 81.814 84.842 88.658 92.359 96.469	81.614 84.457 86.402 88.390 90.265 92.115 93.859 95.415 96.475 97.868	81.590 84.444 86.385 88.381 90.259 92.106 93.852 95.414 96.472 97.868	80.498 83.419 85.824 87.804 89.654 91.577 93.547 95.124 95.978 97.575	80.156 83.292 86.130 88.332 90.372 92.388 94.124 95.644 96.895 98.343	1.9 -2 3.3 2.7 4.0 2.5 3.7 4.5 4.2 4.5	3.9 3.5 2.3 2.1 2.0 1.9 1.7 1.1	3.9 3.5 2.3 2.1 2.0 1.9 1.7 1.1	4.6 3.6 2.9 2.3 2.1 2.1 2.2 1.7 9	4.3 3.9 3.4 2.6 2.3 2.2 1.9 1.6 1.3			
2000	100.000 100.751 102.362 104.931 108.748 111.944 115.054 117.388	100.000 102.402 104.193 106.409 109.462 113.039 116.676 119.819	100.000 102.399 104.187 106.404 109.462 113.034 116.676 119.816	100.000 102.094 103.542 105.597 108.392 111.581 114.675 117.659	100.000 101.904 103.705 105.175 107.338 109.644 112.129 114.548	3.7 .8 1.6 2.5 3.6 2.9 2.8 2.0	2.2 2.4 1.7 2.1 2.9 3.3 3.2 2.7	2.2 2.4 1.7 2.1 2.9 3.3 3.2 2.7	2.5 2.1 1.4 2.0 2.6 2.9 2.8 2.6	1.7 1.9 1.8 1.4 2.1 2.1 2.3 2.2			
2005: 	110.786 111.502 112.560 112.928	111.778 112.357 113.487 114.536	111.765 112.346 113.468 114.525	110.187 110.881 112.168 113.089	108.838 109.405 109.838 110.495	3.0 2.6 3.8 1.3	4.0 2.1 4.1 3.7	4.0 2.1 4.1 3.8	2.5 2.5 4.7 3.3	2.5 2.1 1.6 2.4			
2006: 	114.264 115.022 115.250 115.681	115.536 116.317 117.109 117.742	115.533 116.317 117.107 117.732	113.581 114.499 115.381 115.239	111.076 111.887 112.531 113.022	4.8 2.7 .8 1.5	3.5 2.7 2.8 2.2	3.6 2.7 2.7 2.2	1.8 3.3 3.1 5	2.1 3.0 2.3 1.8			
2007: 	115.696 117.056 118.425 118.374	118.935 119.531 119.984 120.826	118.956 119.547 119.997 120.743	116.202 117.246 117.969 119.221	113.682 114.201 114.797 115.512	.1 4.8 4.8 2	4.1 2.0 1.5 2.8	4.2 2.0 1.5 2.5	3.4 3.6 2.5 4.3	2.4 1.8 2.1 2.5			
2008: I II	118.631 119.460 119.307	121.613 121.951 123.205	121.508 121.890 123.122	120.283 121.544 123.091	116.158 116.782 117.540	.9 2.8 5	2.6 1.1 4.2	2.6 1.3 4.1	3.6 4.3 5.2	2.3 2.2 2.6			

¹ Quarterly percent changes are at annual rates.

Table B-4.—Percent changes in real gross domestic product, 1959–2008

[Percent change from preceding period; quarterly data at seasonally adjusted annual rates]

			Persona	ıl consump	otion exper	nditures	Gross p	rivate don	nestic inve	estment		ts and of goods ervices	Government consumption expenditures and gross investment		
Voor or au	ortor	Gross domes-					Nonre	esidential	fixed						
Year or quarter	irtei	tic product	Total	Durable goods	Non- durable goods	Serv- ices	Total	Struc- tures	Equip- ment and soft- ware	Resi- dential fixed	Exports	Imports	Total	Federal	State and local
1959		7.1	5.6	12.1	4.1	5.3	8.0	2.4	11.9	25.4	10.3	10.5	3.4	3.1	3.8
1960		2.5 2.3	2.8 2.1	2.0	1.5	4.5 4.2	5.7	7.9	4.2 -1.9	-7.1	17.4	1.3	.2 5.0	-2.7 4.2	4.4 6.2
1961 1962		6.1	5.0	-3.8 11.7	1.8 3.1	4.2 5.0	6 8.7	1.4 4.5	11.6	.3 9.6	.5 5.1	7 11.3	5.U 6.2	8.5 8.5	3.1
1963		4.4	4.1	9.7	2.1	4.6	5.6	1.1	8.4	11.8	7.1	2.7	2.6	.1	6.0
1964		5.8	6.0	9.3	4.9	6.1	11.9	10.4	12.8	5.8 -2.9	11.8	5.3	2.2 3.0	-1.3	6.8
1965		6.4	6.3	12.7	5.3	5.3	17.4	15.9	18.3		2.8	10.6		.0	6.7
1966 1967		6.5 2.5	5.7 3.0	8.4 1.6	5.5 1.6	5.0 4.9	12.5 -1.4	6.8 -2.5	16.0 7	-8.9 -3.1	6.9	14.9 7.3	8.8 7.7	11.0 9.9	6.3 5.0
1968		4.8	5.7	11.0	4.6	5.2	4.5	1.5	6.2	13.6	2.3 7.9	14.9	3.1	.8	5.9
1969		3.1	3.7	3.5	2.7	4.8	7.6	5.4	8.8	3.0	4.8	5.7	2	-3.4	3.4
1970		.2	2.3	-3.2	2.4	4.0	5	.3	-1.0	-6.0	10.7	4.3	-2.4	-7.4	2.8
1971		3.4	3.8	10.0	1.8	3.9	.0	-1.6	1.0	27.4	1.7	5.3 11.3	-2.2	-7.7	3.1
1972		5.3	6.1	12.7	4.4	5.7	9.2	3.1	12.9	17.8	7.5		7 4	-4.1	2.2
1973		5.8	4.9 8	10.3 -6.9	3.3 -2.0	4.7 2.3	14.6 .8	8.2 -2.1	18.3 2.6	6 -20.6	18.9 7.9	4.6 -2.3	4 2.5	-4.2 .9	2.8
10/J		5 2	2.3	.0	1.5	3.7	-9.9	-10.5	-9.5	-13.0	6	-11.1	2.5 2.3	.3	3.8 3.7
1976		5.3	5.5	12.8	4.9	4.1	4.9	2.4	6.2	23.6	4.4	19.5	.4	.0	.7
1977 1978		4.6 5.6	4.2 4.4	9.3 5.3	2.4 3.7	4.3 4.7	11.3 15.0	4.1 14.4	15.1 15.2	21.5 6.3	2.4 10.5	10.9 8.7	1.1 2.9	2.1 2.5	.4 3.3
1979		3.2	2.4	3	2.7	3.1	10.1	12.7	8.7	-3.7	9.9	1.7	1.9	2.4	1.5
1980		2	3	-7.8	2	1.8	3	5.8	-3.6	-21.2	10.8	-6.6	2.0	4.7	1
1981		2.5	1.4	1.2	1.2	1.7	5.7	8.0	4.3	-8.0	1.2	2.6	.9	4.8	-2.0
1982		-1.9	1.4	1	1.0	2.1	-3.8	-1.7	-5.2	-18.2	-7.6	-1.3	1.8	3.9	.1
1983 1984		4.5 7.2	5.7 5.3	14.6 14.6	3.3 4.0	5.5 4.1	-1.3 17.7	-10.8 14.0	5.4 19.8	41.4 14.8	-2.6 8.2	12.6 24.3	3.7 3.3	6.6 3.1	1.2 3.6
1985		4.1	5.2	10.1	2.7	5.6	6.6	7.1	6.4	1.6	3.0	6.5	7.0	7.8	6.2
1986		3.5	4.1	9.7	3.6	2.9	-2.9	-11.0	1.9	12.3	7.7	8.6	6.1	5.7	6.4
1987		3.4	3.3	1.7	2.4	4.3	1	-2.9	1.4	2.0	10.8	5.9	2.5	3.6	1.5
1988 1989		4.1 3.5	4.1 2.8	6.0 2.2	3.3 2.8	4.0 3.0	5.2 5.6	.6 2.0	7.5 7.3	-1.0 -3.0	16.0 11.5	3.9 4.4	1.3 2.6	-1.6 1.5	3.7 3.4
1990		1.9	2.0	3	1.6	2.9	.5	1.5	.0	-8.6	9.0	3.6	3.2	2.0	4.1
1991		2	.2	-5.6	2	1.7	-5.4	-11.1	-2.6	-0.0 -9.6	6.6	6	1.1	2	2.1
1992		2 3.3 2.7	3.3	5.9	2.0	3.5 2.8	3.2	-6.0	7.3	13.8	6.9	7.0	.5	-1.7	2.2
1993		2.7	3.3	7.8	2.7	2.8	8.7	7	12.5	8.2	3.2 8.7	8.8 11.9	9	-4.2	1.4
1994 1995		4.0 2.5	3.7 2.7	8.4 4.4	3.5 2.2	2.9 2.6	9.2 10.5	1.8 6.4	11.9 12.0	9.6 -3.2	10.1	8.0	.0 .5	-3.7 -2.7	2.6 2.6
1996		2.5 3.7	3.4	7.8	2.6	2.9	9.3	5.6	10.6	8.0	8.4	8.7	1.0	-1.2	2.3
1997		4.5 4.2	3.8	8.6	2.7	3.3	12.1	7.3	13.8	1.9	11.9	13.6	1.9	-1.0	3.6
1998 1999		4.Z 4.5	5.0 5.1	11.3 11.7	4.0 4.6	4.2 4.0	11.1 9.2	5.1 4	13.3 12.7	7.6 6.0	2.4 4.3	11.6 11.5	1.9 3.9	-1.1 2.2	3.6 4.7
2000		3.7	4.7	7.3	3.8	4.5	8.7	6.8	9.4	.8	8.7	13.1	2.1	.9	2.7
2001		.8		4.3	2.0	2.4 1.9	-4.2	-2.3	-4.9	.4	-5.4	-2.7	3.4	3.9 7.0	3.2
ZUUZ		1.6	2.5 2.7	7.1	2.0 2.5	1.9	-9.2	-17.1	-6.2	4.8	-2.3	-2.7 3.4	4.4	7.0	3.1
2003		2.5 3.6	2.8 3.6	5.8 6.3	3.2 3.5	1.9 3.2	1.0	-4.1	2.8 7.4	8.4 10.0	1.3 9.7	4.1 11.3	2.5 1.4	6.8 4.2	.2 2
2004 2005		2.9	3.b 3.0	4.6	3.4	2.6	5.8 7.2	1.3 1.3	9.3	6.3	7.0	5.9	.4	1.2	2 1
2006		2.8	3.0 3.0	4.5	3.7	2.5	7.5	8.2	9.3 7.2	-7.1	9.1	6.0	1.7	2.3	1.3
2007		2.0	2.8	4.8	2.5	2.6	4.9	12.7	1.7	-17.9	8.4	2.2	2.1	1.6	2.3
2005:		3.0	1.7	.6	2.4	1.7	3.7	7.5	2.3	8.1	8.1	3.2	2	1.1	-1.0
II III		2.6 3.8	3.6 3.7	12.1 5.4	4.2 3.0	1.7 3.8	6.3 6.1	-1.3 -9.2	9.2 12.2	9.7 4.0	8.8 .4	.6 .8	.9 3.4	1.1 9.7	.8 1
IV		1.3	1.4	-11.7	4.7	2.5	3.7	1.9	4.4	.2	10.9	15.3	-1.7	-7.2	1.6
		4.8	4.3	18.9	4.4	1.6	15.9	15.6	16.3	-3.6	16.7	10.3	3.9	10.0	.5
II		2.7	2.8	1.8	3.1 2.3	2.8 2.0	6.4	19.7	1.7	-16.6	5.5 3.5	.1	1.2	-1.5	2.9
III		.8	2.2	3.5			5.3	14.3	2.0	-21.4		3.1	1.7	1.9	1.6
IV		1.5	3.7	4.2	3.1	3.9	-1.0	2.5	-2.4	-19.5	15.6	2.0	1.6	1.8	1.5
		.1 4.8	3.9 2.0	9.2 5.0	3.5 1.9	3.1 1.4	3.4 10.3	11.2 18.3	.0 6.9	-16.2 -11.5	.6 8.8	7.7 -3.7	.9 3.9	-3.6 6.7	3.6 2.4
III		4.8	2.0 2.0	5.0 2.3	1.2	2.4	8.7	20.5	3.6	-20.6	23.0	-3.7 3.0	3.8	7.2	1.9
IV		2	1.0	.4	.3	1.4	3.4	8.5	1.0	-27.0	4.4	-2.3	.8	5	1.6
2008:		.9	.9	-4.3	4	2.4	2.4	8.6	6	-25.1	5.1	8	1.9	5.8	3
		2.8	1.2	-2.8	3.9	.7	2.5	18.5	-5.0	-13.3	12.3	-7.3	3.9	6.6	2.5

Note.—Percent changes based on unrounded data.

Table B-5.—Contributions to percent change in real gross domestic product, 1959–2008

[Percentage points, except as noted; quarterly data at seasonally adjusted annual rates]

		(3-													
			Persor	nal consump	tion expend	litures	Gross private domestic investment								
		Gross							Fix	ed investm	ent				
Year	or quarter	domestic product		Durable	Non-				N	onresidenti	al		Change in		
		(percent change)	Total	goods	durable goods	Services	Total	Total	Total	Struc- tures	Equip- ment and software	Resi- dential	private inven- tories		
		7.1	3.55	0.97	1.25	1.33	2.80	1.94	0.73	0.09	0.64	1.21	0.86		
1961 1962 1963		2.5 2.3 6.1 4.4	1.73 1.30 3.11 2.56	.17 31 .89 .77	.44 .53 .90 .59	1.12 1.08 1.31 1.20	.00 10 1.81 1.00	.13 04 1.24 1.08	.52 06 .78 .50	.28 .05 .16 .04	.24 11 .61 .46	39 .01 .46 .58	13 05 .57 08		
1965 1966		5.8 6.4 6.5 2.5	3.71 3.91 3.50 1.81	.77 1.07 .73 .13	1.33 1.43 1.46 .42	1.61 1.42 1.31 1.26	1.25 2.16 1.44 76	1.37 1.50 .87 –.28	1.07 1.65 1.29 –.15	.36 .57 .27 –.10	.71 1.07 1.02 –.05	.30 15 43 13	13 .66 .58 49		
1968		4.8 3.1	3.50 2.27	.93 .31	1.19 .69	1.38 1.28	.90 .90	1.00	.46 .78	.06 .20	.41 .58	.53 .13	10 .00		
1971 1972		.2 3.4 5.3 5.8	1.42 2.38 3.80 3.05	28 .81 1.07 .90	.61 .47 1.11 .82	1.08 1.09 1.61 1.33	-1.04 1.67 1.87 1.96	31 1.10 1.81 1.46	06 .00 .92 1.50	.01 06 .12 .31	07 .07 .81 1.19	26 1.10 .89 04	73 .58 .06 .50		
1974 1975		5 2 5.3	47 1.42 3.48	61 .00 1.04	51 .37 1.24	.65 1.05 1.19	-1.30 -2.98 2.84	-1.04 -1.71 1.42	.09 -1.14 .52	09 43	.18 70 .43	-1.13 57	27 -1.27 1.41		
1977 1978		4.6 5.6 3.2	2.68 2.76 1.52	.80 .47 –.03	.60 .91 .65	1.27 1.38 .90	2.43 2.16 .61	2.18 2.04 1.02	1.19 1.69 1.23	.15 .54 .52	1.04 1.15 .71	.99 .35 –.21	.25 .12 41		
1981 1982		2 2.5 -1.9	17 .90 .87	65 .09 .00	04 .29 .23	.52 .51 .65	-2.12 1.59 -2.55	-1.21 .39 -1.22	04 .74 51	.27 .40 –.09	30 .34 42	-1.17 35 71	91 1.20 -1.34		
1983 1984 1985		4.5 7.2 4.1	3.65 3.44 3.31	1.07 1.15 .83	.80 .93 .61	1.79 1.36 1.87	1.45 4.63 17	1.17 2.68 .89	16 2.05 .82	57 .60 .32	.41 1.44 .50	1.33 .64 .07	.29 1.95 -1.06		
1987 1988		3.5 3.4 4.1 3.5	2.62 2.17 2.66 1.86	.83 .16 .53 .19	.78 .52 .70 .59	1.01 1.50 1.43 1.07	12 .51 .39 .64	.20 .09 .52 .47	36 01 .57 .61	50 11 .02 .07	.15 .10 .55 .54	.55 .10 –.05 –.14	32 .42 14 .17		
1990 1991		1.9 2 3.3	1.34 .11 2.18	02 46 .44	.33 05 .43	1.03 .62 1.31	53 -1.20 1.07	32 94 .79	.05 57 .32	.05 39 18	.00 18 .50	37 37 .47	21 26 .29		
1993 1994 1995		2.7 4.0 2.5	2.23 2.52 1.81	.59 .66 .36	.56 .71 .44	1.09 1.14 1.01	1.21 1.93 .48	1.14 1.30 .94	.83 .91 1.08	02 .05 .17	.85 .87 .91	.31 .39 –.14	.07 .63 –.46		
1997 1998		3.7 4.5 4.2 4.5	2.31 2.54 3.36 3.44	.64 .70 .93 .99	.51 .53 .78 .89	1.15 1.31 1.66 1.56	1.35 1.95 1.63 1.33	1.34 1.42 1.60 1.36	1.01 1.33 1.28 1.09	.16 .21 .16 –.01	.85 1.12 1.12 1.11	.33 .08 .32 .27	.02 .54 .03 –.03		
2000 2001		3.7 .8 1.6	3.17 1.74 1.90	.63 .37 .61	.74 .40 .50	1.80 .97 .79	.99 -1.39 41	1.09 50 84	1.06 52 -1.06	.21 07 55	.85 44 51	.03 .02 .22	10 88 .43		
2003 2004 2005		2.5 3.6 2.9	1.94 2.56 2.13	.50 .53 .38	.64 .71 .69	.80 1.32 1.06	.54 1.48 .95	.51 1.10 1.08	.10 .56 .71	11 .03 .03	.21 .53 .67	.41 .53 .37	.04 .39 –.13		
2007		2.8 2.0 3.0	2.13 1.95 1.25	.36 .38	.74 .50 .49	1.02 1.07 .72	.35 90 1.48	.32 50 .85	.77 .52 .37	.23 .40 .19	.54 .13	45 -1.02 .48	.03 40 .63		
	 	2.6 3.8 1.3	2.50 2.59 .94	.04 .95 .44 –1.02	.49 .83 .59 .93	.72 .72 1.55 1.02	86 .69 1.98	1.21 .88 .41	.64 .64 .40	04 26 .05	.18 .68 .90	.48 .57 .25 .01	-2.07 19 1.56		
2006:	 	4.8 2.7 .8	2.86 1.88 1.52	1.37 .14 .27	.85 .62 .46	.64 1.12 .79	1.15 02 92	1.39 40 81	1.62 .71 .59	.42 .54 .42	1.20 .16 .17	23 -1.11 -1.40	24 .38 11		
2007:	IV I II	1.5 .1 4.8 4.8	2.55 2.71 1.42 1.44	.33 .71 .40	.62 .71 .40 .25	1.61 1.29 .62 1.00	-2.68 -1.63 .94 .54	-1.27 57 .47 15	09 .33 1.07 .91	.08 .35 .57 .65	18 02 .50	-1.18 91 60 -1.06	-1.41 -1.06 .47 .69		
2008:	V <i>p</i>	2 .9 2.8 5	.67 .61 .87 –2.69	.03 33 21 -1.19	.05 08 .80 -1.51	1.02 1.28 .00	-1.93 89 -1.74	97 86 25 82	.36 .26 .27 –.16	.29 .30 .64 .25	.07 04 37 41	-1.33 -1.12 52 66	96 02 -1.50		

See next page for continuation of table.

Table B-5.—Contributions to percent change in real gross domestic product, 1959-2008-Continued

[Percentage points, except as noted; quarterly data at seasonally adjusted annual rates]

		Percentage	e points, ex	cept as no	ted; quart	ly adjusted	y adjusted annual rates]					
			Net exports	s of goods a	nd services			Go	overnment overnment overnment o	consumptior gross invest	n expenditure ment	es
Year or quarter			Exports			Imports				Federal		State
	Net exports	Total	Goods	Services	Total	Goods	Services	Total	Total	National defense	Non- defense	and local
1959	0.00	0.45	-0.02	0.48	-0.45	-0.48	0.03	0.76	0.42	-0.23	0.65	0.34
1960 1961 1962 1963 1964 1965 1966 1967	.72 .06 21 .24 .36 30 29 22 30	.78 .03 .25 .35 .59 .15 .36 .12 .41	.76 .02 .17 .29 .52 .02 .27 .02 .30	.02 .01 .08 .06 .07 .13 .09 .10	06 .03 47 12 23 45 65 34 70	.05 .00 40 12 19 41 49 17 68 20	11 .02 07 .00 04 16 16 03 09	.03 1.07 1.36 .58 .49 .65 1.87 1.68 .73	35 .51 1.07 .01 17 .00 1.24 1.17 .10 42	17 .45 .63 25 40 19 1.21 1.19 .16	18 .06 .44 .26 .23 .19 .03 02 06	.39 .56 .29 .57 .65 .66 .63 .51 .63
1969 1970 1971 1972 1973 1974 1975 1976 1976 1977 1978	.34 19 21 .82 .75 .89 -1.08 72 .05	.56 .10 .42 1.12 .58 05 .37 .20 .82	.44 02 .43 1.01 .46 16 .31 .08 .68	.05 .12 .11 01 .12 .10 .05 .11 .15	22 29 63 29 -18 -94 -1.45 92 78 16	15 33 57 34 .17 .87 -1.35 84 67 14	07 .04 06 .05 .00 .07 10 07 11 02	55 50 16 08 .52 .48 .10 .23 .60	86 85 42 41 .08 .03 .00 .19 .22	83 97 61 39 05 06 02 .07 .05	03 .12 .18 02 .13 .09 .03 .12 .16	.31 .36 .26 .33 .44 .45 .09 .04 .38
1980	1.68 15 60 -1.35 -1.58 42 30 .17 .82	.97 .12 73 22 .63 .23 .54 .78 1.24	.86 09 67 19 .46 .20 .26 .56 1.04	.11 .21 06 03 .17 .02 .28 .21 .20	.71 27 .12 -1.13 -2.21 65 84 61 42	.67 18 .20 -1.00 -1.83 52 82 39 36 38	.04 09 08 13 39 13 02 22 07 10	.38 .19 .35 .77 .70 1.41 1.27 .52 .27	.39 .42 .35 .63 .30 .74 .55 .36 15	.25 .38 .48 .50 .35 .60 .47 .35 03	.14 .04 13 .13 05 .14 .08 .01 12	01 23 .01 .13 .40 .67 .71 .17 .42
1990 1991 1992 1993 1994 1995 1996 1997 1998	.43 .69 04 59 43 .11 14 34 -1.16	.81 .63 .68 .32 .85 1.04 .91 1.30 .27 .47	.56 .46 .52 .23 .67 .85 .68 1.11 .18	.26 .16 .16 .09 .18 .19 .22 .19 .09	39 .06 72 91 -1.29 93 -1.05 -1.64 -1.43 -1.46	26 .01 77 85 -1.18 87 94 -1.45 -1.20 -1.31	13 .05 .05 06 11 06 11 19 23 15	.64 .23 .11 18 .00 .10 .10 .18 .34 .34	.18 02 15 35 30 20 08 07 07	.00 07 32 33 27 19 07 13 09	.18 .06 .17 02 03 01 02 .06 .02	.46 .24 .26 .17 .30 .30 .26 .41 .41
2000 2001 2002 2003 2004 2005 2006 2007	86 20 69 44 68 21 02	.93 60 23 .12 .93 .71 .96	.84 48 28 .12 .60 .54 .73	.09 12 .06 .00 .33 .17 .23	-1.79 .40 46 56 -1.61 93 98 37	-1.55 .39 41 56 -1.33 89 82 25	25 .01 05 .00 27 04 16 12	.36 .60 .80 .47 .27 .07 .32 .40	.05 .23 .43 .44 .29 .09 .16	02 .15 .29 .37 .27 .07 .08	.07 .08 .14 .08 .03 .01 .08	.31 .37 .37 .02 02 01 .16
2005: 	.28 .79 07 -1.26	.80 .89 .04 1.09	.49 .98 –.06 .91	.31 09 .10 .18	52 10 11 -2.35	67 10 14 -2.18	.15 .00 .03 –.17	04 .17 .65 34	.08 .08 .66 53	.14 .18 .56 –.73	07 11 .10 .20	12 .10 01 .19
2006: 	.09 .59 12 1.33	1.70 .58 .39 1.66	1.27 .49 .28 .78	.42 .09 .11 .87	-1.61 .01 51 33	-1.18 04 51 .13	43 .05 .01 46	.72 .23 .32 .30	.66 11 .13 .12	.39 .09 04 .32	.27 20 .17 20	.06 .34 .19 .18
2007: I II IV	-1.20 1.66 2.03 .94	.06 1.01 2.54 .53	.15 .55 1.66 .43	09 .46 .88 .10	-1.25 .65 51 .40	-1.14 .59 34 .38	11 .06 17 .02	.17 .77 .75 .16	26 .47 .51 04	29 .40 .48 04	.03 .07 .03 .01	.43 .30 .24 .19
2008: p	.77 2.93 1.07	.63 1.54 .46	.39 1.39 .36	.24 .15 .10	.14 1.39 .61	.29 1.14 .70	15 .25 09	.38 .78 1.06	.41 .47 .96	.34 .36 .85	.06 .11 .10	03 .31 .10

Table B-6.—Chain-type quantity indexes for gross domestic product, 1959–2008

[Index numbers, 2000=100; quarterly data seasonally adjusted]

					otion expendi	iy uata seas	Gros		mestic invest	ment		
			1 0.00	mar contains	пол опропа	100		0.00	•	xed investme		
Year o	or quarter	Gross domestic		Durchle	Non-					Vonresidentia		
		product	Total	Durable goods	durable goods	Services	Total	Total	Total	Structures	Equip- ment and software	Resi- dential
		24.868	23.067	10.822	33.491	20.794	15.367	15.736	10.760	36.530	6.065	37.820
1961 1962 1963 1964 1965 1966 1968 1969		25.484 26.077 27.658 28.868 30.545 32.506 34.625 35.496 37.208 38.356 38.422	23.702 24.191 25.389 26.436 28.020 29.791 31.484 32.422 34.284 35.558 36.381	11.041 10.622 11.865 13.017 14.222 16.025 17.377 17.648 19.594 20.289	33.994 34.621 35.710 36.463 38.248 40.277 42.487 43.157 45.126 46.326 47.436	21.720 22.626 23.747 24.830 26.345 27.749 29.129 30.552 32.148 33.691 35.038	15.362 15.261 17.197 18.351 19.863 22.650 24.644 23.517 24.887 26.338 24.608	15.870 15.820 17.248 18.584 20.378 22.459 23.745 23.306 24.935 26.486 25.931	11.371 11.299 12.284 12.966 14.504 17.031 19.160 18.900 19.746 21.246	39.433 39.966 41,775 42.239 46.626 54.058 57.751 56.284 57.102 60.189 60.364	6.322 6.200 6.917 7.500 8.457 10.007 11.609 11.532 12.250 13.334	35.129 35.227 38.604 43.154 45.662 44.329 40.362 39.092 44.421 45.733 42.998
1971 1972 1973 1974 1975 1976 1977 1978		39,713 41.815 44.224 44.001 43.916 46.256 48.391 51.085 52.699	37.770 40.082 42.048 41.729 42.688 45.041 46.950 49.012 50.204	21.593 24.336 26.849 25.001 24.996 28.187 30.809 32.435 32.325	48.294 50.422 52.068 51.020 51.771 54.301 55.609 57.687 59.226	36.400 38.469 40.274 41.216 42.743 44.475 46.392 48.558 50.044	27,413 30,658 34,249 31,729 26,111 31,387 36,130 40,486 41,776	27.894 31.246 34.101 31.971 28.541 31.356 35.863 40.205 42.473	21.135 23.072 26.429 26.653 24.022 25.200 28.045 32.243 35.489	59.370 61.201 66.200 64.785 57.984 59.390 61.841 70.769 79.731	13.332 15.052 17.812 18.268 16.529 17.562 20.208 23.284 25.318	54.789 64.526 64.112 50.877 44.271 54.698 66.440 70.623 68.032
1980 1981 1982 1983 1984 1985 1986 1988		52.579 53.904 52.860 55.249 59.220 61.666 63.804 65.958 68.684 71.116	50.065 50.779 51.493 54.436 57.325 60.303 62.749 64.840 67.468 69.369	29.788 30.149 30.128 34.535 39.577 43.577 47.785 48.616 51.549 52.686	59.137 59.839 60.409 62.417 64.898 66.665 69.060 70.715 73.016 75.044	50.921 51.773 52.865 55.760 58.026 61.303 63.111 65.843 68.506 70.555	37.182 40.615 34.918 38.172 49.420 48.963 48.629 50.130 51.309 53.369	39.708 40.591 37.737 40.491 47.331 49.823 50.403 50.682 52.352 53.928	35.388 37.398 35.981 35.518 41.788 44.561 43.287 43.259 45.520 48.063	84.350 91.074 89.528 79.865 91.016 97.502 86.817 84.340 84.885 86.583	24.407 25.445 24.122 25.420 30.462 32.397 33.011 33.463 35.987 38.624	53.636 49.336 40.378 57.093 65.566 66.604 74.776 76.269 75.496 73.204
1991 1992 1993 1994 1995 1997 1998		72.451 72.329 74.734 76.731 79.816 81.814 84.842 88.658 92.359 96.469	70.782 70.903 73.224 75.672 78.504 80.623 83.382 86.533 90.896 95.537	52.532 49.564 52.470 56.577 61.321 64.011 69.025 74.935 83.432 93.192	76.209 76.033 77.553 79.619 82.369 84.152 86.300 88.605 92.154 96.374	72.583 73.812 76.379 78.540 80.854 82.973 85.420 88.270 92.011 95.652	51.574 47.378 51.223 55.795 63.358 65.340 71.123 79.961 87.821 94.647	52.803 49.379 52.312 56.788 62.079 66.090 72.018 78.657 86.657 93.884	48.302 45.712 47.179 51.287 55.999 61.885 67.661 75.820 84.232 91.980	87.867 78.091 73.423 72.891 74.180 78.903 83.354 89.432 94.019 93.619	38.636 37.643 40.387 45.428 50.846 56.930 62.981 71.641 81.137 91.437	66.887 60.460 68.825 74.446 81.621 79.005 85.331 86.947 93.597 99.254
2001 2002 2003 2004 2005 2006		100.000 100.751 102.362 104.931 108.748 111.944 115.054 117.388	100.000 102.537 105.340 108.249 112.197 115.615 119.135 122.456	100.000 104.327 111.752 118.214 125.652 131.397 137.274 143.908	100.000 102.027 104.614 108.002 111.833 115.687 119.930 122.872	100.000 102.403 104.366 106.363 109.726 112.525 115.298 118.259	100.000 92.103 89.724 92.949 102.003 107.953 110.200 104.278	100.000 97.047 91.997 95.110 102.012 108.984 111.109 107.717	100.000 95.817 86.969 87.804 92.873 99.520 106.987 112.244	100.000 97.737 81.029 77.735 78.760 79.747 86.318 97.264	100.000 95.136 89.265 91.747 98.505 107.695 115.467 117.412	100.000 100.357 105.149 113.977 125.343 133.226 123.728 101.534
II II	 	110.786 111.502 112.560 112.928	114.217 115.239 116.303 116.701	128.761 132.478 134.236 130.112	114.043 115.225 116.068 117.412	111.465 111.946 112.995 113.696	107.702 106.298 107.337 110.477	106.643 108.608 110.022 110.661	97.429 98.935 100.407 101.311	80.813 80.545 78.627 79.001	104.100 106.425 109.536 110.717	130.259 133.311 134.634 134.700
 	 	114.264 115.022 115.250 115.681	117.925 118.737 119.393 120.485	135.877 136.485 137.652 139.081	118.670 119.590 120.275 121.187	114.149 114.938 115.495 116.612	112.150 112.032 110.504 106.115	112.880 112.156 110.779 108.621	105.125 106.766 108.164 107.893	81.910 85.668 88.574 89.121	114.985 115.484 116.049 115.349	133.477 127.572 120.102 113.763
	IV	115.696 117.056 118.425 118.374	121.631 122.226 122.838 123.130	142.162 143.894 144.720 144.856	122.232 122.815 123.182 123.261	117.494 117.916 118.605 119.020	103.483 105.040 105.950 102.639	107.674 108.475 108.218 106.503	108.794 111.502 113.863 114.819	91.526 95.447 100.005 102.076	115.360 117.302 118.348 118.636	108.831 105.552 99.644 92.110
2008: I	 p	118.631 119.460 119.307	123.395 123.770 122.595	143.284 142.273 136.538	123.147 124.317 122.113	119.739 119.937 119.940	101.110 98.071 98.179	104.969 104.522 103.036	115.504 116.212 115.783	104.206 108.716 110.474	118.470 116.961 115.272	85.698 82.692 78.788

See next page for continuation of table.

Table B-6.—Chain-type quantity indexes for gross domestic product, 1959-2008—Continued [Index numbers, 2000=100; quarterly data seasonally adjusted]

	Exports of	of goods and	services	Imports	of goods and	services	Governmen	t consumptio	n expenditur	es and gross	investment
Year or quarter									Federal		State
	Total	Goods	Services	Total	Goods	Services	Total	Total	National defense	Non- defense	and local
1959	7.043	6.198	9.641	6.908	5.403	15.462	41.489	68.666	89.447	33.305	26.999
1960	8.266	7.651	9.797	7.000	5.314	16.669	41.553	66.779	87.977	30.672	28.182
	8.309	7.689	9.857	6.953	5.307	16.385	43.639	69.564	91.851	31.599	29.918
	8.729	8.031	10.535	7.742	6.092	17.150	46.329	75.492	97.412	38.144	30.839
	9.353	8.662	11.070	7.951	6.339	17.137	47.522	75.540	95.085	42.217	32.696
	10.454	9.849	11.733	8.374	6.757	17.579	48.563	74.530	91.304	45.880	34.913
	10.747	9.901	12.926	9.265	7.714	18.096	50.028	74.508	89.403	48.995	37.252
	11.492	10.589	13.814	10.642	8.930	20.395	54.430	82.737	102.205	49.501	39.590
	11.757	10.638	14.905	11.417	9.400	22.887	58.604	90.960	115.571	49.059	41.589
1968	12.681	11.481	16.049	13.118	11.342	23.298	60.436	91.681	117.416	47.912	44.048
1969	13.294	12.082	16.646	13.866	11.963	24.767	60.290	88.525	111.604	49.186	45.534
1970	14.723	13.460	18.128	14.457	12.432	26.059	58.833	81.997	101.477	48.674	46.797
	14.973	13.408	19.527	15.229	13.474	25.317	57.553	75.686	89.980	50.961	48.232
	16.096	14.849	19.404	16.943	15.307	26.390	57.128	72.574	82.921	54.551	49.291
	19.131	18.259	20.775	17.729	16.388	25.500	56.926	69.519	78.322	54.213	50.694
	20.643	19.709	22.396	17.327	15.932	25.472	58.360	70.134	77.714	57.023	52.603
	20.512	19.252	23.773	15.402	13.924	24.367	59.675	70.360	76.977	58.965	54.536
	21.408	20.165	24.476	18.413	17.073	26.049	59.940	70.388	76.706	59.523	54.937
	21.923	20.429	26.055	20.426	19.153	27.347	60.598	71.880	77.597	62.089	55.137
	24.234	22.712	28.234	22.196	20.871	29.297	62.383	73.681	78.259	65.947	56.938
	26.637	25.396	29.103	22.565	21.229	29.700	63.549	75.465	80.648	66.640	57.775
1980 1981 1982 1983 1984 1985 1986 1987 1987	29.506 29.868 27.586 26.875 29.068 29.951 32.259 35.742 41.469 46.233	28.422 28.114 25.573 24.838 26.801 27.790 29.217 32.456 38.572 43.172	30.919 34.211 33.263 32.710 35.627 36.051 41.325 45.502 49.616 54.723	21.066 21.620 21.348 24.041 29.893 31.833 34.561 36.602 38.039 39.706	19.653 20.058 19.554 22.210 27.584 29.310 32.314 33.812 35.181 36.686	29.037 30.711 32.346 34.958 43.724 47.050 47.638 53.205 55.010 57.678	64.790 65.381 66.530 68.964 71.273 76.240 80.885 82.873 83.940 86.110	79.043 82.818 86.018 91.726 94.550 101.957 107.754 111.674 109.898 111.594	84.160 89.486 96.244 103.158 108.186 117.355 124.871 130.779 130.161 129.518	70.373 71.310 67.888 71.398 70.035 74.169 76.764 76.984 73.037 79.075	57.736 56.577 56.607 57.268 59.322 63.003 67.064 68.041 70.582 72.994
1990 1991 1992 1993 1994 1995 1996 1997 1998	50.394 53.736 57.439 59.291 64.447 70.982 76.930 86.082 88.164 91.969	46.810 50.042 53.785 55.534 60.937 68.070 74.086 84.717 86.614 89.907	60.480 64.082 67.590 69.726 74.097 78.793 84.483 89.509 92.077 97.207	41.139 40.905 43.748 47.576 53.256 57.539 62.544 71.037 79.299 88.391	37.770 37.741 41.263 45.423 51.466 56.104 61.337 70.172 78.364 88.078	61.430 59.849 58.321 60.026 63.421 65.492 69.094 75.600 84.222 90.038	88.869 89.872 90.342 89.513 89.525 90.015 90.896 92.588 94.354 97.987	113.873 113.679 111.713 107.056 103.050 100.254 99.091 98.066 96.970 99.122	129.472 128.050 121.708 114.860 109.259 105.093 103.648 100.733 98.650 100.515	85.651 87.700 93.749 93.087 91.957 91.613 90.955 93.320 93.985 96.646	75.991 77.600 79.318 80.459 82.543 84.728 86.668 89.770 93.014 97.409
2000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000
2001	94.565	93.871	96.302	97.291	96.833	99.706	103.412	103.908	103.936	103.859	103.162
2002	92.430	90.143	98.104	100.601	100.377	101.824	107.969	111.169	111.578	110.441	106.354
2003	93.599	91.771	98.148	104.693	105.294	101.857	110.644	118.712	121.239	114.181	106.557
2004	102.723	100.011	109.451	116.546	117.173	113.589	112.210	123.693	128.282	115.441	106.384
2005	109.942	107.698	115.535	123.455	125.164	115.216	112.626	125.181	130.227	116.104	106.256
2006	119.937	118.407	123.826	130.815	132.613	122.153	114.497	128.019	132.315	120.318	107.642
2007	130.068	127.335	136.868	133.654	134.921	127.581	116.871	130.078	135.596	120.127	110.167
2005: I II IV	107.447 109.747 109.853 112.721	104.279 107.860 107.632 111.023	115.288 114.468 115.385 117.001	122.083 122.271 122.509 126.955	123.580 123.807 124.154 129.114	114.891 114.888 114.586 116.499	112.079 112.337 113.291 112.797	124.058 124.408 127.310 124.950	128.624 129.887 133.707 128.689	115.848 114.535 115.770 118.262	106.001 106.214 106.189 106.621
2006:	117.147	115.734	120.750	130.118	131.940	121.337	113.877	127.952	131.428	121.759	106.746
	118.712	117.614	121.557	130.161	132.115	120.740	114.228	127.459	132.053	119.209	107.520
	119.734	118.658	122.526	131.164	133.338	120.663	114.714	128.048	131.759	121.429	107.954
	124.153	121.621	130.470	131.818	133.057	125.872	115.167	128.616	134.019	118.877	108.348
2007:	124.343	122.251	129.591	134.289	135.772	127.166	115.421	127.426	131.986	119.235	109.314
	126.992	124.300	133.690	133.041	134.401	126.515	116.541	129.507	134.701	120.154	109.957
	133.747	130.571	141.620	134.033	135.197	128.460	117.642	131.772	138.002	120.506	110.484
	135.189	132.219	142.570	133.254	134.315	128.185	117.879	131.610	137.694	120.614	110.914
2008:	136.880	133.690	144.792	132.991	133.654	129.913	118.443	133.488	140.125	121.469	110.844
	140.908	138.826	146.131	130.509	131.212	127.217	119.594	135.628	142.621	122.949	111.517
<i>p</i>	142.100	140.150	147.004	129.436	129.740	128.226	121.163	140.023	148.649	124.299	111.734

Table B-7.—Chain-type price indexes for gross domestic product, 1959–2008

[Index numbers, 2000=100, except as noted; quarterly data seasonally adjusted]

			Perso	nal consump	ntion expendi	tures		Gros	s private dor	nestic invest	ment	
		Cross							Fi	xed investme	ent	
Yea	r or quarter	Gross domestic product	Total	Durable	Non- durable	Services	Total		N	Vonresidentia	al	
		product	iotai	goods	goods	Services	iotai	Total	Total	Structures	Equip- ment and software	Resi- dential
		20.754	20.432	45.662	22.765	15.485	29.474	28.262	35.114	15.923	50.882	16.630
1961 1962 1963 1964 1965 1966 1967 1968		21.044 21.281 21.572 21.801 22.134 22.538 23.180 23.897 24.916 26.153	20.767 20.985 21.232 21.479 21.786 22.103 22.662 23.237 24.151 25.255	45.444 45.551 45.755 45.915 46.142 45.721 45.517 46.228 47.749 49.067	23.089 23.227 23.412 23.683 23.986 24.423 25.232 25.830 26.820 28.062	15.887 16.173 16.466 16.701 17.016 17.334 17.810 18.349 19.128 20.106	29.619 29.538 29.558 29.467 29.634 30.107 30.726 31.538 32.714 34.264	28.414 28.325 28.346 28.267 28.440 28.926 29.536 30.364 31.582 33.140	35.275 35.076 35.087 35.088 35.268 35.672 36.206 37.129 38.431 40.018	15.904 15.810 15.941 16.085 16.316 16.791 17.398 17.943 18.835 20.074	51.305 51.025 50.774 50.495 50.474 50.520 50.654 51.776 53.167 54.645	16.743 16.769 16.795 16.663 16.796 17.272 17.899 18.521 19.504 20.853
1971 . 1972 . 1973 . 1974 . 1975 . 1976 . 1977 . 1978 .		27.538 28.916 30.171 31.854 34.721 38.007 40.202 42.758 45.762 49.553	26.448 27.574 28.528 30.081 33.191 35.955 37.948 40.410 43.248 47.059	50.148 51.975 52.531 53.301 56.676 61.844 65.278 68.129 72.038 76.830	29.446 30.359 31.373 33.838 38.702 41.735 43.346 45.911 48.985 54.148	21.175 22.340 23.304 24.381 26.345 28.595 30.603 32.933 35.464 38.316	35.713 37.493 39.062 41.172 45.263 50.847 53.654 57.677 62.381 68.027	34.565 36.306 37.865 39.958 43.890 49.384 52.244 56.342 61.101 66.642	41.908 43.880 45.367 47.115 51.658 58.763 62.018 66.258 70.695 76.440	21.390 23.040 24.704 26.619 30.295 33.911 35.571 38.651 42.382 47.313	56.657 58.340 59.044 60.047 64.474 74.001 78.355 83.011 87.391 92.932	21.526 22.775 24.158 26.297 29.011 31.706 33.743 37.147 41.696 46.374
1981 . 1982 . 1983 . 1984 . 1985 . 1986 . 1987 .		54.062 59.128 62.738 65.214 67.664 69.724 71.269 73.204 75.706 78.569	52.078 56.720 59.859 62.436 64.795 66.936 68.569 70.947 73.755 76.972	83.277 88.879 92.358 94.181 95.550 96.620 97.685 100.465 101.921 103.717	60.449 65.130 66.955 68.386 70.004 71.543 71.273 73.731 76.206 79.842	42.332 46.746 50.528 53.799 56.680 59.295 62.040 64.299 67.493 70.708	74.424 81.278 85.455 85.237 85.845 86.720 88.599 90.289 92.354 94.559	72.887 79.670 84.047 83.912 84.399 85.457 87.501 89.118 91.431 93.641	83.198 91.245 96.295 95.432 95.195 95.936 97.566 98.435 100.625 102.731	51.740 58.880 63.566 61.939 62.468 63.940 65.168 66.199 69.016 71.707	100.868 108.077 112.293 112.530 111.547 111.413 113.178 113.796 115.216 116.657	51.394 55.587 58.564 59.908 61.630 63.219 65.868 68.561 70.928 73.211
1991 . 1992 . 1993 . 1994 . 1995 . 1996 . 1997 .		81.614 84.457 86.402 88.390 90.265 92.115 93.859 95.415 96.475 97.868	80.498 83.419 85.824 87.804 89.654 91.577 93.547 95.124 95.978 97.575	104.561 106.080 106.756 107.840 109.978 110.672 109.507 107.068 104.152 101.626	84.226 86.779 88.105 88.973 89.605 90.629 92.567 93.835 93.821 96.173	74.197 77.497 80.684 83.345 85.748 88.320 90.844 93.305 95.319 97.393	96.379 97.749 97.395 98.521 99.813 100.941 100.520 100.157 99.035 98.972	95.542 96.960 96.670 97.805 99.133 100.292 100.028 99.785 98.861 98.888	104.695 106.314 105.411 105.487 106.008 106.239 105.011 103.696 101.421 100.057	74.015 75.355 75.330 77.602 80.388 83.879 86.045 89.381 93.474 96.257	118.168 119.854 118.444 117.243 116.572 115.224 112.451 109.120 104.259 101.366	74.930 75.912 76.836 79.941 82.754 85.769 87.610 89.843 92.239 95.780
2002 . 2003 . 2004 . 2005 . 2006 .		100.000 102.402 104.193 106.409 109.462 113.039 116.676 119.819	100.000 102.094 103.542 105.597 108.392 111.581 114.675 117.659	100.000 98.114 95.766 92.366 90.696 89.984 88.772 87.154	100.000 101.531 102.089 104.145 107.626 111.606 114.984 118.407	100.000 103.257 106.018 109.379 112.929 116.700 120.752 124.712	100.000 101.013 101.640 103.191 106.686 111.381 116.102 117.735	100.000 101.023 101.660 103.313 106.845 111.638 116.380 117.995	100.000 99.683 99.513 99.591 100.896 103.829 107.277 108.739	100.000 105.403 110.030 113.872 120.912 135.177 151.822 157.662	100.000 97.708 95.956 94.912 94.600 94.534 94.594 94.870	100.000 104.633 107.240 112.372 120.587 129.268 136.897 138.884
2005:	 V	111.778 112.357 113.487 114.536	110.187 110.881 112.168 113.089	90.547 90.343 89.629 89.417	109.554 110.100 113.057 113.712	115.140 116.139 117.088 118.433	109.513 110.603 111.961 113.446	109.683 110.816 112.249 113.803	102.778 103.459 103.972 105.107	129.122 132.274 136.911 142.400	94.777 94.800 94.260 94.299	125.407 127.492 130.852 133.320
2006:	 V	115.536 116.317 117.109 117.742	113.581 114.499 115.381 115.239	89.208 89.027 88.726 88.126	113.794 115.155 116.412 114.578	119.313 120.285 121.279 122.130	114.891 115.877 116.348 117.293	115.208 116.172 116.610 117.528	106.217 107.070 107.530 108.291	147.181 151.404 153.108 155.595	94.471 94.457 94.578 94.870	135.418 136.670 137.089 138.412
2007:	 	118.935 119.531 119.984 120.826	116.202 117.246 117.969 119.221	87.717 87.365 86.938 86.598	116.025 117.830 118.682 121.092	123.200 124.218 125.179 126.253	117.756 117.659 117.566 117.960	118.008 117.945 117.836 118.189	108.654 108.730 108.558 109.015	156.912 157.195 157.402 159.138	94.976 94.992 94.712 94.798	139.181 138.733 138.820 138.803
2008:	 <i>p</i>	121.613 121.951 123.205	120.283 121.544 123.091	86.581 86.237 86.110	123.059 125.021 128.131	127.133 128.450 129.624	117.815 117.926 118.687	118.117 118.353 119.202	109.177 109.788 110.955	160.182 161.496 164.432	94.700 95.101 95.720	137.900 136.687 136.164

See next page for continuation of table.

Table B-7.—Chain-type price indexes for gross domestic product, 1959-2008—Continued

[Index numbers, 2000=100, except as noted; quarterly data seasonally adjusted]

	Exports ar of go and se	oods '	Go	vernment c and g	onsumptior gross invest	n expenditu ment	res	Final	Gross o	lomestic lases ¹	Per	cent chan	ge ²
Year or quarter					Federal		State	sales of domes- tic		Less	Gross domes-	Gross o	lomestic lases ¹
	Exports	Imports	Total	Total	National defense	Non- defense	and local	product	Total	food and energy	tic product	Total	Less food and energy
1959	29.433	21.901	15.404	16.450	16.257	16.591	14.475	20.581	20.365		1.2	1.2	
1960	29.846 30.300 30.375 30.307 30.556 31.529 32.481 33.725 34.461 35.627 36.993 38.358 61.682 63.707 66.302 70.342 78.808 86.801 93.217 93.645 94.015 94.887 91.983	22.110 22.110 21.849 22.2743 22.743 23.059 23.596 24.048 24.075 26.135 27.739 29.682 34.841 49.847 55.622 60.523 64.798 75.879 94.513 95.94 96.235 96.629 91.829 91.829 91.829 91.829 91.829 91.829 91.829 91.829	15.597 15.909 16.314 16.699 17.132 17.588 18.330 19.099 20.128 21.341 23.079 24.875 26.788 28.743 31.646 42.235 45.775 50.761 55.752 59.414 61.778 64.957 66.950	16.590 16.871 17.228 17.597 18.191 18.6558 19.330 19.913 20.995 22.130 23.915 25.957 28.495 30.449 41.785 42.180 44.785 48.231 53.299 58.476 64.612 68.426 69.974	16.383 16.619 16.940 17.320 17.822 18.314 18.950 19.518 20.539 21.664 23.321 25.387 28.319 30.396 45.035 46.03 39.117 42.079 45.035 48.628 53.908 59.229 63.617 70.290 71.621	16.798 17.296 17.808 18.116 19.408 20.190 20.815 22.116 23.251 25.4780 36.746 39.209 42.152 43.983 47.099 51.683 56.516 60.020 62.038 63.577	14.738 15.093 15.564 15.911 16.234 16.685 17.507 18.488 19.475 20.780 22.488 24.087 25.524 27.477 30.500 33.481 35.563 37.872 40.359 40.359 43.856 53.709 57.140 62.336 62.336 64.739	20.872 21.108 21.398 21.629 21.963 22.368 23.729 24.752 25.988 27.369 28.741 29.994 43.577 34.517 49.322 53.806 65.859 64.958 67.399 69.494	20.646 20.865 21.139 21.385 21.725 22.102 22.724 23.389 24.380 25.580 25.580 26.964 28.351 29.619 31.343 34.546 37.761 39.938 42.634 45.663 45.669 54.876 59.896 63.296 65.515	62.221 64.685 67.106	1.4 1.1 1.4 1.5 1.8 2.8 3.1 3.3 5.0 5.3 5.6 9.5 5.8 8.3 7.0 9.1 9.4 6.4 9.4 9.4 9.4 9.3 9.3 9.3	1.4 1.1 1.3 1.6 1.7 2.8 2.9 4.2 4.9 5.4 5.1 4.5 5.8 10.2 9.3 5.8 6.8 7.1 8.8 9.1 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3	4.0
1986 1987 1988	90.639 92.874 97.687 99.310	88.871 94.251 98.774 100.944	68.175 70.056 71.899 74.139	70.352 71.200 72.704 74.677	71.554 72.281 73.631 75.528	65.740 67.395 68.616 70.609 72.826	66.624 69.361 71.485 73.940	71.060 72.985 75.519 78.383	69.760 71.338 73.527 76.043 78.934	69.232 71.474 73.716 76.429 79.151	2.2 2.7 3.4 3.8	2.3 3.1 3.4 3.8	3.2 3.2 3.1 3.7 3.6
1990 1991 1992 1993 1994 1995 1996 1997 1998	99.982 101.313 100.892 100.898 102.033 104.376 102.988 101.232 98.905 98.313	103.826 103.420 103.552 102.671 103.634 106.412 104.529 100.816 95.353 95.960	77.139 79.787 81.719 83.789 86.002 88.358 90.491 92.139 93.469 96.079	77.142 80.232 82.602 84.788 87.061 89.503 91.982 93.533 94.511 96.884	78.010 80.821 83.628 85.313 87.412 89.598 92.379 93.716 94.643 96.886	75.260 79.100 80.411 83.728 86.375 89.351 91.216 93.192 94.268 96.880	77.357 79.681 81.300 83.294 85.472 87.778 89.709 91.414 92.934 95.667	81.440 84.286 86.237 88.226 90.108 91.965 93.736 95.320 96.428 97.847	82.144 84.836 86.828 88.730 90.583 92.483 94.145 95.440 96.060 97.556	82.109 84.942 87.169 89.211 91.213 93.176 94.616 95.865 96.797 98.165	3.9 3.5 2.3 2.1 2.0 1.9 1.7 1.1	4.1 3.3 2.3 2.2 2.1 2.1 1.8 1.4 .6	3.7 3.5 2.6 2.3 2.2 2.2 1.5 1.3 1.0
2000	100.000 99.624 99.273 101.429 104.997 108.814 112.618 116.586	100.000 97.497 96.341 99.685 104.526 111.154 115.932 120.168	100.000 102.544 105.507 109.849 114.754 121.470 127.239 132.941	100.000 101.907 105.631 110.094 115.322 120.834 125.806 130.076	100.000 102.002 105.792 110.751 115.932 121.944 127.381 131.874	100.000 101.739 105.345 108.898 114.218 118.744 122.803 126.636	100.000 102.868 105.435 109.712 114.431 121.862 128.109 134.671	100.000 102.406 104.197 106.430 109.487 113.074 116.710 119.853	100.000 101.994 103.583 105.966 109.235 113.263 117.066 120.294	100.000 101.882 103.796 105.749 108.587 111.955 115.371 118.194	2.2 2.4 1.7 2.1 2.9 3.3 3.2 2.7	2.5 2.0 1.6 2.3 3.1 3.7 3.4 2.8	1.9 1.9 1.9 1.9 2.7 3.1 3.1 2.4
2005: I II IV	107.557 108.489 109.169 110.042	107.582 110.096 112.840 114.098	119.162 120.378 122.443 123.897	119.921 120.433 121.364 121.618	120.965 121.503 122.454 122.854	117.965 118.423 119.313 119.273	118.722 120.355 123.099 125.273	111.801 112.385 113.526 114.585	111.638 112.484 113.913 115.016	110.775 111.514 112.326 113.204	4.0 2.1 4.1 3.7	3.7 3.1 5.2 3.9	3.9 2.7 2.9 3.2
2006: I II III IV	110.834 112.418 113.722 113.499	113.796 116.619 118.055 115.258	125.399 126.911 127.955 128.690	124.614 125.866 126.233 126.513	126.069 127.426 127.897 128.131	121.844 122.891 123.054 123.423	125.880 127.548 128.999 130.008	115.576 116.353 117.141 117.769	115.832 116.859 117.700 117.873	114.150 115.065 115.778 116.492	3.5 2.7 2.8 2.2	2.9 3.6 2.9 .6	3.4 3.2 2.5 2.5
2007: 	114.520 116.011 117.018 118.794	115.514 119.050 121.200 124.907	130.705 132.386 133.497 135.174	128.856 130.037 130.342 131.070	130.326 131.701 132.232 133.237	126.067 126.869 126.721 126.886	131.828 133.806 135.400 137.649	118.967 119.569 120.020 120.856	118.931 119.908 120.571 121.766	117.339 117.872 118.437 119.129	4.1 2.0 1.5 2.8	3.6 3.3 2.2 4.0	2.9 1.8 1.9 2.4
2008: <i>p</i>	121.397 124.560 126.608	128.722 137.136 140.181	137.237 139.588 141.147	132.879 134.553 135.460	134.905 136.967 138.004	128.986 129.868 130.503	139.866 142.632 144.597	121.653 122.008 123.274	122.821 124.103 125.541	119.770 120.421 121.318	2.6 1.1 4.2	3.5 4.2 4.7	2.2 2.2 3.0

 $^{^{\}rm I}$ Gross domestic product (GDP) less exports of goods and services plus imports of goods and services. $^{\rm 2}$ Quarterly percent changes are at annual rates.

Table B-8.—Gross domestic product by major type of product, 1959-2008

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

							Goods					
		Final	Change		Total		Durable	e goods	Nondural	ble goods		
Year or quarter	Gross domestic product	sales of domes- tic product	in private inventories	Total	Final sales	Change in private inven- tories	Final sales	Change in private inven- tories ¹	Final sales	Change in private inven- tories ¹	Serv- ices ²	Struc- tures
1959	2,563.3 2,789.5 3,128.4 3,255.0 3,536.7 3,833.2 4,422.3 4,4729.5 5,103.8 5,484.4 5,995.9 6,337.7 6,657.4 7,072.2 7,397.7,7,816.9 8,304.3 8,744.8 8,304.3 8,744.8 8,744	502.7 523.2 541.7 579.5 612.1 658.8 709.9 975.4 1.118.9 1.229.2 1.366.8 1.486.0 1.808.2 2.545.3 2.908.6 3.289.9 3.542.4 4.98.4 4.98.4 4.198.4 4.736.5 5.956.7 5.996.3 6.321.4 6.321.4 6.321.4 6.321.4 7.386.5 7.786.1 8.232.3 8.676.9 9.201.5	3.9 3.2 3.0 6.1 5.6 4.8 9.2 13.6 9.9 9.1 9.2 2.0 8.3 9.1 15.9 14.0 -6.3 225.8 18.0 -6.3 229.8 -14.9 21.8 6.6 27.7 14.5 -27.7 14.5 -27.7 14.5 -27.7 14.5 -27.7 14.5 -27.7 14.5 -27.7 17.0 17.0 17.0 17.0 17.0 17.0 17.0 1	237.6 246.6 250.1 268.1 300.9 329.4 402.6 432.0 446.9 516.6 437.9 516.6 437.9 516.6 437.9 516.6 437.9 516.6 437.9 516.6 437.9 516.6 691.4 777.5 851.5	233.6 243.4 247.2 262.0 274.5 296.0 364.0 330.2 350.9 364.0 393.6 422.8 444.9 464.7 507.5 581.2 629.3 697.7 760.4 829.1 1,152.0 1,060.1 1,152.8 1,370.8 1,484.2 1,585.6 1,724.2 1,586.0 1,258.3 1,284.9 2,038.9 2,141.3 2,186.0 2,367.0 2,776.3 2,935.7 3,072.6 3,244.4	3.9 3.2 3.0 3.9 3.2 3.0 6.1 5.6 4.8 9.2 13.6 9.1 9.2 2.0 8.3 3.1 15.9 14.0 -6.3 17.1 22.3 25.8 18.0 -6.3 29.8 -14.9 6.6 27.1 16.3 27.7 14.5 16.3 20.8 31.1 30.8 66.9	86.3 90.2 90.2 99.4 106.0 116.4 142.0 146.4 158.7 171.1 173.6 181.1 202.4 236.6 254.5 284.5 321.2 363.8 472.0 500.1 500.1 500.1 739.9 764.9 841.8 917.1 950.2 711.0 739.9 749.9 1,125.0 1,26.0	2.9 1.7 -1.1 2.6 3.8 8.8 6.2 10.0 8 4.5 6.0 -2 2.9 9 -7.5 10.8 9 -7.5 10.8 -2.3 -16.0 2.2 9 -7.5 2.9 10.9 7 7 10.8 -2.3 10.9 10.9 10.9 10.9 10.9 10.9 10.9 10.9	147.3 153.2 157.0 162.6 168.5 179.7 191.8 208.9 217.6 234.8 251.7 271.3 283.6 305.1 344.6 374.8 413.2 439.2 465.3 522.0 588.1 651.9 716.1 752.5 783.4 910.6 959.3 1,121.1 1,241.0 1,279.8 1,375.0 1,279.8 1,27	1.1 1.6 3.0 3.0 3.0 3.0 3.0 3.6 5.0 4.5 3.2 2.2 5.3 2.7 2.9 3.1 1.2 6.3 12.8 7.6 5.2 -4.0 22.5 1.1 -8.2 24.0 17.4 8.4 4.2 -4.3 7.7 6.8 13.2 19.3 3.7 7 28.1 -2.4 11.7 32.0 28.9 28.9	206.5 217.9 231.0 249.7 265.0 335.3 305.0 335.3 369.1 407.4 444.4 481.9 525.8 57.8 57.1 1,05.9 1,171.9 1,322.5 1,802.9 1,957.2 1,802.9 1,957.2 2,888.7 2,154.1 2,255.7 2,490.5 2,685.3 2,888.7 3,113.7 3,512.7 3,512.7 4,548.4 4,789.8 5,091.8	62.5 61.9 63.6 67.8 84.7 88.0 89.6 89.6 100.0 108.3 109.3 109.3 128.4 1462.9 165.6 166.7 191.2 226.8 273.9 313.3 321.3 321.3 321.3 344.5 458.7 425.8 458.7 425.8 458.7 459.0 529.0 531.5 529.0 531.5 529.0 531.5 638.1 638.1 748.2 638.1 748.2 7
2000	9,817.0 10,128.0 10,469.6 10,960.8 11,685.9 12,421.9 13,178.4 13,807.5	9,760.5 10,159.7 10,457.7 10,946.5 11,627.3 12,378.6 13,129.0	56.5 -31.7 11.9 14.3 58.6 43.3 49.3 -3.6	3,449.3 3,412.6 3,442.4 3,524.2 3,707.1 3,873.5 4,109.4 4,272.7	3,392.8 3,444.3 3,430.5 3,509.9 3,648.5 3,830.2 4,060.1 4,276.4	56.5 -31.7 11.9 14.3 58.6 43.3 49.3 -3.6	1,653.3 1,630.3 1,559.9 1,574.1 1,615.7 1,718.7 1,816.0 1,895.6	36.1 -41.8 15.1 11.1 35.2 33.5 20.3 -10.2	1,739.5 1,814.0 1,870.7 1,935.8 2,032.8 2,111.4 2,244.1 2,380.8	20.4 10.0 -3.2 3.2 23.4 9.8 29.0 6.5	5,425.6 5,725.6 6,031.4 6,367.4 6,778.1 7,200.0 7,644.6 8,134.5	942.1 989.8 995.8 1,069.2 1,200.7 1,348.4 1,424.3 1,400.3
2005: I II IV	12,155.4 12,297.5 12,538.2 12,696.4	12,072.7 12,278.1 12,527.2 12,636.1	82.6 19.4 11.0 60.3	3,823.2 3,844.7 3,905.0 3,921.1	3,740.5 3,825.3 3,894.0 3,860.8	82.6 19.4 11.0 60.3	1,664.0 1,722.1 1,754.9 1,734.0	53.4 8.3 16.9 55.5	2,076.5 2,103.3 2,139.1 2,126.8	29.2 11.1 -5.9 4.8	7,043.2 7,121.6 7,265.5 7,369.8	1,289.0 1,331.2 1,367.7 1,405.5
2006: 	12,959.6 13,134.1 13,249.6 13,370.1	12,906.5 13,068.3 13,187.1 13,354.3	53.1 65.9 62.5 15.8	4,045.7 4,103.9 4,135.6 4,152.5	3,992.6 4,038.0 4,073.0 4,136.6	53.1 65.9 62.5 15.8	1,804.4 1,809.0 1,814.4 1,836.0	17.1 32.4 41.0 -9.1	2,188.2 2,229.0 2,258.6 2,300.6	36.0 33.5 21.6 24.9	7,483.2 7,588.4 7,693.5 7,813.5	1,430.7 1,441.9 1,420.6 1,404.2
2007: 	13,510.9 13,737.5 13,950.6 14,031.2	13,526.5 13,738.4 13,927.6 14,052.3	-15.6 9 23.0 -21.1	4,165.3 4,260.2 4,336.2 4,329.4	4,180.9 4,261.0 4,313.1 4,350.5	-15.6 9 23.0 -21.1	1,847.2 1,890.5 1,908.8 1,935.8	-5.9 -29.4 .8 -6.1	2,333.7 2,370.5 2,404.4 2,414.6	-9.7 28.6 22.2 -14.9	7,941.6 8,067.1 8,208.8 8,320.7	1,404.0 1,410.3 1,405.6 1,381.2
2008: <i>P</i>	14,150.8 14,294.5 14,420.5	14,176.4 14,370.5 14,469.1	-25.6 -76.0 -48.6	4,343.9 4,337.1 4,340.6	4,369.5 4,413.1 4,389.2	-25.6 -76.0 -48.6	1,935.9 1,924.9 1,907.2	-7.2 -43.9 14.5	2,433.6 2,488.2 2,481.9	-18.4 -32.1 -63.1	8,460.2 8,597.0 8,718.8	1,346.7 1,360.4 1,361.1

¹ Estimates for durable and nondurable goods for 1996 and earlier periods are based on the Standard Industrial Classification (SIC); later estimates are based

on the North American Industry Classification System (NAICS).

Includes government consumption expenditures, which are for services (such as education and national defense) produced by government. In current dollars, these services are valued at their cost of production.

Table B-9.—Real gross domestic product by major type of product, 1959–2008

[Billions of chained (2000) dollars; quarterly data at seasonally adjusted annual rates]

							Goods					
	_	Final	Change		Total		Durable	e goods	Nondural	ble goods		
Year or quarter	Gross domestic product	sales of domes- tic product	in private inven- tories	Total	Final sales	Change in private inven- tories	Final sales	Change in private inven- tories 1	Final sales	Change in private inven- tories ¹	Serv- ices ²	Struc- tures
1959	2,441.3	2,442.7	12.3	700.7							1,391.1	392.8
1960 1961 1962 1963 1964 1965 1966 1967 1968 1970 1971 1972 1974 1975 1976 1977 1977 1978 1979 1980 1980	2,501.8 2,560.0 2,715.2 2,834.0 2,998.6 3,191.1 3,399.1 3,652.7 3,765.4 4,317.2 4,341.5 4,341.5 4,540.9 4,550.5 5,015.0 5,173.4 5,161.7 5,291.7 5,189.3	2,506.8 2,566.8 2,708.5 2,830.3 2,999.9 3,173.8 3,664.8 3,640.3 3,753.7 3,787.7 4,305.5 4,305.5 4,321.6 4,981.6 5,161.2 5,196.7 5,233.4	10.4 9.4 19.5 18.0 15.4 29.3 42.1 30.3 27.4 27.0 5.0 22.3 23.1 35.7 41.1 -8.0 34.9 -17.5	721.1 726.7 773.8 803.4 856.4 927.3 1,005.2 1,006.2 1,076.3 1,105.7 1,180.5 1,299.5 1,288.1 1,23.2 1,515.6 1,577.9 1,567.1 1,634.5							1,433.0 1,489.4 1,574.3 1,642.4 1,720.1 1,803.6 1,916.7 2,034.8 2,140.4 2,212.2 2,255.4 2,313.6 2,393.7 2,461.3 2,676.9 2,770.5 2,874.9 2,770.5 2,874.9 3,004.2 3,006.5 3,120.0	389.1 399.9 422.8 451.3 481.7 505.8 506.4 499.0 529.7 536.5 513.4 561.0 602.7 615.6 6551.8 501.7 600.6 658.3 677.0 627.8 619.2 566.1
1983 1984 1985 1986 1987 1988	5,423.8 5,813.6 6,053.7 6,263.6 6,475.1 6,742.7 6,981.4	5,454.0 5,739.2 6,042.1 6,271.8 6,457.2 6,734.5 6,962.2	-6.4 71.3 23.7 8.3 30.3 20.3 28.3	1,625.4 1,810.9 1,851.3 1,906.0 1,984.9 2,108.9 2,223.3							3,251.0 3,341.1 3,520.8 3,671.0 3,797.3 3,930.9 4,049.5	607.1 689.2 725.1 735.9 739.2 737.9 732.8
1990 1991 1992 1993 1994 1995 1996 1997 1998	7,112.5 7,100.5 7,336.6 7,532.7 7,835.5 8,031.7 8,328.9 8,703.5 9,066.9 9,470.3	7,108.5 7,115.0 7,331.1 7,522.3 7,777.8 8,010.2 8,306.5 8,636.6 8,997.6 9,404.0	15.4 5 16.5 20.6 63.6 29.9 28.7 71.2 72.6 68.9	2,252.7 2,221.5 2,307.8 2,394.8 2,550.6 2,639.0 2,772.4 2,971.3 3,132.7 3,312.6	2,244.3 2,228.9 2,297.7 2,380.3 2,493.9 2,614.9 2,747.4 2,904.6 3,063.7 3,246.4	15.4 5 16.5 20.6 63.6 29.9 28.7 71.2 72.6 68.9	872.8 852.7 894.7 949.8 1,016.4 1,096.9 1,193.8 1,317.4 1,431.8 1,554.3	7.2 -13.6 -3.0 16.4 33.4 31.0 17.8 38.5 42.4 40.4	1,402.1 1,410.3 1,434.3 1,457.7 1,501.4 1,536.9 1,566.5 1,593.4 1,634.2 1,692.6	3.5 6.1 8.7 1.5 12.6 -1.2 4.5 32.4 29.8 28.1	4,170.0 4,251.2 4,373.7 4,457.5 4,558.3 4,654.7 4,765.6 4,901.1 5,057.5 5,245.1	718.3 662.8 688.3 709.3 746.0 753.5 803.1 835.7 879.1 913.0
2000	9,817.0 9,890.7 10,048.8 10,301.0 10,675.8 10,989.5 11,294.8 11,523.9	9,760.5 9,920.9 10,036.5 10,285.1 10,619.8 10,947.3 11,249.3 11,523.4	56.5 -31.7 12.5 14.3 54.3 38.9 42.3 -2.5	3,449.3 3,390.9 3,432.5 3,538.3 3,705.4 3,864.9 4,074.4 4,201.9	3,392.8 3,421.9 3,419.7 3,521.7 3,645.6 3,820.2 4,026.1 4,206.5	56.5 -31.7 12.5 14.3 54.3 38.9 42.3 -2.5	1,653.3 1,655.6 1,610.8 1,669.4 1,744.7 1,862.9 1,979.1 2,095.8	36.1 -42.4 15.5 11.2 34.1 31.7 18.3 -8.7	1,739.5 1,766.1 1,806.3 1,850.5 1,900.9 1,962.1 2,054.5 2,123.3	20.4 10.3 -2.8 3.3 20.8 8.5 23.8 5.3	5,425.6 5,553.2 5,693.4 5,810.8 5,972.7 6,101.4 6,243.4 6,415.6	942.1 945.6 922.1 952.3 1,001.4 1,033.7 1,011.0 960.0
2005: I II III IV	10,875.8 10,946.1 11,050.0 11,086.1	10,799.3 10,925.9 11,035.5 11,028.4	74.6 16.7 11.0 53.5	3,801.7 3,845.9 3,896.0 3,915.8	3,719.0 3,826.1 3,882.6 3,853.2	74.6 16.7 11.0 53.5	1,797.6 1,862.1 1,906.5 1,885.2	50.6 8.0 16.3 52.0	1,923.8 1,968.3 1,982.8 1,973.7	25.1 8.7 -4.2 4.5	6,057.1 6,072.5 6,131.0 6,145.1	1,024.0 1,036.8 1,035.3 1,038.6
2006:	11,217.3 11,291.7 11,314.1 11,356.4 11,357.8	11,167.6 11,232.1 11,257.8 11,339.7 11,370.5	45.9 56.9 53.3 13.1 -15.0	4,020.2 4,077.8 4,093.2 4,106.3 4,080.6	3,967.0 4,013.1 4,032.5 4,091.8 4,100.3	45.9 56.9 53.3 13.1 -15.0	1,959.9 1,968.5 1,980.0 2,007.9 2,024.6	15.7 29.3 36.5 -8.2 -5.0	2,016.0 2,051.4 2,059.7 2,090.9 2,084.7	29.6 27.9 17.8 20.0 -9.9	6,185.1 6,219.7 6,254.9 6,313.9 6,347.3	1,036.6 1,026.6 1,003.2 977.5
II III IV 2008: I	11,491.4 11,625.7 11,620.7 11,646.0	11,490.5 11,605.0 11,628.0 11,653.7	-2.8 16.0 -8.1	4,181.7 4,272.6 4,272.9 4,282.9	4,185.7 4,253.2 4,286.7 4,297.4	-2.8 16.0 -8.1 -10.2	2,081.3 2,119.8 2,157.5 2,162.2	-25.7 .9 -5.2 -6.1	2,116.2 2,146.3 2,146.3 2.152.2	20.0 14.2 -3.2 -4.3	6,389.7 6,452.0 6,473.6 6,517.6	969.9 962.7 939.5 914.7
	11,727.4 11,712.3	11,778.8 11,737.9	-50.6 -29.1	4,202.9 4,334.3 4,295.4	4,401.6 4,331.1	-10.2 -50.6 -29.1	2,162.2 2,169.7 2,143.8	-36.1 12.2	2,152.2 2,240.2 2,197.2	-4.3 -16.9 -36.3	6,545.3 6,570.8	922.2 913.6

 ¹ Estimates for durable and nondurable goods for 1996 and earlier periods are based on the Standard Industrial Classification (SIC); later estimates are based on the North American Industry Classification System (NAICS).
 2 Includes government consumption expenditures, which are for services (such as education and national defense) produced by government. In current dollars, these services are valued at their cost of production.

Table B-10.—Gross value added by sector, 1959–2008

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

			Business 1		Househ	olds and inst	itutions	Gene	eral governm	ent ³	Adden-
Year or quarter	Gross domestic product	Total	Nonfarm ¹	Farm	Total	House- holds	Nonprofit institu- tions serving house- holds ²	Total	Federal	State and local	dum: Gross housing value added
1959	506.6	408.2	390.9	17.3	40.1	29.8	10.3	58.3	31.9	26.5	36.9
1960	526.4	420.4	402.3	18.2	43.9	32.3	11.7	62.0	33.1	28.9	39.9
1961 1962	544.7 585.6	432.0 464.5	413.7 446.1	18.3 18.4	46.7 50.4	34.3 36.7	12.4 13.6	66.0 70.7	34.4 36.5	31.6 34.2	42.8 46.0
1963	617.7	488.7	470.2	18.5	53.6	38.8	14.8	75.5	38.4	37.1	48.9
1964 1965	663.6 719.1	525.6 571.4	508.2 551.5	17.3 19.9	56.9 61.0	40.8 43.3	16.1 17.7	81.1 86.7	40.7 42.4	40.4 44.2	51.6 54.9
1966	787.8	625.1	604.3	20.8	65.8	45.9	19.9	96.9	47.3	49.6	58.2
1967	832.6	654.5	634.4	20.1	70.9	48.8	22.1	107.2	51.7	55.5	62.1
1968 1969	910.0 984.6	714.5 770.3	694.0 747.5	20.5 22.8	76.5 84.3	51.6 55.6	25.0 28.7	119.0 130.0	56.4 60.0	62.5 70.0	65.9 71.3
1970	1,038.5	803.6	779.9	23.7 25.4	91.4	59.4	32.0 35.7	143.6	64.1	79.5	76.7 83.9
1971 1972	1,127.1 1,238.3	869.9 959.0	844.5 929.4	25.4 29.7	100.9 109.9	65.1 70.3	35.7 39.5	156.4 169.4	67.8 71.6	88.6 97.9	83.9 91.1
1973	1,382.7	1,079.4	1,032.7	46.8	120.0	76.0	44.0	183.3	74.0	109.3	98.3
1974	1,500.0	1,166.9	1,122.6	44.2	131.7	82.5	49.2	201.4 224.5	79.6	121.8	106.8
1975 1976	1,638.3 1,825.3	1,268.5 1,423.7	1,222.8 1,380.7	45.6 43.0	145.4 158.1	90.3 98.1	55.1 60.0	243.5	87.3 93.8	137.1 149.7	117.2 126.6
19//	2,030.9	1,593.5	1,549.9	43.5	172.8	107.3	65.6	264.6	102.1	162.6	140.3
1978 1979	2,294.7 2,563.3	1,813.4 2,032.9	1,762.7 1,972.8	50.7 60.1	193.8 217.4	120.4 135.0	73.4 82.5	287.5 313.0	109.7 117.6	177.8 195.4	155.2 172.5
1980	2,789.5	2,191.1	2,139.7	51.4	249.9	155.5	94.4	348.6	131.3	217.3	199.4
1981	3,128.4 3,255.0	2,459.4 2,520.7	2,394.5 2,460.3	65.0 60.4	283.7 315.3	176.8 195.7	106.9 119.6	385.3 419.0	147.4 161.3	237.9 257.7	228.4
1982 1983	3,536.7	2,747.2	2,400.3	44.9	344.0	211.7	132.4	445.4	171.3	274.1	255.4 277.4
1984	3,933.2	3,071.8	3,007.7	64.2	376.2	230.2	146.0	485.2	192.1	293.1	301.1
1985 1986	4,220.3 4,462.8	3,290.8 3.468.8	3,227.4 3,409.4	63.4 59.4	406.0 438.0	249.6 267.4	156.4 170.6	523.5 556.1	205.1 212.6	318.4 343.5	332.9 359.5
1987	4,739.5	3,669.9	3,608.4	61.6	478.4	287.6	190.8	591.2	223.4	367.8	385.5
1988 1989	5,103.8 5,484.4	3,948.6 4,243.2	3,887.2 4,169.7	61.3 73.6	525.1 569.6	312.8 337.0	212.4 232.6	630.1 671.5	234.9 246.6	395.2 424.9	415.5 443.8
1990	5,803.1	4,462.6	4,386.0	76.6	618.9	362.9	256.0	721.6	258.9	462.6	478.1
1991 1992	5,995.9 6,337.7	4,569.3 4,840.4	4,499.5 4,761.7	69.9 78.7	660.7 697.9	383.4 397.2	277.3 300.7	765.9 799.4	275.0 282.1	490.9 517.3	508.5 531.0
1993	6,657.4	5,096.2	5,025.6	70.6	732.0	413.7	318.3	829.3	286.3	543.0	549.1
1994	7,072.2 7,397.7	5,444.0 5,700.6	5,362.4 5,632.0	81.6 68.5	771.3 815.5	439.5 463.3	331.7 352.1	857.0 881.6	286.2 284.7	570.7 596.9	582.0 613.3
1996	7,816.9	6,056.7	5,966.0	90.7	852.2	484.7	367.5	908.0	288.6	619.3	638.0
1997 1998	8,304.3 8,747.0	6,471.9 6,827.1	6,383.8 6,748.2	88.1 78.9	895.8 949.7	509.6 538.0	386.2 411.7	936.7 970.3	290.9 293.1	645.8 677.2	667.7 700.2
1999	9,268.4	7,243.4	7,174.7	68.8	1,012.3	576.4	435.9	1,012.7	300.9	711.8	747.8
2000	9,817.0	7,666.7	7,595.1	71.5	1,080.7	615.6	465.1	1,069.6	315.4	754.2	794.3
2001	10,128.0 10,469.6	7,841.2 8,040.5	7,768.0 7,969.7	73.1 70.8	1,160.4 1,227.3	662.0 687.7	498.4 539.6	1,126.4 1,201.8	325.7 352.9	800.8 848.9	849.8 876.7
2003	10,960.8	8,411.5	8,323.2 8,872.8	88.3	1,269.2	699.9	569.3	1,280.1	383.9	896.2	878.2
2004	11,685.9 12,421.9	8,987.5 9,591.8	9,487.7	114.7 104.1	1,350.0 1,405.2	744.9 772.3	605.1 632.9	1,348.4 1.424.9	412.6 438.2	935.8 986.6	929.1 963.5
2006	13,178.4 13,807.5	10,183.8 10,642.3	10,092.6	91.1 137.3	1,497.3 1,582.0	834.5 882.1	662.8 699.9	1,497.3 1,583.2	460.1 484.2	1,037.2 1,099.0	1,038.3 1,106.9
2007 2005: I	12,155.4	9,368.0	10,505.1 9,262.0	106.0	1,383.7	762.0	621.7	1,403.7	437.3	966.4	951.3
II	12,297.5 12,538.2	9,488.0	9.379.4	108.7	1.395.5	765.8	629.6	1 414 0	436.2	977.8	956.1
III IV	12,538.2 12,696.4	9,695.4 9,815.9	9,589.6 9,719.7	105.7 96.1	1,409.0 1,432.6	771.5 789.9	637.5 642.7	1,433.8 1,448.0	438.9 440.5	995.0 1,007.4	962.6 984.2
2006: I	12,050.4	10 024 1	9,937.4	86.7	1,464.6	812.0	652.6	1,470.9	455.3	1,007.4	1,009.8
II	13,134.1	10,160.3	10.080.0	80.3	1,489.7	830.3	659.4	1,484.1	458.8	1,025.3	1.031.3
III IV	13,134.1 13,249.6 13,370.1	10,160.3 10,229.7 10,321.0	10,139.6 10,213.5	90.1 107.4	1,513.2 1,521.7	849.3 846.4	663.9 675.2	1,506.8 1,527.5	461.7 464.8	1,045.1 1,062.7	1,055.0 1,057.2
2007: 1	13,510.9	10,321.0	10,277.1	128.1	1,549.7	863.7	686.0	1,556.0	479.0	1,002.7	1.080.8
II	13,737.5	10,594.7	10,460.4	134.3	1,570.1	876.4	693.8	1,572.7	482.8	1,089.9	1,099.0
III IV	13,950.6 14,031.2	10,767.0 10,802.5	10,623.7 10,659.1	143.2 143.4	1,590.8 1,617.4	887.4 900.9	703.3 716.5	1,592.8 1,611.3	486.2 488.9	1,106.6 1,122.4	1,114.8 1,132.9
2008: I	14.150.8	10,874.7	10,739.2	135.5	1,638.1	908.1	730.0	1,638.0	502.4	1,135.6	1,142.1
II	14,294.5	10,969.5	10,838.2	131.3	1,664.0	924.5	739.5	1,661.0	511.1	1,149.9	1,164.3
P	14,420.5	11,042.4	10,918.2	124.2	1,692.1	940.6	751.5	1,686.0	520.7	1,165.3	1,186.2

Gross domestic business value added equals gross domestic product excluding gross value added of households and institutions and of general government. Nonfarm value added equals gross domestic business value added excluding gross farm value added.

 Equals compensation of employees of nonprofit institutions, the rental value of nonresidential fixed assets owned and used by nonprofit institutions serving households, and rental income of persons for tenant-occupied housing owned by nonprofit institutions.

 3 Equals compensation of general government employees plus general government consumption of fixed capital.

Table B-11.—Real gross value added by sector, 1959-2008

[Billions of chained (2000) dollars; quarterly data at seasonally adjusted annual rates]

			Business 1		Househ	olds and inst	titutions	Gene	eral governm	ent ³	
Year or quarter	Gross domestic product	Total	Nonfarm ¹	Farm	Total	House- holds	Nonprofit institu- tions serving house- holds ²	Total	Federal	State and local	Adden- dum: Gross housing value added
1959	2,441.3	1,716.0	1,684.1	21.2	261.7	161.6	97.8	514.5	279.4	236.7	195.0
1960 1961	2,501.8 2,560.0	1,748.8 1,782.8	1,713.5 1,747.8	22.4 22.6	279.6 291.5	171.4 179.6	106.6 109.6	532.2 550.9	284.6 290.5	249.3 262.1	207.3 219.2
1962	2,715.2	1,897.7	1,867.0	22.1	307.7	189.8	115.4	572.5	302.5	271.8	232.8
1963 1964	2,834.0 2,998.6	1,985.4 2,111.7	1,954.3 2,086.0	22.8 22.1	320.4 333.7	197.7 205.7	120.0 125.4	589.5 609.7	305.2 308.2	285.9 303.1	244.3 255.4
1965 1966	3,191.1 3,399.1	2,260.6 2,413.6	2,233.5 2,393.2	23.5 22.7	350.2 366.3	215.2 224.0	132.6 140.2	630.3 669.7	310.4 330.7	321.5 340.6	268.9 281.0
1966 1967 1968	3,484.6 3,652.7	2,459.5 2,581.7	2,434.1 2,561.5	24.5 23.6	381.6 400.4	233.1 239.3	146.5 161.0	669.7 705.2 732.7	352.2 358.1	354.9 376.2	294.0 304.6
1969	3,765.4	2,660.3	2,639.1	24.5	417.8	249.1	168.8	751.3	359.0	393.4	318.7
1970 1971	3,771.9 3,898.6	2,659.3 2,761.5	2,636.0 2,736.2	25.1 26.4	425.0 443.0	254.7 266.5	170.0 176.1	754.1 755.3	343.6 327.8	410.8 427.5	328.9 343.8
1972 1973	4,105.0 4,341.5	2,939.8 3,145.0	2,918.4 3,131.5	26.4 26.2	460.7 476.3	277.7 287.5	182.4 188.2	753.8 757.2	311.8 300.1	442.3 457.8	360.1 373.0
1974 1975	4,319.6 4,311.2	3,101.3 3,071.2	3,089.1 3,037.5	25.6 30.5	493.9 513.7	299.9 308.0	188.2 193.1 205.2	772.6 785.1	299.2 297.5	474.4 488.9	373.0 390.7 402.7
19/6	4,540.9	3,272.9	3,249.1	29.1	521.5	313.3	207.5	791.8	297.9	495.3	408.3
1977 1978	4,750.5 5,015.0	3,456.2 3,673.3	3,431.1 3,656.8	30.7 29.6	528.3 552.4	316.2 335.1	211.6 216.3	800.1 815.5 824.2	298.8 302.5	502.9 514.6	418.3 436.8
1979 1980	5,173.4 5,161.7	3,796.7 3,756.1	3,774.2 3,736.1	32.2 31.1	576.7 606.9	350.4 372.9	225.3 232.8	824.2 836.0	302.3 307.0	523.7 530.8	453.9 481.9
1981	5,291.7 5,189.3	3,859.5 3,743.1	3,814.7 3,691.9	41.0 43.1	626.5 647.2	384.7 391.8	240.5 254.4	840.6 849.2	311.7 316.8	530.6 534.0	501.0 514.7
1982 1983	5,423.8	3,944.3	3,932.8	26.9	665.9	399.4	265.7	854.6	324.2	531.8	526.2
1984 1985	5,813.6 6,053.7	4,286.3 4,484.5	4,254.3 4,434.2	37.2 46.7	687.8 700.1	413.3 423.2	273.6 275.9	865.2 890.0	331.5 341.0	535.0 550.3	543.0 564.4
1986 1987	6,263.6 6,475.1	4,652.0 4,815.5	4,606.2 4,769.8	44.9 45.5	718.5 745.7	428.7 440.3	289.1 304.8	911.9 931.8	347.0 356.1	566.3 577.2	574.9 588.8
1988 1989	6,742.7 6,981.4	5,023.0 5,206.6	4,987.7 5,162.3	40.9 46.4	780.6 812.3	457.1 471.5	323.1 340.6	956.0 978.8	360.5 364.9	596.9 615.3	606.2 620.3
1990	7,112.5	5,287.0	5,237.9	49.3	841.2	483.2	357.9	1,003.9	371.6	633.6	635.7
1991 1992	7,100.5 7,336.6	5,245.4 5,456.5	5,194.7 5,395.2	50.0 57.5	865.3 882.6	497.8 502.6	367.5 379.9	1,014.3 1,017.7	373.8 366.0	641.7 652.6	657.2 666.2 669.9
1993	7,532.7 7,835.5	5,625.9 5,905.3	5,576.0 5,841.4	50.6 60.9	904.8 923.1	507.9 524.7	396.9 398.4	1,019.8 1,019.9	358.9 347.2	661.6 673.1	669.9 690.8
1995 1996	8,031.7 8,328.9	6,076.8 6,356.0	6,030.2 6,300.4	49.6 56.1	945.1 957.8	534.3 540.8	410.8 417.0	1,020.6 1,022.1	334.1 325.0	686.5 697.2	705.7 712.1
1997 1998	8,703.5 9,066.9	6,693.8 7,017.1	6,627.2 6,955.3	64.4 61.6	983.5 1,010.4	554.0 563.8	429.5 446.9	1,030.0 1,041.0	318.8 315.2	697.2 711.2 725.8	726.5 735.5 767.2
1999	9,470.3	7,376.8	7,314.2	62.9	1,042.3	590.7	451.6	1,051.4	312.7	738.7	
2000 2001	9,817.0 9,890.7	7,666.7 7,691.0	7,595.1 7,625.7	71.5 65.6	1,080.7 1,110.0	615.6 634.8	465.1 475.1	1,069.6 1,089.3	315.4 317.0	754.2 772.3	794.3 815.1
2002	10,048.8 10,301.0	7,806.9 8,050.3	7,736.9 7,974.3	70.1 76.0	1,130.9 1,129.1	634.2 629.4	496.6 499.6	1,110.4 1,123.9	323.3 331.9	787.1 791.9	809.0 789.9
2004	10.675.8	8,387.0 8,680.9	8,304.3 8,589.9	82.1 89.6	1.165.6	661.9	504.1 508.7	1,129.4 1,137.8	335.2 337.4	794.1 800.2	825.6 840.0
2006	10,989.5 11,294.8 11,523.9	8,945.6 9,128.2	8,860.8 9,034.5	83.4 91.5	1,181.8 1,219.3 1,251.7	673.7 708.5 729.9	512.6 523.9	1,144.4 1,159.5	337.0 339.5	807.4 820.1	881.4 913.7
2005: I	10,875.8	8,574.6	8,486.5	86.9	1,174.2	668.0	506.7	1,136.2	337.8	798.2	833.8
 	10,946.1 11,050.0	8,642.0 8,743.0	8,548.1 8,648.4	92.4 93.1	1,177.7 1,181.6	670.1 671.9	508.2 510.2	1,136.8 1,137.8	336.9 336.7	799.7 801.0	836.1 837.7
IV	11,086.1	8,764.1	8,676.6	86.1	1,193.7	684.9	509.8	1,140.3	338.1	802.1	852.6
2006: I	11,217.3 11,291.7 11,314.1	8,885.1 8,948.5	8,802.9 8,865.6	80.9 81.5	1,207.4 1,217.6	698.6 707.3	510.3 512.1	1,138.9 1,140.7	335.4 335.5	803.5 805.2	868.5 878.8
III IV	11,314.1 11,356.4	8,955.8 8,993.1	8,871.6 8,903.1	82.9 88.6	1,225.1 1,227.0	714.2 714.0	512.9 514.9	1,147.2 1,150.6	338.5 338.6	808.7 812.0	888.0 890.3
2007: 1	11,357.8	8,977.4 9,101.5	8,884.0 9,010.0	91.2 89.8	1,239.8 1,249.2	723.9 728.8	518.1	1,153.5 1,155.9	337.9 337.5	815.7 818.6	903.6 912.0
 	11,491.4 11,625.7 11,620.7	9.224.0	9,130.4	91.6	1,249.2 1,257.1 1,260.6	732.8 733.9	522.5 526.4 528.7	1.161.9	340.7	821.3 824.7	918.4 920.7
IV 2008: I	11,620.7 11,646.0	9,209.7 9,225.2	9,113.6 9,134.3	93.5 89.6	1,260.6 1,263.3			1,166.5 1,172.9	341.9 345.0	824.7 827.9	920.7 918.5
II	11,727.4	9,285.5 9.244.6	9,198.2	87.1 88.9	1,277.1	731.6 740.6 750.5	533.3 538.2 542.4	1,180.0	348.7	831.2 833.8	930.7 943.1
P	11,712.3	უ,244.ხ	9,154.9	88.9	1,290.9	d.uc/	542.4	1,188.5	354.5	წ პპ.8	943. l

Gross domestic business value added equals gross domestic product excluding gross value added of households and institutions and of general government. Nonfarm value added equals gross domestic business value added excluding gross farm value added.
 Equals compensation of employees of nonprofit institutions, the rental value of nomesidential fixed assets owned and used by nonprofit institutions serving households, and rental income of persons for tenant-occupied housing owned by nonprofit institutions for tenant-occupied housing owned by nonprofit institutions.
 3 Equals compensation of general government employees plus general government consumption of fixed capital.

TABLE B-12.—Gross domestic product (GDP) by industry, value added, in current dollars and as a percentage of GDP, 1977-2007

[Billions of dollars; except as noted]

					Private i	ndustries				
Groce		Agricul-				Manufacturin	1			
domestic product	Total private industries	ture, forestry, fishing, and hunting	Mining	Con- struc- tion	Total manufac- turing	Durable goods	Non- durable goods	Utilities	Wholesale trade	Retail trade
					Value added					
2,030.9 2,294.7 2,563.3	1,739.4 1,977.0 2,217.7	51.3 59.8 70.6	43.4 49.5 58.4	94.2 111.5 127.0	438.6 489.9 543.8	265.0 303.4 331.1	173.6 186.5 212.7	45.9 50.4 51.9	134.9 153.4 175.8	158.5 177.6 193.2
2,789.5 3,128.4 3,255.0 3,536.7 3,933.2 4,220.3 4,462.8 4,739.5 5,103.8 5,484.4	2,405.8 2,702.5 2,792.6 3,043.5 3,395.1 3,637.0 3,842.9 4,080.4 4,399.1 4,732.3	62.0 75.4 71.3 57.1 77.1 74.2 79.8 80.2 92.8	91.3 122.9 120.0 103.1 107.2 105.4 68.9 71.5 71.4 76.0	130.3 131.8 128.8 139.8 164.4 184.6 207.7 218.2 232.7 244.8	556.6 616.5 603.2 653.1 724.0 740.3 766.0 811.3 876.9 927.3	333.9 370.4 353.4 379.3 443.5 449.2 459.3 483.8 519.0 543.2	222.7 246.1 249.8 273.8 280.5 291.1 306.7 327.5 357.9 384.1	60.0 70.7 81.7 91.6 102.3 109.2 114.4 123.0 122.8 135.9	188.7 208.3 207.9 222.9 249.4 268.3 278.5 285.3 318.1 337.4	200.9 221.0 229.9 261.6 293.6 318.7 336.6 349.9 366.0 389.0
5,803.1 5,995.9 6,337.7 6,657.4 7,072.2 7,397.6 7,816.9 8,304.3 8,747.0 9,268.4	4,997.8 5,138.7 5,440.4 5,729.3 6,110.5 6,407.2 6,795.2 7,247.5 7,652.5 8,127.2	96.7 89.2 99.6 93.1 105.6 93.1 113.8 110.7 102.4 93.8	84.9 76.0 71.3 72.1 73.6 74.1 87.5 92.6 74.8 85.4	248.5 230.2 232.5 248.3 274.4 287.0 311.7 337.6 374.4 406.6	947.4 957.5 996.7 1,039.9 1,118.8 1,177.3 1,209.4 1,279.8 1,343.9 1,373.1	542.7 540.9 562.8 593.1 647.7 677.2 706.5 755.5 806.9 820.4	404.7 416.6 433.8 446.8 471.1 500.0 502.9 524.3 537.0 552.7	142.9 152.5 157.4 165.3 174.6 181.5 183.3 179.6 180.8 185.4	347.7 360.5 378.9 401.2 442.7 457.0 489.1 521.2 542.9 577.7	398.8 405.5 430.0 458.0 493.3 514.9 543.8 574.2 598.6 635.5
9,817.0 10,128.0 10,469.6 10,960.8 11,685.9 12,433.9 13,194.7 13,841.3	8,614.3 8,869.7 9,131.2 9,542.3 10,194.3 10,861.5 11,556.0 12,103.8	98.0 97.9 95.4 114.4 142.2 128.8 125.4 161.4	121.3 118.7 106.5 143.3 171.3 225.7 262.4 275.8	435.9 469.5 482.3 496.2 539.2 607.9 630.0 562.6	1,426.2 1,341.3 1,352.6 1,359.3 1,427.9 1,483.9 1,549.7 1,615.8	865.3 778.9 774.8 771.8 807.5 840.9 882.8 926.7	560.9 562.5 577.9 587.5 620.4 643.0 666.9 689.1	189.3 202.3 207.3 220.0 240.3 249.5 273.4 295.9	591.7 607.1 615.4 637.0 686.7 723.7 762.2 799.1	662.4 691.6 719.6 751.5 776.9 812.7 848.0 886.5
Percent				Industry value	e added as a p	ercentage of	GDP (percent			
100.0 100.0 100.0	85.6 86.2 86.5	2.5 2.6 2.8	2.1 2.2 2.3	4.6 4.9 5.0	21.6 21.3 21.2	13.1 13.2 12.9	8.5 8.1 8.3	2.3 2.2 2.0	6.6 6.7 6.9	7.8 7.7 7.5
100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	86.2 86.4 85.8 86.1 86.3 86.2 86.1 86.1 86.3	2.2 2.4 2.2 1.6 2.0 1.8 1.7 1.7 1.6 1.7	3.9 3.7 2.9 2.5 1.5 1.4 1.4	4.7 4.2 4.0 4.0 4.2 4.4 4.7 4.6 4.6 4.5	20.0 19.7 18.5 18.5 18.4 17.5 17.2 17.1 16.9	12.0 11.8 10.9 10.7 11.3 10.6 10.3 10.2 9.9	8.0 7.9 7.7 7.7 7.1 6.9 6.9 7.0 7.0	2.2 2.3 2.5 2.6 2.6 2.6 2.6 2.4 2.5	6.8 6.7 6.4 6.3 6.3 6.4 6.2 6.0 6.2	7.2 7.1 7.1 7.4 7.5 7.6 7.5 7.4 7.2 7.1
100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	85.7 85.8 86.1 86.4 86.9 87.3 87.5 87.7 87.7 87.6 87.2 87.1	1.5 1.6 1.4 1.5 1.3 1.2 1.0 1.0 1.0 1.0 1.0	1.3 1.1 1.0 1.0 1.1 1.1 9 1.2 1.0 1.3 1.5	3.8 3.7 3.7 3.9 4.0 4.1 4.3 4.4 4.6 4.6 4.5 4.6	16.0 15.7 15.6 15.8 15.9 15.4 15.4 14.8 14.5 13.2 12.9 12.4 12.2	9.0 8.9 9.2 9.2 9.0 9.1 9.2 8.9 8.7 7.7 7.4 7.0 6.9 6.8	6.9 6.8 6.7 6.8 6.3 6.1 6.0 5.6 5.5 5.4 5.2	2.5 2.5 2.5 2.5 2.3 2.2 2.1 2.0 1.9 2.0 2.0 2.1 2.0	6.0 6.0 6.3 6.2 6.3 6.2 6.2 6.0 5.9 5.8 5.9	6.9 6.8 6.9 7.0 7.0 6.9 6.9 6.9 6.6 6.5 6.6
	2,030.9 2,294.7 2,563.3 2,789.5 3,128.4 2,20.3 3,536.7 3,533.2 4,220.3 4,422.3 3,536.7 5,103.8 5,484.4 5,803.1 5,995.9 6,337.7 6,657.4 7,072.2 7,397.6 6,7,816.9 10,950.8 11,685.9 10,950.8 11,685.9 11,6	Domestic product Total pro	Double Company Compa	Total private industries	Total private industries	Gross domestic product	Total private Total private Total private Total manufaction Total manufactio	Gross domestic product Total private industries Agriculture, fishing, f	Cross domestic Total private product Total private priva	Cross

See next page for continuation of table.

Consists of agriculture, forestry, fishing, and hunting; mining; construction; and manufacturing.
 Consists of utilities; wholesale trade; retail trade; transportation and warehousing; information; finance, insurance, real estate, rental, and leasing; professional and business services; educational services, health care, and social assistance; arts, entertainment, recreation, accommodation, and food services; and other services, except government.
 Note.—Industry detail data for 2005 and 2006, released in January 2008, and data for 2007, released in April 2008, do not incorporate revised statistics of the national income and product accounts that were released in July 2008. The sum of value added for all industries differs slightly from GDP in these earlier

data because value added for manufacturing included source data that were not included in GDP as reported in the national income and product accounts

TABLE B-12.—Gross domestic product (GDP) by industry, value added, in current dollars and as a percentage of GDP, 1977-2007-Continued

[Billions of dollars; except as noted]

Year	Transpor- tation and ware- housing	Information	Finance, insurance, real estate, rental, and leasing	Profes- sional and business services	Educational services, health care, and social assistance	Arts, entertain- ment, recreation, accommo- dation, and food services	Other services, except government	Government	Private goods- producing industries ¹	Private services- producing industries ²
					Value	added				
1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1990 1990 1991 1992 1993 1995 1995 1995 1997 1997	76.2 86.7 96.6 102.3 109.9 107.8 131.4 136.3 145.6 151.1 164.1 189.4 178.2 226.3 225.2 225.3 237.2 273.7	71.1 81.4 90.3 99.0 112.7 123.6 140.0 147.1 162.9 173.1 185.0 194.0 210.4 225.1 235.2 250.9 272.6 337.6 337.6 331.6 347.8 341.8	304.0 347.4 390.3 442.4 498.4 539.9 604.6 670.2 729.7 795.1 840.3 910.1 975.4 1,042.1 1,103.6 1,177.4 1,241.5 1,283.0 1,470.7 1,593.3 1,684.6 1,798.4	122.7 141.9 164.0 186.3 213.2 230.9 262.5 303.8 340.8 340.8 378.8 414.1 466.3 559.3 626.7 659.1 888.4 743.1 896.5 976.2	93.8 106.4 120.5 139.7 159.9 177.9 188.3 2214.1 221.3 252.0 266.5 309.1 347.0 347.0 348.0 552.5 488.0 551.1 553.3 552.5 573.1 601.5	58.8 67.9 77.1 83.5 93.5 100.9 112.0 121.2 134.3 145.9 180.2 195.2 202.2 216.2 225.5 235.0 248.3 264.4 289.8 306.0 327.8	46.1 53.2 58.2 62.6 68.5 70.7 79.2 89.3 98.0 107.2 112.3 124.4 133.9 142.6 144.2 153.0 183.7 173.2 189.9 189.9 199.1	291.5 317.7 343.7 425.9 462.4 493.1 538.1 583.3 620.0 659.1 704.7 752.0 805.3 887.2 897.3 990.4 1,021.6 1,056.8 1,094.5	627.5 7710.6 799.7 840.2 946.6 923.3 953.1 1,072.7 1,107.4 1,116.7 1,180.8 1,341.0 1,377.4 1,400.0 1,453.4 1,572.4 1,621.4 1,820.8 1,895.4	1,111.9 1,266.4 1,417.9 1,565.6 1,755.9 1,869.3 2,090.5 2,322.3 2,529.5 2,726.1 2,899.5 3,137.8 3,391.4 3,785.9 4,040.5 4,275.9 4,538.0 4,775.8 5,772.8 5,772.8 5,757.1 6,168.3
2000	301.6 296.9 304.6 316.6 344.6 358.5 385.4 403.5	458.3 476.9 483.0 489.1 530.6 570.5 598.8 645.3	1,931.0 2,059.2 2,141.9 2,244.6 2,378.8 2,549.0 2,756.6 2,860.7	1,140.8 1,165.9 1,189.0 1,248.9 1,338.2 1,453.2 1,560.9 1,684.2	678.4 739.3 799.6 857.3 916.3 961.5 1,022.3 1,090.7	350.1 361.5 381.5 398.9 427.5 448.4 479.8 505.7	229.1 241.5 252.5 265.3 273.9 288.1 301.1 316.6	1,202.7 1,258.3 1,338.4 1,418.4 1,491.6 1,568.7 1,649.4 1,741.0	2,081.5 2,027.5 2,036.9 2,113.3 2,280.6 2,446.2 2,567.5 2,615.5	6,532.8 6,842.2 7,094.3 7,429.1 7,913.7 8,415.2 8,988.5 9,488.2
				Industry valu	ue added as a p	ercentage of (GDP (percent)			
1977	3.8 3.8 3.8 3.3 3.3 3.3 3.3 3.2 3.0 2.9 3.0 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1	3.5 3.5 3.5 3.6 3.8 3.9 3.9 3.9 4.0 4.2 4.2 4.2 4.2 4.7 4.7 4.7 4.7 4.7 4.5 4.5 4.5 4.5 4.5	15.0 15.1 15.2 15.9 16.6 17.1 17.0 17.8 17.8 17.8 18.0 18.4 18.6 18.4 18.7 19.2 19.3 19.4 19.7 20.5 20.5 20.4 20.5 20.9	6.0 6.2 6.4 6.7 6.8 7.1 7.4 7.7 8.5 8.7 9.1 9.4 9.8 9.9 9.9 9.9 9.9 10.0 10.8 11.5 11.6 11.5 11.4 11.5 11.4 11.5	4.6 4.6 4.7 5.1 5.5 5.6 6.0 6.1 6.3 7.1 7.3 7.2 7.2 7.2 7.2 7.1 6.9 6.8 6.9 7.8 7.7 7.7 7.7	2,9 3,0 3,0 3,1 3,2 3,2 3,2 3,2 3,3 3,3 3,4 3,4 3,4 3,5 3,5 3,5 3,5 3,6 3,6 3,6 3,6 3,6 3,6 3,6 3,6 3,6 3,6	23 23 23 22 22 22 22 23 23 24 24 24 24 24 24 24 24 24 24 24 24 24	14.4 13.8 13.5 13.8 13.6 14.2 13.9 13.9 13.9 13.8 13.7 13.8 14.2 14.2 14.2 14.2 12.7 12.5 12.3 12.4 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8	30.9 31.0 31.0 30.1 30.3 28.4 26.9 25.0 24.7 24.5 22.7 22.1 22.1 22.1 22.1 22.1 21.9 22.1 21.9 21.9	54.7 55.2 55.3 56.1 56.1 57.4 59.0 59.9 61.1 61.2 61.5 61.8 62.4 63.1 63.8 64.2 64.2 64.6 64.9 65.3 66.6 67.8 67.8 67.8 67.7 67.7 67.7 68.1

Note (cont'd).—Value added is the contribution of each private industry and of government to GDP. Value added is equal to an industry's gross output minus its intermediate inputs. Current-dollar value added is calculated as the sum of distributions by an industry to its labor and capital, which are derived from the components of gross domestic income.

Value added industry data shown in Tables B–12 and B–13 are based on the 1997 North American Industry Classification System (NAICS). GDP by industry

data based on the Standard Industrial Classification (SIC) are available from the Department of Commerce, Bureau of Economic Analysis.

Table B-13.—Real gross domestic product by industry, value added, and percent changes, 1977-2007

						Private i	ndustries				
	Gross		Agricul-			N	/Janufacturing]			
Year	domestic product	Total private industries	ture, forestry, fishing, and hunting	Mining	Con- struc- tion	Total manufac- turing	Durable goods	Non- durable goods	Utilities	Wholesale trade	Retail trade
				Chain-t	ype quantity i	ndexes for va	lue added (20	00=100)			
1977 1978 1979	48.391 51.085 52.699	46.088 48.802 50.606	46.430 45.057 48.573	86.262 88.929 79.749	74.057 78.442 81.174	46.745 49.157 50.843	37.736 40.159 40.808	64.010 66.062 70.282	59.909 59.583 54.661	33.611 37.065 39.888	38.412 40.654 40.701
1980 1981 1982 1983 1984 1985 1986 1987 1988 1989	52.579 53.904 52.860 55.249 59.220 61.666 63.804 65.958 68.684 71.116	50.321 51.720 50.422 52.785 56.789 59.383 61.137 63.367 66.299 68.710	47.543 59.731 62.961 43.338 57.105 69.555 68.605 71.483 64.678 71.099	89.978 90.260 86.329 81.175 88.849 93.077 87.529 91.661 99.992 97.072	74.626 67.939 59.460 62.805 72.200 79.043 81.818 82.448 85.435 87.646	48.190 50.480 46.795 50.455 55.084 56.582 56.516 60.746 64.212 65.033	38.476 39.563 35.645 37.953 44.042 45.187 45.550 48.859 52.843 53.696	67.152 72.303 69.864 76.660 76.466 78.688 77.515 83,572 85,425 86.109	51.968 51.733 50.698 52.706 57.341 60.940 64.406 72.315 70.613 79.002	39.782 42.074 42.096 43.770 47.143 49.523 54.486 53.070 56.444 58.603	38.907 40.035 39.951 44.123 48.265 51.232 54.187 52.138 56.545 58.838
1990 1991 1992 1993 1994 1996 1997 1998	72.451 72.329 74.734 76.731 79.816 81.814 84.842 88.658 92.359 96.469	69.905 69.779 72.363 74.291 77.765 79.722 83.179 87.362 91.662 96.183	74.689 75.398 83.114 72.838 84.616 73.099 80.041 88.315 86.287 89.163	96.157 97.638 95.694 97.020 105.327 105.681 98.850 102.463 101.682 104.300	86.543 79.137 80.026 82.010 86.586 86.312 90.694 93.267 97.087 99.411	64.299 63.412 65.508 68.255 73.496 76.819 79.682 84.518 90.181 94.104	52.963 51.496 52.742 55.173 60.173 65.218 69.120 75.335 84.355 89.627	85.419 85.835 89.669 92.943 98.369 97.783 98.443 100.438 99.762 101.298	84.447 85.285 85.362 85.814 89.518 93.835 95.405 91.161 90.481 94.672	57.318 59.387 65.037 67.135 71.346 70.800 77.261 85.648 95.431 100.412	59.794 59.483 62.960 65.351 69.806 72.974 79.407 86.039 90.399 95.686
2000	100.000 100.751 102.362 104.931 108.748 112.086 115.304 117.825	100.000 100.908 102.354 105.068 109.198 112.910 116.819 119.290	100.000 93.661 98.767 106.173 113.287 118.862 119.941 121.607	100.000 94.715 88.719 87.922 88.770 86.639 91.943 91.983	100.000 100.163 98.201 96.189 96.430 99.028 93.070 81.790	100.000 94.436 97.066 98.168 103.653 104.681 107.738 110.199	100.000 94.031 95.663 98.169 103.873 108.970 115.551 121.193	100.000 95.034 99.056 98.265 103.468 99.416 98.377 97.311	100.000 95.081 99.144 105.990 112.076 109.578 107.085 112.787	100.000 107.003 108.059 110.380 112.614 114.637 116.594 117.687	100.000 106.970 109.294 113.559 116.533 123.659 129.820 136.216
					Percent c	hange from ye	ear earlier				
1977 1978 1979	4.6 5.6 3.2	5.0 5.9 3.7	4.1 -3.0 7.8	7.6 3.1 –10.3	1.3 5.9 3.5	7.8 5.2 3.4	8.1 6.4 1.6	7.3 3.2 6.4	-0.5 5 -8.3	5.1 10.3 7.6	4.1 5.8 .1
1980	2 2.5 -1.9 4.5 7.2 4.1 3.5 3.4 4.1 3.5	6 2.8 -2.5 4.7 7.6 4.6 3.0 4.6 3.6 1.7	-2.1 25.6 5.4 -31.2 31.8 21.8 -1.4 4.2 -9.5 9.9	12.8 .3 -4.4 -6.0 9.5 4.8 -6.0 4.7 9.1 -2.9 9	-8.1 -9.0 -12.5 5.6 15.0 9.5 3.5 .8 3.6 2.6 -1.3 -8.6	-5.2 4.8 -7.3 7.8 9.2 2.7 -1.1 7.5 5.7 1.3 -1.1	-5.7 2.8 -9.9 6.5 16.0 2.6 8 7.3 8.2 1.6 -1.4	-4.5 7.7 -3.4 9.7 -3 2.9 -1.5 7.8 2.2 8	-4.9 5 -2.0 4.0 8.8 6.3 5.7 12.3 -2.4 11.9 6.9	-3 5.8 .1 4.0 7.7 5.0 10.0 -2.6 6.4 3.8 -2.2 3.6	-4.4 2.9 -2 10.4 9.4 6.1 5.8 -3.8 8.5 4.1 1.6
1992 1993 1994 1995 1996 1997 1998	2 3.3 2.7 4.0 2.5 3.7 4.5 4.2	2 3.7 2.7 4.7 2.5 4.3 5.0 4.9	10.2 -12.4 16.2 -13.6 9.5 10.3 -2.3 3.3	-2.0 1.4 8.6 .3 -6.5 3.7 8 2.6	1.1 2.5 5.6 3 5.1 2.8 4.1 2.4	3.3 4.2 7.7 4.5 3.7 6.1 6.7 4.4	-2.8 2.4 4.6 9.1 8.4 6.0 9.0 12.0	.5 4.5 3.7 5.8 6 .7 2.0 7	.1 .5 4.3 4.8 1.7 -4.4 7 4.6	9.5 3.2 6.3 8 9.1 10.9 11.4 5.2	5 5.8 3.8 6.8 4.5 8.8 8.4 5.1
2000	3.7 .8 1.6 2.5 3.6 3.1 2.9 2.2	4.0 .9 1.4 2.7 3.9 3.4 3.5 2.1	12.2 -6.3 5.5 7.5 6.7 4.9 .9	-4.1 -5.3 -6.3 9 1.0 -2.4 6.1	.6 .2 -2.0 -2.0 .3 2.7 -6.0 -12.1	6.3 -5.6 2.8 1.1 5.6 1.0 2.9 2.3	11.6 -6.0 1.7 2.6 5.8 4.9 6.0 4.9	-1.3 -5.0 4.2 8 5.3 -3.9 -1.0 -1.1	5.6 -4.9 4.3 6.9 5.7 -2.2 -2.3 5.3	4 7.0 1.0 2.1 2.0 1.8 1.7	4.5 7.0 2.2 3.9 2.6 6.1 5.0 4.9

See next page for continuation of table.

¹ Consists of agriculture, forestry, fishing, and hunting; mining; construction; and manufacturing.
² Consists of utilities; wholesale trade; retail trade; transportation and warehousing; information; finance, insurance, real estate, rental, and leasing; professional and business services; educational services, health care, and social assistance; arts, entertainment, recreation, accommodation, and food services; and other services, except government.

Table B-13.—Real gross domestic product by industry, value added, and percent changes, 1977-2007—Continued

			Private							
Year	Transpor- tation and ware- housing	Information	Finance, insurance, real estate, rental, and leasing	Profes- sional and business services	Educational services, health care, and social assistance	Arts, entertain- ment, recreation, accommo- dation, and food services	Other services, except government	Government	Private goods- producing industries 1	Private services- producing industries ²
				Chain-type q	uantity indexes	for value add	ed (2000=100)			
1977 1978 1979	43.462 45.697 48.252	28.460 31.532 34.231	47.363 50.358 52.965	34.086 36.884 39.387	57.878 60.672 63.234	48.641 52.049 53.512	71.231 75.107 75.703	74.973 76.694 77.721	52.269 54.587 56.085	43.258 46.163 48.120
1980	47.232 46.178 43.855 49.486 52.121 52.715 53.021 55.690 57.990	36.394 38.257 38.155 41.017 40.717 42.039 42.672 45.764 47.649	55.414 56.573 56.986 58.734 61.282 62.812 63.965	40.529 41.554 41.345 44.142 48.913 52.748 56.860 60.055	66.887 68.455 68.856 71.153 72.366 73.629 75.166 80.273	52.407 54.193 55.695 59.784 62.194 66.167 69.642	74.411 72.329 69.103 72.470 77.498 80.936 82.885 84.221 89.044	79.023 79.328 79.456 80.178 81.038 83.172 85.105 86.753	53.880 55.783 52.029 53.361 59.454 62.569 62.534 66.173	48.764 49.923 49.794 52.637 55.727 58.104 60.576 62.256
1988 1989	59.507	51.150	68.652 70.359	64.420 68.787	80.570 84.002	71.515 73.872	92.188	88.812 90.984	69.104 70.366	65.186 68.033
1990	62.281 65.060 68.758 71.988 77.827 80.473 84.585 88.373 91.454 95.301	53.420 54.441 57.568 61.445 65.223 67.996 72.714 74.559 82.252 95.467	71.877 73.051 74.863 76.931 78.506 80.732 82.893 86.786 90.201 94.994	72.073 69.786 72.008 73.224 75.430 77.382 82.053 87.432 91.976 96.898	87.047 89.285 91.728 92.199 92.413 93.503 94.144 94.809 95.603 97.304	76.063 74.232 77.250 78.787 80.604 83.542 86.796 90.310 93.446 96.836	94.369 91.258 92.502 95.195 98.624 99.772 99.291 101.871 100.236	93.215 93.658 94.134 94.055 94.407 94.250 94.768 95.864 96.923 98.009	69.858 68.214 70.330 72.128 77.818 79.572 82.596 87.229 91.878 95.402	69.877 70.319 73.074 75.047 77.745 79.773 83.377 87.407 91.591 96.434
2000	100.000 97.354 99.531 101.534 110.780 115.372 121.419 125.222	100.000 104.034 106.263 109.430 122.221 136.236 146.005 159.112	100.000 103.858 104.800 107.288 110.433 115.771 122.523 123.974	100.000 99.346 99.192 103.554 107.750 112.083 116.324 121.666	100.000 103.186 107.527 112.257 115.949 118.053 122.229 126.448	100.000 99.292 101.022 104.138 108.114 109.534 112.916 115.044	100.000 98.337 98.667 100.615 100.770 100.185 99.877 102.003	100.000 100.794 102.467 103.776 104.252 104.977 105.447 106.674	100.000 95.654 96.853 97.402 101.328 102.678 103.543 101.992	100.000 102.584 104.107 107.496 111.692 116.164 121.078 124.896
				Р	ercent change	from year earl	ier			
1977 1978 1979 1980	4.1 5.1 5.6 –2.1	7.5 10.8 8.6 6.3	1.4 6.3 5.2 4.6	8.6 8.2 6.8 2.9	6.4 4.8 4.2 5.8	6.8 7.0 2.8 –2.1	0.3 5.4 .8 -1.7	0.9 2.3 1.3 1.7	6.4 4.4 2.7 -3.9	4.1 6.7 4.2 1.3
1981 1982 1983 1984 1985	-2.2 -5.0 12.8 5.3 1.1	5.1 3 7.5 7 3.2 1.5	2.1 .7 3.1 4.3 2.5 1.8	2.5 5 6.8 10.8 7.8 7.8	2.3 .6 3.3 1.7 1.7 2.1	3.4 2.8 7.3 4.0 6.4 5.3	-2.8 -4.5 4.9 6.9 4.4 2.4	.4 .2 .9 1.1 2.6 2.3	3.5 -6.7 2.6 11.4 5.2 1	2.4 3 5.7 5.9 4.3 4.3
1987 1988 1989 1990	5.0 4.1 2.6 4.7	7.2 4.1 7.3 4.4	3.1 4.1 2.5 2.2	5.6 7.3 6.8 4.8	6.8 .4 4.3 3.6	-1.3 4.0 3.3 3.0	1.6 5.7 3.5 2.4	1.9 2.4 2.4 2.5	5.8 4.4 1.8 7	2.8 4.7 4.4 2.7
1991 1992 1993 1994 1995 1996	4.5 5.7 4.7 8.1 3.4 5.1 4.5	1.9 5.7 6.7 6.1 4.3 6.9 2.5	1.6 2.5 2.8 2.0 2.8 2.7 4.7	-3.2 3.2 1.7 3.0 2.6 6.0 6.6	2.6 2.7 .5 .2 1.2 .7	-2.4 4.1 2.0 2.3 3.6 3.9	-3.3 1.4 2.9 3.6 1.1 6	2.5 .5 .5 1 .4 2 .5	-2.4 3.1 2.6 7.9 2.3 3.8 5.6	2.7 3.9 2.7 3.6 2.6 4.5 4.8
1998 1999 2000 2001	3.5 4.2 4.9 –2.6	10.3 16.1 4.7 4.0	3.9 5.3 5.3 3.9	5.2 5.4 3.2 7	.8 1.8 2.8 3.2	3.5 3.6 3.3 7	2.6 -1.6 -2 -1.7	1.1 1.1 2.0 .8	5.3 3.8 4.8 -4.3	4.8 5.3 3.7
2002 2003 2004 2005 2006	2.2 2.0 9.1 4.1 5.2 3.1	2.1 3.0 11.7 11.5 7.2 9.0	.9 2.4 2.9 4.8 5.8 1.2	2 4.4 4.1 4.0 3.8 4.6	4.2 4.4 3.3 1.8 3.5 3.5	1.7 3.1 3.8 1.3 3.1 1.9	.3 2.0 .2 6 3 2.1	1.7 1.3 .5 .7 .4 1.2	1.3 .6 4.0 1.3 .8 -1.5	2.6 1.5 3.3 3.9 4.0 4.2 3.2

Note.—Data are based on the 1997 North American Industry Classification System (NAICS). See Note, Table B–12.

Table B-14.—Gross value added of nonfinancial corporate business, 1959-2008

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

		Net value added											Addenda	
	Gross							Net operat	ing surplus	3				
Year or quarter	value added of non- financial corpo- rate busi- ness 1	Con- sump- tion of fixed capital	Total	Com- pensa- tion of employ- ees	Taxes on produc- tion and imports less sub- sidies	Total	Net interest and miscel- laneous pay- ments	Busi- ness current transfer pay- ments	tory val	e profits wi uation and ption adjust Taxes on corpo-	capital stments Profits after	Profits before tax	Inven- tory valua- tion adjust- ment	Capital con- sumption adjust- ment
							monto			rate income	tax ²			
1959	266.0 276.4 283.7 309.8 329.9 356.1 391.2 429.0 451.2 497.8 540.5 550.8 809.8 876.7 989.7 1.119.4 1.272.9 1.415.9 1.537.1 1.746.0 2.302.0 2.387.5 2.557.1 2.771.6 2.912.3 3.099.7 3.236.9 3.399.8 3.669.5 3.399.8 4.401.8 5.272.5 4.109.5 4.401.8 6.597.3 6.596.4 6.396.1	21.1 22.6 23.2 23.2 25.2 26.4 31.5 31.3 37.6 42.4 46.8 50.7 76.1 110.5 127.8 147.3 147.3 168.2 2117.6 230.7 74.1 255.3 261.5 2	244.9 253.8 260.5 285.9 304.7 362.8 3397.4 416.8 460.2 498.1 551.5 552.4 613.2 688.1 735.7 788.7 788.7 788.7 789.1 1,268.6 2,130.2 2,610.7 2,722.3 2,758.3 2,758.3 2,758.3 2,758.3 3,034.4 4,704.3 2,758.3 3,034.4 4,704.3 2,758.3 3,034.4 4,704.3 2,758.3 3,034.4 4,704.3 2,758.3 3,034.4 4,704.3 2,758.3 3,034.4 4,704.3 2,758.3 3,034.4 4,704.3 2,758.3 3,034.4 4,704.3 2,758.3 3,034.4 4,704.3 2,758.3 3,034.4 4,704.3 2,758.3 3,034.4 4,704.3 2,758.3 3,034.4 4,704.3 3,034.4 4,704.3 3,034.4 4,704.3 3,034.4 4,704.3 5,660.5 5,652.2 5,643.7 5,608.5 5,643.7 6,139.6 6,195.0 6,195.0 6,195.0 6,250.7	170.8 180.4 184.5 199.3 210.1 225.7 245.4 272.9 291.1 321.9 357.1 376.5 399.4 443.9 502.2 552.2 575.5 651.4 735.3 845.3 945.9 1,049.8 1,161.5 1,203.9 1,406.1 1,504.2 1,583.1 1,914.7 2,012.9 2,048.4 2,154.1 1,504.2 1,583.1 1,914.7 2,012.9 2,048.4 2,154.1 3,168.7 3,168.7 3,168.7 3,168.7 3,168.7 3,168.7 3,168.7 3,168.7 3,168.7 3,168.7 3,168.7 3,168.7 3,168.7 3,168.7 4,175.6	24.4 26.6 27.6 29.9 31.7 33.9 36.0 37.0 39.3 45.5 50.2 54.2 59.5 63.7 70.1 74.4 80.2 86.7 102.7 152.9 168.0 185.0 185.0 204.6 204.6 216.8 233.8 248.2 248.2 259.5 268.7 302.5 318.8 349.6 350.9 369.1 385.5 502.2 506.2	49.7 46.8 48.4 56.8 62.9 70.2 81.4 87.6 88.4 92.8 90.8 80.7 93.4 105.6 115.8 109.1 133.1 154.7 178.9 197.0 200.0 200.0 200.0 246.4 238.1 238.1 238.3 344.5 345.3 344.5 345.3 344.5 345.7 353.8 673.1 736.3 717.4 742.7 716.5 611.8 650.8 7717.4 742.7 716.5 1,013.5 1,	2.9 3.2 3.7 3.7 3.2 5.8 7.0 8.4 9.7 12.7 16.6 18.6 21.8 227.5 28.4 41.8 227.5 28.4 41.8 227.7 86.0 91.5 109.8 142.0 146.2 135.9 111.3 101.0 115.2 111.9 124.0 143.8 160.2 191.7 204.0 167.4 152.6 138.9 153.6 168.6 179.4 146.9 165.1 169.4 169.4 169.4 178.9 174.6	1.3 1.4 1.5 1.7 2.0 2.2 2.7 2.8 3.1 3.2 3.3 3.7 4.7 4.0 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5	45.5 42.2 43.2 43.2 50.8 56.5 63.0 63.0 73.3 77.9 60.9 77.9 60.9 72.1 83.0 89.4 77.5 99.6 61.2 11.7 141.4 154.1 15	20.7 19.1 19.4 20.6 22.8 23.9 27.1 29.5 27.8 33.5 33.3 30.0 33.8 40.4 42.8 41.9 53.5 60.6 67.6 67.6 67.6 68.2 66.0 101.2 98.5 94.2 104.0 101.2 170.2 171.2 170.2 171.2 1	24.8 23.1 23.8 30.2 33.8 30.2 46.2 46.2 47.3 46.5 41.6 33.6 42.1 49.0 34.7 57.7 68.2 80.9 86.6 78.1 101.7 103.1 1131.2 172.0 175.0 175.2 145.9 165.5 1202.3 181.7 175.8 172.9 194.8 231.2 245.5 332.3 336.3 490.7 547.0 493.3 551.7 479.4 562.7 479.4 562.7 479.4 562.7 479.4 562.7 575.7 575.7 575.7 575.7 577.0 575.7 577.0 575.7 577.0 575.7 577.0 575.7 577.0 575.7 577.0 575.7 577.0 575.7 577.0 575.7 577.0 575.7 577.0 575.7 577.0 575.7 577.0 575.7 577.0 575.7 577.0 575.7	43.4 40.1 39.9 44.6 49.7 55.9 66.1 71.2 58.5 67.4 77.2 98.4 110.1 110.7 138.2 159.4 183.7 197.6 139.9 163.3 197.6 139.9 163.3 197.6 209.8 200.4 238.7 239.0 222.4 258.2 249.2 449.4 457.9 423.9 425.9 427.9 427.9 427.9 428.7 428.7 429.8 429.1 429.1 429.1 429.1 421.0	-0.3 -1.2 -2.1.6 -3.7 -5.9 -6.6 -4.6 -19.6 -6.6 -19.6 -10.5 -14.1 -15.7 -23.7 -40.1 -15.7 -23.7 -40.1 -15.7 -23.7 -40.1 -15.7 -24.6 -7.5 -7.4 -4.0 -7.1 -16.2 -12.2 -16.3 -12.4 -18.0 -12.4 -18.0 -11.3 -12.4 -18.0 -13.6 -13.1 -11.3 -2.2 -13.6 -33.1 -2.1 -4.1 -4.0 -7.5 -7.4 -4.0 -7.5 -7.4 -4.0 -7.1 -16.2 -12.2 -16.3 -12.4 -18.0 -13.1 -11.3 -37.8 -38.5 -51.2 -45.3 -48.7 -21.8 -48.7 -21.8 -48.7 -21.8	2.3 2.3 3.00 6.1 6.8 7.7 7.7 8.4 8.5 7.7 9.6 8.9 9.3 10.5 9.5 9.5 9.5 9.6 1.5 9.7 9.7 9.6 8.9 9.3 10.5 9.7 9.7 9.6 8.9 9.3 10.5 9.7 9.7 9.6 8.9 9.3 10.5 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7 9.7
III IV 2008: [7,098.6 7,135.5 7,119.3	828.1 840.7 852.6	6,270.6 6,294.8 6,266.7	4,537.2 4,602.7 4,623.0	614.2 619.5 617.9	1,119.1 1,072.6 1,025.8	178.8 185.4 180.5	67.7 67.7 57.9	872.6 819.5 787.4	318.9 314.7 279.8	553.7 504.7 507.6	1,080.4 1,080.6 939.6	-55.3 -31.0 -74.1 -109.4	-176.8 -187.0 -42.8
 <i>P</i>	7,153.1 7,255.3	868.5 910.0	6,284.6 6,345.3	4,630.8 4,652.6	625.6 627.6	1,028.2 1,065.1	186.7 181.4	58.2 52.6	783.2 831.1	294.0 296.3	489.2 534.8	993.3 1,004.1	-154.0 -92.4	-56.1 -80.5

Estimates for nonfinancial corporate business for 2000 and earlier periods are based on the Standard Industrial Classification (SIC); later estimates are based on the North American Industry Classification System (NAICS).
 With inventory valuation and capital consumption adjustments.

Table B-15.—Gross value added and price, costs, and profits of nonfinancial corporate business, 1959-2008

[Quarterly data at seasonally adjusted annual rates]

	Gross valu	e added of		Price per u			ded of nonfina	ancial corpora	ate business	(dollars) 1, 2	
Year or quarter	nonfinancia	al corporate (billions		Com- pensation of		Unit nonl	abor cost		valuation a	e profits with and capital co adjustments	insumption
	Current dollars	Chained (2000) dollars	Total	employ- ees (unit labor cost)	Total	Con- sumption of fixed capital	Taxes on production and imports ³	Net interest and miscellaneous payments	Total	Taxes on corporate income	Profits after tax ⁵
1959	266.0 276.4 283.7 309.8 329.9 356.1 339.1 2429.0 451.2 497.8 5558.3 603.0 669.5 750.8 809.8 876.7 989.7 1,119.4 1,277.9 1,415.9 1,337.1 1,746.0 1,337.1 1,746.0 1,337.1 1,746.0 2,912.3 3,041.5 3,099.7 3,3236.0 3,397.8 4,401.8 3,041.5 3,099.8 4,655.0 4,950.8 5,271.2 5,233.5 5,371.7 5,558.4 4,655.0 4,950.8	980.4 1,012.0 1,032.0 1,120.7 1,186.7 1,270.3 1,375.1 1,472.6 1,508.9 1,716.6 1,649.9 1,716.6 1,846.4 1,957.7 1,925.4 1,958.8 2,050.0 2,344.1 2,418.7 2,394.6 2,491.5 2,200.0 3,376.2 3,479.5 3,197.9 3,376.2 3,479.5 3,797.9	0.271 273 274 278 280 284 291 310 324 291 310 338 3511 363 351 363 354 462 483 509 504 894 896 894 896 890 890 896 891 8930 956 979 985 988 1.001 1.013 1.019 1.032 1.018 1.019	0.174 1.78 1.79 1.178 1.178 1.178 1.178 1.178 1.185 1.93 2.01 1.02 1.44 2.28 2.233 2.240 2.57 2.233 3.18 3.34 3.61 3.37 4.38 4.98 5.07 5.51 5.541 5.549 5.70 6.07 6.07 6.07 6.07 6.07 6.07 6.07 6	0.051 0.53 0.53 0.53 0.53 0.53 0.53 0.53 0.53		0.026		0.046	0.021 0.19 0.19 0.19 0.19 0.19 0.19 0.19 0.1	0.025
2006	7,075.1 6,210.3 6,358.1 6,418.9 6,597.3 6,771.2 6,817.5 6,931.7	6,264.5 5,789.5 5,911.1 5,903.2 6,027.3 6,129.6 6,141.6 6,212.5	1.129 1.073 1.076 1.087 1.095 1.105 1.110 1.116	.700 .722 .690 .683 .697 .690 .696 .697	.269 .253 .254 .264 .258 .257 .261 .260	.126 .131 .121 .127 .137 .124 .123 .125	.109 .107 .107 .100 .107 .107 .108 .107	.029 .025 .026 .027 .027 .027 .028 .027	.139 .130 .139 .127 .147 .152 .152 .160	.051 .044 .045 .045 .051 .049 .051	.087 .085 .093 .081 .097 .102 .101
2007:	6,933.3 6,999.6 7,066.7 7,098.6 7,135.5 7,119.3 7,153.1 7,255.3	6,187.3 6,188.0 6,253.1 6,293.3 6,323.5 6,302.0 6,394.4 6,422.3	1.121 1.131 1.130 1.128 1.128 1.130 1.119 1.130	.711 .721 .719 .721 .728 .734 .724	.264 .267 .267 .268 .271 .271 .272 .276	.128 .130 .130 .132 .133 .135 .136	.108 .109 .108 .108 .109 .107 .107	.028 .029 .028 .029 .029 .029 .029	.145 .143 .143 .139 .130 .125 .122	.048 .052 .053 .051 .050 .044 .046	.096 .091 .090 .088 .080 .081 .076

Estimates for nonfinancial corporate business for 2000 and earlier periods are based on the Standard Industrial Classification (SIC); later estimates are based on the North American Industry Classification System (NAICS).

 The implicit price deflator for gross value added of nonfinancial corporate business divided by 100.

 Less subsidies plus business current transfer payments.

 With inventory valuation and capital consumption adjustments.

Source: Department of Commerce (Bureau of Economic Analysis).

Table B-16.—Personal consumption expenditures, 1959–2008

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

		Du	rable goo		ionars, qu		urable go		, ,			Serv	rices		
Year or quarter	Per- sonal con- sump- tion expen- ditures	Total ¹	Motor vehi- cles and parts	Furni- ture and house- hold equip- ment	Total ¹	Food	Cloth- ing and shoes	Gaso- line and oil	Fuel oil and coal	Total ¹	Hous- ing ²	Hous open Total ¹		Trans- por- tation	Medical care
1959	317.6	42.7	18.9	18.1	148.5	80.6	26.4	11.3	4.0	126.5	45.0	18.7	7.6	10.6	16.4
1960	331.7 342.1 363.3 382.7 411.4 443.8 480.9 507.8 558.0 605.2	43.3 41.8 46.9 51.6 56.7 63.3 68.3 70.4 80.8 85.9	19.7 17.8 21.5 24.4 26.0 29.9 30.3 30.0 36.1 38.4	18.0 18.3 19.3 20.7 23.2 25.1 28.2 30.0 32.9 34.7	152.8 156.6 162.8 168.2 178.6 191.5 208.7 217.1 235.7 253.1	82.3 84.0 86.1 88.2 93.5 100.7 109.3 112.4 122.2 131.5	27.0 27.6 29.0 29.8 32.4 34.1 37.4 39.2 43.2 46.5	12.0 12.0 12.6 13.0 13.6 14.8 16.0 17.1 18.6 20.5	3.8 3.8 4.0 4.1 4.4 4.7 4.8 4.7	135.6 143.8 153.6 162.9 176.1 189.0 203.8 220.3 241.6 266.1	48.2 51.2 54.7 58.0 61.4 65.4 69.5 74.1 79.8 86.9	20.3 21.2 22.4 23.6 25.0 26.5 28.1 30.0 32.3 35.0	8.3 8.8 9.4 9.9 10.4 10.9 11.5 12.2 13.0 14.1	11.2 11.6 12.3 12.9 13.8 14.7 15.9 17.4 19.3 21.6	17.7 19.0 21.2 23.0 26.4 28.6 31.5 34.7 40.1 45.8
1970 1971 1972 1973 1974 1976 1977 1978	648.5 701.9 770.6 852.4 933.4 1,034.4 1,151.9 1,278.6 1,428.5 1,592.2	85.0 96.9 110.4 123.5 122.3 133.5 158.9 181.2 201.7 214.4	35.5 44.5 51.1 56.1 49.5 54.8 71.3 83.5 93.1 93.5	35.7 37.8 42.4 47.9 51.5 54.5 60.2 67.2 74.3 82.7	272.0 285.5 308.0 343.1 384.5 420.7 458.3 497.1 550.2 624.5	143.8 149.7 161.4 179.6 201.8 223.2 242.5 262.6 289.6 324.7	47.8 51.7 56.4 62.5 66.0 70.8 76.6 84.1 94.3 101.2	21.9 23.2 24.4 28.1 36.1 39.7 43.0 46.9 50.1 66.2	4.4 4.6 5.1 6.3 7.8 8.4 10.1 11.1 11.5 14.4	291.5 319.5 352.2 385.8 426.6 480.2 534.7 600.2 676.6 753.3	94.1 102.8 112.6 123.3 134.8 147.7 162.2 180.2 202.4 227.3	37.8 41.1 45.4 49.9 55.8 64.0 72.5 81.8 91.2 100.3	15.3 16.9 18.8 20.4 24.0 29.2 33.2 38.5 43.0 47.8	24.0 26.8 29.6 31.6 34.1 37.9 42.5 48.7 53.4 59.9	51.7 58.4 65.6 73.3 82.3 95.6 109.1 125.3 143.1 161.0
1980 1981 1982 1983 1984 1985 1986 1987 1988	1,757.1 1,941.1 2,077.3 2,290.6 2,503.3 2,720.3 2,899.7 3,100.2 3,353.6 3,598.5	214.2 231.3 240.2 280.8 326.5 363.5 403.0 421.7 453.6 471.8	87.0 95.8 102.9 126.5 152.1 175.9 194.1 195.0 209.4 215.3	86.7 92.1 93.4 106.6 119.0 128.5 143.0 153.4 163.7 171.6	696.1 758.9 787.6 831.2 884.6 928.7 958.4 1,015.3 1,083.5 1,166.7	356.0 383.5 403.4 423.8 447.4 467.6 492.0 515.2 553.5 591.6	107.3 117.2 120.5 130.9 142.5 152.1 163.1 174.4 185.5 198.9	86.7 97.9 94.1 93.1 94.6 97.2 80.1 85.4 88.3 98.6	15.4 15.8 14.5 13.6 13.9 13.6 11.3 11.2 11.7	846.9 950.8 1,049.4 1,178.6 1,292.2 1,428.1 1,538.3 1,663.3 1,816.5 1,960.0	256.2 289.7 315.2 341.0 374.5 412.7 448.4 483.7 521.5 557.4	113.7 126.8 142.5 157.0 169.4 181.8 187.7 195.4 207.3 221.1	57.5 64.8 74.2 82.4 86.5 90.8 89.2 90.9 96.3 101.0	65.2 70.3 72.9 81.1 93.2 104.5 111.1 120.9 133.4 142.0	184.4 216.7 243.3 274.3 303.2 331.5 357.5 392.2 442.8 492.5
1990	3,839.9 3,986.1 4,235.3 4,477.9 4,743.3 4,975.8 5,256.8 5,547.4 5,879.5 6,282.5	474.2 453.9 483.6 526.7 582.2 611.6 652.6 692.7 750.2 817.6	212.8 193.5 213.0 234.0 260.5 266.7 284.9 305.1 336.1 370.8	171.6 171.7 178.7 193.4 213.4 228.6 242.9 256.2 273.1 293.9	1,249.9 1,284.8 1,330.5 1,379.4 1,437.2 1,485.1 1,555.5 1,619.0 1,683.6 1,804.8	636.8 657.5 669.3 691.9 720.6 740.9 768.7 796.2 829.8 873.1	204.1 208.7 221.9 229.9 238.1 241.7 250.2 258.1 270.9 286.3	111.2 108.5 112.4 114.1 116.2 120.2 130.4 134.4 122.4 137.9	12.9 12.4 12.2 12.4 12.8 13.1 14.3 13.3 11.5	2,115.9 2,247.4 2,421.2 2,571.8 2,723.9 2,879.1 3,048.7 3,235.8 3,445.7 3,660.0	597.9 631.1 658.5 683.9 726.1 764.4 800.1 842.6 894.6 948.4	227.3 238.6 250.7 269.9 286.2 298.7 318.5 337.0 350.5 364.8	101.0 107.4 108.9 118.2 120.7 122.2 129.4 131.3 129.8 130.6	147.7 145.3 157.7 172.7 190.6 207.7 226.5 245.7 259.5 276.4	556.0 608.9 672.2 715.1 752.9 797.9 833.5 873.0 921.4 961.1
2000	6,739.4 7,055.0 7,350.7 7,703.6 8,195.9 8,694.1 9,207.2 9,710.2	863.3 883.7 923.9 942.7 983.9 1,020.8 1,052.1 1,082.8	386.5 407.9 429.3 431.7 436.8 443.1 434.0 440.4	312.9 312.1 323.1 331.5 355.7 377.3 403.5 415.3	1,947.2 2,017.1 2,079.6 2,190.2 2,343.7 2,514.1 2,685.2 2,833.0	925.2 967.9 1,001.9 1,046.0 1,113.1 1,181.2 1,257.4 1,329.1	297.7 297.7 303.5 310.9 325.0 341.5 360.2 374.0	175.7 171.6 164.5 192.7 231.4 283.6 313.8 340.6	15.8 15.4 14.2 16.9 18.3 21.0 22.4 26.3	3,928.8 4,154.3 4,347.2 4,570.8 4,868.3 5,159.2 5,469.9 5,794.4	1,006.5 1,073.7 1,123.1 1,161.8 1,226.8 1,298.7 1,388.7 1,460.9	390.1 409.0 407.7 429.4 449.0 479.7 502.4 525.7	143.3 156.7 152.5 167.3 175.4 198.3 209.6 218.8	291.3 292.8 288.4 297.3 308.2 324.3 341.2 357.0	1,026.8 1,113.8 1,206.2 1,300.5 1,395.5 1,491.3 1,575.8 1,681.1
2005: 	8,480.9 8,610.8 8,791.1 8,893.7	1,006.6 1,033.3 1,038.7 1,004.4	442.0 458.5 460.0 412.0	367.9 374.3 379.1 387.8	2,432.4 2,469.9 2,554.8 2,599.4	1,153.2 1,171.7 1,190.4 1,209.7	335.0 341.4 339.8 349.8	249.0 254.4 314.1 316.9	20.2 20.3 21.7 21.9	5,041.9 5,107.6 5,197.6 5,289.9	1,270.3 1,288.7 1,307.5 1,328.4	462.5 469.8 483.0 503.3	184.2 189.7 200.9 218.4	317.5 322.5 326.7 330.5	1,454.9 1,477.5 1,503.3 1,529.7
2006: I II IV	9,026.3 9,161.9 9,283.7 9,357.0	1,046.5 1,049.1 1,054.4 1,058.2	431.5 433.9 436.6 434.0	401.4 402.0 403.7 406.7	2,629.3 2,681.5 2,726.3 2,703.8	1,233.2 1,252.2 1,265.4 1,278.8	354.4 357.9 362.5 366.1	305.3 320.2 338.4 291.2	20.1 23.1 23.8 22.8	5,350.5 5,431.3 5,502.9 5,595.0	1,351.8 1,377.9 1,401.8 1,423.5	495.5 499.7 506.1 508.4	208.0 209.0 211.6 209.7	334.8 340.2 343.0 347.0	1,548.5 1,566.4 1,583.0 1,605.1
2007: 	9,524.9 9,657.5 9,765.6 9,892.7	1,076.6 1,085.3 1,086.2 1,083.0	442.0 444.0 437.9 437.8	413.7 415.2 417.2 415.3	2,761.5 2,817.7 2,846.6 2,906.2	1,297.7 1,321.2 1,337.9 1,359.8	374.6 372.9 375.4 373.2	307.1 336.9 341.6 376.7	25.4 25.8 25.5 28.6	5,686.8 5,754.4 5,832.8 5,903.5	1,440.1 1,453.8 1,466.9 1,482.7	517.5 524.0 526.9 534.3	216.8 219.0 218.3 221.1	350.6 354.2 360.4 362.9	1,649.1 1,663.0 1,690.2 1,721.9
2008: p	10,002.3 10,138.0 10,169.5	1,071.0 1,059.3 1,015.1	424.7 400.6 370.9	415.1 423.0 410.5	2,950.7 3,026.2 3,046.5	1,380.5 1,416.3 1,416.9	375.5 382.4 374.1	393.4 409.5 437.2	30.2 32.3 30.8	5,980.6 6,052.5 6,107.9	1,495.1 1,508.8 1,520.9	541.7 554.5 558.6	228.1 236.3 234.9	368.8 372.9 377.2	1,746.6 1,769.3 1,793.8

¹ Includes other items not shown separately.
² Includes imputed rental value of owner-occupied housing.

Table B-17.—Real personal consumption expenditures, 1990-2008

[Billions of chained (2000) dollars; quarterly data at seasonally adjusted annual rates]

		Du	rable goo	ds		Nond	lurable go	ods				Serv	ices		
Year or	Per- sonal con-		Motor	Furni- ture			Cloth-	Gaso-	Fuel			Hous opera			
quarter	sump- tion expen- ditures	Total ¹	vehi- cles and parts	and house- hold equip- ment	Total ¹	Food	ing and shoes	line and oil	oil and coal	Total ¹	Hous- ing ²	Total ¹	Elec- tric- ity and gas	Trans- por- tation	Medical care
1990 1991 1992 1993 1994 1995 1996 1997 1998	4,770.3 4,778.4 4,934.8 5,099.8 5,290.7 5,433.5 5,619.4 5,831.8 6,125.8 6,438.6	453.5 427.9 453.0 488.4 529.4 552.6 595.9 646.9 720.3 804.6	256.1 226.6 244.9 259.2 276.2 272.3 285.4 304.7 339.0 372.4	119.9 121.1 127.8 141.1 156.8 173.3 193.4 216.3 244.7 280.7	1,484.0 1,480.5 1,510.1 1,550.4 1,603.9 1,638.6 1,680.4 1,725.3 1,794.4 1,876.6	784.4 783.3 787.9 802.2 821.8 827.1 834.7 845.2 865.6 893.6	188.2 188.8 199.2 207.4 218.5 227.4 238.7 246.0 263.1 282.7	141.8 140.3 146.0 149.7 151.7 154.5 157.9 162.8 170.3 176.3	16.7 16.6 17.0 17.4 18.2 18.7 18.4 16.9 16.0	2,851.7 2,900.0 3,000.8 3,085.7 3,176.6 3,259.9 3,356.0 3,468.0 3,615.0 3,758.0	802.2 820.1 832.7 841.8 869.3 887.5 901.1 922.5 948.8 978.6	266.4 269.9 277.4 291.1 303.3 312.9 327.3 340.4 357.1 371.9	117.4 121.1 120.4 126.8 128.8 130.2 134.7 133.7 136.7 138.1	195.7 186.3 194.2 202.5 218.4 231.8 247.5 263.2 272.0 283.4	797.6 824.5 863.6 877.2 887.1 906.4 922.5 942.8 970.7 989.0
2000	6,739.4 6,910.4 7,099.3 7,295.3 7,561.4 7,791.7 8,029.0 8,252.8	863.3 900.7 964.8 1,020.6 1,084.8 1,134.4 1,185.1 1,242.4	386.5 405.8 429.0 442.1 450.8 449.9 437.9 446.7	312.9 331.8 364.3 397.8 445.1 490.9 550.2 594.0	1,947.2 1,986.7 2,037.1 2,103.0 2,177.6 2,252.7 2,335.3 2,392.6	925.2 940.2 954.6 977.7 1,009.4 1,047.7 1,090.1 1,110.5	297.7 303.7 318.3 334.2 350.7 372.3 394.4 412.9	175.7 178.3 181.9 183.2 186.7 187.4 184.2 184.5	15.8 15.2 15.5 15.4 14.6 13.2 12.4 13.7	3,928.8 4,023.2 4,100.4 4,178.8 4,311.0 4,420.9 4,529.9 4,646.2	1,006.5 1,033.7 1,042.1 1,051.9 1,083.8 1,118.4 1,154.6 1,171.7	390.1 391.0 393.2 398.8 408.5 415.2 413.5 421.2	143.3 140.9 144.9 147.5 149.1 152.8 148.3 151.1	291.3 288.0 280.2 280.6 284.6 287.9 293.7 299.2	1,026.8 1,075.2 1,136.6 1,180.8 1,216.5 1,257.3 1,290.2 1,327.8
2005: I II IV	7,697.5 7,766.4 7,838.1 7,864.9	1,111.6 1,143.7 1,158.9 1,123.3	447.9 464.3 469.0 418.1	470.7 482.0 497.0 514.0	2,220.7 2,243.7 2,260.1 2,286.3	1,033.0 1,040.9 1,053.3 1,063.7	362.4 371.5 371.6 383.7	184.8 187.7 188.6 188.6	14.1 13.3 13.0 12.3	4,379.3 4,398.2 4,439.4 4,466.9	1,103.6 1,113.2 1,123.7 1,133.1	412.9 413.3 417.5 417.2	151.6 151.6 154.5 153.5	287.0 287.7 288.3 288.6	1,241.2 1,250.9 1,263.4 1,273.8
2006: I II IV	7,947.4 8,002.1 8,046.3 8,119.9	1,173.1 1,178.3 1,188.4 1,200.7	435.4 437.3 439.4 439.6	537.9 544.6 553.8 564.5	2,310.8 2,328.7 2,342.0 2,359.8	1,077.8 1,090.3 1,093.3 1,099.1	390.2 391.0 396.1 400.4	186.3 183.2 183.6 183.8	11.5 12.6 12.7 13.0	4,484.7 4,515.7 4,537.6 4,581.5	1,143.2 1,151.7 1,158.8 1,164.7	406.6 413.6 416.5 417.3	144.2 148.8 150.1 149.8	290.8 293.2 294.0 296.9	1,283.7 1,287.9 1,289.8 1,299.2
2007: 	8,197.2 8,237.3 8,278.5 8,298.2	1,227.3 1,242.3 1,249.4 1,250.6	449.5 451.3 443.5 442.6	580.3 588.3 600.8 606.6	2,380.1 2,391.5 2,398.6 2,400.2	1,102.5 1,110.1 1,110.9 1,118.7	409.4 412.2 416.6 413.2	185.1 184.3 184.7 183.8	14.3 13.8 13.3 13.4	4,616.1 4,632.7 4,659.8 4,676.1	1,168.0 1,170.4 1,172.5 1,175.9	419.3 419.8 421.5 424.0	151.5 150.6 151.0 151.2	297.7 298.8 300.5 299.9	1,316.0 1,319.4 1,331.4 1,344.5
2008: <i>p</i>	8,316.1 8,341.3 8,262.1	1,237.0 1,228.3 1,178.8	430.2 407.2 377.1	609.3 629.6 615.1	2,397.9 2,420.7 2,377.8	1,122.4 1,133.6 1,111.2	416.3 427.2 411.9	181.4 179.1 175.1	12.8 11.9 11.1	4,704.3 4,712.1 4,712.2	1,177.3 1,182.3 1,184.5	425.9 421.3 414.5	154.0 149.6 143.0	301.2 298.9 297.5	1,360.8 1,370.3 1,379.2

Note.—See Table B-2 for data for total personal consumption expenditures for 1959-89.

¹ Includes other items not shown separately. ² Includes imputed rental value of owner-occupied housing.

Table B-18.—Private fixed investment by type, 1959–2008

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

			·			Nonres	idential						Residentia	 ıl
						Eq	uipment a	nd softwa	ire				Struc	ctures
	Private fixed	Total			Informa	ation proce and so	essing equ ftware	ipment				Total		
Year or quarter	invest- ment	non- resi- den- tial	Struc- tures	Total	Total	Computers and peripheral equipment	Soft- ware	Other	Indus- trial equip- ment	Trans- por- tation equip- ment	Other equip- ment	resi- den- tial ¹	Total ¹	Single family
1959	74.6	46.5	18.1	28.4	4.0	0.0	0.0	4.0	8.5	8.3	7.6	28.1	27.5	16.7
1960 1961 1962 1963 1964 1965 1966 1967 1968	75.7 75.2 82.0 88.1 97.2 109.0 117.7 118.7 132.1	49.4 48.8 53.1 56.0 63.0 74.8 85.4 86.4 93.4 104.7	19.6 19.7 20.8 21.2 23.7 28.3 31.3 31.5 33.6 37.7	29.8 29.1 32.3 34.8 39.2 46.5 54.0 59.9 67.0	4.9 5.3 5.7 6.5 7.4 8.5 10.7 11.3 11.9	.2 .3 .7 .9 1.2 1.7 1.9 2.4	.1 .2 .4 .5 .7 1.0 1.2 1.3	4.6 4.8 5.1 5.4 5.9 6.7 8.0 8.2 8.7	9.4 8.8 9.3 10.0 11.4 13.7 16.2 16.9 17.3	8.5 8.0 9.8 9.4 10.6 13.2 14.5 14.3 17.6 18.9	7.1 7.0 7.5 8.8 9.9 11.0 12.7 12.4 13.0 14.4	26.3 26.4 29.0 32.1 34.3 34.2 32.3 32.4 38.7 42.6	25.8 25.9 28.4 31.5 33.6 33.5 31.6 37.9 41.6	14.9 14.1 15.1 16.0 17.6 17.8 16.6 16.8 19.5
1970 1971 1972 1973 1974 1975 1976 1977 1978	150.4 169.9 198.5 228.6 235.4 236.5 274.8 339.0 412.2 474.9	109.0 114.1 128.8 153.3 169.5 173.7 192.4 228.7 280.6 333.9	40.3 42.7 47.2 55.0 61.2 61.4 65.9 74.6 93.6 117.7	68.7 71.5 81.7 98.3 108.2 112.4 126.4 154.1 187.0 216.2	16.6 17.3 19.5 23.1 27.0 28.5 32.7 39.2 48.7 58.5	2.7 2.8 3.5 3.5 3.9 3.6 4.4 5.7 7.6 10.2	2.3 2.4 2.8 3.2 3.9 4.8 5.2 5.5 6.3 8.1	11.6 12.2 13.2 16.3 19.2 20.2 23.1 28.0 34.8 40.2	20.3 19.5 21.4 26.0 30.7 31.3 34.1 39.4 47.7 56.2	16.2 18.4 21.8 26.6 26.3 25.2 30.0 39.3 47.3 53.6	15.6 16.3 19.0 22.6 24.3 27.4 29.6 36.3 43.2 47.9	41.4 55.8 69.7 75.3 66.0 62.7 82.5 110.3 131.6 141.0	40.2 54.5 68.1 73.6 64.1 60.8 80.4 107.9 128.9 137.8	17.5 25.8 32.8 35.2 29.7 29.6 43.9 62.2 72.8 72.3
1980 1981 1982 1983 1984 1985 1986 1987 1987	485.6 542.6 532.1 570.1 670.2 714.4 739.9 757.8 803.1 847.3	362.4 420.0 426.5 417.2 489.6 526.2 519.8 524.1 563.8 607.7	136.2 167.3 177.6 154.3 177.4 194.5 176.5 174.2 182.8 193.7	226.2 252.7 248.9 262.9 312.2 331.7 343.3 349.9 381.0 414.0	68.8 81.5 88.3 100.1 121.5 130.3 136.8 141.2 154.9 172.6	12.5 17.1 18.9 23.9 31.6 33.7 33.4 35.8 38.0 43.1	9.8 11.8 14.0 16.4 20.4 23.8 25.6 29.0 34.2 41.9	46.4 52.5 55.3 59.8 69.6 72.9 77.7 76.4 82.8 87.6	60.7 65.5 62.7 58.9 68.1 72.5 75.4 76.7 84.2 93.3	48.4 50.6 46.8 53.5 64.4 69.0 70.5 68.1 72.9 67.9	48.3 55.2 51.2 50.4 58.1 59.9 60.7 63.9 69.0 80.2	123.2 122.6 105.7 152.9 180.6 188.2 220.1 233.7 239.3 239.5	119.8 118.9 102.0 148.6 175.9 183.1 214.6 227.9 233.2 233.4	52.9 52.0 41.5 72.5 86.4 87.4 104.1 117.2 120.1 120.9
1990 1991 1992 1993 1994 1995 1996 1997 1998	846.4 803.3 848.5 932.5 1,033.3 1,112.9 1,209.5 1,317.8 1,438.4 1,558.8	622.4 598.2 612.1 666.6 731.4 810.0 875.4 968.7 1,052.6 1,133.9	202.9 183.6 172.6 177.2 186.8 207.3 224.6 250.3 275.2 282.2	419.5 414.6 439.6 489.4 544.6 602.8 650.8 718.3 777.3 851.7	177.2 182.9 199.9 217.6 235.2 263.0 290.1 330.3 363.4 411.0	38.6 37.7 44.0 47.9 52.4 66.1 72.8 81.4 87.2 96.0	47.6 53.7 57.9 64.3 68.3 74.6 85.5 107.5 124.0 152.6	90.9 91.5 98.1 105.4 114.6 122.3 131.9 141.4 152.2 162.4	92.1 89.3 93.0 102.2 113.6 129.0 136.5 140.4 146.4 147.0	70.0 71.5 74.7 89.4 107.7 116.1 123.2 135.5 144.0 167.6	80.2 70.8 72.0 80.2 88.1 94.7 101.0 112.1 123.5 126.0	224.0 205.1 236.3 266.0 301.9 302.8 334.1 349.1 385.8 424.9	218.0 199.4 230.4 259.9 295.6 296.5 327.8 342.8 379.3 417.8	112.9 99.4 122.0 140.1 162.3 153.5 170.8 175.2 199.4 223.8
2000	1,679.0 1,646.1 1,570.2 1,649.8 1,830.0 2,042.8 2,171.1 2,134.0	1,232.1 1,176.8 1,066.3 1,077.4 1,154.5 1,273.1 1,414.1 1,503.8	313.2 322.6 279.2 277.2 298.2 337.6 410.4 480.3	918.9 854.2 787.1 800.2 856.3 935.5 1,003.7 1,023.5	467.6 437.0 399.4 406.7 429.6 451.4 482.3 517.7	101.4 85.4 77.2 77.8 80.3 81.7 88.8 93.7	176.2 174.7 167.6 171.4 183.0 195.1 205.7 227.3	190.0 177.0 154.5 157.5 166.4 174.6 187.8 196.8	159.2 146.7 135.7 140.7 139.7 157.1 171.2 180.6	160.8 141.7 126.3 118.3 142.9 164.4 177.0 157.2	131.2 128.8 125.7 134.5 144.0 162.6 173.1 168.0	446.9 469.3 503.9 572.4 675.5 769.6 757.0 630.2	439.5 461.9 496.3 564.5 667.0 760.6 747.4 620.7	236.8 249.1 265.9 310.6 377.6 433.5 416.0 305.2
2005: 	1,963.3 2,020.3 2,073.2 2,114.3	1,233.6 1,261.0 1,286.1 1,311.8	326.9 333.8 337.3 352.4	906.7 927.2 948.8 959.3	442.2 448.0 454.6 460.6	80.6 81.1 80.7 84.3	189.9 195.0 196.1 199.2	171.7 171.9 177.8 177.1	151.8 152.2 158.6 165.8	157.4 164.2 170.6 165.5	155.4 162.7 164.9 167.4	729.7 759.3 787.1 802.5	720.9 750.3 778.1 793.2	410.5 424.2 441.3 458.0
2006: I II IV	2,183.6 2,187.9 2,169.2 2,143.6	1,375.5 1,408.3 1,433.0 1,439.6	377.4 406.0 424.4 433.9	998.1 1,002.3 1,008.6 1,005.6	476.6 478.7 487.5 486.5	86.9 89.1 90.3 88.8	201.3 203.6 206.8 211.3	188.4 186.0 190.4 186.5	164.7 174.2 172.6 173.4	183.3 174.8 176.3 173.4	173.5 174.6 172.2 172.3	808.1 779.6 736.2 704.0	798.5 770.0 726.7 694.6	465.5 435.2 398.8 364.6
2007: 	2,133.4 2,148.1 2,141.0 2,113.4	1,456.4 1,493.7 1,522.9 1,542.1	449.6 469.8 492.9 508.7	1,006.8 1,023.9 1,030.0 1,033.4	503.1 514.1 521.1 532.5	92.5 92.8 93.7 95.7	218.2 225.8 229.5 235.6	192.5 195.5 197.9 201.2	172.1 185.1 185.2 179.9	168.1 157.8 154.6 148.4	163.4 166.9 169.2 172.6	677.0 654.4 618.1 571.3	667.4 644.8 608.6 561.8	338.1 323.7 299.2 259.8
2008: I II	2,081.7 2,077.0 2,062.1	1,553.6 1,571.9 1,582.7	522.7 549.8 568.9	1,030.9 1,022.1 1,013.9	539.6 550.9 549.5	95.8 96.8 90.3	241.8 244.6 246.2	202.0 209.5 213.0	182.0 183.2 182.3	142.1 121.4 105.2	167.3 166.5 176.8	528.1 505.0 479.4	518.7 495.6 470.2	219.7 197.1 176.8

¹ Includes other items not shown separately.

Table B-19.—Real private fixed investment by type, 1990-2008

[Billions of chained (2000) dollars; quarterly data at seasonally adjusted annual rates]

						Nonres	idential						Residentia	1
						Eq	uipment a	nd softwa	ire				Struc	tures
v	Private fixed	Total			Informa	ation proce and so	essing equ ftware	ipment				Total		
Year or quarter	invest- ment	non- resi- den- tial	Struc- tures	Total	Total	Com- puters and periph- eral equip- ment ¹	Soft- ware	Other	Indus- trial equip- ment	Trans- por- tation equip- ment	Other equip- ment	resi- den- tial ²	Total ²	Single family
1990 1991 1992 1993 1994 1995 1996 1997 1998	886.6 829.1 878.3 953.5 1,042.3 1,109.6 1,209.2 1,320.6 1,455.0 1,576.3	595.1 563.2 581.3 631.9 689.9 762.5 833.6 934.2 1,037.8 1,133.3	275.2 244.6 229.9 228.3 232.3 247.1 261.1 280.1 294.5 293.2	355.0 345.9 371.1 417.4 467.2 523.1 578.7 658.3 745.6 840.2	100.7 105.9 122.2 138.2 155.7 182.7 218.9 269.9 328.9 398.5		39.9 45.1 53.0 59.3 65.1 71.6 84.1 108.8 129.4 157.2	80.1 79.6 84.4 90.9 99.4 107.0 117.2 127.3 143.2 158.0	109.2 102.2 104.0 112.9 122.9 134.9 139.9 143.0 148.1 147.9	81.0 78.8 80.2 95.1 111.4 120.6 125.4 135.9 145.4 167.7	96.0 82.0 81.6 89.3 96.5 101.7 105.6 115.8 125.7	298.9 270.2 307.6 332.7 364.8 353.1 381.3 388.6 418.3 443.6	292.6 264.0 301.4 326.4 358.6 346.8 375.1 382.4 411.9 436.6	154.2 135.1 164.1 179.7 198.9 180.6 197.3 196.6 218.1 234.2
2000	1,679.0 1,629.4 1,544.6 1,596.9 1,712.8 1,829.8 1,865.5 1,808.5	1,232.1 1,180.5 1,071.5 1,081.8 1,144.3 1,226.2 1,318.2 1,382.9	313.2 306.1 253.8 243.5 246.7 249.8 270.3 304.6	918.9 874.2 820.2 843.1 905.1 989.6 1,061.0 1,078.9	467.6 459.0 437.4 462.7 505.7 546.7 596.6 653.9		176.2 173.8 169.7 177.3 193.6 207.0 215.5 237.0	190.0 181.7 161.1 167.1 181.1 191.6 206.7 218.0	159.2 145.7 134.5 138.4 134.0 145.3 153.5 155.7	160.8 142.8 126.0 113.8 130.6 149.5 159.5 139.4	131.2 126.9 122.9 130.4 138.3 150.4 156.5 148.4	446.9 448.5 469.9 509.4 560.2 595.4 552.9 453.8	439.5 441.1 462.2 501.2 551.2 586.0 543.5 444.9	236.8 237.1 246.3 272.6 305.3 325.9 294.9 214.1
2005: 	1,790.5 1,823.5 1,847.2 1,858.0	1,200.4 1,219.0 1,237.1 1,248.2	253.1 252.3 246.2 247.4	956.6 977.9 1,006.5 1,017.4	529.5 540.3 552.7 564.3		201.5 206.8 208.2 211.4	187.9 188.4 195.3 194.9	142.0 140.9 146.3 152.0	142.1 148.5 157.2 150.3	145.6 150.5 151.7 153.7	582.1 595.8 601.7 602.0	572.9 586.4 592.3 592.4	318.8 323.5 327.6 333.7
2006: II IV	1,895.2 1,883.1 1,860.0 1,823.7	1,295.2 1,315.4 1,332.7 1,329.3	256.5 268.3 277.4 279.1	1,056.6 1,061.2 1,066.4 1,059.9	586.2 590.9 603.9 605.3		212.5 213.2 215.8 220.5	207.6 205.1 209.4 204.8	149.9 157.2 153.8 153.2	165.3 157.9 159.7 155.2	158.2 158.7 155.2 153.8	596.5 570.1 536.7 508.4	586.8 560.6 527.4 499.3	333.1 308.7 282.7 255.2
2007: 	1,807.8 1,821.3 1,817.0 1,788.2	1,340.4 1,373.8 1,402.9 1,414.7	286.6 298.9 313.2 319.7	1,060.0 1,077.9 1,087.5 1,090.1	629.9 647.3 660.9 677.6		227.9 235.7 239.4 245.1	212.5 216.2 219.6 223.5	150.3 160.3 159.1 153.1	149.0 139.4 137.4 131.9	145.3 147.5 149.2 151.5	486.4 471.7 445.3 411.6	477.3 462.8 436.5 403.0	235.6 227.3 210.3 182.9
2008: ^p	1,762.4 1,754.9 1,730.0	1,423.1 1,431.8 1,426.5	326.4 340.5 346.0	1,088.6 1,074.7 1,059.2	689.6 702.9 701.8		251.0 252.3 253.3	223.6 230.6 233.7	153.4 152.0 148.6	127.0 108.6 93.4	146.5 145.3 151.7	383.0 369.6 352.1	374.6 361.1 344.0	156.7 142.9 129.5

¹ For information on this component, see *Survey of Current Business* Table 5.3.6, Table 5.3.1 (for growth rates), Table 5.3.2 (for contributions), and Table 5.3.3 (for quantity indexes).

² Includes other items not shown separately.

Table B-20.—Government consumption expenditures and gross investment by type, 1959-2008 [Billions of dollars; quarterly data at seasonally adjusted annual rates]

					Governme	nt consum	ption exp	enditures	and gross	investmen	t			
						Federal						State a	nd local	
				National	defense			Nonde	efense				Gross in	vestment
Year or quarter	Total			Con-	Gross inv	estment		Con-	Gross in	vestment		Con- sump-		Equip-
	Total	Total	Total	sump- tion expen- ditures	Struc- tures	Equip- ment and soft- ware	Total	sump- tion expen- ditures	Struc- tures	Equip- ment and soft- ware	Total	tion expen- ditures	Struc- tures	ment and soft- ware
1959	110.0 111.6	65.4 64.1	53.8 53.4	40.1 41.0	2.5	11.2 10.1	11.5 10.7	9.8 8.7	1.5 1.7	0.2	44.7 47.5	30.7 33.5	12.8 12.7	1.1
1960 1961 1962 1963 1964 1965 1966 1967 1968 1968	119.5 130.1 136.4 143.2 151.5 171.8 192.7 209.4 221.5 233.8	67.9 75.3 76.9 78.5 80.4 92.5 104.8 111.4 113.4	56.5 61.1 61.0 60.3 60.6 71.7 83.5 89.3 89.5	42.7 46.6 48.3 48.8 50.6 60.0 70.0 77.2 78.2 76.6	2.2 2.4 2.0 1.6 1.3 1.1 1.2 1.2 1.5	11.5 12.5 11.0 10.2 8.9 10.5 12.3 10.9 9.9	11.4 14.2 15.9 18.2 19.8 20.8 21.3 22.1 23.8 25.8	9.0 11.3 12.4 14.0 15.1 15.9 17.1 18.3 20.2 22.1	1.9 2.1 2.3 2.5 2.8 2.8 2.2 2.1 1.9	.3 .6 .8 1.2 1.6 1.9 2.1 1.9 1.7 1.7	51.6 54.9 59.5 64.8 71.0 79.2 87.9 98.0 108.2 120.3	36.6 39.0 41.9 45.8 50.2 56.1 62.6 70.4 79.9 91.5	13.8 14.5 16.0 17.2 19.0 21.0 23.0 25.2 25.6 25.8	1.3 1.5 1.8 1.9 2.1 2.3 2.4 2.7 3.0
1971 1972 1973 1974 1975 1976 1976 1977 1978	246.5 263.5 281.7 317.9 357.7 383.0 414.1 453.6 500.8	113.7 119.7 122.5 134.6 149.1 159.7 175.4 190.9 210.6	84.6 87.0 88.2 95.6 103.9 111.1 120.9 130.5 145.2	77.1 79.5 79.4 84.5 90.9 95.8 104.2 112.7 123.8	1.8 1.8 2.1 2.2 2.3 2.1 2.4 2.5 2.5	5.7 5.7 6.6 8.9 10.7 13.2 14.4 15.3 18.9	29.1 32.7 34.3 39.0 45.1 48.6 54.5 60.4 65.4	24.9 28.2 29.4 33.4 38.7 41.4 46.5 50.6 55.1	2.5 2.7 3.1 3.4 4.1 4.6 5.0 6.1 6.3	1.7 1.8 1.8 2.2 2.4 2.7 3.0 3.7 4.0	132.8 143.8 159.2 183.4 208.7 223.3 238.7 262.6 290.2	102.7 113.2 126.0 143.7 165.1 179.5 195.9 213.2 233.3	27.0 27.1 29.1 34.7 38.1 36.9 42.8 49.0	3.1 3.5 4.1 4.9 5.5 5.7 5.9 6.6 7.8
1980 1981 1982 1983 1984 1985 1986 1987 1988	566.2 627.5 680.5 733.5 797.0 879.0 949.3 999.5 1,039.0	243.8 280.2 310.8 342.9 374.4 412.8 438.6 460.1 462.3 482.2	168.0 196.3 225.9 250.7 281.6 311.2 330.9 350.0 354.9 362.2	143.7 167.3 191.2 208.8 232.9 253.7 268.0 283.6 293.6 299.5	3.2 4.0 4.8 4.9 6.2 6.8 7.7 7.4 6.4	21.1 25.7 30.8 37.1 43.8 51.3 56.1 58.8 53.9 56.3	75.8 84.0 84.9 92.3 92.8 101.6 107.8 110.0 107.4 120.0	63.8 71.0 72.1 77.7 77.1 84.7 90.3 90.6 88.9 99.7	7.1 7.7 6.8 6.7 7.0 7.3 8.0 9.0 6.8 6.9	4.9 5.3 6.0 7.8 8.7 9.6 9.5 10.4 11.7	322.4 347.3 369.7 390.5 422.6 466.2 510.7 539.4 576.7 616.9	258.4 282.3 304.9 324.1 347.7 381.8 417.9 440.9 470.4 502.1	55.1 55.4 54.2 54.2 60.5 67.6 74.2 78.8 84.8 88.7	8.9 9.5 10.6 12.2 14.4 16.8 18.6 21.5 26.0
1990	1,180.2 1,234.4 1,271.0 1,291.2 1,325.5 1,369.2 1,416.0 1,468.7 1,518.3 1,620.8	508.3 527.7 533.9 525.2 519.1 519.2 527.4 530.9 530.4 555.8	374.0 383.2 376.9 362.9 353.7 348.7 354.6 349.6 345.7 360.6	308.1 319.8 315.3 307.6 300.7 297.3 302.5 304.7 300.7 312.9	6.1 4.6 5.2 5.1 5.7 6.3 6.7 5.7 5.1	59.8 58.8 56.3 50.1 47.2 45.1 45.4 39.2 39.9 42.8	134.3 144.5 157.0 162.4 165.5 170.5 172.8 181.3 184.7 195.2	111.7 119.7 129.8 134.2 140.1 143.2 143.8 153.0 153.9 162.2	8.0 9.2 10.3 11.2 10.5 10.8 11.2 9.8 10.6	14.6 15.7 16.9 16.9 14.9 16.5 17.9 18.5 20.2 22.4	671.9 706.7 737.0 766.0 806.3 850.0 888.6 937.8 987.9 1,065.0	544.6 574.6 602.7 630.3 663.3 696.1 724.8 758.9 801.4 858.9	98.5 103.2 104.2 104.5 108.7 117.3 126.8 139.5 143.6 159.7	28.7 28.9 30.1 31.2 34.3 36.7 36.9 39.4 43.0 46.4
2000 2001 2002 2003 2004 2005 2006 2007	1,721.6 1,825.6 1,961.1 2,092.5 2,216.8 2,355.3 2,508.1 2,674.8	578.8 612.9 679.7 756.4 825.6 875.5 932.2 979.3	370.3 392.6 437.1 497.2 550.7 588.1 624.1 662.2	321.5 342.4 381.7 436.8 482.9 515.2 544.6 580.1	5.0 4.6 4.4 5.3 5.6 6.0 6.3 7.5	43.8 45.6 51.0 55.2 62.2 66.9 73.2 74.6	208.5 220.3 242.5 259.2 274.9 287.4 308.0 317.1	177.8 189.5 209.9 226.0 240.8 251.1 267.2 276.0	8.3 8.3 9.9 10.1 9.4 8.3 9.9	22.3 22.5 22.8 23.1 24.6 28.0 30.9 30.3	1,142.8 1,212.8 1,281.5 1,336.0 1,391.2 1,479.8 1,575.9 1,695.5	917.8 969.8 1,025.3 1,073.8 1,120.3 1,191.2 1,269.6 1,355.9	176.0 192.4 205.9 212.0 220.3 235.9 250.2 281.0	49.0 50.6 50.2 50.3 50.6 52.7 56.1 58.6
2005: 	2,299.2 2,328.0 2,388.0 2,405.9	861.0 867.1 894.2 879.5	576.1 584.4 606.3 585.4	507.5 512.1 530.8 510.3	5.7 5.5 6.4 6.3	63.0 66.8 69.1 68.8	284.9 282.8 288.0 294.1	250.7 248.2 251.3 254.3	7.8 7.3 8.3 9.6	26.4 27.2 28.3 30.2	1,438.2 1,460.9 1,493.8 1,526.4	1,159.1 1,174.1 1,203.1 1,228.4	227.7 234.3 237.5 243.9	51.3 52.4 53.2 54.0
2006: I II IV	2,458.4 2,495.7 2,526.9 2,551.4	922.8 928.5 935.5 941.7	613.6 623.1 624.0 635.9	538.3 543.6 545.3 551.2	5.4 5.3 6.7 7.9	69.8 74.3 72.0 76.8	309.3 305.4 311.5 305.9	267.6 265.6 270.8 264.9	9.6 9.5 9.6 10.9	32.1 30.3 31.1 30.1	1,535.5 1,567.2 1,591.4 1,609.7	1,240.8 1,260.2 1,281.8 1,295.8	239.7 251.1 253.2 256.9	55.1 55.9 56.4 57.0
2007: 	2,597.0 2,655.9 2,703.5 2,742.9	950.3 974.6 994.0 998.3	636.9 656.8 675.6 679.3	559.0 574.8 591.9 594.7	6.5 6.6 7.7 9.2	71.5 75.4 76.0 75.4	313.4 317.8 318.3 319.0	273.6 276.4 277.2 276.9	10.3 10.6 11.0 11.5	29.5 30.8 30.2 30.6	1,646.8 1,681.3 1,709.5 1,744.6	1,318.7 1,344.4 1,365.3 1,395.2	270.2 278.4 285.4 290.0	57.8 58.4 58.8 59.4
2008: p	2,798.1 2,873.7 2,943.9	1,026.5 1,056.1 1,097.7	699.9 723.3 759.5	613.8 629.0 659.6	7.9 8.9 10.6	78.2 85.4 89.3	326.6 332.9 338.2	284.2 289.2 294.5	12.1 12.0 12.3	30.3 31.7 31.4	1,771.6 1,817.6 1,846.2	1,426.3 1,462.7 1,486.1	285.2 294.1 299.1	60.1 60.7 61.1

Table B-21.—Real government consumption expenditures and gross investment by type, 1990–2008 [Billions of chained (2000) dollars; quarterly data at seasonally adjusted annual rates]

					Governme	nt consum	ption expe	enditures a	and gross	investmen	it			
						Federal						State a	nd local	
				National	defense			Nonde	efense				Gross in	vestment
Year or quarter	Total			Con-	Gross inv	estment/		Con-	Gross in	vestment		Con- sump-		Fauin
	Total	Total	Total	sump- tion expen- ditures	Struc- tures	Equip- ment and soft- ware	Total	sump- tion expen- ditures	Struc- tures	Equip- ment and soft- ware	Total	tion expen- ditures	Struc- tures	Equip- ment and soft- ware
1990 1991 1992 1993 1994 1995 1996 1997 1998	1,530.0 1,547.2 1,555.3 1,541.1 1,541.3 1,549.7 1,564.9 1,594.0 1,624.4 1,686.9	659.1 658.0 646.6 619.6 596.4 580.3 573.5 567.6 561.2 573.7	479.4 474.2 450.7 425.3 404.6 389.2 383.8 373.0 365.3 372.2	404.9 404.4 383.5 367.2 350.6 338.1 332.2 328.1 319.8 324.6	8.6 6.4 7.0 6.4 7.1 7.4 7.7 6.4 5.5	64.2 61.8 58.7 51.1 46.8 43.7 43.8 38.9 40.1 42.5	178.6 182.8 195.4 194.1 191.7 191.0 189.6 194.5 195.9 201.5	156.5 158.4 168.2 166.0 167.3 164.7 161.1 166.6 164.8 168.1	10.6 11.8 13.2 14.1 12.7 12.6 12.7 10.9 11.5	12.9 13.7 15.0 15.0 13.3 14.7 16.4 17.5 19.8 22.3	868.4 886.8 906.5 919.5 943.3 968.3 990.5 1,025.9 1,063.0 1,113.2	714.2 729.0 746.5 761.4 780.6 798.4 812.8 834.9 866.4 900.3	132.1 136.5 137.0 133.9 134.9 139.5 146.3 155.8 155.6 167.0	25.0 24.8 25.9 26.8 29.5 31.7 32.7 36.1 41.2 45.9
2000 2001 2002 2003 2004 2005 2006 2007	1,721.6 1,780.3 1,858.8 1,904.8 1,931.8 1,939.0 1,971.2 2,012.1	578.8 601.4 643.4 687.1 715.9 724.5 741.0 752.9	370.3 384.9 413.2 449.0 475.0 482.2 490.0 502.1	321.5 334.1 356.7 387.5 407.6 411.6 415.0 425.8	5.0 4.4 4.2 4.8 4.7 4.6 5.2	43.8 46.4 52.6 56.9 63.3 67.2 72.5 72.9	208.5 216.5 230.2 238.0 240.7 242.0 250.8 250.4	177.8 185.8 197.3 204.5 206.7 206.7 212.2 211.7	8.3 8.0 9.3 9.3 8.2 6.6 7.4 7.7	22.3 22.7 23.5 24.2 25.9 29.5 32.6 32.3	1,142.8 1,179.0 1,215.4 1,217.8 1,215.8 1,214.3 1,230.2 1,259.0	917.8 941.2 969.4 969.8 970.8 971.9 988.2 1,008.0	176.0 186.0 193.5 194.7 191.2 186.9 183.5 190.1	49.0 51.7 52.5 53.4 54.0 56.2 60.3 63.1
2005: 	1,929.6 1,934.0 1,950.4 1,941.9	718.0 720.1 736.8 723.2	476.3 481.0 495.1 476.5	409.2 410.7 421.9 404.4	4.6 4.4 5.0 4.9	63.1 67.1 69.6 69.1	241.5 238.8 241.4 246.5	207.8 205.0 205.8 208.4	6.4 5.9 6.6 7.5	27.7 28.7 29.9 31.9	1,211.4 1,213.8 1,213.6 1,218.5	970.2 970.7 972.2 974.6	186.9 187.9 185.5 187.0	54.6 55.8 56.6 57.9
2006: I II III IV	1,960.5 1,966.6 1,974.9 1,982.7	740.6 737.7 741.1 744.4	486.7 489.0 487.9 496.3	414.5 414.0 414.1 417.6	4.1 3.9 4.9 5.7	69.7 73.6 70.8 75.7	253.8 248.5 253.1 247.8	214.2 210.7 214.5 209.2	7.4 7.2 7.2 8.0	33.8 31.9 32.8 31.9	1,219.9 1,228.8 1,233.7 1,238.2	980.4 984.6 990.8 996.8	182.0 185.7 184.0 182.3	59.1 60.0 60.8 61.3
2007: I II IV	1,987.1 2,006.4 2,025.3 2,029.4	737.5 749.6 762.7 761.7	488.8 498.8 511.0 509.9	415.6 422.4 433.5 431.9	4.6 4.7 5.4 6.4	70.3 74.0 74.1 73.3	248.6 250.5 251.2 251.5	210.9 211.5 212.4 212.0	7.4 7.6 7.8 8.0	31.3 32.8 32.2 32.7	1,249.3 1,256.6 1,262.6 1,267.5	1,001.9 1,006.1 1,010.0 1,013.9	187.3 189.7 191.4 191.8	62.1 62.8 63.3 64.0
2008: p	2,039.1 2,058.9 2,085.9	772.6 785.0 810.4	518.9 528.1 550.5	439.7 443.4 461.5	5.5 6.2 7.3	75.8 81.9 85.1	253.2 256.3 259.1	213.5 215.6 218.4	8.4 8.2 8.3	32.5 34.0 33.7	1,266.7 1,274.4 1,276.9	1,017.6 1,020.6 1,023.3	187.3 191.4 191.2	64.8 65.2 65.1

Note.—See Table B-2 for data for total government consumption expenditures and gross investment for 1959-89.

Table B-22.—Private inventories and domestic final sales by industry, 1959–2008

[Billions of dollars, except as noted; seasonally adjusted]

				Private in	ventories ¹				Final	Ratio o	f private tories
Quarter	Total ²	Farm	Mining, utilities, and	Manufac- turing	Wholesale trade	Retail trade	Other indus-	Non- farm ²	sales of domestic busi-	to final	sales of business
			construc- tion ²	turniy	lidue	udue	tries ²	Idilli-	ness 3	Total	Non- farm
Fourth quarter: 1959	132.9	42.1		47.7	16.5	20.5	6.1	90.8	31.6	4.20	2.87
1960 1961	136.2 139.6	42.7 44.3		48.7 50.1	16.9 17.3	21.9 21.3	6.1 6.6	93.5 95.2	32.7 34.3	4.17 4.07	2.86 2.78
1962 1963	147.2 149.7	46.7 44.2		53.2 55.1	18.0 19.5	22.7 23.9	6.6 7.1	100.5 105.5	36.0 38.3	4.09 3.91	2.79 2.75
1964	154.3	42.1 47.1		58.6	20.8	25.2	7.7	112.2	41.2	3.75	2.73
1965 1966	169.3 185.7	47.4		63.4 73.0	22.5 25.8	28.0 30.6	8.3 8.9	122.2 138.3	45.3 47.8	3.73 3.88	2.70 2.89
1967 1968	194.9 208.2	45.8 48.9		79.9 85.1	28.1 29.3	30.9 34.2	10.1 10.6	149.1 159.3	50.3 55.4	3.87 3.76	2.96 2.87
1969	227.7	53.1		92.6	32.5	37.5	12.0	174.6	59.1	3.85	2.95
1970 1971	236.0 253.9	52.7 59.5		95.5 96.6	36.4 39.4	38.5 44.7	12.9 13.7	183.3 194.4	62.4 68.0	3.78 3.73	2.94 2.86
1972	283.9	74.0		102.1	43.1	49.8	14.8	209.9	76.3	3.72	2.75
1973 1974	352.2 406.3	102.8 88.2		121.5 162.6	51.7 66.9	58.4 63.9	17.7 24.7	249.4 318.1	84.3 90.4	4.18 4.49	2.96 3.52
1975 1976	409.3 440.1	90.3 85.8		162.2 178.7	66.5 74.1	64.4 73.0	25.9 28.5	319.0 354.2	101.7 111.9	4.02 3.93	3.14 3.17
1977	482.4	91.0		193.2	84.0	80.9	33.3	391.4	124.8	3.86	3.14
1978 1979	571.4 668.2	119.7 135.6		219.8 261.8	99.0 119.5	94.1 104.7	38.8 46.6	451.7 532.6	144.7 160.1	3.95 4.17	3.12 3.33
1980	739.8 779.2	141.1 127.5		293.4 313.1	139.4 148.8	111.7	54.1 66.6	598.7 651.7	175.0 187.7	4.23 4.15	3.42 3.47
1981 1982	774.1	131.5		304.6	147.9	123.2 123.2	66.8	642.6	195.8	3.95	3.28
1983 1984	797.6 869.3	132.5 131.8		308.9 344.5	153.4 169.1	137.6 157.0	65.2 66.9	665.1 737.6	216.8 234.8	3.68 3.70	3.07 3.14
1985 1986	876.1 858.0	125.9 112.9		333.3 320.6	175.9 182.0	171.4 176.2	69.5 66.3	750.2 745.1	250.7 265.7	3.49 3.23	2.99 2.80
1987	924.2	119.8		339.6	195.8	199.1	69.9	804.4	279.3	3.31	2.88
1988 1989	999.2 1,044.4	130.2 129.6		372.4 390.5	213.9 222.8	213.2 231.4	69.5 70.1	869.1 914.7	305.6 324.4	3.27 3.22	2.84 2.82
1990	1,082.3	133.4		404.5	236.8	236.6	71.0	948.9	337.6	3.21	2.81
1991 1992	1,057.2 1,082.4	123.2 132.9		384.1 377.6	239.2 248.3	240.2 249.4	70.5 74.3	934.0 949.5	347.6 372.7	3.04 2.90	2.69 2.55
1993 1994	1,115.8 1,194.3	132.1 134.3		380.1 404.3	258.6 281.5	268.6 293.6	76.5 80.6	983.7 1,060.0	393.6 416.8	2.83 2.87	2.50 2.54
1995	1,257.0	130.9		424.5	303.7	312.2	85.6	1,126.1	439.2	2.86	2.56
NAICS: 1996	1,284.4	136.3	31.1 33.7	421.0	285.1	328.7	82.1	1,148.1	469.1	2.74 2.68	2.45 2.41
1997 1998	1,329.5 1,346.8	136.7 120.3	33.7 37.3	431.7 431.5	303.1 313.3	337.5 353.6	86.9 90.9	1,192.9 1,226.5	495.6 526.8	2.68 2.56	2.41 2.33
1999	1,442.2	124.2	39.6	457.7	337.4	383.8	99.5	1,226.5 1,318.0	556.7	2.59	2.33 2.37
2000 2001	1,535.9 1,458.3	132.1 126.1	44.5 47.5	477.0 437.9	359.0 338.6	409.0 395.6	114.4 112.6	1,403.8 1,332.2	583.6 598.7	2.63 2.44	2.41 2.23
2002 2003	1,507.8 1,567.3	135.8 151.2	49.4 58.5	443.6 447.0	348.0 359.8	419.3 436.4	111.7 114.3	1,372.0 1,416.1	601.0 639.0	2.51 2.45	2.28
2004	1,715.0	156.7	69.4	495.1	397.2	472.8	123.7	1,558.2	678.6	2.53	2.30
2005: I	1,761.2 1,765.5	159.1 156.0	71.2 75.9	516.2 515.5	410.4 414.4	478.9 476.8	125.5 126.9	1,602.1 1,609.5	688.9 702.6	2.56 2.51	2.33 2.29
	1,807.4	160.9	81.8	531.8	423.2	481.0	128.7	1,646.6	716.9	2.52	2.30
IV 2006: I	1,851.5 1.864.3	164.9 157.8	91.7 83.7	545.8 558.7	432.0 438.8	487.0 493.9	130.2 131.4	1,686.6 1,706.5	723.2 738.9	2.56 2.52	2.33 2.31
II	1.913.5	157.6	83.0	581.4	455.2	501.5	134.9	1.755.9	747.7	2.56	2.35
III IV	1,943.6 1,951.6	165.2 164.6	84.7 86.1	588.5 588.4	462.9 469.3	505.2 506.0	137.1 137.3	1,778.4 1,787.0	753.1 763.6	2.58 2.56	2.36 2.34
2007: I	1,982.9	175.0	90.2	593.7	477.4	506.8	139.8	1,807.9	772.4	2.57	2.34
 	2,009.3 2,030.7	175.5 182.1	93.5 90.3	603.4 606.0	483.9 492.0	510.4 516.2	142.6 144.1	1,833.8 1,848.5	784.8 795.4	2.56 2.55	2.34 2.32
IV	2,088.0	191.2	91.5	628.7	511.9	517.0	147.8	1,896.8	800.9	2.61	2.37
2008: I	2,178.2 2,264.4	220.2 235.1	95.2 103.5	661.9 697.2	531.2 552.3	518.4 522.4	151.4 153.9	1,958.0 2,029.3	804.1 813.7	2.71 2.78	2.44 2.49
P	2,230.6	220.5	98.9	679.8	547.4	527.4	156.6	2,010.1	814.9	2.74	2.47

Inventories at end of quarter. Quarter-to-quarter change calculated from this table is not the current-dollar change in private inventories component of gross domestic product (GDP). The former is the difference between two inventory stocks, each valued at its respective end-of-quarter prices. The latter is the change in the physical volume of inventories valued at average prices of the quarter. In addition, changes calculated from this table are at quarterly rates, whereas change in private inventories is stated at annual rates.

2 Inventories of construction, mining, and utilities establishments are included in other industries through 1995.

3 Quarterly totals at monthly rates. Final sales of domestic business equals final sales of domestic product less gross output of general government, gross value added of nonprofit institutions, compensation paid to domestic workers, and space rent for owner-occupied housing. Includes a small amount of final sales by farm and by roverpment anterprises.

by farm and by government enterprises.

Note.—The industry classification of inventories is on an establishment basis. Estimates through 1995 are based on the Standard Industrial Classification (SIC). Beginning with 1996, estimates are based on the North American Industry Classification System (NAICS).

Source: Department of Commerce (Bureau of Economic Analysis).

Table B-23.—Real private inventories and domestic final sales by industry, 1959-2008

[Billions of chained (2000) dollars, except as noted; seasonally adjusted]

				Private in	ventories ¹				Final	inven	f private tories
Quarter	Total ²	Farm	Mining, utilities, and	Manufac- turing	Wholesale trade	Retail trade	Other indus-	Non- farm ²	sales of domestic busi-	to final	sales of business
			construc- tion ²	turing	trado	tiddo	tries ²	iuiiii	ness 3	Total	Non- farm
Fourth quarter: 1959	428.1	106.9		143.5	57.6	63.9	29.8	298.7	131.3	3.26	2.27
1960	438.5	108.3		145.4	59.1	68.2	30.8	307.5	134.3	3.27	2.29
1961	448.0	110.4		149.8	60.7	66.9	33.9	314.4	140.1	3.20	2.24
1962	467.4	111.8		159.8	63.4	71.5	33.8	332.7	145.4	3.21	2.29
1963 1964	485.4 500.8	112.9 109.8		165.9 175.1	68.4 72.5	75.3 79.3	36.2 38.4	349.7 369.4	153.9 163.2	3.15 3.07	2.27 2.26
1965	530.1	111.8		187.4	77.4	87.1	40.1	396.8	177.2	2.99	2.24
1966	572.2	110.7		212.5	87.7	94.1	41.1	442.0	180.9	3.16	2.44
1967 1968	602.5 629.9	112.8 116.1		229.3 239.8	94.7 98.0	94.1 101.9	46.0 47.3	470.4 494.1	185.3 195.1	3.25 3.23	2.54 2.53
1969	656.9	116.1		250.9	105.1	101.9	47.3	521.9	198.9	3.30	2.53
1970	661.9	114.2		250.9	113.0	109.0	50.3	529.7	201.3	3.29	2.63
1971	684.2	117.5		247.9	119.1	123.6	52.1	548.3	211.5	3.24	2.59
1972	707.3	117.9		254.6	124.6	133.1	54.7	572.5	228.8	3.09	2.50
1973	742.2	119.3		273.5	128.1	143.7	57.5	609.1	236.9	3.13	2.57
1974 1975	768.1 756.8	115.7 120.4		294.1 286.7	139.7 133.7	141.6 134.6	61.3 62.9	644.2 625.0	228.2 238.7	3.37 3.17	2.82 2.62
1976	787.5	119.1		300.4	142.7	144.9	63.6	659.0	250.7	3.14	2.63
1977	826.0	125.0		308.8	154.1	153.2	68.4	691.1	263.6	3.13	2.62
1978 1979	867.1 892.2	126.7 130.2		322.9 335.3	166.9 175.0	163.3 163.3	72.5 72.4	732.0 753.5	283.2 289.8	3.06 3.08	2.58 2.60
1980		124.3							289.6		2.60
1981	884.3 919.2	132.5		335.7 340.2	180.0 185.1	158.7 167.5	71.2 79.2	753.5 779.0	289.6	3.05 3.20	2.60
1982 I	901.7	138.6		325.0	183.0	163.7	76.8	754.4	286.1	3.15	2.64
1983	895.3	124.4		324.5	182.7	177.0	75.9	764.6	307.6	2.91	2.49
1984	966.6 990.3	129.6		352.8 346.6	198.5 204.9	198.6 214.0	77.0 81.4	831.2 848.7	324.6 339.4	2.98 2.92	2.56 2.50
1985 1986	998.5	135.3 133.5		340.0	213.2	217.4	84.4	858.8	352.2	2.84	2.30
1987	1,028.8	126.1		351.1	220.6	238.5	86.6	896.5	362.6	2.84	2.47
1988	1,049.1	115.4		367.6	229.7	246.1	85.2	929.2	381.6	2.75	2.43
1989	1,077.4	115.4		381.4	233.6	260.5	81.4	958.0	392.5	2.75	2.44
1990 1991	1,092.8 1,092.3	120.9 119.4		390.0 383.5	242.0 246.4	258.9 259.5	78.3 81.4	971.2 972.2	394.0 394.6	2.77 2.77	2.46 2.46
1992	1,108.7	125.1		378.9	254.8	264.1	83.9	982.5	415.7	2.77	2.40
1993	1,129.4	119.1		382.4	261.0	279.4	86.9	1,010.2	429.8	2.63	2.35
1994	1,193.0	130.3		394.1	276.7	299.9	91.1	1,062.2	447.2	2.67	2.38
1995 NAICS:	1,222.8	119.6		407.8	289.9	312.0	93.3	1,103.5	464.2	2.63	2.38
1996	1,251.6	126.4	33.6	409.9	273.3	325.9	82.7	1,125.2	488.3	2.56	2.30
1997	1,322.7	129.3	36.1	430.7	298.3	340.6	88.1	1,193.7	509.2	2.60	2.34
1998 1999	1,395.3 1,464.2	130.7 127.8	43.3 42.7	449.3 466.3	320.9 340.6	357.9 385.5	94.0 101.3	1,264.9 1,336.4	538.0 563.4	2.59 2.60	2.35 2.37
	1,404.2	127.0	41.1	474.2	358.2	407.1		1,330.4	581.0	2.62	2.40
2000 2001	1,520.7	126.4	51.7	474.2 452.8	347.5	396.3	113.7 113.9	1,394.3	583.6	2.62	2.40
2002	1,501.4	124.0	48.1	447.0	348.8	420.6	112.5	1,377.6	582.5	2.58	2.37
2003	1,515.7	124.4	53.4	437.5	349.6	436.4	113.9	1,391.6	609.7	2.49	2.28
2004	1,570.0	130.3	53.9	440.1	367.6	458.6	119.5	1,439.8	630.9	2.49	2.28
2005:	1,588.6	129.3	54.6	449.4	374.4	460.9	119.9	1,459.6	635.1	2.50	2.30
 	1,592.8 1,595.5	129.2 130.3	56.4 56.4	450.4 451.7	378.2 378.8	457.6 457.2	120.4 120.1	1,464.0 1,465.5	645.4 652.5	2.47 2.45	2.27 2.25
IV	1,608.9	130.5	56.2	455.3	383.5	462.2	120.7	1,478.8	652.4	2.47	2.27
2006: I	1,620.4	130.7	55.7	458.9	386.5	466.9	121.5	1,490.2	661.8	2.45	2.25
	1,634.6	129.3	57.8	463.0	391.4	469.5	123.0	1,506.0	666.4	2.45	2.26
III	1,647.9	127.9	59.2	466.2	398.3	471.5	124.1	1,521.0	667.2	2.47	2.28
IV	1,651.2	127.3	60.8	467.1	398.4	472.1	124.5	1,525.1	673.5	2.45	2.26
2007: I	1,647.5 1,646.7	126.3 126.3	61.8 62.0	465.3 463.4	398.0 398.3	469.0 469.1	125.8 126.6	1,522.4 1.521.8	675.1 683.8	2.44 2.41	2.26 2.23
	1,650.7	125.6	61.4	462.8	401.9	471.5	127.0	1,526.6	691.6	2.39	2.23
IV	1,648.7	128.3	60.2	463.6	401.5	466.4	127.5	1,521.4	693.1	2.38	2.20
2008: I	1,646.2	129.8	57.8	467.0	400.3	461.8	127.6	1,516.9	693.4	2.37	2.19
 <i>P</i>	1,633.6 1,626.3	130.4	55.8 53.9	460.5 454.1	400.5 402.2	457.8 459.0	126.8 126.5	1,503.2 1,495.8	702.8 696.1	2.32 2.34	2.14 2.15
		130.3									

Inventories at end of quarter. Quarter-to-quarter changes calculated from this table are at quarterly rates, whereas the change in private inventories component of gross domestic product (GDP) is stated at annual rates.

Inventories of construction, mining, and utilities establishments are included in other industries through 1995.

Quarterly totals at monthly rates. Final sales of domestic business equals final sales of domestic product less gross output of general government, gross value added of nonprofit institutions, compensation paid to domestic workers, and space rent for owner-occupied housing. Includes a small amount of final sales by farm and by government enterprises.

Note.—The industry classification of inventories is on an establishment basis. Estimates through 1995 are based on the Standard Industrial Classification (SIC). Beginning with 1996, estimates are based on the North American Industry Classification System (NAICS).

See Survey of Current Business, Tables 5.7.6A and 5.7.6B, for detailed information on calculation of the chained (2000) dollar inventory series.

Table B-24.—Foreign transactions in the national income and product accounts, 1959–2008 [Billions of dollars; quarterly data at seasonally adjusted annual rates]

	Curre	ent receip	ts from re	st of the v	world				Current p	ayments	to rest of	the world	<u> </u>		
		Exp	orts of go nd service	ods es	ln.			orts of go nd service		ln.		Current t transfer prest of the	payments	iet)	Balance
Year or quarter	Total	Total	Goods 1	Serv- ices ¹	In- come re- ceipts	Total	Total	Goods 1	Serv- ices ¹	In- come pay- ments	Total	From per- sons (net)	From gov- ern- ment (net)	From busi- ness (net)	on current account, NIPA ²
1959 1960 1961 1961 1962 1963 1964 1965 1967 1968 1970 1971 1975 1976 1977 1978 1978 1979 1979 1970 1971 1975 1976 1977 1978 1979 1970 19	27.0 31.9 32.9 35.0 37.6 49.0 63.7 72.5 77.0 87.1 118.8 166.7 181.6 233.1 1298.5 166.7 181.6 359.9 397.3 384.2 378.9 424.5 431.9 441.5 431.9 441.5 431.9 1,242.0 1,147	22.7.7.27.0.6 29.1.31.1.31.1.3	16.5 20.5 20.5 20.9 21.7 23.3 22.2 26.7 27.8 45.6 20.5 20.9 21.7 27.8 27.7 27.8 27.2 27.5 27.5 27.5 27.5 27.5 27.5 27.5	6.3 6.6 6.7 7.4 4.7.7 7.4 1.13 1.2 6.1 1.3 1.2 6.1 1.3 1.2 6.1 1.3 1.2 6.1 1.3 1.3 7.2 5.1 1.4 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	4.3 4.9 5.5 5.9 6.5 5.7 7.9 6.7 5.7 7.9 6.7 5.7 6.8 7.9 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7	28.2 28.7 28.6 28.7 28.6 28.7 28.6 28.7 28.6 28.7 28.6 28.7 28.6 28.6 28.6 28.6 28.6 28.6 28.6 28.6	22.3 22.8 22.7 25.0 26.1 22.7 25.0 26.1 31.5 25.0 26.1 31.5 25.0 26.1 26.1 26.1 26.1 26.1 26.1 26.1 26.1	15.3 15.2 15.1 16.9 17.7 16.9 17.7 16.9 17.7 17.4 17.4 17.4 17.4 17.4 17.4 17.4	7.0 7.6 8.1 8.4 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6	1.5 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8	4.3 4.1 4.2 4.3 4.4 4.7 5.6 6.3 7.6 6.3 7.6 6.3 7.6 6.3 7.6 6.3 7.6 8.0 9.8 14.1 11.5 20.5 22.2 22.2 24.3 22.5 25.6 4.4 4.7 20.5 20.6 20.6 20.6 20.6 20.6 20.6 20.6 20.6	0.5	3.8 3.5 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	0.1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-1.2 3.2 4.3 3.9 5.0 7.5 6.2 3.6 1.7 1.8 4.0 6.6 21.4 8.9 -10.4 11.4 6.3 -22 -32.1 -86.9 -110.8 -112.2 -88.3 -70.1 13.5 -36.9 -70.4 -105.2 -91.0 -105.2 -91.0 -105.2 -91.0 -105.2 -91.0 -106.3 -107.3 -108.3 -107.3 -108.3 -108.3 -109.3
2007: 	2,348.8 2,467.3 2,613.4 2,667.1 2,664.0	1,560.5 1,614.4 1,714.9 1,759.7 1,820.8	1,085.0 1,116.8 1,181.2 1,213.7 1,256.9	475.5 497.6 533.8 546.0 563.9	788.2 852.8 898.5 907.4 843.2	3,126.4 3,231.0 3,295.4 3,318.1 3.357.0	2,289.4 2,337.5 2,397.5 2,456.5 2,526.5	1,917.4 1,957.1 2,005.4 2,060.9 2,118.0	372.0 380.5 392.1 395.6 408.5	715.8 793.2 786.3 742.0 705.1	121.2 100.3 111.7 119.6 125.4	55.7 56.0 56.3 57.3 57.9	36.4 16.3 22.1 28.6 32.4	29.1 27.9 33.2 33.8 35.1	-777.6 -763.8 -682.0 -651.0 -693.0
 	2,746.0 2,777.2	1,923.2 1,971.3	1,343.7 1,375.3	579.5 596.0	822.8 805.8	3,357.0 3,468.6 3,483.3	2,641.4 2,677.9	2,225.5 2,252.6	415.9 425.2	708.9 688.4	118.2 117.0	62.7 62.1	21.5 21.3	34.0 33.6	-722.6 -706.1

Certain goods, primarily military equipment purchased and sold by the Federal Government, are included in services. Beginning with 1986, repairs and alterations of equipment were reclassified from goods to services.

 National income and product accounts (NIPA).

TABLE B-25.—Real exports and imports of goods and services, 1990-2008

[Billions of chained (2000) dollars; quarterly data at seasonally adjusted annual rates]

		Exports	of goods and :	services			Imports	of goods and	services	
			Goods ¹					Goods ¹		
Year or quarter	Total	Total	Durable goods	Non- durable goods	Services ¹	Total	Total	Durable goods	Non- durable goods	Services ¹
1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2006 2007 2006	552.5 589.1 629.7 650.0 706.5 778.2 843.4 943.7 966.5 1,008.2 1,096.3 1,026.1 1,126.1 1,126.3 1,314.8 1,425.9	367.2 392.5 421.9 421.9 421.9 421.9 421.1 664.5 679.4 705.2 784.3 707.0 719.8 784.7 928.7 928.7	226.3 243.1 262.5 276.1 309.6 333.6 466.2 481.2 503.6 569.2 491.2 499.8 612.6 683.0 741.2	145.1 153.7 163.6 162.4 170.1 181.1 186.7 198.5 201.7 215.1 214.2 216.1 220.3 227.1 234.9 250.2 263.6	188.7 199.9 210.8 217.5 221.1 245.8 263.5 279.2 287.2 303.2 311.9 306.4 306.0 366.2 341.4 360.3 366.2 341.6 366.3	607.1 603.7 645.6 702.1 785.9 849.1 923.0 1,048.3 1,170.3 1,304.4 1,475.8 1,484.6 1,545.0 1,719.9 1,930.5 1,972.4	469.7 469.3 513.1 564.8 640.0 697.6 762.7 872.6 1,095.2 1,243.5 1,204.1 1,309.3 1,457.0 1,649.0 1,677.7	264.7 266.1 294.0 328.8 383.1 427.1 472.8 550.3 621.8 771.7 820.7 769.4 801.0 835.3 954.4 1,135.8 1,127.8 1,152.7	218.4 215.9 231.9 248.0 266.0 277.0 295.2 326.4 355.7 384.3 422.8 435.1 447.4 474.2 505.2	142.7 139.0 135.5 139.4 147.3 152.1 160.5 175.6 195.6 209.1 232.3 231.6 236.5 236.6 263.9 267.6 283.7 296.4
2005: I II III IV	1,203.1 1,204.3 1,235.7	846.0 844.2 870.8	606.1 615.4 645.7	241.6 231.9 230.0	357.1 359.9 365.0	1,804.4 1,807.9 1,873.6	1,536.7 1,539.5 1,543.8 1,605.5	1,006.4 1,025.7 1,039.4 1,071.8	532.6 519.6 512.9 540.0	266.9 266.2 270.6
2006: I II III IV	1,284.3 1,301.4 1,312.6 1,361.1	907.8 922.5 930.7 953.9	667.8 676.4 683.5 704.3	244.3 250.2 251.5 254.7	376.7 379.2 382.2 407.0	1,920.2 1,920.9 1,935.7 1,945.3	1,640.6 1,642.8 1,658.0 1,654.5	1,111.9 1,124.9 1,134.4 1,140.0	540.0 532.5 538.0 531.0	281.9 280.5 280.3 292.4
2007: 	1,363.2 1,392.2 1,466.2 1,482.1	958.9 974.9 1,024.1 1,037.0	708.9 720.9 759.6 775.5	255.2 259.3 270.6 269.2	404.2 417.0 441.8 444.7	1,981.8 1,963.4 1,978.0 1,966.5	1,688.3 1,671.2 1,681.1 1,670.2	1,147.6 1,144.6 1,165.8 1,153.0	553.2 541.4 534.8 534.6	295.4 293.9 298.4 297.8
2008: p	1,500.6 1,544.7 1,557.8	1,048.6 1,088.9 1,099.3	771.2 798.8 808.1	281.6 293.9 295.6	451.7 455.8 458.6	1,962.6 1,926.0 1,910.2	1,662.0 1,631.6 1,613.3	1,134.3 1,144.6 1,124.1	539.9 512.6 510.9	301.8 295.5 297.9

¹ Certain goods, primarily military equipment purchased and sold by the Federal Government, are included in services. Beginning with 1986, repairs and alterations of equipment were reclassified from goods to services.

Note.—See Table B-2 for data for total exports of goods and services and total imports of goods and services for 1959-89. Source: Department of Commerce (Bureau of Economic Analysis).

Table B-26.—Relation of gross domestic product, gross national product, net national product, and national income, 1959–2008

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

		Plus:	Less:		Lace Con	sumption of fix	od canital			
Year or quarter	Gross domestic product	Income receipts from rest of the world	Income payments to rest of the world	Equals: Gross national product	Total	Private	Govern- ment	Equals: Net national product	Less: Statistical discrep- ancy	Equals: National income
1959	506.6	4.3	1.5	509.3	53.0	38.6	14.5	456.3	0.5	455.8
1960	526.4	4.9	1.8	529.5	55.6	40.5	15.0	473.9	9	474.9
1961 1962	544.7 585.6	5.3 5.9	1.8 1.8	548.2 589.7	57.2 59.3	41.6 42.8	15.6 16.5	491.0 530.5	6 .4	491.6 530.1
1963	617.7	6.5	2.1	622.2	62.4	44.9	17.5	559.8	8	560.6
1964	663.6	7.2 7.9	2.3	668.5	65.0	46.9	18.1	603.5	.8	602.7
1965 1966	719.1 787.8	8.1	2.6 3.0	724.4 792.9	69.4 75.6	50.5 55.5	18.9 20.1	655.0 717.3	1.6 6.3	653.4 711.0
1967	832.6	8.7	3.3	838.0	81.5	59.9	21.6	756.5	4.6	751.9
1968 1969	910.0 984.6	10.1 11.8	4.0 5.7	916.1 990.7	88.4 97.9	65.2 73.1	23.1 24.8	827.7 892.8	4.6 3.2	823.2 889.7
1970	1,038.5	12.8	6.4	1,044.9	106.7	80.0	26.7	938.2	7.3	930.9
1971 1972	1,127.1 1,238.3	14.0 16.3	6.4 7.7	1,134.7 1,246.8	115.0 126.5	86.7 97.1	28.3 29.5	1,019.7 1,120.3	11.6 9.1	1,008.1 1,111.2
1973	1,382.7	23.5	10.9	1,395.3	139.3	107.9	31.4	1,256.0	8.6	1,247.4
1974 1975	1,500.0 1,638.3	29.8 28.0	14.3 15.0	1,515.5 1,651.3	162.5 187.7	126.6 147.8	35.9 40.0	1,353.0 1,463.6	10.9 17.7	1,342.1 1,445.9
1976	1,825.3	32.4	15.5	1,842.1	205.2	162.5	42.6	1,637.0	25.1	1,611.8
1977 1978	2,030.9 2,294.7	37.2 46.3	16.9 24.7	2,051.2 2,316.3	230.0 262.3	184.3 212.8	45.7 49.5	1,821.2 2,054.0	22.3 26.6	1,798.9 2,027.4
1979	2,563.3	68.3	36.4	2,595.3	300.1	245.7	54.5	2,295.1	46.0	2,249.1
1980	2,789.5	79.1	44.9	2,823.7	343.0	281.1	61.8	2,480.7	41.4	2,439.3
1981 1982	3,128.4 3,255.0	92.0 101.0	59.1 64.5	3,161.4 3,291.5	388.1 426.9	317.9 349.8	70.1 77.1	2,773.3 2,864.6	30.9	2,742.4 2,864.3
1983	3,536.7	101.9	64.8	3,573.8	443.8	362.1	81.7	3,130.0	45.7	3,084.2
1984 1985	3,933.2 4,220.3	121.9 112.4	85.6 85.9	3,969.5 4,246.8	472.6 506.7	385.6 414.0	87.0 92.7	3,496.9 3,740.1	14.6 16.7	3,482.3 3,723.4
1986	4.462.8	111.4	93.6	4,480.6	531.3	431.8	99.5	3,949.3	47.0	3,902.3
1987 1988	4,739.5 5,103.8	123.2 152.1	105.3 128.5	4,757.4 5,127.4	561.9 597.6	455.3 483.5	106.7 114.1	4,195.4 4,529.8	21.7 -19.5	4,173.7 4,549.4
1989	5,484.4	177.7	151.5	5,510.6	644.3	522.1	122.2	4,866.3	39.7	4,826.6
1990 1991	5,803.1 5,995.9	189.1 168.9	154.3 138.5	5,837.9 6,026.3	682.5 725.9	551.6 586.9	130.9 139.1	5,155.4 5,300.4	66.2 72.5	5,089.1 5,227.9
1992	6,337.7	152.7	123.0	6,367.4	751.9	607.3	144.6	5,615.5	102.7	5,512.8
1993 1994	6,657.4 7,072.2	156.2 186.4	124.3 160.2	6,689.3 7,098.4	776.4 833.7	624.7 675.1	151.8 158.6	5,912.9 6,264.7	139.5 142.5	5,773.4 6,122.3
1995	7,397.7	233.9	198.1	7,433.4	878.4	713.4	165.0	6,555.1	101.2	6,453.9
1996 1997	7,816.9 8,304.3	248.7 286.7	213.7 253.7	7,851.9 8,337.3	918.1 974.4	748.8 800.3	169.3 174.1	6,933.8 7,362.8	93.7 70.7	6,840.1 7,292.2
1998	8,747.0	287.1	265.8	8,768.3	1,030.2	851.2	179.0	7,738.2	-14.6	7,752.8
1999 2000	9,268.4 9,817.0	320.8 382.7	287.0 343.7	9,302.2	1,101.3 1.187.8	914.3 990.8	187.0 197.0	8,200.9 8.668.1	-35.7 -127.2	8,236.7 8,795.2
2001	10,128.0	322.4	278.8	9,855.9 10,171.6	1,281.5	1,075.5	206.0	8,890.2	-89.6	8,979.8
2002 2003	10,469.6 10,960.8	305.7 336.8	275.0 280.0	10,500.2 11,017.6	1,292.0 1,336.5	1,080.3 1,118.3	211.6 218.2	9,208.3 9,681.1	-21.0 48.8	9,229.3 9,632.3
2004	11,685.9	437.5	361.3	11,762.1	1,436.1	1,206.0	230.2	10,326.0	19.1	10,306.8
2005 2006	12,421.9 13,178.4	573.5 725.4	480.5 647.1	12,514.9 13,256.6	1,612.0 1,623.9	1,359.7 1,356.0	252.3 268.0	10,902.9 11,632.7	-71.2 -163.0	10,974.0 11,795.7
2007	13,807.5	861.7	759.3	13,910.0	1,720.5	1,431.1	289.4	12,189.5	-81.4	12,270.9
2005:	12,155.4	536.0	433.4	12,258.0	1,467.2	1,225.3	241.9	10,790.8	-35.6	10,826.3
 	12,297.5 12,538.2	551.8 582.9	459.6 479.9	12,389.7 12,641.2	1,494.1 1,907.0	1,248.0 1,641.1	246.1 265.9	10,895.6 10,734.3	-63.3 -45.3	10,958.9 10,779.5
IV	12,696.4	623.3	549.1	12,770.6	1,579.8	1,324.4	255.4	11,190.8	-140.5	11,331.3
2006: I	12,959.6 13,134.1	661.9 720.0	582.4 634.8	13,039.2	1,582.7 1,612.5	1,323.1 1,346.8	259.5 265.8	11,456.5 11,606.8	-154.6 -131.7	11,611.1 11,738.5
	13,134.1 13,249.6 13,370.1	745.9	679.4	13,219.4 13,316.1	1,638.3	1,367.8	270.5	11,677.7	-170.8	11,848.6
IV		773.7	691.8	13,452.0	1,662.2	1,386.2	275.9	11,789.8	-194.9	11,984.7
2007:	13,510.9 13,737.5	788.2 852.8	715.8 793.2	13,583.3 13,797.2	1,684.3 1,707.0	1,402.1 1,420.0	282.2 287.0	11,899.0 12,090.1	-188.4 -143.4	12,087.4 12,233.6
	13,950.6	898.5	786.3	14,062.8	1,731.9	1,440.1	291.8	12,330.8	-7.8	12,338.6
IV	14,031.2	907.4	742.0	14,196.6	1,758.6	1,462.3	296.3	12,438.0	13.9	12,424.1
2008: I II	14,150.8 14,294.5	843.2 822.8	705.1 708.9	14,289.0 14,408.3	1,778.0 1,803.1	1,477.5 1,497.4	300.5 305.7	12,511.1 12,605.2	63.4 136.6	12,447.6 12,468.6
P	14,420.5	805.8	688.4	14,538.0	1,899.7	1,587.4	312.2	12,638.3	160.5	12,477.8

Table B-27.—Relation of national income and personal income, 1959-2008

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

				is, quarteri		asonany au	Justeu aiiiu				
					Less:				Pli	IS:	Equals:
Year or quarter	National income	Corporate profits with inventory valuation and capital consumption adjustments	Taxes on production and imports less subsidies	Contributions for government social insurance	Net interest and miscel- laneous payments on assets	Business current transfer payments (net)	Current surplus of govern- ment enter- prises	Wage accruals less disburse- ments	Personal income receipts on assets	Personal current transfer receipts	Personal income
1959	455.8	55.7	40.0	13.8	9.6	1.8	1.0	0.0	34.6	24.2	392.8
1960	474.9	53.8	43.4	16.4	10.6	1.9	.9	.0	37.9	25.7	411.5
1961 1962 1963	491.6	54.9	45.0	17.0	12.5	2.0	.8	.0	40.1	29.5	429.0
1962	530.1 560.6	63.3 69.0	48.2 51.2	19.1 21.7	14.2 15.2	2.2 2.7	.9 1.4	.0 n	44.1 47.9	30.4 32.2	456.7 479.6
	602.7	76.5	54.6	22.4	17.4	3.1	1.3	.0 .0	53.8	33.5	514.6
1965	653.4 711.0	87.5 93.2	57.8 59.3	23.4 31.3	19.6 22.4	3.6 3.5	1.3 1.0	.0 .0	59.4 64.1	36.2 39.6	555.7 603.9
1965 1966 1967	751.9	91.3	64.2	34.9	25.5	3.8	.9	.0	69.0	48.0	648.3
1968 1969	823.2 889.7	98.8 95.4	72.3 79.4	38.7 44.1	27.1 32.7	4.3 4.9	1.2 1.0	.0 .0	75.2 84.1	56.1 62.3	712.0 778.5
1970	930.9	83.6	86.7	46.4	39.1	4.5	.0	.0	93.5	74.7	838.8
1071	1 000 1	98.0	95.9	51.2	43.9	4.3	2	.6	101.0	88.1	903.5
1972 1973 1974 1975	1,111.2 1,247.4	112.1 125.5	101.4 112.1	59.2 75.5	47.9 55.2	4.9 6.0	.5 4	.0 1	109.6 124.7	97.9	992.7 1,110.7
1974	1,342.1	115.8	121.7	85.2	70.8	7.1	9	1 5	146.4	112.6 133.3	1,222.6 1,335.0
1975	1,445.9	134.8	131.0	89.3	81.6	9.4	-3.2	.1	162.2	170.0	1,335.0
	1,611.8 1,798.9	163.3 192.4	141.5 152.8	101.3 113.1	85.5 101.1	9.5 8.4	-1.8 -2.6	.1 .1	178.4 205.3	184.0 194.2	1,474.8 1,633.2
1978 1979	2.027.4	216.6	162.2	131.3	115.0	10.6	-1.9	.3 2	234.8	209.6	1,837.7
1979	2,249.1 2,439.3	223.2 201.1	171.9 190.9	152.7	138.9 181.8	13.0 14.4	-2.6 -4.8	2 .0	274.7 338.7	235.3 279.5	2,062.2
1980 1981	2,742.4	226.1	224.5	166.2 195.7	232.3	17.6	-4.0 -4.9	.1	421.9	318.4	2,307.9 2,591.3
1982 1983 1984	2,864.3	209.7	226.4	208.9	271.1	20.1	-4.0	.0	488.4	354.8	2,775.3 2,960.7
1984	3,084.2 3,482.3	264.2 318.6	242.5 269.3	226.0 257.5	285.3 327.1	22.5 30.1	−3.1 −1.9	4 .2	529.6 607.9	383.7 400.1	3,289.5
1985	3,723.4	330.3	287.3	281.4	341.3	34.8	.8	2 .0	654.0	424.9	3,526.7
1986	3,902.3 4,173.7	319.5 368.8	298.9 317.7	303.4 323.1	366.8 366.4	36.6 33.8	1.3 1.2	.U .O	695.5 717.0	451.0 467.6	3,722.4 3,947.4
1985	4.549.4	432.6	345.5	361.5	385.3	34.0	2.5	.0 .0	769.3	496.6	4,253.7
1989	4,826.6	426.6	372.1	385.2	432.1	39.2 39.4	4.9		878.0	543.4	4,587.8
1990 1991	5,089.1 5,227.9	437.8 451.2	398.7 430.2	410.1 430.2	442.2 418.2	39.4	1.6 5.7	.1 1	924.0 932.0	595.2 666.4	4,878.6 5,051.0
1991 1992 1993	5,512.8	479.3	453.9	455.0 477.7	388.5	42.4	7.6	-15.8	910.9	749.4	5,362.0
1994	5,773.4 6.122.3	541.9 600.3	467.0 513.5	508.2	365.7 366.4	40.7 43.3	7.2 8.6	6.4 17.6	901.8 950.8	790.1 827.3	5,558.5 5,842.5
1995	6,453.9	696.7	524.2	532.8	367.1	46.9	11.4	16.4	1,016.4	877.4	6,152.3
1996	6,840.1 7,292.2	786.2 868.5	546.8 579.1	555.2 587.2	376.2 415.6	53.1 49.9	12.7 12.6	3.6 -2.9	1,089.2 1,181.7	925.0 951.2	6,520.6 6,915.1
1994 1995 1996 1997	7,752.8	801.6	604.4	624.2	487.1	64.7	10.3	7	1,283.2	978.6	7,423.0
1999 2000	8,236.7 8,795.2	851.3 817.9	629.8 664.6	661.4	495.4 559.0	67.4	10.1 5.3	5.2	1,264.2	1,022.1 1.084.0	7,802.4 8,429.7
2001	8,979.8	767.3	673.3	702.7 731.1	566.3	87.1 92.8	-1.4	.0 .0	1,387.0 1,380.0	1,193.9	8,724.1
2001 2002 2003 2004 2005	9,229.3	886.3	724.4	750.0	520.9	84.3	.9	.0	1,333.2	1,286.2	8,881.9
2003	9,632.3 10,306.8	993.1 1,231.2	759.3 819.2	778.6 828.8	524.7 491.2	83.8 83.0	1.7 -4.2	15.0 -15.0	1,336.6 1,432.1	1,351.0 1,422.5	9,163.6 9,727.2
2005	10,974.0	1,447.9	868.9	874.3	569.1	70.0	-13.4	5.0	1,596.9 1,824.8	1,520.7	10,269.8
2006 2007	10,974.0 11,795.7 12,270.9	1,668.5 1,642.4	926.4 963.2	925.5 965.1	631.2 664.4	85.4 100.2	-8.6 -7.9	1.3 -6.3	1,824.8 2,000.1	1,603.0 1,713.3	10,993.9 11,663.2
2005: I	10.826.3	1,438.2	850.0	859.6	537.0	97.4	-7.1	.0	1.513.6	1.479.7	10.044.5
<u> </u>	10,958.9 10,779.5	1,472.4	865.5	866.9	554.8	97.9	-9.3 -25.8	.0	1,564.7 1,616.9	1,508.8 1,559.6	10.184.4
 V	10,779.5	1,342.6 1,538.6	876.6 883.5	881.1 889.5	583.9 600.8	8.5 76.1	-25.8 -11.4	.0 20.0	1,616.9	1,559.6	10,289.1 10,561.0
2006: I	11,611.1 11,738.5	1,634.2	908.5	917.1	615.5	85.1	-7.8	-20.0	1,735.4	1,567.6 1,594.5	10,781.6
II	11,738.5 11,848.6	1,681.6	923.8 932.0	918.9	629.7	83.5	-8.3 -9.1	.0	1,809.5	1,594.5	10,913.2 11,056.1
III IV	11,848.6	1,713.8 1,644.5	932.0	925.5 940.4	630.1 649.3	86.0 86.8	-9.1 -9.2	.0 25.0	1,865.8 1,888.6	1,620.1 1,629.8	11,056.1
2007: I		1,617.8	955.2	959.8	645.8	98.3	-10.8	-25.0	1.930.9	1,695.7	11,473.0 11,577.5
	12,087.4 12,233.6 12,338.6	1,672.5	956.4	959.1	8.060	97.4	-8.5	.0	1,982.5	1,699.2	11,577.5
III IV	12,338.6	1,668.3 1,611.1	965.7 975.3	966.0 975.3	663.0 688.1	102.2 103.1	-5.5 -6.7	.0 .0	2,030.9 2,056.2	1,720.6 1,737.8	11,730.4 11,872.1
2008: I	12.447.6	1.593.5	975.1	992.2	662.3	103.2	-7.1	.0	2,054.1	1.778.1	11.960.5
	12,468.6 12,477.8	1,533.3 1,518.7	988.5 992.1	995.4 998.7	683.4 655.8	102.1 92.8	−7.7 −8.0	.0 .0	2,052.3 2,056.8	1,926.3 1,872.4	12,152.2 12,156.8
	12,4/1.8	1,516./	332.1	330./	0.000	92.8	− 6.U	.U	2,000.8	1,072.4	12,100.8

Table B-28.—National income by type of income, 1959-2008

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

				Compen:	sation of em				Proprie inventory	etors' incom valuation ar option adjus	nd capital	Rental
			Wage a	and salary a	ccruals		ements to v and salaries					income of
Year or quarter	National income	Total	Total	Govern- ment	Other	Total	Employer contribu- tions for employee pension and insurance funds	Employer contribu- tions for govern- ment social insur- ance	Total	Farm	Non- farm	persons with capital con- sumption adjust- ment
1959	455.8	281.0	259.8	46.1	213.8	21.1	13.3	7.9	50.7	10.0	40.6	16.2
1960 1961 1962 1963 1964 1965 1966 1967 1967 1968	474.9 491.6 530.1 560.6 602.7 653.4 711.0 751.9 823.2 889.7	296.4 305.3 327.1 345.2 370.7 399.5 442.7 475.1 524.3 577.6	272.9 280.5 299.4 314.9 337.8 363.8 400.3 429.0 472.0 518.3	49.2 52.5 56.3 60.0 64.9 78.4 86.5 96.7 105.6	223.7 228.0 243.0 254.8 272.9 293.8 321.9 342.5 375.3 412.7	23.6 24.8 27.8 30.4 32.9 35.7 42.3 46.1 52.3 59.3	14.3 15.2 16.6 18.0 20.3 22.7 25.5 28.1 32.4 36.5	9.3 9.6 11.2 12.4 12.6 13.1 16.8 18.0 20.0 22.8	50.8 53.2 55.4 56.5 59.4 63.9 68.2 69.8 74.3 77.4	10.5 11.0 11.0 10.8 9.6 11.8 12.8 11.5 11.5	40.3 42.2 44.4 45.7 49.8 52.1 55.4 58.4 62.8 64.7	17.1 17.9 18.8 19.5 19.6 20.2 20.8 21.2 20.9 21.2
1970 1971 1972 1973 1974 1975 1976 1977 1978	930.9 1,008.1 1,111.2 1,247.4 1,342.1 1,445.9 1,611.8 1,798.9 2,027.4 2,249.1	617.2 658.9 725.1 811.2 890.2 949.1 1,059.3 1,180.5 1,336.1 1,500.8	551.6 584.5 638.8 708.8 772.3 814.8 899.7 994.2 1,121.2 1,255.8	117.2 126.8 137.9 148.8 160.5 176.2 188.9 202.6 220.0 237.1	434.3 457.8 500.9 560.0 611.8 638.6 710.8 791.6 901.2 1,018.7	65.7 74.4 86.4 102.5 118.0 134.3 159.6 186.4 214.9 245.0	41.8 47.9 55.2 62.7 73.3 87.6 105.2 125.3 143.4 162.4	23.8 26.4 31.2 39.8 44.7 46.7 54.4 61.1 71.5 82.6	78.4 84.8 95.9 113.5 113.1 119.5 132.2 145.7 166.6 180.1	12.7 13.2 16.8 28.9 23.2 21.7 17.0 15.7 19.6 21.8	65.7 71.6 79.1 84.6 89.9 97.8 115.2 130.0 147.1 158.3	21.4 22.4 23.4 24.3 24.3 23.7 22.3 20.7 22.1 23.8
1980 1981 1982 1983 1984 1985 1986 1987 1988	2,439.3 2,742.4 2,864.3 3,084.2 3,482.3 3,723.4 3,902.3 4,173.7 4,549.4 4,826.6	1,651.8 1,825.8 1,925.8 2,042.6 2,255.6 2,424.7 2,570.1 2,750.2 2,967.2 3,145.2	1,377.6 1,517.5 1,593.7 1,684.6 1,855.1 1,995.5 2,114.8 2,270.7 2,452.9 2,596.3	261.5 285.8 307.5 324.8 348.1 373.9 397.0 422.6 451.3 480.2	1,116.2 1,231.7 1,286.2 1,359.8 1,507.0 1,621.6 1,717.9 1,848.1 2,001.6 2,116.2	274.2 308.3 332.1 358.0 400.5 429.2 455.3 479.5 514.2 548.9	185.2 204.7 222.4 238.1 261.5 281.5 297.5 313.2 329.6 355.2	88.9 103.6 109.8 119.9 139.0 147.7 157.9 166.3 184.6 193.7	174.1 183.0 176.3 192.5 243.3 262.3 275.7 302.2 341.6 363.3	11.3 18.7 13.1 6.0 20.6 20.8 22.6 28.7 26.8 33.0	162.8 164.3 163.3 186.5 222.7 241.5 253.1 273.5 314.7 330.3	30.0 38.0 38.8 37.8 40.2 41.9 33.5 40.6 43.1
1990 1991 1992 1993 1994 1995 1996 1997 1998	5,089.1 5,227.9 5,512.8 5,773.4 6,122.3 6,453.9 6,840.1 7,292.2 7,752.8 8,236.7	3,338.2 3,445.2 3,635.4 3,801.4 3,997.2 4,193.3 4,390.5 4,661.7 5,019.4 5,357.1	2,754.0 2,823.0 2,964.5 3,089.2 3,249.8 3,435.7 3,623.2 3,874.7 4,182.7 4,471.4	517.7 546.8 569.2 586.8 606.2 625.5 644.4 668.1 697.3 729.3	2,236.3 2,276.2 2,395.3 2,502.4 2,643.5 2,810.2 2,978.8 3,206.6 3,485.5 3,742.1	584.2 622.3 670.9 712.2 747.5 757.7 767.3 787.0 836.7 885.7	377.8 407.1 442.5 472.4 493.3 493.6 492.5 497.5 529.7 562.4	206.5 215.1 228.4 239.8 254.1 264.0 274.9 289.5 307.0 323.3	380.6 377.1 427.6 453.8 473.3 492.1 543.2 576.0 627.8 678.3	31.9 26.7 34.5 31.2 33.9 22.7 37.3 34.2 29.4 28.6	348.7 350.4 393.0 422.6 439.4 469.5 505.9 541.8 598.4 649.7	50.7 60.3 78.0 95.6 119.7 122.1 131.5 128.8 137.5 147.3
2000	8,795.2 8,979.8 9,229.3 9,632.3 10,306.8 10,974.0 11,795.7 12,270.9	5,782.7 5,942.1 6,091.2 6,325.4 6,656.4 7,030.8 7,433.8 7,812.3	4,829.2 4,942.8 4,980.9 5,127.7 5,379.5 5,676.7 6,028.5 6,355.7	774.7 815.9 865.9 904.4 943.1 980.7 1,023.0 1,075.2	4,054.5 4,126.9 4,115.0 4,223.3 4,436.4 4,695.9 5,005.5 5,280.5	953.4 999.3 1,110.3 1,197.7 1,276.9 1,354.1 1,405.3 1,456.6	609.9 642.7 745.1 815.6 868.5 926.0 956.8 991.9	343.5 356.6 365.2 382.1 408.3 428.1 448.5 464.7	728.4 771.9 768.4 811.3 911.6 959.8 1,014.7 1,056.2	22.7 19.7 10.6 29.2 37.3 34.1 16.2 44.0	705.7 752.2 757.8 782.1 874.3 925.7 998.6 1,012.2	150.3 167.4 152.9 133.0 118.4 40.9 44.3 40.0
2005: 	10,826.3 10,958.9 10,779.5 11,331.3	6,884.4 6,957.4 7,090.2 7,191.0	5,553.1 5,611.5 5,725.6 5,816.5	970.6 974.0 984.8 993.6	4,582.5 4,637.5 4,740.8 4,822.9	1,331.4 1,346.0 1,364.7 1,374.5	909.8 921.4 933.4 939.5	421.6 424.5 431.3 434.9	936.3 948.1 960.4 994.5	33.2 38.3 37.1 27.7	903.0 909.8 923.3 966.7	90.1 72.2 –56.9 58.0
2006: I II IV	11,611.1 11,738.5 11,848.6 11,984.7	7,318.0 7,364.2 7,441.9 7,611.1	5,926.4 5,966.2 6,034.2 6,187.2	1,007.7 1,013.2 1,029.4 1,041.9	4,918.7 4,953.0 5,004.8 5,145.3	1,391.6 1,398.0 1,407.8 1,423.9	946.6 952.9 959.5 968.1	445.0 445.1 448.2 455.8	1,004.7 1,018.3 1,013.4 1,022.4	17.3 9.8 13.8 23.7	987.5 1,008.4 999.6 998.7	52.8 45.6 40.4 38.2
2007: 	12,087.4 12,233.6 12,338.6 12,424.1	7,709.0 7,760.1 7,839.3 7,941.0	6,269.0 6,310.7 6,377.7 6,465.5	1,059.9 1,068.1 1,080.8 1,092.1	5,209.0 5,242.5 5,297.0 5,373.4	1,440.0 1,449.4 1,461.6 1,475.5	977.6 987.7 996.5 1,005.9	462.3 461.7 465.1 469.6	1,037.2 1,050.2 1,063.8 1,073.8	39.3 42.3 47.4 47.1	997.9 1,007.9 1,016.4 1,026.7	35.1 44.6 41.8 38.6
2008: <i>p</i>	12,447.6 12,468.6 12,477.8	8,009.7 8,033.5 8,082.7	6,518.0 6,531.3 6,572.3	1,109.7 1,123.4 1,138.0	5,408.3 5,407.9 5,434.2	1,491.7 1,502.2 1,510.4	1,015.3 1,024.4 1,031.2	476.4 477.8 479.2	1,071.7 1,076.9 1,080.6	41.6 38.0 32.4	1,030.1 1,039.0 1,048.2	39.1 58.6 63.1

See next page for continuation of table.

Table B-28.—National income by type of income, 1959-2008—Continued

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

	Corp	orate profi	its with in		luation an									
			Profits w	ith invento out capital	ory valuati consumpt	on adjustr ion adjust	ment and			Net	Taxes		Busi-	Current
Year or quarter					Profits			Inven-	Capital con-	interest and miscel-	on produc-	Less: Sub-	ness current transfer	surplus of govern-
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Total	Total	Profits	Taxes on	Pro	ofits after	tax	tory valua-	sump- tion adjust-	laneous pay-	tion and imports	sidies	pay- ments	ment enter-
		iotai	before tax	corpo- rate income	Total	Net divi- dends	Undis- tributed profits	tion adjust- ment	ment	ments	,,,,		(net)	prises
1959	55.7	53.5	53.8	23.7	30.0	12.6	17.5	-0.3	2.2	9.6	41.1	1.1	1.8	1.0
1960 1961 1962 1963 1964 1965 1966 1967 1968 1968	53.8 54.9 63.3 69.0 76.5 87.5 93.2 91.3 98.8 95.4	51.5 51.8 57.0 62.1 68.6 78.9 84.6 82.0 88.8 85.5 74.4	51.6 51.6 57.0 62.1 69.1 80.2 86.7 83.5 92.4 91.4 81.0	22.8 22.9 24.1 26.4 28.2 31.1 33.9 32.9 39.6 40.0 34.8	28.8 28.7 32.9 35.7 40.9 49.1 52.8 50.6 52.8 51.4 46.2	13.4 13.9 15.0 16.2 18.2 20.2 20.7 21.5 23.5 24.2 24.3	15.5 14.8 17.9 19.5 22.7 28.9 32.1 29.1 29.3 27.2 21.9	2 .3 .0 .1 5 -1.2 -2.1 -1.6 -3.7 -5.9	2.3 3.0 6.2 6.8 7.9 8.6 9.3 10.0 9.9	10.6 12.5 14.2 15.2 17.4 19.6 22.4 25.5 27.1 32.7	44.6 47.0 50.4 53.4 57.3 60.8 63.3 68.0 76.5 84.0	1.1 2.0 2.3 2.2 2.7 3.0 3.9 3.8 4.2 4.5	1.9 2.0 2.2 2.7 3.6 3.5 3.8 4.3 4.9	.9 .8 .9 1.4 1.3 1.0 .9 1.2
1971 1972 1973 1974 1975 1976 1977 1978	98.0 112.1 125.5 115.8 134.8 163.3 192.4 216.6 223.2	88.3 101.2 115.3 109.5 135.0 165.6 194.7 222.4 231.8	92.9 107.8 134.8 147.8 145.5 179.7 210.4 246.1 271.9	38.2 42.3 50.0 52.8 51.6 65.3 74.4 84.9 90.0	54.7 65.5 84.9 95.0 93.9 114.4 136.0 161.3 181.9	25.0 26.8 29.9 33.2 33.0 39.0 44.8 50.8 57.5	29.7 38.6 55.0 61.8 60.9 75.4 91.2 110.5 124.4	-4.6 -6.6 -19.6 -38.2 -10.5 -14.1 -15.7 -23.7 -40.1	9.7 10.9 10.2 6.2 -2.3 -2.3 -5.8 -8.5	43.9 47.9 55.2 70.8 81.6 85.5 101.1 115.0 138.9	100.6 108.1 117.3 125.0 135.5 146.6 159.9 171.2 180.4	4.7 6.6 5.2 3.3 4.5 5.1 7.1 8.9 8.5	4.3 4.9 6.0 7.1 9.4 9.5 8.4 10.6 13.0	.0 2 .5 4 9 -3.2 -1.8 -2.6 -1.9 -2.6
1980	201.1 226.1 209.7 264.2 318.6 330.3 319.5 368.8 432.6 426.6	211.4 219.1 191.0 226.5 264.6 257.5 253.0 301.4 363.9 367.4	253.5 243.7 198.5 233.9 268.6 257.4 246.0 317.6 386.1 383.7	87.2 84.3 66.5 80.6 97.5 99.4 109.7 130.4 141.6 146.1	166.3 159.4 132.0 153.3 171.1 158.0 136.3 187.2 244.4 237.7	64.1 73.8 77.7 83.5 90.8 97.6 106.2 112.3 129.9 158.0	102.2 85.6 54.3 69.8 80.3 60.5 30.1 74.9 114.5 79.7	-42.1 -24.6 -7.5 -7.4 -4.0 .0 7.1 -16.2 -22.2 -16.3	-10.2 7.0 18.6 37.8 54.0 72.9 66.5 67.5 68.7 59.2	181.8 232.3 271.1 285.3 327.1 341.3 366.8 366.4 385.3 432.1	200.7 236.0 241.3 263.7 290.2 308.5 323.7 347.9 374.9 399.3	9.8 11.5 15.0 21.2 21.0 21.3 24.8 30.2 29.4 27.2	14.4 17.6 20.1 22.5 30.1 34.8 36.6 33.8 34.0 39.2	-4.8 -4.9 -4.0 -3.1 -1.9 .8 1.3 1.2 2.5 4.9
1990 1991 1992 1993 1994 1995 1996 1997 1998	437.8 451.2 479.3 541.9 600.3 696.7 786.2 868.5 801.6 851.3	396.6 427.9 458.3 513.1 564.6 656.0 736.1 812.3 738.5 776.8	409.5 423.0 461.1 517.1 577.1 674.3 733.0 798.2 718.3 775.9	145.4 138.6 148.7 171.0 193.7 218.7 231.7 246.1 248.3 258.6	264.1 284.4 312.4 346.1 383.3 455.6 501.4 552.1 470.0 517.2	169.1 180.7 187.9 202.8 234.7 254.2 297.6 334.5 351.6 337.4	95.0 103.7 124.5 143.3 148.6 201.4 203.8 217.6 118.3 179.9	-12.9 4.9 -2.8 -4.0 -12.4 -18.3 3.1 14.1 20.2 1.0	41.2 23.3 21.1 28.8 35.7 40.7 50.1 56.2 63.1 74.5	442.2 418.2 388.5 365.7 366.4 367.1 376.2 415.6 487.1 495.4	425.5 457.5 483.8 503.4 545.6 558.2 581.1 612.0 639.8 674.0	26.8 27.3 29.9 36.4 32.2 34.0 34.3 32.9 35.4 44.2	39.4 39.9 42.4 40.7 43.3 46.9 53.1 49.9 64.7 67.4	1.6 5.7 7.6 7.2 8.6 11.4 12.7 12.6 10.3
2000	817.9 767.3 886.3 993.1 1,231.2 1,447.9 1,668.5 1,642.4	759.3 719.2 766.2 894.5 1,161.6 1,582.8 1,834.2 1,835.1	773.4 707.9 768.4 908.1 1,204.7 1,620.6 1,873.7 1,886.3	265.2 204.1 192.6 243.3 307.4 413.7 468.9 450.4	508.2 503.8 575.8 664.8 897.3 1,206.9 1,404.8 1,435.9	377.9 370.9 399.2 424.7 539.5 577.4 702.1 788.7	130.3 132.9 176.6 240.1 357.8 629.5 702.7 647.3	-14.1 11.3 -2.2 -13.6 -43.1 -37.8 -39.5 -51.2	58.6 48.1 120.1 98.7 69.7 -134.8 -165.7 -192.7	559.0 566.3 520.9 524.7 491.2 569.1 631.2 664.4	708.9 728.6 762.8 807.2 863.8 928.2 976.2 1,015.5	44.3 55.3 38.4 47.9 44.6 59.3 49.7 52.3	87.1 92.8 84.3 83.8 83.0 70.0 85.4 100.2	5.3 -1.4 .9 1.7 -4.2 -13.4 -8.6 -7.9
2005: II IV	1,438.2 1,472.4 1,342.6 1,538.6	1,555.3 1,594.0 1,497.1 1,684.6	1,600.7 1,612.0 1,536.3 1,733.3	407.2 412.0 386.4 449.2	1,193.5 1,200.1 1,149.9 1,284.1	553.0 561.6 581.4 613.4	640.6 638.5 568.4 670.6	-45.4 -18.0 -39.1 -48.7	-117.2 -121.7 -154.5 -146.0	537.0 554.8 583.9 600.8	904.5 924.0 937.4 946.8	54.5 58.6 60.7 63.3	97.4 97.9 8.5 76.1	-7.1 -9.3 -25.8 -11.4
2006: I II IV	1,634.2 1,681.6 1,713.8 1,644.5	1,778.7 1,841.6 1,887.2 1,829.3	1,813.8 1,900.1 1,929.9 1,851.1	453.8 474.8 487.2 459.8	1,359.9 1,425.2 1,442.6 1,391.4	652.8 688.8 720.9 745.8	707.1 736.4 721.7 645.6	-35.0 -58.5 -42.7 -21.8	-144.5 -160.0 -173.4 -184.8	615.5 629.7 630.1 649.3	962.7 973.6 980.1 988.3	54.2 49.8 48.2 46.8	85.1 83.5 86.0 86.8	-7.8 -8.3 -9.1 -9.2
2007: I II IV	1,617.8 1,672.5 1,668.3 1,611.1	1,794.7 1,859.5 1,866.1 1,820.2	1,838.9 1,914.8 1,897.1 1,894.3	448.5 468.5 451.1 433.5	1,390.4 1,446.3 1,446.1 1,460.9	761.5 779.2 797.6 816.4	629.0 667.1 648.5 644.5	-44.2 -55.3 -31.0 -74.1	-176.9 -187.0 -197.8 -209.2	645.8 660.8 663.0 688.1	1,002.7 1,012.3 1,019.2 1,027.7	47.5 55.9 53.5 52.3	98.3 97.4 102.2 103.1	-10.8 -8.5 -5.5 -6.7
2008: p	1,593.5 1,533.3 1,518.7	1,641.5 1,596.0 1,606.9	1,750.9 1,750.0 1,699.3	402.9 406.8 396.9	1,348.0 1,343.2 1,302.4	832.5 846.4 841.4	515.5 496.7 461.0	-109.4 -154.0 -92.4	-48.0 -62.7 -88.2	662.3 683.4 655.8	1,025.8 1,039.4 1,042.5	50.6 50.8 50.4	103.2 102.1 92.8	-7.1 -7.7 -8.0

Table B-29.—Sources of personal income, 1959-2008

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

			С	ompensatio	on of emplo	yees, receiv	red		inventory	etors' incom valuation a option adjus	nd capital	Rental
				ge and sal			upplements ges and sala					income of persons
Year or quarter	Personal income	Total	Total	Private indus- tries	Govern- ment	Total	Employer contribu- tions for employee pension and insurance funds	Employer contribu- tions for govern- ment social insurance	Total	Farm	Nonfarm	with capital consump- tion adjust- ment
1959	392.8	281.0	259.8	213.8	46.1	21.1	13.3	7.9	50.7	10.0	40.6	16.2
1960 1961 1962 1963 1964 1965 1966 1967 1967	411.5 429.0 456.7 479.6 514.6 555.7 603.9 648.3 712.0 778.5	296.4 305.3 327.1 345.2 370.7 399.5 442.7 475.1 524.3 577.6	272.9 280.5 299.4 314.9 337.8 363.8 400.3 429.0 472.0 518.3	223.7 228.0 243.0 254.8 272.9 293.8 321.9 342.5 375.3 412.7	49.2 52.5 56.3 60.0 64.9 69.9 78.4 86.5 96.7	23.6 24.8 27.8 30.4 32.9 35.7 42.3 46.1 52.3 59.3	14.3 15.2 16.6 18.0 20.3 22.7 25.5 28.1 32.4 36.5	9.3 9.6 11.2 12.4 12.6 13.1 16.8 18.0 20.0 22.8	50.8 53.2 55.4 56.5 59.4 63.9 68.2 69.8 74.3 77.4	10.5 11.0 10.8 9.6 11.8 12.8 11.5 11.5	40.3 42.2 44.4 45.7 49.8 52.1 55.4 58.4 62.8 64.7	17.1 17.9 18.8 19.5 19.6 20.2 20.8 21.2 20.9 21.2
1970	838.8 903.5 992.7 1,110.7 1,222.6 1,335.0 1,474.8 1,633.2 1,837.7 2,062.2	617.2 658.3 725.1 811.3 890.7 949.0 1,059.2 1,180.4 1,335.8 1,501.0	551.6 584.0 638.8 708.8 772.8 814.7 899.6 994.1 1,120.9 1,256.0	434.3 457.4 501.2 560.0 611.8 638.6 710.8 791.6 901.2 1,018.7	117.2 126.6 137.6 148.8 161.0 176.1 188.8 202.5 219.7 237.3	65.7 74.4 86.4 102.5 118.0 134.3 159.6 186.4 214.9 245.0	41.8 47.9 55.2 62.7 73.3 87.6 105.2 125.3 143.4 162.4	23.8 26.4 31.2 39.8 44.7 46.7 54.4 61.1 71.5 82.6	78.4 84.8 95.9 113.5 113.1 119.5 132.2 145.7 166.6 180.1	12.7 13.2 16.8 28.9 23.2 21.7 17.0 15.7 19.6 21.8	65.7 71.6 79.1 84.6 89.9 97.8 115.2 130.0 147.1 158.3	21.4 22.4 23.4 24.3 24.3 23.7 22.3 20.7 22.1 23.8
1980	2,307.9 2,591.3 2,775.3 2,960.7 3,289.5 3,526.7 3,722.4 3,947.4 4,253.7 4,587.8	1,651.8 1,825.7 1,925.9 2,043.0 2,255.4 2,424.9 2,570.1 2,750.2 2,967.2 3,145.2	1,377.7 1,517.5 1,593.7 1,685.0 1,854.9 1,995.7 2,114.8 2,270.7 2,452.9 2,596.3	1,116.2 1,231.7 1,286.2 1,359.8 1,507.0 1,621.6 1,717.9 1,848.1 2,001.6 2,116.2	261.5 285.8 307.5 325.2 347.9 374.1 397.0 422.6 451.3 480.2	274.2 308.3 332.1 358.0 400.5 429.2 455.3 479.5 514.2 548.9	185.2 204.7 222.4 238.1 261.5 281.5 297.5 313.2 329.6 355.2	88.9 103.6 109.8 119.9 139.0 147.7 157.9 166.3 184.6 193.7	174.1 183.0 176.3 192.5 243.3 262.3 275.7 302.2 341.6 363.3	11.3 18.7 13.1 6.0 20.6 20.8 22.6 28.7 26.8 33.0	162.8 164.3 163.3 186.5 222.7 241.5 253.1 273.5 314.7 330.3	30.0 38.8 37.8 40.2 41.9 33.5 40.6 43.1
1990 1991 1992 1993 1994 1995 1996 1997 1998	4,878.6 5,051.0 5,362.0 5,558.5 5,842.5 6,152.3 6,520.6 6,915.1 7,423.0 7,802.4	3,338.2 3,445.3 3,651.2 3,794.9 3,979.6 4,177.0 4,386.9 4,664.6 5,020.1 5,352.0	2,754.0 2,823.0 2,980.3 3,082.7 3,232.1 3,419.3 3,619.6 3,877.6 4,183.4 4,466.3	2,236.3 2,276.2 2,411.1 2,496.0 2,625.9 2,793.8 2,975.2 3,209.5 3,486.2 3,736.9	517.7 546.8 569.2 586.8 606.2 625.5 644.4 668.1 697.3 729.3	584.2 622.3 670.9 712.2 747.5 757.7 767.3 787.0 836.7 885.7	377.8 407.1 442.5 472.4 493.3 493.6 492.5 497.5 529.7 562.4	206.5 215.1 228.4 239.8 254.1 264.0 274.9 289.5 307.0 323.3	380.6 377.1 427.6 453.8 473.3 492.1 543.2 576.0 627.8 678.3	31.9 26.7 34.5 31.2 33.9 22.7 37.3 34.2 29.4 28.6	348.7 350.4 393.0 422.6 439.4 469.5 505.9 541.8 598.4 649.7	50.7 60.3 78.0 95.6 119.7 122.1 131.5 128.8 137.5 147.3
2000	8,429.7 8,724.1 8,881.9 9,163.6 9,727.2 10,269.8 10,993.9 11,663.2	5,782.7 5,942.1 6,091.2 6,310.4 6,671.4 7,025.8 7,432.6 7,818.6	4,829.2 4,942.8 4,980.9 5,112.7 5,394.5 5,671.7 6,027.2 6,362.0	4,054.5 4,126.9 4,115.0 4,208.3 4,451.4 4,690.9 5,004.2 5,286.7	774.7 815.9 865.9 904.4 943.1 980.7 1,023.0 1,075.2	953.4 999.3 1,110.3 1,197.7 1,276.9 1,354.1 1,405.3 1,456.6	609.9 642.7 745.1 815.6 868.5 926.0 956.8 991.9	343.5 356.6 365.2 382.1 408.3 428.1 448.5 464.7	728.4 771.9 768.4 811.3 911.6 959.8 1,014.7 1,056.2	22.7 19.7 10.6 29.2 37.3 34.1 16.2 44.0	705.7 752.2 757.8 782.1 874.3 925.7 998.6 1,012.2	150.3 167.4 152.9 133.0 118.4 40.9 44.3 40.0
2005:	10,044.5 10,184.4 10,289.1 10,561.0 10,781.6 10,913.2	6,884.4 6,957.4 7,090.2 7,171.0 7,338.0 7,364.2	5,553.1 5,611.5 5,725.6 5,796.5 5,946.4 5,966.2	4,582.5 4,637.5 4,740.8 4,802.9 4,938.7 4,953.0	970.6 974.0 984.8 993.6 1,007.7 1,013.2	1,331.4 1,346.0 1,364.7 1,374.5 1,391.6 1,398.0	909.8 921.4 933.4 939.5 946.6 952.9	421.6 424.5 431.3 434.9 445.0 445.1	936.3 948.1 960.4 994.5 1,004.7 1,018.3	33.2 38.3 37.1 27.7 17.3 9.8	903.0 909.8 923.3 966.7 987.5 1,008.4	90.1 72.2 –56.9 58.0 52.8 45.6
III IV 2007: I	11,056.1 11,224.7 11,473.0	7,441.9 7,586.1 7,734.0	6,034.2 6,162.2 6,294.0 6,310.7	5,004.8 5,120.3 5,234.0 5,242.5	1,029.4 1,041.9 1,059.9 1,068.1	1,407.8 1,423.9 1,440.0	959.5 968.1 977.6	448.2 455.8 462.3	1,013.4 1,022.4 1,037.2 1,050.2	13.8 23.7 39.3 42.3	999.6 998.7 997.9	40.4 38.2 35.1 44.6
II III IV	11,577.5 11,730.4 11,872.1	7,760.1 7,839.3 7,941.0	6,377.7	5,373.4	1,080.8	1,449.4 1,461.6 1,475.5	987.7 996.5 1,005.9	461.7 465.1 469.6	1,063.8 1,073.8	47.4 47.1	1,007.9 1,016.4 1,026.7	41.8 38.6
2008: p	11,960.5 12,152.2 12,156.8	8,009.7 8,033.5 8,082.7	6,518.0 6,531.3 6,572.3	5,408.3 5,407.9 5,434.2	1,109.7 1,123.4 1,138.0	1,491.7 1,502.2 1,510.4	1,015.3 1,024.4 1,031.2	476.4 477.8 479.2	1,071.7 1,076.9 1,080.6	41.6 38.0 32.4	1,030.1 1,039.0 1,048.2	39.1 58.6 63.1

See next page for continuation of table.

Table B-29.—Sources of personal income, 1959-2008—Continued

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

	Person	al income re	eceipts		<u> </u>	Perso	onal current	transfer rec	eipts			
						Govern	ment social	benefits to	persons			Less: Contribu-
Year or quarter	Total	Personal interest income	Personal dividend income	Total	Total	Old-age, survivors, disability, and health insurance benefits	Govern- ment un- employ- ment insur- ance benefits	Veterans benefits	Family assis- tance ¹	Other	Other current transfer receipts, from business (net)	tions for govern- ment social insurance
1959	34.6	22.0	12.6	24.2	22.9	10.2	2.8	4.6	0.9	4.5	1.3	13.8
1960 1961 1962 1963 1964 1965 1966 1967 1968	37.9 40.1 44.1 47.9 53.8 59.4 64.1 69.0 75.2 84.1	24.5 26.2 29.1 31.7 35.6 39.2 43.4 47.5 51.6 59.9	13.4 13.9 15.0 16.2 18.2 20.2 20.7 21.5 23.5 24.2	25.7 29.5 30.4 32.2 33.5 36.2 39.6 48.0 56.1 62.3	24.4 28.1 28.8 30.3 31.3 33.9 37.5 45.8 53.3 59.0	11.1 12.6 14.3 15.2 16.0 18.1 20.8 25.8 30.5 33.1	3.0 4.3 3.1 3.0 2.7 2.3 1.9 2.2 2.1 2.2	4.6 5.0 4.7 4.8 4.7 4.9 5.6 5.9	1.0 1.1 1.3 1.4 1.5 1.7 1.9 2.3 2.8 3.5	4.7 5.1 5.5 5.9 6.4 7.0 8.1 9.9 11.9	1.3 1.4 1.5 1.9 2.2 2.3 2.1 2.3 2.8 3.3	16.4 17.0 19.1 21.7 22.4 23.4 31.3 34.9 38.7 44.1
1970 1971 1972 1973 1974 1975 1976 1977 1978	93.5 101.0 109.6 124.7 146.4 162.2 178.4 205.3 234.8 274.7	69.2 75.9 82.8 94.8 113.2 129.3 139.5 160.6 184.0 217.3 274.7	24.3 25.0 26.8 29.9 33.2 32.9 39.0 44.7 50.7 57.4 64.0	74.7 88.1 97.9 112.6 133.3 170.0 184.0 194.2 209.6 235.3 279.5	71.7 85.4 94.8 108.6 128.6 163.1 177.3 189.1 203.2 227.1 270.8	38.6 44.7 49.8 60.9 70.3 81.5 93.3 105.3 116.9 132.5	4.0 5.8 5.7 4.4 6.8 17.6 15.8 12.7 9.1 9.4	7.7 8.8 9.7 10.4 11.8 14.5 14.4 13.8 13.9 14.4	4.8 6.2 6.9 7.2 8.0 9.3 10.1 10.6 11.1 12.5	16.6 20.0 22.7 25.7 31.7 40.2 43.7 46.7 52.5 59.6 72.8	2.9 2.7 3.1 3.9 4.7 6.8 6.7 5.1 6.5 8.2	46.4 51.2 59.2 75.5 85.2 89.3 101.3 113.1 131.3 152.7
1981 1982 1983 1984 1985 1986 1987 1988 1989	421.9 488.4 529.6 607.9 654.0 695.5 717.0 769.3 878.0 924.0	348.3 410.8 446.3 517.2 556.6 589.5 604.9 639.5 720.2 755.2	73.6 77.6 83.3 90.6 97.4 106.0 112.2 129.7 157.8	318.4 354.8 383.7 400.1 424.9 451.0 467.6 496.6 543.4 595.2	307.2 342.4 369.9 380.4 402.6 428.0 447.4 476.0 519.9	182.1 204.6 222.2 237.8 253.0 268.9 282.6 300.2 325.6 351.8	15.6 25.1 26.2 15.9 15.7 16.3 14.5 13.2 14.3	16.1 16.4 16.6 16.4 16.7 16.7 16.6 16.9 17.3	13.1 12.9 13.8 14.5 15.2 16.1 16.4 16.9 17.5	80.2 83.4 91.0 95.9 102.0 109.9 117.3 128.8 145.3	11.2 12.4 13.8 19.7 22.3 22.9 20.2 20.6 23.5	195.7 208.9 226.0 257.5 281.4 303.4 323.1 361.5 385.2 410.1
1991 1992 1993 1994 1995 1996 1997 1998	932.0 910.9 901.8 950.8 1,016.4 1,089.2 1,181.7 1,283.2 1,264.2	751.7 723.4 699.6 716.8 763.2 793.0 848.7 933.2 928.6	180.3 187.4 202.2 234.0 253.2 296.2 333.0 349.9 335.6	666.4 749.4 790.1 827.3 877.4 925.0 951.2 978.6 1,022.1	648.5 729.8 775.7 812.2 858.4 902.1 931.8 952.6 988.0	381.7 414.4 443.4 475.4 506.8 537.7 563.2 575.1 588.9	26.6 38.9 34.1 23.5 21.4 22.0 19.9 19.5 20.3	18.3 19.3 20.1 20.1 20.9 21.7 22.5 23.4 24.3	21.1 22.2 22.8 23.2 22.6 20.3 17.9 17.4	200.8 234.9 255.3 270.0 286.7 300.4 308.3 317.3 336.7	17.9 19.6 14.4 15.1 19.0 22.9 19.4 26.0 34.1	430.2 455.0 477.7 508.2 532.8 555.2 587.2 624.2 661.4
2000	1,387.0 1,380.0 1,333.2 1,336.6 1,432.1 1,596.9 1,824.8 2,000.1	1,011.0 1,011.0 936.1 914.1 895.1 1,022.0 1,125.4 1,214.3	376.1 369.0 397.2 422.6 537.0 574.9 699.4 785.8	1,084.0 1,193.9 1,286.2 1,351.0 1,422.5 1,520.7 1,603.0 1,713.3	1,041.6 1,143.9 1,248.9 1,316.7 1,396.1 1,481.9 1,578.1 1,681.4	620.8 668.5 707.5 741.3 788.0 844.5 938.9 999.4	20.3 31.7 53.2 52.8 36.0 31.3 29.9 32.3	25.1 26.7 29.6 32.0 34.5 36.8 39.2 41.9	18.4 18.1 17.7 18.4 18.4 18.2 18.3	357.0 398.9 440.9 472.2 519.2 551.1 551.7 588.9	42.4 50.0 37.3 34.3 26.4 38.8 24.9 31.9	702.7 731.1 750.0 778.6 828.8 874.3 925.5 965.1
2005: 	1,513.6 1,564.7 1,616.9 1,692.3	963.0 1,005.6 1,038.0 1,081.4	550.6 559.1 578.9 610.9	1,479.7 1,508.8 1,559.6 1,534.7	1,453.4 1,480.8 1,490.6 1,502.9	827.6 841.8 849.7 858.8	31.8 31.2 30.7 31.6	36.6 36.7 36.9 37.0	18.2 18.2 18.2 18.2	539.1 552.9 555.0 557.3	26.4 28.1 69.0 31.8	859.6 866.9 881.1 889.5
2006: III	1,735.4 1,809.5 1,865.8 1,888.6	1,085.3 1,123.4 1,147.6 1,145.6	650.2 686.1 718.2 743.0	1,567.6 1,594.5 1,620.1 1,629.8	1,543.0 1,570.7 1,595.4 1,603.1	914.0 934.9 947.4 959.2	29.7 29.6 30.1 30.4	38.8 39.2 39.3 39.6	18.2 18.2 18.3 18.4	542.3 548.8 560.2 555.6	24.6 23.8 24.7 26.7	917.1 918.9 925.5 940.4
2007: 	1,930.9 1,982.5 2,030.9 2,056.2	1,172.2 1,206.1 1,236.2 1,242.7	758.7 776.5 794.7 813.5	1,695.7 1,699.2 1,720.6 1,737.8	1,665.3 1,667.5 1,688.0 1,704.7	981.9 997.5 1,008.8 1,009.6	31.3 31.2 32.5 34.3	41.0 41.9 42.1 42.7	18.6 18.7 18.9 19.0	592.6 578.2 585.7 599.2	30.4 31.7 32.5 33.1	959.8 959.1 966.0 975.3
2008: 	2,054.1 2,052.3 2,056.8	1,224.6 1,208.7 1,218.5	829.5 843.6 838.3	1,778.1 1,926.3 1,872.4	1,745.8 1,893.9 1,830.9	1,032.4 1,050.0 1,068.9	38.2 41.4 59.2	44.6 44.9 45.7	19.2 19.3 19.4	611.5 738.4 637.6	32.2 32.4 41.5	992.2 995.4 998.7

¹ Consists of aid to families with dependent children and, beginning in 1996, assistance programs operating under the Personal Responsibility and Work Opportunity Reconciliation Act of 1996.

Table B-30.—Disposition of personal income, 1959-2008

[Billions of dollars, except as noted; quarterly data at seasonally adjusted annual rates]

					Less: Perso	nal outlays			Pero pe	ent of disposersonal incom	sable ne ²
	Davasas	Less:	Equals: Dispos-					Equals:	Persona	l outlays	
Year or quarter	Personal income	Personal current taxes	able personal income	Total	Personal consump- tion expendi- tures	Personal interest pay- ments ¹	Personal current transfer payments	Personal saving	Total	Personal consump- tion expendi- tures	Personal saving
1959	392.8	42.3	350.5	323.9	317.6	5.5	0.8	26.7	92.4	90.6	7.6
1960 1961 1962 1963 1964 1965 1966 1966 1967	411.5 429.0 456.7 479.6 514.6 555.7 603.9 648.3 712.0 778.5	46.1 47.3 51.6 54.6 52.1 57.7 66.4 73.0 87.0 104.5	365.4 381.8 405.1 425.1 462.5 498.1 537.5 575.3 625.0 674.0	338.8 349.6 371.3 391.8 421.7 455.1 493.1 520.9 572.2 621.4	331.7 342.1 363.3 382.7 411.4 443.8 480.9 507.8 558.0 605.2	6.2 6.5 7.0 7.9 8.9 9.9 10.7 11.1 12.2 14.0	.8 1.0 1.1 1.2 1.3 1.4 1.6 2.0 2.0 2.2	26.7 32.2 33.8 33.3 40.8 43.0 44.4 54.4 52.8 52.5	92.7 91.6 91.7 92.2 91.2 91.4 91.7 90.5 91.6 92.2	90.8 89.6 89.7 90.0 89.0 89.1 89.5 88.3 89.3	7.3 8.4 8.3 7.8 8.6 8.3 9.5 8.4 7.8
1970 1971 1972 1973 1974 1975 1976 1977 1977 1978	838.8 903.5 992.7 1,110.7 1,222.6 1,335.0 1,474.8 1,633.2 1,837.7 2,062.2	103.1 101.7 123.6 132.4 151.0 147.6 172.3 197.5 229.4 268.7	735.7 801.8 869.1 978.3 1,071.6 1,187.4 1,302.5 1,435.7 1,608.3 1,793.5	666.2 721.2 791.9 875.6 958.0 1,061.9 1,180.2 1,310.4 1,465.8 1,634.4	648.5 701.9 770.6 852.4 933.4 1,034.4 1,151.9 1,278.6 1,428.5	15.2 16.6 18.1 19.8 21.2 23.7 23.9 27.0 31.9 36.2	2.6 2.8 3.1 3.4 3.4 3.8 4.4 4.8 5.4 5.9	69.5 80.6 77.2 102.7 113.6 125.6 122.3 125.3 142.5 159.1	90.6 89.9 91.1 89.5 89.4 89.4 90.6 91.3 91.1	88.1 87.5 88.7 87.1 87.1 87.1 88.4 89.1 88.8	9.4 10.1 8.9 10.5 10.6 9.4 8.7 8.9
1980	2,307.9 2,591.3 2,775.3 2,960.7 3,289.5 3,526.7 3,722.4 4,253.7 4,587.8	298.9 345.2 354.1 352.3 377.4 417.4 437.3 489.1 505.0 566.1	2,009.0 2,246.1 2,421.2 2,608.4 2,912.0 3,109.3 3,285.1 3,458.3 3,748.7 4,021.7	1,807.5 2,001.8 2,150.4 2,374.8 2,597.3 2,829.3 3,016.7 3,216.9 3,475.8 3,734.5	1,757.1 1,941.1 2,077.3 2,290.6 2,503.3 2,720.3 2,899.7 3,100.2 3,353.6 3,598.5	43.6 49.3 59.5 69.2 77.0 90.4 96.1 93.6 96.8 108.2	6.8 11.4 13.6 15.0 16.9 18.6 20.9 23.1 25.4 27.8	201.4 244.3 270.8 233.6 314.8 280.0 268.4 241.4 272.9 287.1	90.0 89.1 88.8 91.0 89.2 91.0 91.8 93.0 92.7 92.9	87.5 86.4 85.8 87.8 86.0 87.5 88.3 89.6 89.5	10.0 10.9 11.2 9.0 10.8 9.0 8.2 7.0 7.3 7.1
1990	4,878.6 5,051.0 5,362.0 5,558.5 5,842.5 6,152.3 6,520.6 6,915.1 7,423.0 7,802.4	592.8 586.7 610.6 646.6 690.7 744.1 832.1 926.3 1,027.0 1,107.5	4,285.8 4,464.3 4,751.4 4,911.9 5,151.8 5,408.2 5,688.5 5,988.8 6,395.9 6,695.0	3,986.4 4,140.1 4,385.4 4,627.9 4,902.4 5,157.3 5,460.0 5,770.5 6,119.1 6,536.4	3,839.9 3,986.1 4,235.3 4,477.9 4,743.3 4,975.8 5,256.8 5,547.4 5,879.5 6,282.5	116.1 118.5 111.8 107.3 112.8 132.7 150.3 163.9 174.5 181.0	30.4 35.6 38.3 42.7 46.3 48.9 52.9 59.2 65.2 73.0	299.4 324.2 366.0 284.0 249.5 250.9 228.4 218.3 276.8 158.6	93.0 92.7 92.3 94.2 95.2 95.4 96.0 96.4 95.7 97.6	89.6 89.3 89.1 91.2 92.1 92.0 92.4 92.6 91.9 93.8	7.0 7.3 7.7 5.8 4.8 4.6 4.0 3.6 4.3 2.4
2000	8,429.7 8,724.1 8,881.9 9,163.6 9,727.2 10,269.8 10,993.9 11,663.2	1,235.7 1,237.3 1,051.8 1,001.1 1,046.3 1,207.8 1,353.2 1,492.8	7,194.0 7,486.8 7,830.1 8,162.5 8,680.9 9,062.0 9,640.7 10,170.5	7,025.6 7,354.5 7,645.3 7,987.7 8,499.2 9,029.5 9,570.0 10,113.1	6,739.4 7,055.0 7,350.7 7,703.6 8,195.9 8,694.1 9,207.2 9,710.2	204.7 212.2 196.4 182.5 191.3 215.0 235.4 265.4	81.5 87.2 98.2 101.5 112.1 120.4 127.4 137.5	168.5 132.3 184.7 174.9 181.7 32.5 70.7 57.4	97.7 98.2 97.6 97.9 97.9 99.6 99.3 99.4	93.7 94.2 93.9 94.4 95.9 95.5 95.5	2.3 1.8 2.4 2.1 2.1 .4 .7
2005: I II IV	10,044.5 10,184.4 10,289.1 10,561.0	1,163.8 1,192.7 1,222.3 1,252.5	8,880.7 8,991.7 9,066.9 9,308.6	8,808.1 8,945.9 9,129.8 9,234.2	8,480.9 8,610.8 8,791.1 8,893.7	206.8 215.3 219.0 218.9	120.5 119.9 119.7 121.5	72.5 45.8 –62.9 74.4	99.2 99.5 100.7 99.2	95.5 95.8 97.0 95.5	.8 .5 7 .8
2006: I II IV	10,781.6 10,913.2 11,056.1 11,224.7	1,316.0 1,341.1 1,356.2 1,399.6	9,465.6 9,572.1 9,699.9 9,825.1	9,371.2 9,518.0 9,651.8 9,739.0	9,026.3 9,161.9 9,283.7 9,357.0	223.8 228.5 239.1 250.1	121.1 127.6 129.0 131.9	94.4 54.2 48.1 86.1	99.0 99.4 99.5 99.1	95.4 95.7 95.7 95.2	1.0 .6 .5 .9
2007: I II IV	11,473.0 11,577.5 11,730.4 11,872.1	1,459.5 1,489.4 1,501.6 1,520.5	10,013.5 10,088.0 10,228.8 10,351.5	9,904.2 10,056.9 10,182.0 10,309.2	9,524.9 9,657.5 9,765.6 9,892.7	244.0 262.6 278.2 276.7	135.3 136.9 138.1 139.8	109.3 31.1 46.8 42.4	98.9 99.7 99.5 99.6	95.1 95.7 95.5 95.6	1.1 .3 .5 .4
2008: <i>p</i>	11,960.5 12,152.2 12,156.8	1,535.0 1,346.1 1,473.5	10,425.5 10,806.0 10,683.3	10,404.9 10,538.2 10,567.6	10,002.3 10,138.0 10,169.5	261.7 253.8 251.1	140.8 146.4 146.9	20.6 267.9 115.7	99.8 97.5 98.9	95.9 93.8 95.2	.2 2.5 1.1

¹ Consists of nonmortgage interest paid by households. ² Percents based on data in millions of dollars.

Table B-31.—Total and per capita disposable personal income and personal consumption expenditures, and per capita gross domestic product, in current and real dollars, 1959–2008

[Quarterly data at seasonally adjusted annual rates, except as noted]

)isposable pe	ersonal incom	ie	Perso	nal consump	tion expendit	tures	Gross d		
Year or quarter	To (billions o	tal of dollars)	Per c (dol	apita ars)	To: (billions o	tal f dollars)	Per ci (doll	apita ars)	prod per c (dol	apita	Population (thou-
	Current dollars	Chained (2000) dollars	Current dollars	Chained (2000) dollars	Current dollars	Chained (2000) dollars	Current dollars	Chained (2000) dollars	Current dollars	Chained (2000) dollars	sands) 1
1959 1960 1961 1962 1963 1964	350.5 365.4 381.8 405.1 425.1 462.5	1,715.5 1,759.7 1,819.2 1,908.2 1,979.1 2,122.8	1,979 2,022 2,078 2,171 2,246 2,410	9,685 9,735 9,901 10,227 10,455 11,061	317.6 331.7 342.1 363.3 382.7 411.4	1,554.6 1,597.4 1,630.3 1,711.1 1,781.6 1,888.4	1,793 1,835 1,862 1,947 2,022 2,144	8,776 8,837 8,873 9,170 9,412 9,839	2,860 2,912 2,965 3,139 3,263 3,458	13,782 13,840 13,932 14,552 14,971 15,624	177,130 180,760 183,742 186,590 189,300 191,927
1965 1966 1967 1968 1969	498.1 537.5 575.3 625.0 674.0	2,253.3 2,371.9 2,475.9 2,588.0 2,668.7	2,563 2,734 2,895 3,114 3,324	11,594 12,065 12,457 12,892 13,163	443.8 480.9 507.8 558.0 605.2	2,007.7 2,121.8 2,185.0 2,310.5 2,396.4	2,283 2,446 2,555 2,780 2,985	10,331 10,793 10,994 11,510 11,820	3,700 4,007 4,189 4,533 4,857	16,420 17,290 17,533 18,196 18,573	194,347 196,599 198,752 200,745 202,736
1970 1971 1972 1973 1974 1975 1976 1977 1978	735.7 801.8 869.1 978.3 1,071.6 1,187.4 1,302.5 1,435.7 1,608.3 1,793.5	2,781.7 2,907.9 3,046.5 3,252.3 3,228.5 3,302.6 3,432.2 3,552.9 3,718.8 3,811.2	3,587 3,860 4,140 4,616 5,010 5,498 5,972 6,517 7,224 7,967	13,563 14,001 14,512 15,345 15,094 15,738 16,128 16,704 16,931	648.5 701.9 770.6 852.4 933.4 1,034.4 1,151.9 1,278.6 1,428.5	2,451.9 2,545.5 2,701.3 2,833.8 2,812.3 2,876.9 3,035.5 3,164.1 3,303.1	3,162 3,379 3,671 4,022 4,364 4,789 5,282 5,804 6,417 7,073	11,955 12,256 12,868 13,371 13,148 13,320 13,919 14,364 14,837 15,030	5,064 5,427 5,899 6,524 7,013 7,586 8,369 9,219 10,307 11,387	18,391 18,771 19,555 20,484 20,195 19,961 20,822 21,565 22,526 22,982	205,089 207,692 209,924 211,939 213,898 215,981 218,086 220,289 222,629 225,106
1980 1981 1982 1983 1984 1985 1986 1987 1988	2,009.0 2,246.1 2,421.2 2,608.4 2,912.0 3,109.3 3,285.1 3,458.3 3,748.7 4,021.7	3,857.7 3,960.0 4,044.9 4,177.7 4,494.1 4,645.2 4,791.0 4,874.5 5,082.6 5,224.8	8,822 9,765 10,426 11,131 12,319 13,037 13,649 14,241 15,297 16,257	16,940 17,217 17,418 17,828 19,011 19,476 19,906 20,072 20,740 21,120	1,757.1 1,941.1 2,077.3 2,290.6 2,503.3 2,720.3 2,899.7 3,100.2 3,353.6 3,598.5	3,374.1 3,422.2 3,470.3 3,668.6 3,863.3 4,064.0 4,228.9 4,369.8 4,546.9 4,675.0	7,716 8,439 8,945 9,775 10,589 11,406 12,048 12,766 13,685 14,546	14,816 14,879 14,944 15,656 16,343 17,040 17,570 17,994 18,554 18,898	12,249 13,601 14,017 15,092 16,638 17,695 18,542 19,517 20,827 22,169	22,666 23,007 22,346 23,146 24,593 25,382 26,024 26,664 27,514 28,221	227,726 230,008 232,218 234,333 236,394 238,506 240,683 242,843 245,061 247,387
1990 1991 1992 1993 1994 1995 1996 1997 1998	4,285.8 4,464.3 4,751.4 4,911.9 5,151.8 5,408.2 5,688.5 5,988.8 6,395.9 6,695.0	5,324.2 5,351.7 5,536.3 5,594.2 5,746.4 5,905.7 6,080.9 6,295.8 6,663.9 6,861.3	17,131 17,609 18,494 18,872 19,555 20,287 21,091 21,940 23,161 23,968	21,281 21,109 21,548 21,493 21,812 22,153 22,546 23,065 24,131 24,564	3,839.9 3,986.1 4,235.3 4,477.9 4,743.3 4,975.8 5,256.8 5,547.4 5,879.5 6,282.5	4,770.3 4,778.4 4,934.8 5,099.8 5,290.7 5,433.5 5,619.4 5,831.8 6,125.8 6,438.6	15,349 15,722 16,485 17,204 18,004 18,665 19,490 20,323 21,291 22,491	19,067 18,848 19,208 19,593 20,082 20,382 20,835 21,365 22,183 23,050	23,195 23,650 24,668 25,578 26,844 27,749 28,982 30,424 31,674 33,181	28,429 28,007 28,556 28,940 29,741 30,128 30,881 31,886 32,833 33,904	250,181 253,530 256,922 260,282 263,455 266,588 269,714 272,958 276,154 279,328
2000	7,194.0 7,486.8 7,830.1 8,162.5 8,680.9 9,062.0 9,640.7 10,170.5	7,194.0 7,333.3 7,562.2 7,729.9 8,008.9 8,121.4 8,407.0 8,644.0	25,472 26,235 27,167 28,053 29,563 30,576 32,222 33,667	25,472 25,697 26,238 26,566 27,274 27,403 28,098 28,614	6,739.4 7,055.0 7,350.7 7,703.6 8,195.9 8,694.1 9,207.2 9,710.2	6,739.4 6,910.4 7,099.3 7,295.3 7,561.4 7,791.7 8,029.0 8,252.8	23,862 24,722 25,504 26,476 27,911 29,335 30,773 32,144	23,862 24,215 24,632 25,073 25,750 26,290 26,835 27,319	34,759 35,490 36,326 37,671 39,796 41,913 44,046 45,707	34,759 34,659 34,866 35,403 36,356 37,080 37,750 38,148	282,433 285,372 288,215 290,964 293,644 296,373 299,199 302,087
2005: 	8,880.7 8,991.7 9,066.9 9,308.6	8,060.4 8,110.0 8,084.0 8,231.8	30,069 30,381 30,557 31,293	27,292 27,401 27,245 27,673	8,480.9 8,610.8 8,791.1 8,893.7	7,697.5 7,766.4 7,838.1 7,864.9	28,716 29,093 29,628 29,899	26,063 26,241 26,416 26,440	41,157 41,550 42,256 42,682	36,825 36,984 37,241 37,269	295,342 295,969 296,719 297,462
2006: 	9,465.6 9,572.1 9,699.9 9,825.1	8,334.2 8,360.4 8,407.1 8,526.2	31,753 32,038 32,380 32,712	27,958 27,983 28,064 28,387	9,026.3 9,161.9 9,283.7 9,357.0	7,947.4 8,002.1 8,046.3 8,119.9	30,279 30,665 30,990 31,154	26,660 26,783 26,860 27,035	43,474 43,960 44,229 44,515	37,629 37,793 37,768 37,810	298,101 298,774 299,568 300,351
2007: 	10,013.5 10,088.0 10,228.8 10,351.5	8,617.7 8,604.5 8,671.1 8,683.1	33,267 33,441 33,820 34,138	28,630 28,523 28,669 28,636	9,524.9 9,657.5 9,765.6 9,892.7	8,197.2 8,237.3 8,278.5 8,298.2	31,644 32,014 32,288 32,625	27,233 27,306 27,371 27,366	44,886 45,539 46,125 46,273	37,733 38,093 38,438 38,324	301,004 301,667 302,452 303,225
2008: I II	10,425.5 10,806.0 10,683.3	8,667.9 8,891.0 8,679.5	34,309 35,485 34,991	28,525 29,196 28,428	10,002.3 10,138.0 10,169.5	8,316.1 8,341.3 8,262.1	32,917 33,291 33,309	27,367 27,391 27,061	46,569 46,940 47,232	38,326 38,510 38,362	303,868 304,528 305,313

¹ Population of the United States including Armed Forces overseas; includes Alaska and Hawaii beginning in 1960. Annual data are averages of quarterly data. Quarterly data are averages for the period.

Source: Department of Commerce (Bureau of Economic Analysis and Bureau of the Census).

Table B-32.—Gross saving and investment, 1959-2008

[Billions of dollars, except as noted; quarterly data at seasonally adjusted annual rates]

						Gross	saving					
					Net s	aving				Consum	ption of fixe	d capital
Year or quarter	Total			Net priva	te saving		Net g	overnment s	aving			
rear or quarter	Total gross saving	Total net saving	Total	Personal saving	Undis- tributed corporate profits ¹	Wage accruals less disburse- ments	Total	Federal	State and local	Total	Private	Govern- ment
1959	106.2	53.2	46.0	26.7	19.4	0.0	7.1	3.3	3.8	53.0	38.6	14.5
1960 1961 1962 1963 1964 1965 1966 1967 1968 1969	111.3 114.3 124.9 133.2 143.4 158.5 168.7 170.5 182.0 198.3 192.7 208.9	55.8 57.1 65.7 70.8 78.4 89.1 93.1 89.0 93.6 100.4 86.0 93.9	44.3 50.2 57.9 59.7 71.0 79.2 83.1 91.4 88.4 83.7 94.0 115.8	26.7 32.2 33.8 33.3 40.8 43.0 44.4 52.8 52.5 69.5 80.6	17.6 18.1 24.1 26.4 30.1 36.2 38.7 36.9 35.6 31.2 24.6 34.8	.0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	11.5 6.9 7.8 11.1 7.4 9.9 10.0 -2.4 5.2 16.7 -8.1 -21.9	7.2 2.6 2.5 5.4 1.0 3.3 2.3 -9.4 -2.3 8.7 -15.2 -28.4	4.3 4.3 5.2 5.7 6.4 6.5 7.8 7.0 7.5 8.0 7.1 6.5	55.6 57.2 59.3 62.4 65.0 69.4 75.6 81.5 88.4 97.9 106.7 115.0	40.5 41.6 42.8 44.9 50.5 55.5 59.9 65.2 73.1 80.0 86.7	15.0 15.6 16.5 17.5 18.1 18.9 20.1 21.6 23.1 24.8 26.7 28.3 29.5
1972 1973 1974 1975 1976 1977 1978	237.5 292.0 301.5 297.0 342.1 397.5 478.0 536.7	111.0 152.7 139.0 109.2 137.0 167.5 215.7 236.6	119.8 148.3 143.4 175.8 181.3 198.5 223.5 234.9	77.2 102.7 113.6 125.6 122.3 125.3 142.5 159.1	42.9 45.6 29.8 50.2 59.0 73.2 81.0 75.7	.0 .0 .0 .0 .0	-8.8 4.4 -4.4 -66.6 -44.4 -31.0 -7.8 1.7	-24.4 -11.3 -13.8 -69.0 -51.7 -44.1 -26.5 -11.3	15.6 15.7 9.3 2.5 7.4 13.1 18.7	126.5 139.3 162.5 187.7 205.2 230.0 262.3 300.1	97.1 107.9 126.6 147.8 162.5 184.3 212.8 245.7	31.4 35.9 40.0 42.6 45.7 49.5 54.5
1980 1981 1982 1983 1984 1985 1986 1987 1988	549.4 654.7 629.1 609.4 773.4 767.5 733.5 796.8 915.0 944.7	206.5 266.6 202.2 165.6 300.9 260.7 202.2 234.9 317.4 300.4	251.3 312.3 336.2 333.7 445.0 413.4 372.0 367.4 434.0 409.7	201.4 244.3 270.8 233.6 314.8 280.0 268.4 241.4 272.9 287.1	49.9 68.0 65.4 100.1 130.3 133.4 103.7 126.1 161.1 122.6	.0 .0 .0 .0 .0 .0	-44.8 -45.7 -134.1 -168.1 -144.1 -152.6 -169.9 -132.6 -116.6 -109.3	-53.6 -53.3 -131.9 -173.0 -168.1 -175.0 -190.8 -145.0 -134.5 -130.1	8.8 7.6 -2.2 4.9 23.9 22.3 21.0 12.4 17.9 20.8	343.0 388.1 426.9 443.8 472.6 506.7 531.3 561.9 597.6 644.3	281.1 317.9 349.8 362.1 385.6 414.0 431.8 455.3 483.5 522.1	61.8 70.1 77.1 81.7 87.0 92.7 99.5 106.7 114.1
1990	940.4 964.1 948.2 962.4 1,070.7 1,184.5 1,291.1 1,461.1 1,598.7	258.0 238.2 196.3 186.0 237.1 306.2 373.0 486.6 568.6 573.0	422.7 456.1 493.0 458.6 438.9 491.1 489.0 503.3 477.8 419.0	299.4 324.2 366.0 284.0 249.5 250.9 228.4 218.3 276.8 158.6	123.3 131.9 142.7 168.1 171.8 223.8 256.9 287.9 201.7 255.3	.0 .0 -15.8 6.4 17.6 16.4 3.6 -2.9 7	-164.8 -217.9 -296.7 -272.6 -201.9 -184.9 -116.0 -16.7 90.8 154.0	-172.0 -213.7 -297.4 -273.5 -212.3 -197.0 -141.8 -55.8 38.8 103.6	7.2 -4.2 .7 .9 10.5 12.0 25.8 39.1 52.0 50.4	682.5 725.9 751.9 776.4 833.7 878.4 918.1 974.4 1,030.2 1,101.3	551.6 586.9 607.3 624.7 675.1 713.4 748.8 800.3 851.2 914.3	130.9 139.1 144.6 151.8 158.6 165.0 169.3 174.1 179.0
2000 2001 2002 2003 2004 2005 2006 2007	1,770.5 1,657.6 1,489.1 1,459.0 1,618.1 1,844.2 2,038.5 1,956.0	582.7 376.1 197.1 122.5 182.0 232.2 414.5 235.6	343.3 324.6 479.2 515.0 551.1 494.4 569.5 454.5	168.5 132.3 184.7 174.9 181.7 32.5 70.7 57.4	174.8 192.3 294.5 325.1 384.4 456.9 497.5 403.4	.0 .0 .0 15.0 -15.0 5.0 1.3 -6.3	239.4 51.5 -282.1 -392.5 -369.1 -262.2 -155.0 -218.9	189.5 46.7 –247.9 –372.1 –370.6 –291.7 –201.1 –229.3	50.0 4.8 -34.2 -20.4 1.5 29.5 46.2 10.4	1,187.8 1,281.5 1,292.0 1,336.5 1,436.1 1,612.0 1,623.9 1,720.5	990.8 1,075.5 1,080.3 1,118.3 1,206.0 1,359.7 1,356.0 1,431.1	197.0 206.0 211.6 218.2 230.2 252.3 268.0 289.4
2005: 	1,780.3 1,807.5 1,873.4 1,915.5	313.1 313.4 -33.6 335.7	550.5 544.6 311.9 570.4	72.5 45.8 –62.9 74.4	478.0 498.8 374.8 476.0	.0 .0 .0 20.0	-237.5 -231.2 -345.4 -234.7	-278.7 -269.5 -364.7 -253.8	41.2 38.3 19.3 19.1	1,467.2 1,494.1 1,907.0 1,579.8	1,225.3 1,248.0 1,641.1 1,324.4	241.9 246.1 265.9 255.4
2006: I II IV	2,034.2 2,022.8 2,005.9 2,090.9	451.6 410.3 367.6 428.7	601.9 572.1 553.8 550.1	94.4 54.2 48.1 86.1	527.5 518.0 505.6 439.0	-20.0 .0 .0 25.0	-150.4 -161.8 -186.2 -121.4	-207.9 -225.0 -218.4 -153.2	57.5 63.1 32.2 31.8	1,582.7 1,612.5 1,638.3 1,662.2	1,323.1 1,346.8 1,367.8 1,386.2	259.5 265.8 270.5 275.9
2007: I II IV	1,974.4 1,987.3 1,958.9 1,903.6	290.2 280.3 226.9 145.0	492.1 455.9 466.5 403.6	109.3 31.1 46.8 42.4	407.8 424.8 419.7 361.2	-25.0 .0 .0 .0	-202.0 -175.7 -239.5 -258.6	-225.2 -211.4 -244.3 -236.3	23.2 35.8 4.7 –22.3	1,684.3 1,707.0 1,731.9 1,758.6	1,402.1 1,420.0 1,440.1 1,462.3	282.2 287.0 291.8 296.3
2008: p	1,773.6 1,634.6 1,650.7	-4.4 -168.5 -248.9	378.7 547.9 396.1	20.6 267.9 115.7	358.1 280.0 280.4	.0 .0 .0	-383.1 -716.4 -645.0	-330.7 -649.6 -543.2	-52.4 -66.9 -101.8	1,778.0 1,803.1 1,899.7	1,477.5 1,497.4 1,587.4	300.5 305.7 312.2

¹ With inventory valuation and capital consumption adjustments. See next page for continuation of table.

Table B-32.—Gross saving and investment, 1959-2008—Continued

[Billions of dollars, except as noted; quarterly data at seasonally adjusted annual rates]

	G	ross dome	stic inves	tment, cap	ital accou		,, aata a				Addenda			
				net lendin	g, NIPA ^z		0		Cross a	o coromon				
Year or quarter	Total	Total	Gross private domes- tic invest- ment	Gross govern- ment invest- ment 3	Capital ac- count trans- actions (net) ⁴	Net lending or net borrow- ing (-), NIPA 2, 5	Statis- tical dis- crep- ancy	Gross private saving	Total	Federal	State and local	Net domes- tic invest- ment	Gross saving as a percent of gross national income	Net saving as a percent of gross national income
1959 1960 1961 1962 1963 1964 1965 1965 1965 1965 1965 1966 1967 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 19	106.7 110.4 113.8 125.3 132.4 144.2 201.5 200.5	107.8 107.2 109.5 121.4 136.7 153.8 1771.6 184.8 199.7 196.0 219.9 250.2 291.3 305.7 293.3 358.4 428.8 515.0 581.4 579.5 679.3 629.5 687.2 875.0 919.7 1,072.6 1,076.7 1,072.6 1,076.7 1,072.6 1,076.7 1,072.6 1,076.7 1,072.6 1,076.7 1,072.6 1,076.7 1,072.6 1,076.7 1,072.6 1,076.7 1,072.6 1,076.7 1,072.6 1,076.7	78.5 78.9 78.2 93.8 88.1 93.8 81.02.1 131.3 128.6 141.2 207.6 249.4 178.2 244.5 249.4 438.0 438.0 439.9 439.9 449.9 449.9 449.9 450.7 465.0 861.0 87.7 861.0 87.7 861.0 87.7 861.0 86	29.3 28.3 31.3 33.3 33.6 34.6 39.8 43.0 43.6 41.8 42.6 46.8 56.3 100.3 122.9 139.4 139.4 121.7 220.3 121.9 221.4 2262.4 286.8 304.3 356.0 372.8 397.8 397.8 397.8 381.9 381.9 381.9 381.9 381.9 381.9	-0.2 -2.2 -2.3 -3.3 -4.4 -5.5 -3.3 1.7 7.7 1.00 7.7 4.8 8.1 1.1 1.4 4.4 0.9 3.9 1.8 4.5 1.0 4.	-1.2 3.2 4.3 3.9 5.0 7.5 6.2 3.9 3.6 6.1.7 1.8 4.0 6.3 6.6 21.4 6.3 6.6 21.4 6.3 6.6 21.4 6.3 6.6 6.6 21.4 6.3 6.6 6.6 21.4 6.3 6.6 6.6 21.4 6.3 6.6 6.6 6.6 6.6 6.7 7-110.5 7-110.5 7-10.5 7-10.6 9.0 7-10.6 9.0 7-10.6 9.0 7-10.6 9.0 7-10.7 -88.0 7-10.6 9.0 7-10.7 -91.9	0.596 4.48 8.8 1.6 3.2 7.3 11.6 9.1 11.7 25.1 22.3 26.6 41.4 30.9 45.7 141.6 77.9 19.5 102.7 25.1 122.3 102.7 1	84.6 84.8 91.8 100.7 104.6 117.9 129.7 138.6 151.3 153.7 156.8 179.1 202.5 216.8 325.8 3270.0 323.6 343.8 327.8 327.0 630.3 480.5 532.4 630.3 480.5 532.4 630.3 880.6 974.3 1,042.9 1,104.9 1,	21.6.6 22.5.5 22.5.2 28.6.2 22.5.2 28.8.3 30.1 28.3 30.1 20.7 20.7 31.8 20.7 41.7 41.7 56.2 21.7 24.4 41.7 25.6 25.5 26.6 27.7 27.7 24.4 27.7 27.7 27.7 27.7 27.7	13.6 17.8 13.5 14.0 17.5 13.4 16.0 15.5 24.2 9 -11.9 -7.7 5.8 4.5 4.9 4.3 -30.3 -21.0 -1.5 15.7 -23.6 -19.4 -94.2 -132.3 -123.5 -126.9 -139.2 -141.5 -222.7 -66.7 -124.5 -222.7 158.5 -132.2 -115.7 -226.6 -134.9 -159.1 -281.7 -276.6 -192.6 -192.6 -192.6 -195.5 -117.5 -117.3	8.0 8.7 9.0 10.3 11.1 12.1 14.6 15.8 17.3 15.8 17.3 22.0 27.0 27.0 27.0 27.0 28.6 66.3 35.7 7.9 66.8 88.9 9.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13	54.8 51.6 6 52.3 6 62.2 6 65.0 6 71.7 7 96.5 1 90.1 1 96.5 1 101.8 8 104.9 9 123.7 2 113.2 7 281.2 2 202.6 6 291.2 2 202.6 6 291.2 2 202.6 6 291.2 2 202.6 6 291.2 2 202.6 6 201.2 7 243.4 4 407.3 3 336.4 4 407.3 3 350.6 6 350.6 3 350.6 3 3	20.9 21.0 20.8 21.2 21.4 21.5 20.0 20.1 18.6 19.2 21.1 20.0 18.2 18.8 19.6 20.9 21.1 17.3 19.6 16.5 16.5 16.2 17.3 16.2 16.4 17.9 17.9 17.9 18.2 17.9 17.9 17.9 17.9 17.9 17.9 17.9 17.9	10.4 10.5 10.4 11.1 11.4 11.7 12.3 10.2 10.3 8.4 9.0 9.2 6.7 7.5 8.3 8.4 9.2 9.2 4.6 5.0 6.2 4.6 5.5 5.5 4.5 6.1 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1
2006: I	1,828.1 1,775.1 1,879.6 1,891.2 1,835.1 1,896.0	2,487.0 2,587.5 2,648.4 2,680.1 2,660.6 2,599.1	2,084.2 2,174.6 2,236.7 2,253.7 2,231.7 2,159.5	402.9 412.9 411.7 426.3 428.9 439.6	1.9 1.9 6.9 4.0 2.1 2.5	-660.8 -814.2 -775.6 -793.0 -827.7 -705.6	-45.3 -140.5 -154.6 -131.7 -170.8 -194.9	1,953.0 1,894.8 1,925.1 1,918.9 1,921.6 1,936.4	-79.6 20.8 109.1 103.9 84.4 154.5	-264.9 -152.8 -104.9 -120.0 -111.7 -45.4	185.3 173.5 214.1 224.0 196.1 199.9	580.1 1,007.6 1,065.7 1,067.5 1,022.3 936.9	14.8 14.8 15.4 15.2 14.9 15.3	3 2.6 3.4 3.1 2.7 3.1
2007: I II IV	1,786.0 1,843.9 1,951.1 1,917.4	2,563.6 2,607.6 2,633.1 2,568.4	2,117.8 2,147.2 2,164.0 2,092.3	445.8 460.4 469.1 476.1	2.2 .4 2.5 2.3	-779.8 -764.2 -684.5 -653.3	-188.4 -143.4 -7.8 13.9	1,894.2 1,875.9 1,906.6 1,865.9	80.2 111.4 52.3 37.7	-115.4 -100.4 -131.8 -122.4	195.6 211.8 184.0 160.1	879.3 900.6 901.2 809.8	14.3 14.3 13.9 13.4	2.1 2.0 1.6 1.0
2008: ^p	1,837.0 1,771.2 1,811.3	2,530.0 2,493.8 2,517.4	2,056.1 2,000.9 2,013.6	473.9 492.8 503.8	2.4 2.6	-695.4 -725.2	63.4 136.6 160.5	1,856.2 2,045.3 1,983.5	-82.6 -410.7 -332.8	-215.8 -532.7 -423.9	133.1 122.0 91.2	752.0 690.7 617.7	12.5 11.5 11.5	.0 -1.2 -1.7

<sup>National income and product accounts (NIPA).
For details on government investment, see Table B–20.
Consists of capital transfers and the acquisition and disposal of nonproduced nonfinancial assets.
Prior to 1982, equals the balance on current account, NIPA (see Table B–24).</sup>

Table B-33.—Median money income (in 2007 dollars) and poverty status of families and people, by race, selected years, 1994-2007

			Fami	lies ¹	<u> </u>	3, 1)).			Madian	money inco	me lin 200	7 dollare)
				Below pov	verty level		People povert		of pe	money inco eople 15 ye with in	ars old and come ²	over
Year	Number	Median money income	То	tal	Fem house				Ma			nales
	(mil- lions)	(in 2007 dol- lars) ²	Number (mil- lions)	Percent	Number (mil- lions)	Percent	Number (mil- lions)	Percent	All people	Year- round full-time workers	All people	Year- round full-time workers
ALL RACES 1994 1995 1996 1997 1998 19993 20004 2001 2002 2003 2045 2005 2007	69.3 69.6 70.2 70.9 71.6 73.2 73.8 74.3 75.6 76.2 77.4 78.5 77.9	\$53,653 54,863 55,663 57,407 59,372 60,764 61,083 60,206 59,563 59,382 59,382 59,683 60,064 61,355	8.1 7.5 7.7 7.3 7.2 6.8 6.4 6.8 7.2 7.6 7.8 7.7 7.7	11.6 10.8 11.0 10.3 10.0 9.3 8.7 9.2 9.6 10.0 10.2 9.9 9.8 9.8	4.2 4.1 4.2 4.0 3.6 3.3 3.5 3.6 3.9 4.0 4.1 4.1	34.6 32.4 32.6 31.6 29.9 27.8 25.4 26.5 28.0 28.3 28.7 28.3	38.1 36.4 36.5 35.6 32.8 31.6 32.9 34.6 35.9 37.0 37.0 36.5 37.3	14.5 13.8 13.7 13.3 12.7 11.9 11.3 12.1 12.5 12.7 12.6 12.3 12.5	\$30,049 30,480 31,363 32,475 33,654 33,963 34,126 34,082 33,698 33,743 33,217 33,180 33,196	\$43,734 43,499 44,133 45,402 46,052 46,602 46,826 47,005 46,689 45,738 44,807 46,233 46,224	\$15,863 16,387 16,863 17,650 18,331 19,044 19,340 19,458 19,376 19,457 19,393 19,729 20,582 20,922	\$32,186 32,121 32,812 33,527 34,115 34,054 35,065 35,627 35,684 35,584 35,521 35,982 36,167
WHITE 1994 1995 1996 1997 1998 19993 20004 2001	58.4 58.9 58.9 59.5 60.1 61.1 61.3 61.6	56,561 57,612 58,895 60,222 62,276 63,562 63,849 63,321	5.3 5.0 5.1 5.0 4.8 4.4 4.3 4.6	9.1 8.5 8.6 8.4 8.0 7.3 7.1 7.4	2.3 2.2 2.3 2.3 2.1 1.9 1.8	29.0 26.6 27.3 27.7 24.9 22.5 21.2 22.4	25.4 24.4 24.7 24.4 23.5 22.2 21.6 22.7	11.7 11.2 11.2 11.0 10.5 9.8 9.5 9.9	31,362 32,281 32,830 33,638 35,120 35,669 35,877 35,416	44,880 45,276 45,716 46,523 47,251 48,795 48,466 47,771	16,090 16,638 17,055 17,765 18,569 19,104 19,360 19,502	33,056 32,779 33,369 34,095 34,685 34,843 36,062 36,129
Alone 6 2002	62.3 62.6 63.1 63.4 64.1 63.6	62,966 62,871 62,264 63,000 63,018 64,427	4.9 5.1 5.3 5.1 5.1 5.0	7.8 8.1 8.4 8.0 8.0 7.9	2.0 2.2 2.3 2.3 2.4 2.3	22.6 24.0 24.7 25.3 25.1 24.7	23.5 24.3 25.3 24.9 24.4 25.1	10.2 10.5 10.8 10.6 10.3 10.5	35,018 34,646 34,407 34,177 34,803 35,141	47,686 47,509 46,757 46,409 47,236 47,235	19,406 19,641 19,428 19,828 20,652 21,069	36,190 36,292 35,929 36,217 36,533 36,728
Alone or in combination ⁶ 2002	63.0 63.5 64.0 64.3 65.0 64.4	62,754 62,686 62,113 62,795 62,934 64,234	5.0 5.2 5.4 5.2 5.2 5.2	7.9 8.1 8.5 8.1 8.0 8.0	2.1 2.2 2.3 2.4 2.4 2.4	22.6 24.2 24.8 25.5 25.0 24.8	24.1 25.0 26.1 25.6 25.2 25.9	10.3 10.6 10.9 10.7 10.4 10.6	34,940 34,563 34,331 34,096 34,628 35,031	47,618 47,438 46,637 46,244 47,169 47,168	19,368 19,606 19,395 19,775 20,607 21,011	36,176 36,278 35,887 36,142 36,497 36,694
BLACK 1994 1995 1996 1997 1998 19993 20004 2001	8.1 8.1 8.5 8.4 8.5 8.7 8.7 8.8	34,169 35,084 34,900 36,841 37,353 39,634 40,547 39,348	2.2 2.1 2.2 2.0 2.0 1.9 1.7	27.3 26.4 26.1 23.6 23.4 21.8 19.3 20.7	1.7 1.7 1.7 1.6 1.6 1.5 1.3	46.2 45.1 43.7 39.8 40.8 39.2 34.3 35.2	10.2 9.9 9.7 9.1 9.1 8.4 8.0 8.1	30.6 29.3 28.4 26.5 26.1 23.6 22.5 22.7	20,727 21,623 21,701 23,309 24,544 25,436 25,698 25,140	33,763 33,500 35,708 34,645 34,899 37,523 36,710 37,384	14,587 14,808 15,491 16,807 16,688 18,387 19,121 19,069	28,538 28,476 28,937 29,322 30,315 31,285 31,004 31,969
Alone ⁶ 2002	8.9 8.9 8.9 9.1 9.3 9.3	38,639 38,746 38,582 37,666 39,355 40,143	1.9 2.0 2.0 2.0 2.0 2.0	21.5 22.3 22.8 22.1 21.6 22.1	1.4 1.5 1.5 1.5 1.5	35.8 36.9 37.6 36.1 36.6 37.3	8.6 8.8 9.0 9.2 9.0 9.2	24.1 24.4 24.7 24.9 24.3 24.5	24,850 24,786 24,907 24,059 25,775 25,822	36,803 37,687 34,819 36,358 36,483 36,736	19,281 18,693 19,055 18,726 19,645 19,752	31,839 31,140 31,992 32,248 31,814 31,591
Alone or in combination ⁶ 2002 2003 2004 ⁵ 2005 2006 2007	9.1 9.1 9.3 9.5 9.5	38,764 39,015 38,772 37,804 39,613 40,222	2.0 2.0 2.1 2.1 2.0 2.1	21.4 22.1 22.8 22.0 21.5 22.0	1.5 1.5 1.5 1.5 1.5	35.7 36.8 37.6 36.2 36.4 37.2	8.9 9.1 9.4 9.5 9.4 9.7	23.9 24.3 24.7 24.7 24.2 24.4	24,790 24,729 24,932 24,013 25,786 25,792	36,842 37,726 34,809 36,264 36,517 36,780	19,214 18,647 19,042 18,687 19,606 19,712	31,929 31,200 32,045 32,251 31,863 31,672

¹ The term "family" refers to a group of two or more persons related by birth, marriage, or adoption and residing together. Every family must include a reference person.

Current dollar median money income adjusted by consumer price index research series (CPI-U-RS).
 Reflects implementation of Census 2000—based population controls comparable with succeeding years.

⁴ Reflects household sample expansion.

For 2004, figures are revised to reflect a correction to the weights in the 2005 Annual Social and Economic Supplement.

6 Data are for "white alone," for "white alone or in combination," for "black alone," and for "black alone or in combination." ("Black" is also "black or African American.") Beginning with data for 2002 the Current Population Survey allowed respondents to choose more than one race; for earlier years respondents could report only one race group.

Note.—Poverty thresholds are updated each year to reflect changes in the consumer price index (CPI-U).

For details see publication Series P–60 on the Current Population Survey and Annual Social and Economic Supplements.

Source: Department of Commerce (Bureau of the Census).

Population, Employment, Wages, and Productivity

Table B-34.—Population by age group, 1929-2008

[Thousands of persons]

						Age (years)			
	July 1	Total	Under 5	5–15	16–19	20–24	25-44	45-64	65 and over
1929		121,767	11,734	26,800	9,127	10,694	35,862	21,076	6,474
1933		125,579	10,612	26,897	9,302	11,152	37,319	22,933	7,363
1939		130,880	10,418	25,179	9,822	11,519	39,354	25,823	8,764
1940		132,122	10,579	24,811	9,895	11,690	39,868	26,249	9,031
1941		133,402	10,850	24,516	9,840	11,807	40,383	26,718	9,288
194Z 1943		134,860 136.739	11,301 12,016	24,231 24,093	9,730 9.607	11,955 12,064	40,861 41.420	27,196 27,671	9,584 9.867
1944		138,397	12.524	23,949	9,561	12,062	42,016	28,138	10.147
1945		139,928 141,389	12,979 13,244	23,907	9,361	12,036	42,521	28,630 29,064	10,494 10,828
1940		144,126	14,406	24,103 24,468	9,119 9,097	12,004 11,814	43,027 43,657	29,498	11,185
1948		146,631	14,919	25.209	8,952	11,794	44,288	29,931	11.538
		149,188	15,607	25,852	8,788	11,700	44,916	30,405	11,921
1950 . 1051		152,271 154,878	16,410 17,333	26,721 27,279	8,542 8.446	11,680 11,552	45,672 46,103	30,849 31,362	12,397 12,803
1952		157,553	17,312	28.894	8,414	11,350	46,495	31,884	13.203
1953		160,184	17,638	30,227	8,460	11,062	46,786	32,394	13,617
1954 . 1955		163,026 165,931	18,057 18,566	31,480 32,682	8,637 8,744	10,832 10,714	47,001 47,194	32,942 33,506	14,076 14,525
1956		168,903	19,003	33,994	8,916	10,616	47,379	34,057	14,938
195/		171,984	19,494	35,272	9,195	10,603	47,440	34,591	15,388
1958 1959		174,882 177,830	19,887 20,175	36,445 37,368	9,543 10,215	10,756 10,969	47,337 47,192	35,109 35,663	15,806 16,248
		180,671	20,341	38,494	10,683	11,134	47,140	36,203	16,675
1961		183,691	20,522	39,765	11,025	11.483	47,084	36,722	17,089
1962		186,538 189,242	20,469 20,342	41,205 41,626	11,180 12,007	11,959 12,714	47,013 46,994	37,255 37,782	17,457 17,778
1964		191,889	20,165	42.297 l	12,736	13.269 l	46,958	38,338	18,127
1965		194,303	19,824	42,938	13,516	13,746	46,912	38,916	18,451
1966 . 1967		196,560 198,712	19,208 18,563	43,702 44,244	14,311 14,200	14,050 15,248	47,001 47,194	39,534 40,193	18,755 19,071
1968		200,706	17,913	44,622	14,452	15.786	47,721	40,846	19,365
		202,677	17,376	44,840	14,800	16,480	48,064	41,437	19,680
1970 . 1971		205,052 207,661	17,166 17,244	44,816 44,591	15,289 15,688	17,202 18,159	48,473 48,936	41,999 42,482	20,107 20,561
1972		209,896	17,101	44,203	16,039	18,153	50,482	42,898	21.020
1973		211,909	16,851	43,582 42,989	16,446 16,769	18,521	51,749	43,235 43,522	21,525 22,061
1974		213,854 215,973	16,487 16,121	42,508	17,017	18,975 19,527	53,051 54,302	43,822	22,696
1976		218,035	15,617	42,099	17,194	19,986	55,852	44,008	23,278
1977 . 1070		220,239 222,585	15,564 15,735	41,298	17,276 17,288	20,499 20,946	57,561	44,150 44,286	23,892 24,502
1979		225,055	16,063	40,428 39,552	17,242	21,297	59,400 61,379	44,390	25,134
1980		227,726	16.451	38,838	17,167	21.590	63,470	44.504	25,707
1981		229,966	16,893	38,144	16,812	21,869	65,528	44,500	26,221
198Z 1983		232,188 234,307	17,228 17,547	37,784 37,526	16,332 15,823	21,902 21,844	67,692 69,733	44,462 44,474	26,787 27,361
1984 .		236,348	17,695	37,461	15,295	21,/3/	71,735	44,547	27,878
1985		238,466 240,651	17,842 17,963	37,450 37,404	15,005 15,024	21,478 20,942	73,673 75,651	44,602 44,660	28,416 29,008
1987		242,804	18,052	37,333	15.215 I	20,342	77,338	44,854	29,626
1988		245,021	18,195	37.593 I	15.198 l	19,846	78,595	45,471	30,124
		247,342	18,508	37,972	14,913 14,466	19,442	79,943	45,882	30,682
1990		250,132 253.493	18,856 19,208	38,632 39,349	13,992	19,323 19,414	81,291 82.844	46,316 46.874	31,247 31,812
1992		256,894	19.528	40.161	13 781	19.314	83,201	48.553	32.356
1993 . 100 <i>1</i>		260,255 263,436	19,729 19,777	40,904 41,689	13,953 14,228	19,101 18,758	83,766 84,334	49,899 51,318	32,902 33,331
1995		266.557	19,627	42,510	14,522	18.391	84,933	52,806	33,769
1996		269,667 272,912	19,408	43,172	15,057	17,965 17,992	85,527	54.396	34,143
1997 1998		272,912 276,115	19,233 19,145	43,833 44,332	15,433 15,856	17,992	85,737 85,663	56,283 58,249	34,402 34,619
1999		279,295	19,136	44,755	16,164	18,672	85,408	60,362	34,798
2000		282,407	19,187	45,156	16,215	19,190	85,163	62,419	35,078
2001 2002		285,339 288,189	19,350 19,537	45,188 45,148	16,258 16,316	19,871 20,399	84,926 84,641	64,416 66,560	35,330 35,588
2003		290,941	19,774	45,073	16,368	20,814	84,330	68,634	35,949
ZUU4 .		293,609	20,060	44,923	16,518	21,020	84,123	70,668	36,297
/UU5		296,329 299,157	20,300 20,452	44,754 44,581	16,654 16,969	21,096 21,135	83,976 83,966	72,802 74,802	36,746 37,253
2007		302,045	20,724	44,429	17,224	21,182	83,993	76,605	37,253 37,888
2008		304,906	20,996	44,378	17,363	21,294	84,031	78,075	38,770

Note.—Includes Armed Forces overseas beginning with 1940. Includes Alaska and Hawaii beginning with 1950. All estimates are consistent with decennial census enumerations.

Source: Department of Commerce (Bureau of the Census).

Table B-35.—Civilian population and labor force, 1929-2008

[Monthly data seasonally adjusted, except as noted]

				vilian labor for	my adjusted,	олоорт аз по	ncuj			
	Civilian noninsti-		01	Employment			Not in	Civilian labor force	Civilian employ-	Unemploy- ment
Year or month	tutional population ¹	Total	Total	Agricultural	Non- agricultural	Un- employ- ment	labor force	participa- tion rate ²	ment/ population ratio ³	rate, civilian workers ⁴
		Th	ousands of pe	rsons 14 years	s of age and ov	/er			Percent	
1929		49,180	47,630	10,450	37,180	1,550				3.2
		51,590 55,230	38,760 45,750	10,090 9,610	28,670 36,140	12,830 9,480				24.9 17.2
1940	99,840	55,640	47,520	9.540	37,980	8.120	44,200	55.7	47.6	146
1941 1942	99,900 98,640	55,910 56,410	50,350 53,750	9,100 9,250	41,250 44,500	5,560 2,660	43,990 42,230	56.0 57.2	50.4 54.5	9.9 4.7
1943 1944	94,640 93,220	55,540 54,630	54,470 53,960	9,080 8,950	45,390 45,010	1,070 670	39,100 38,590	58.7 58.6	57.6 57.9	1.9 1.2
1945 1946	94,090 103,070	53,860 57,520	52,820 55,250	8,580 8,320	44,240 46,930	1,040 2,270	40,230 45,550	57.2 55.8	56.1 53.6	1.9 3.9
1947	106,018	60,168	57,812	8,256	49,557	2,356	45,850	56.8	54.5	3.9
4047	404.007				s of age and ov		40.477	50.0	50.0	
1947 1948 1949	101,827 103,068 103,994	59,350 60,621 61,286	57,038 58,343 57,651	7,890 7,629 7,658	49,148 50,714 49,993	2,311 2,276 3,637	42,477 42,447 42,708	58.3 58.8 58.9	56.0 56.6 55.4	3.9 3.8 5.9
1950 1951	104,995 104,621	62,208 62,017	58,918 59,961	7,160 6,726	51,758 53,235	3,288 2,055	42,787 42,604	59.2 59.2	56.1 57.3	5.3 3.3 3.0 2.9
1952 1953 ⁵ 1954	105,231 107,056	62,138 63,015	60,250 61,179	6,500 6,260	53,749 54,919	1,883 1,834	43,093 44,041	59.0 58.9	57.3 57.1	3.0 2.9
1954 1955	108,321 109,683	63,643 65,023	60,109 62,170	6,205 6,450	53,904 55,722	3,532 2,852	44,678 44,660	58.8 59.3	55.5 56.7	5.5 4.4
1956 1957	110,954 112,265	66,552 66,929	63,799 64,071	6,283 5,947	57,514 58,123	2,750 2,859	44,402 45,336	60.0 59.6	57.5 57.1	4.1 4.3
1958 1959	113,727 115,329	67,639 68,369	63,036 64,630	5,586 5,565	57,450 59,065	4,602 3,740	46,088 46,960	59.5 59.3	55.4 56.0	6.8 5.5
1960 5	117,245 118,771	69,628 70,459	65,778 65,746	5,458 5,200	60,318 60,546	3,852 4,714	47,617 48,312	59.4 59.3	56.1 55.4	5.5 6.7
1961 1962 ⁵ 1963	120.153	70,614 71,833	66.702	4,944 4,687	61,759 63,076	3,911 4,070	49.539	58.8 58.7	55.5 55.4	5.5 5.7
1904	122,416 124,485	73,091	67,762 69,305	4,523	64,782	3,786	50,583 51,394	58.7	55.7	5.2
1965 1966	126,513 128,058	74,455 75,770 77,347	71,088 72,895 74,372	4,361 3,979	66,726 68,915 70,527	3,366 2,875 2,975	52,058 52,288 52,527	58.9 59.2	56.2 56.9	4.5 3.8 3.8
1967 1968	129,874 132,028 134,335	77,347 78,737 80,734	74,372 75,920 77,902	3,844 3,817 3,606	70,527 72,103 74,296	2,817 2,832	52,527 53,291 53,602	59.6 59.6 60.1	57.3 57.5 58.0	3.6 3.5 3.5
1969 1970	137,085	82,771	78,678	3,463	75,215	4,093	54,315	60.4	57.4	4.9
1977 1972 ⁵ 1973 ⁵ 1974	140,216 144,126	84,382 87,034	79,367 82,153	3,394 3,484	75,972 78,669	5,016 4,882	55,834 57,091	60.2 60.4	56.6 57.0	5.9 5.6
	147,096 150,120	89,429 91,949	85,064 86,794	3,470 3,515	81,594 83,279	4,365 5,156	57,667 58,171	60.8 61.3	57.8 57.8	4.9 5.6
1975 1976	153,153 156,150	93,775 96,158	85,846 88,752	3,408 3,331	82,438 85,421	7,929 7,406	59,377 59,991	61.2 61.6	56.1 56.8	8.5 7.7
1976 1977 1978 ⁵ 1979	159,033 161,910	99,009 102,251	92,017 96,048	3,283 3,387	88,734 92,661	6,991 6,202	60,025 59,659	62.3 63.2	57.9 59.3	7.1 6.1
1980	164,863 167,745	104,962 106,940	98,824 99,303	3,347 3,364	95,477 95,938	6,137 7,637	59,900 60,806	63.7 63.8	59.9 59.2	5.8 7.1
1981 1982	170,130 172,271 174,215	108,670 110,204	100,397 99,526	3,368 3,401	97,030 96,125	8,273 10,678	61,460 62,067	63.9 64.0	59.0 57.8	7.6 9.7
1984	174,215 176,383	111,550 113,544	100,834 105,005	3,383 3,321	97,450 101,685	10,717 8,539	62,665 62,839	64.0 64.4	57.9 59.5	9.6 7.5
1985 1986 ⁵	178,206 180,587	115,461 117,834	107,150 109,597	3,179 3,163	103,971 106,434	8,312 8,237	62,744 62,752 62,888	64.8 65.3	60.1 60.7	7.2 7.0
1986 ⁵ 1987 1988	182,753 184,613	119,865 121,669	112,440 114,968	3,208 3,169	109,232 111,800	7,425 6,701	62,944	65.6 65.9	61.5 62.3	6.2 5.5
1989 1990 ⁵	186,393 189,164	123,869 125,840	117,342 118,793	3,199 3,223	114,142 115,570	6,528 7.047	62,523 63,324	66.5 66.5	63.0 62.8	5.3 5.6
1990 ⁵ 1991 1992	190,925 192,805	126,346 128,105	117,718	3,269 3,247	114,449	8,628 9,613	64,578 64,700	66.2 66.4	61.7 61.5	6.8 7.5
1993 1994 ⁵	194,838 196,814	129,200 131,056	118,492 120,259 123,060	3,115 3,409	115,245 117,144 119,651	8,940 7,996	65,638 65,758	66.3 66.6	61.7 62.5	6.9 6.1
1995 1996	198,584 200,591	132,304 133,943	124,900 126,708	3,440 3,443	121,460 123,264	7,404 7,236	66,280 66,647	66.6 66.8	62.9 63.2	5.6 5.4
1997 ⁵ 1998 ⁵	203,133 205,220	136,297 137,673	129,558 131,463	3,399 3,378	126,159 128,085	6,739 6,210	66,837 67,547	67.1 67.1	63.8 64.1	4.9 4.5
1999 5	207,753	139,368	133,488	3,281	130,207	5,880	68,385	67.1	64.3	4.2

See next page for continuation of table.

Not seasonally adjusted.
 Civilian labor force as percent of civilian noninstitutional population.
 Civilian employment as percent of civilian noninstitutional population.
 Unemployed as percent of civilian labor force.

Table B-35.—Civilian population and labor force, 1929-2008—Continued

[Monthly data seasonally adjusted, except as noted]

				vilian labor for	ce		,			
Year or month	Civilian noninsti-			Employment		Ha	Not in labor	Civilian labor force	Civilian employ- ment/	Unemploy- ment rate,
real of month	tutional population ¹	Total	Total	Agricultural	Non- agricultural	Un- employ- ment	force	participa- tion rate ²	population ratio ³	civilian workers ⁴
		Th	ousands of pe	rsons 16 years	of age and ov	/er			Percent	
2000 5, 6 2001	212,577 215,092 217,570 221,168 223,357 226,082 228,815 231,867	142,583 143,734 144,863 146,510 147,401 149,320 151,428 153,124	136,891 136,933 136,485 137,736 139,252 141,730 144,427 146,047	2,464 2,299 2,311 2,275 2,232 2,197 2,206 2,095	134,427 134,635 134,174 135,461 137,020 139,532 142,221 143,952	5,692 6,801 8,378 8,774 8,149 7,591 7,001 7,078	69,994 71,359 72,707 74,658 75,956 76,762 77,387 78,743	67.1 66.8 66.6 66.2 66.0 66.0 66.2	64.4 63.7 62.7 62.3 62.3 62.7 63.1 63.0	4.0 4.7 5.8 6.0 5.5 5.1 4.6 4.6
2005: Jan 5 Feb Mar Apr May June July Aug Sept Oct Nov Dec	224,837 225,041 225,236 225,441 225,670 225,911 226,153 226,693 226,959 227,204 227,425	147,981 148,308 148,915 148,912 149,276 149,244 149,479 149,826 150,022 150,061 150,099 150,041	140,224 140,354 140,563 141,294 141,708 142,055 142,457 142,613 142,664 142,778	2,115 2,134 2,183 2,240 2,220 2,308 2,299 2,184 2,176 2,184 2,175 2,184 2,175	138,099 138,198 138,402 139,037 139,364 139,236 139,804 140,306 140,337 140,483 140,483	7,757 7,954 7,732 7,669 7,679 7,536 7,424 7,369 7,593 7,449 7,535 7,262	76,856 76,733 76,942 76,528 76,394 76,667 76,674 76,671 76,897 77,105 77,384	65.8 65.9 65.8 66.1 66.1 66.1 66.2 66.2 66.1 66.1 66.1	62.4 62.4 62.7 62.7 62.7 62.8 62.9 62.8 62.8 62.8 62.7 62.8	5.2 5.4 5.2 5.1 5.0 5.0 4.9 5.1 5.0 4.8
2006: Jan 5	227,553 227,763 227,975 228,199 228,428 228,671 229,167 229,420 229,675 229,905 230,108	150,111 150,505 150,694 150,904 151,126 151,386 151,471 151,799 151,741 152,130 152,403	143,086 143,362 143,619 143,791 144,088 144,369 144,671 144,846 145,395 145,583 145,949	2,169 2,193 2,165 2,235 2,191 2,267 2,264 2,235 2,166 2,163 2,163 2,257	140,901 141,118 141,451 141,557 141,859 142,006 142,116 142,492 142,742 143,256 143,384 143,670	7,025 7,143 7,075 7,113 7,038 7,017 7,176 6,896 6,735 6,820 6,760	77,442 77,258 77,280 77,296 77,302 77,442 77,369 77,678 77,545 77,545 77,502 77,399	66.0 66.1 66.1 66.2 66.2 66.2 66.1 66.2 66.3 66.3	62.9 62.9 63.0 63.1 63.1 63.1 63.3 63.3 63.3	4.7 4.7 4.7 4.7 4.7 4.6 4.7 4.5 4.4 4.5 4.4
2007: Jan 5 Feb Mar Apr May June July Aug Sept Oct Nov Dec	230,650 230,834 231,034 231,253 231,480 231,713 231,958 232,211 232,461 232,715 232,939 233,156	152,958 152,725 152,884 152,746 153,085 153,182 152,886 153,306 153,306 153,366	145,915 145,888 146,145 145,713 145,913 146,087 146,045 145,753 146,260 146,016 146,647 146,211	2,225 2,327 2,202 2,053 2,081 1,957 1,997 1,856 2,065 2,089 2,148 2,248	143,691 143,535 143,966 143,678 143,799 144,066 144,259 143,933 144,503 143,933	7,043 6,837 6,738 6,829 6,863 6,997 7,137 7,133 7,246 7,291 7,181	77,692 78,110 78,150 78,711 78,704 78,628 78,776 79,325 78,955 79,409 79,111 79,290	66.3 66.2 66.0 66.0 66.1 66.0 65.8 66.0 65.9 66.0	63.3 63.2 63.3 63.0 63.0 63.0 62.8 62.9 62.7 63.0 62.7	4.6 4.5 4.4 4.5 4.5 4.6 4.7 4.7 4.7 4.8 4.7 5.0
2008: Jan ⁵	232,616 232,809 232,995 233,198 233,405 233,627 233,864 234,107 234,360 234,612 234,828	153,824 153,374 153,784 153,957 154,534 154,603 154,663 154,732 155,038 154,616	146,248 145,993 145,969 146,331 146,046 145,891 145,819 145,477 145,255 144,958 144,285	2,213 2,213 2,192 2,109 2,122 2,137 2,123 2,142 2,189 2,167 2,203	144,052 143,820 143,796 144,258 143,898 143,650 143,589 143,284 143,064 142,773 142,015	7,576 7,381 7,815 7,626 8,487 8,499 8,784 9,376 9,477 10,080 10,331	78,792 79,436 79,211 79,241 78,871 79,237 79,261 79,253 79,628 79,575 80,212	66.1 65.9 66.0 66.2 66.1 66.1 66.0 66.1 65.8	62.9 62.7 62.6 62.7 62.6 62.4 62.1 62.0 61.8 61.4	4.9 4.8 5.1 5.5 5.5 5.7 6.1 6.1 6.5

Source: Department of Labor (Bureau of Labor Statistics).

⁵ Not strictly comparable with earlier data due to population adjustments or other changes. See Employment and Earnings or population control adjustments to the Current Population Survey (CPS) at http://www.bls.gov/cps/documentation.htm#concepts for details on breaks in series.
6 Beginning in 2000, data for agricultural employment are for agricultural and related industries; data for this series and for nonagricultural employment are not strictly comparable with data for earlier years. Because of independent seasonal adjustment for these two series, monthly data will not add to total civilian

Note.—Labor force data in Tables B-35 through B-44 are based on household interviews and relate to the calendar week including the 12th of the month. For definitions of terms, area samples used, historical comparability of the data, comparability with other series, etc., see Employment and Earnings or population control adjustments to the CPS at http://www.bls.gov/cps/documentation.htm#concepts.

Table B-36.—Civilian employment and unemployment by sex and age, 1960-2008

[Thousands of persons 16 years of age and over; monthly data seasonally adjusted]

		[THOU		an employ		or ago an	u ovoi, iii	onany da		nany adju Ur	nemploym	ent		
			Males			Females				Males			Females	
Year or month	Total	Total	16–19 years	20 years and over	Total	16–19 years	20 years and over	Total	Total	16–19 years	20 years and over	Total	16–19 years	20 years and over
1960	65,778 65,746 66,746 66,740 67,762 69,305 74,372 75,920 77,902 77,902 77,902 78,2153 85,064 86,794 86,794 86,794 88,752 92,017 96,048 98,824 99,526 92,017 96,048 98,824 91,17 91,18 91,18 91,14	43,904 43,656 44,657 44,657 44,637 48,919 47,479 48,114 48,818 53,024 53,024 53,024 53,025 53,024 55,739 557,397 557,507 57,397 56,271 56,787 57,397 56,273 64,315 64,223 64,449 66,450 67,373 64,315 65,166 65,067 67,07 69,683 71,446 73,305 74,524 75,973 73,302 74,524 75,973 77,502 78,221 78,221 78,224 78,224 78,224 78,224 78,254	2,361 2,315 2,362 2,406 2,5918 3,255 3,430 3,478 3,478 3,478 3,478 4,103 4,103 3,478 4,103 3,947 4,336 4,300 3,322 3,323 3,323 3,323 3,323 3,323 3,477 3,044 2,944 2,944 3,156 3,685	0ver 41,543 41,342 41,815 42,251 42,856 42,251 43,668 44,284 44,859 45,388 44,294 44,859 52,243 56,388 55,289 55,769 55,769 55,769 56,765 66,284 64,085 66,284 67,713,50 67,761 69,674 66,284 70,415 70,415 77,30,50 77,51,48	21,874 22,992 23,105 23,105 23,105 24,748 25,976 29,084 25,976 31,257 32,715 33,768 31,257 32,715 33,768 31,257 34,256 41,217 42,117 42,117 42,117 42,117 42,117 42,117 45,915 48,706 50,334 40,047 45,915 53,689 41,052 54,910 56,610 57,525 66,757 63,580 64,728 65,757 62,042 63,780 64,792 67,792 67,792 67,794	1,768 8,1,783 1,849 1,929 2,118 8,2498 8,2526 2,735 2,730 3,251 3,345 3,734 3,783 3,784 3,783 3,784 3,783 3,784 3,783 3,784 3,783 3,784 3,783 3,784 3,784 3,785 3,	0ver 20,105 20,296 20,693 21,257 21,903 21,2630 22,630 22,4397 25,281 26,397 25,281 26,397 25,281 26,397 25,281 26,397 27,246 30,424 33,775 35,836 37,434 40,886 41,004 42,783 49,745 51,328 56,613 51,311 56,613 56,613 56,613 56,613 56,613 66,702 66,702 66,702 66,703 6	3,852 4,714 3,911 4,070 3,786 2,875 2,817 2,832 4,365 5,156 6,202 6,137 7,425 6,202 6,137 7,425 8,233 10,678 8,278 10,678 8,278 8,278 10,678 8,278 8,	2,486 6,2997 2,2423 2,2423 2,2423 2,2423 2,2423 2,2423 2,2423 2,2424 2,242 2,242 2,242 2,242 2,242 2,242 2,242 2,243 2,244 2,2	426 479 408 501 487 479 432 448 426 440 599 693 711 653 757 874 811 913 811 913 812 806 779 732 667 658 667 751 806 806 779 732 667 653 757 668 667 664 667 664 667 662 662 662 663 663 664 667 664 665 667 664 667 664 667 665 666 667 6664 667 667	0ver 2,060 0x2,518 8x2,010 1,971 1,778 1,170 0x3,011 1,778 1,170 0x3,011 1,435 1,100 0x3,011 1,624 1,1957 5,089 2,987 2,987 2,987 3,375 1	1,366 1,777 1,488 1,588 1,581 1,581 1,482 1,327 1,429 1,429 1,429 2,227	286 349 313 383 385 395 405 391 412 413 506 568 588 588 789 743 755 800 886 687 687 681 675 616 558 687 687 687 687 687 687 687 687 687 68	0ver 1,080 1,368 1,175 1,216 1,195 1,056 921 1,078 985 1,015 985 1,015 1,658 1,652 1,507 1,777 2,588 2,535 2,634 2,588 2,335 3,107 3,129 3,032 2,709 2,487 2,467 2,596 3,613 3,074 3,469 3,288 3,049 2,178 3,074 3,469 3,288 3,314 3,288 3,314 3,314 3,288 3,314 3,2783 2,783
Mar Apr Apr June July Aug Sept Oct May June Dec 2008: Jan Feb Mar Apr June July Aug Sept Oct Nov Dec Cot Nov Nov Dec Cot Nov	146,185 145,713 145,713 146,087 146,045 146,753 146,211 146,241 146,241 146,241 146,241 146,331 145,993 145,899 145,819 145,477 145,258 144,285	78,184 78,297 78,297 78,277 78,243 78,237 78,066 78,229 78,177 78,604 78,260 78,113 77,954 77,794 77,794 77,794 77,795 77,632 77,396 77,108	3,036 3,011 3,013 2,934 2,951 2,914 2,792 2,897 2,973 2,761 2,751 2,751 2,752 2,766	75,146 75,279 75,343 75,322 75,324 75,324 75,274 75,327 75,274 75,499 75,427 75,148 75,094 74,836 74,631 74,441 74,138	67,704 67,849 67,845 67,845 67,887 68,030 67,851 68,043 67,951 68,092 68,092 68,092 67,845 67,860 67,860 67,860	2,990 2,941 2,926 3,017 3,016 2,861 2,981 3,063 3,040 2,993 2,966 3,033 2,954 2,859 2,859 2,798 2,798 2,759 2,678	64,859 64,479 64,710 64,828 64,792 64,826 65,033 64,912 65,055 65,260 65,138 65,138 65,167 65,047 65,047 65,090 64,935	6,837 6,738 6,829 6,863 6,997 7,133 7,246 7,291 7,576 7,381 7,655 7,576 8,489 8,784 9,376 9,376 9,376 10,080	3,700 3,743 3,776 3,859 3,887 3,863 4,032 3,910 4,188 4,177 4,019 4,236 4,218 4,674 4,674 5,566 5,176 5,585	576 594 622 648 592 612 650 643 670 683 760 633 595 590 771 695 833 724 737 737 865 805	3,210 3,124 3,149 3,154 3,212 3,295 3,252 3,357 3,386 3,641 3,628 3,877 4,038 4,234 4,452 4,813 5,010 5,178	3,038 3,086 3,087 3,138 3,250 3,270 3,238 3,271 3,467 3,361 3,579 3,408 3,818 3,718 4,201 3,928 4,205 4,348	451 488 479 485 476 480 476 462 475 513 494 496 475 583 576 576 539 534	2,588 2,597 2,653 2,774 2,790 2,762 2,796 2,954 2,865 3,191 3,252 3,252 3,251 3,351 3,625 3,351 3,666 3,815

Note.—See footnote 5 and Note, Table B-35.

Table B-37.—Civilian employment by demographic characteristic, 1960-2008

[Thousands of persons 16 years of age and over; monthly data seasonally adjusted]

	A.II			ite ¹	,	5		d other 1	asulially a		ack or Afric	can Americ	an ¹
Year or month	All civilian workers	Total	Males	Females	Both sexes 16–19	Total	Males	Females	Both sexes 16–19	Total	Males	Females	Both sexes 16–19
1960	65,778 65,746 66,702 67,762 69,305 71,088 72,895 74,372 75,920 77,902 78,678 79,367 82,153	58,850 58,913 59,698 60,622 61,922 63,446 65,021 66,361 67,750 69,518 70,217 70,878 73,370	39,755 39,588 40,016 40,428 41,115 41,844 42,331 42,833 43,411 44,048 44,178 44,595 45,944	19,095 19,325 19,682 20,194 20,807 21,602 22,690 23,528 24,339 25,470 26,039 26,283 27,426	3,700 3,693 3,774 3,851 4,076 4,562 5,176 5,114 5,195 5,508 5,571 5,670 6,173	6,928 6,833 7,003 7,140 7,383 7,643 7,877 8,011 8,169 8,384 8,464 8,488 8,783	4,149 4,068 4,160 4,229 4,359 4,496 4,588 4,646 4,702 4,770 4,813 4,952	2,779 2,765 2,843 2,911 3,024 3,147 3,289 3,365 3,467 3,614 3,650 3,692 3,832	430 414 420 404 440 474 545 568 569 574 538	7,802	4,368	3,433	509
1973	85,064 86,794 85,846 88,752 92,017 96,048 98,824	75,708 77,184 76,411 78,853 81,700 84,936 87,259	47,085 47,674 46,697 47,775 49,150 50,544 51,452	28,623 29,511 29,714 31,078 32,550 34,392 35,807	6,623 6,796 6,487 6,724 7,068 7,367 7,356	9,356 9,610 9,435 9,899 10,317 11,112 11,565	5,265 5,352 5,161 5,363 5,579 5,936 6,156	4,092 4,258 4,275 4,536 4,739 5,177 5,409	647 652 615 611 619 703 727	8,128 8,203 7,894 8,227 8,540 9,102 9,359	4,527 4,527 4,275 4,404 4,565 4,796 4,923	3,601 3,677 3,618 3,823 3,975 4,307 4,436	570 554 507 508 508 571 579
1980 1981 1982 1983 1984 1985 1986 1987 1988	99,303 100,397 99,526 100,834 105,005 107,150 109,597 112,440 114,968 117,342	87,715 88,709 87,903 88,893 92,120 93,736 95,660 97,789 99,812 101,584	51,127 51,315 50,287 50,621 52,462 53,046 53,785 54,647 55,550 56,352	36,587 37,394 37,615 38,272 39,659 40,690 41,876 43,142 44,262 45,232	7,021 6,588 5,984 5,799 5,836 5,768 5,792 5,898 6,030 5,946	11,588 11,688 11,624 11,941 12,885 13,414 13,937 14,652 15,156 15,757	6,059 6,083 5,983 6,166 6,629 6,845 7,107 7,459 7,722 7,963	5,529 5,606 5,641 5,775 6,256 6,569 6,830 7,192 7,434 7,795	689 637 565 543 607 666 681 742 774 813	9,313 9,355 9,189 9,375 10,119 10,501 10,814 11,309 11,658 11,953	4,798 4,794 4,637 4,753 5,124 5,270 5,428 5,661 5,824 5,928	4,515 4,561 4,552 4,622 4,995 5,231 5,386 5,648 5,834 6,025	547 505 428 416 474 532 536 587 601 625
1990	118,793 117,718 118,492 120,259 123,060 124,900 126,708 129,558 131,463 133,488	102,261 101,182 101,669 103,045 105,190 106,490 107,808 109,856 110,931 112,235	56,703 55,797 55,959 56,656 57,452 58,146 58,888 59,998 60,604 61,139	45,558 45,385 45,710 46,390 47,738 48,344 48,920 49,859 50,327 51,096	5,779 5,216 4,985 5,113 5,398 5,593 5,667 5,807 6,089 6,204	16,533 16,536 16,823 17,214 17,870 18,409 18,900 19,701 20,532 21,253	8,401 8,426 8,482 8,693 8,998 9,231 9,319 9,687 10,089 10,307	8,131 8,110 8,342 8,521 8,872 9,179 9,580 10,014 10,443 10,945	801 690 684 691 763 826 832 853 962 968	12,175 12,074 12,151 12,382 12,835 13,279 13,542 13,969 14,556 15,056	5,995 5,961 5,930 6,047 6,241 6,422 6,456 6,607 6,871 7,027	6,180 6,113 6,221 6,334 6,595 6,857 7,086 7,362 7,685 8,029	598 494 492 494 552 586 613 631 736 691
2000 2001 2002 2003 2004 2004 2005 2006 2007	136,891 136,933 136,485 137,736 139,252 141,730 144,427 146,047	114,424 114,430 114,013 114,235 115,239 116,949 118,833 119,792	62,289 62,212 61,849 61,866 62,712 63,763 64,883 65,289	52,136 52,218 52,164 52,369 52,527 53,186 53,950 54,503	6,160 5,817 5,441 5,064 5,039 5,105 5,215 4,990					15,156 15,006 14,872 14,739 14,909 15,313 15,765 16,051	7,082 6,938 6,959 6,820 6,912 7,155 7,354 7,500	8,073 8,068 7,914 7,919 7,997 8,158 8,410 8,551	711 637 611 516 520 536 618 566
2007: Jan Feb Mar Apr Apr May June July Aug Sept Oct Nov Dec Dec Mar Sept Sept Sept Sept Sept Sept Sept Sept	145,915 145,888 146,145 145,713 145,913 146,045 145,753 146,260 146,016 146,647 146,211	119,742 119,651 120,065 119,505 119,711 119,835 119,713 119,340 119,992 119,883 120,194 119,889	65,341 65,281 65,531 65,404 65,393 65,367 65,231 64,923 65,153 65,229 65,412 65,237	54,401 54,370 54,534 54,102 54,318 54,468 54,482 54,417 54,838 54,654 54,782 54,653	5,185 5,118 5,068 5,029 4,969 5,040 5,009 4,805 4,996 4,985 4,863 4,853					16,242 16,141 15,979 16,048 15,939 15,989 16,172 16,176 16,046 15,946 15,980 15,961	7,579 7,525 7,385 7,465 7,407 7,406 7,603 7,664 7,536 7,436 7,522 7,470	8,662 8,615 8,595 8,583 8,532 8,569 8,512 8,510 8,510 8,458 8,491	603 599 592 584 562 561 558 525 541 558 553 556
2008: Jan Feb Mar Apr May June July Aug Sept Oct. Nov	146,248 145,993 145,969 146,331 146,046 145,891 145,877 145,255 144,958 144,285	119,858 119,534 119,574 119,667 119,661 119,518 119,542 119,222 119,180 118,893 118,338	65,181 65,057 65,041 64,981 65,042 64,857 65,001 64,775 64,548 64,303 64,037	54,677 54,477 54,533 54,686 54,618 54,661 54,541 54,447 54,631 54,590 54,301	4,791 4,785 4,848 4,978 4,993 4,789 4,664 4,658 4,632 4,577 4,461					16,090 16,169 16,116 16,234 16,029 16,085 16,040 16,074 15,714 15,810	7,548 7,573 7,459 7,522 7,437 7,491 7,423 7,530 7,323 7,326 7,192	8,542 8,596 8,657 8,711 8,591 8,593 8,617 8,543 8,391 8,483 8,526	564 560 525 582 558 525 545 609 573 546 468

¹ Beginning in 2003, persons who selected this race group only. Prior to 2003, persons who selected more than one race were included in the group they identified as the main race. Data for "black or African American" were for "black" prior to 2003. Data discontinued for "black and other" series. See Employment and Earnings or concepts and methodology of the Current Population Survey (CPS) at http://www.bls.gov/cps/documentation.htm#concepts for details.

Note.—Beginning with data for 2000, detail will not sum to total because data for all race groups are not shown here. See footnote 5 and Note, Table B-35.

Table B-38.—Unemployment by demographic characteristic, 1960-2008

[Thousands of persons 16 years of age and over; monthly data seasonally adjusted]

				ite ¹	,			d other ¹			ack or Afric	an America	an ¹
Year or month	All civilian workers	Total	Males	Females	Both sexes 16–19	Total	Males	Females	Both sexes 16–19	Total	Males	Females	Both sexes 16–19
1960 1961 1962 1963 1964 1965 1966 1966 1966 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1978 1979 1980 1980 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1989 1990 1991 1992 1993 1993 1993	3,852 4,714 3,911 4,070 3,786 3,366 2,875 2,875 2,875 2,817 2,832 4,093 4,093 4,365 5,156 6,792 6,137 7,406 6,202 6,137 7,627 8,273 10,678 10,717 8,539 8,312 6,701 6,528 7,047 8,628 7,047 8,628 8,613 8,961 8,613 8,613 8,613 8,613 8,613 8,613 8,613 8,613 8,613 8,613 8,613 8,613 8,613 8,613 8,613 8,799 8,79	3.065 3.743 3.052 2.999 2.255 2.338 2.226 2.260 3.339 2.226 3.304 4.085 3.906 4.085 3.906 4.085 3.906 4.085 3.906 4.085 6.844 8.244 8.128 8.241 8.128 6.372 6.191 6.191 6.195	1,988 2,398 1,915 1,976 1,779 1,576 1,779 1,576 1,241 1,241 1,142 1,137 1,857 2,169 3,627 3,258 2,883 2,411 2,405 3,454 4,859 3,454 4,859 3,859 4,209	1,077 1,345 1,137 1,232 1,232 1,232 1,132 1,014 1,123 1,482 1,777 1,733 1,606 1,927 2,794 2,255 2,287 2,280 2,255 3,270 2,765 2,772 2,765 2,389 2,177 2,135 2,135 2,177 2,135 2,177 2,135 2,135 2,177 2,177 2,175 2,170	575 669 580 708 708 705 651 631 635 644 660 871 1,011 1,021 955 1,104 1,413 1,364 1,284 1,193 1,291 1,534 1,387 1,116 1,074 1,387 995 995 903 1,037 995	788 971 861 787 678 622 638 590 571 754 930 977 924 1,550 1,507 1,492 1,550 1,473 1,752 2,187 2,187 2,192 1,757 1,757 1,757 1,757 1,757 1,757 1,757 1,757 1,757 1,757 1,757 1,860 2,444 2,285 2,104 2,210 2,104 2,	498 599 599 496 426 360 310 300 277 267 380 481 486 544 545 779 784 731 714 927 1,334 1,401 1,144 1,095 1,095 1,097 1,314 1,201 1,097	290 372 352 367 361 318 318 312 338 304 450 491 484 451 4759 830 766 774 759 830 1,104 1,187 1,022 1,026 868 868 889 1,130 1,011	138 159 142 176 165 171 186 203 194 193 235 249 288 280 318 355 355 379 394 362 377 384 441 384 393 316 313 316 313 313 313 314 315 317 317 317 317 317 317 317 317 317 317	906 846 965 1,369 1,334 1,330 1,319 1,531 2,142 2,272 1,914 1,844 1,547 1,544 1,544 1,543 1,723 2,011 1,844 1,665 1,723 2,011 1,844 1,665	494 395 494 741 698 698 641 1.213 1,003 951 1,003 951 773 806 826 771 773 806 890 1,067 971 848	458 451 470 629 637 695 690 683 738 840 975 1,059 911 913 858 776 772 758 833 944 872 872	262 297 330 354 360 333 343 357 396 392 253 353 357 396 392 253 353 357 312 288 300 268 288 324 313 301
1995 1997 1997 1998 2000 2001 2002 2002 2004 2005 2006 2007	7,404 7,236 6,739 6,210 5,880 5,692 6,801 8,378 8,774 8,149 7,591 7,001 7,078	5,459 5,300 4,836 4,484 4,273 4,121 4,969 6,137 6,311 5,847 5,350 5,002 5,143	2,896 2,641 2,431 2,274 2,177 2,754 3,459 3,643 3,282 2,931 2,730 2,869	2,404 2,195 2,053 1,999 1,944 2,215 2,678 2,668 2,565 2,419 2,271 2,274	952 939 912 876 844 795 925 909 890 845 794	1,945 1,936 1,903 1,726 1,606	984 984 935 835 792	961 952 967 891 814	394 367 359 329 318	1,538 1,592 1,560 1,426 1,309 1,241 1,416 1,693 1,787 1,729 1,700 1,549	762 808 747 671 626 620 709 835 891 860 844 774 752	777 784 813 756 684 621 706 858 895 868 856 775 693	325 310 302 281 268 230 260 255 241 267 253
2007: Jan Feb	7,043 6,837 6,738 6,829 6,863 6,997 7,137 7,133 7,246 7,291 7,181 7,655	5,154 4,986 4,787 4,928 4,928 5,083 5,232 5,256 5,324 5,268 5,235 5,571	2,871 2,832 2,638 2,731 2,741 2,839 2,921 2,935 3,048 2,959 2,908 3,042	2,284 2,154 2,149 2,197 2,187 2,244 2,311 2,322 2,275 2,309 2,327 2,529	791 772 776 773 801 834 800 806 834 810 840 840					1,415 1,394 1,439 1,435 1,466 1,467 1,421 1,347 1,437 1,437 1,483 1,473	727 733 790 793 778 775 711 660 718 776 756 829	688 661 648 642 688 692 710 687 719 708 717 748	246 241 194 258 242 252 206 238 220 215 234 295
2008: Jan Feb Feb Apr Apr Apr Jule July Aug Sept Oct Nov	7,576 7,381 7,815 7,626 8,487 8,499 8,784 9,376 9,477 10,080 10,331	5,482 5,406 5,616 5,504 6,101 6,186 6,428 6,760 6,775 7,495 7,691	3,076 3,001 3,086 3,119 3,450 3,477 3,754 3,797 4,065 4,404 4,536	2,406 2,405 2,530 2,385 2,652 2,709 2,675 2,962 2,711 3,090 3,155	887 807 736 799 978 951 1,094 965 974 1,038 1,009					1,623 1,463 1,586 1,520 1,713 1,632 1,726 1,899 2,023 1,983 1,992	859 749 797 761 864 873 942 947 1,082 1,089	764 714 789 759 849 759 784 952 941 896 903	313 259 239 189 266 221 257 246 239 262 223

¹ See footnote 1 and Note, Table B-37.

Note.—See footnote 5 and Note, Table B-35.

Table B-39.—Civilian labor force participation rate and employment/population ratio, 1960-2008 [Percent 1; monthly data seasonally adjusted]

			Labor force	e particip	ation rate					Employme	ent/popula	tion ratio		
Year or month	All civilian workers	Males	Females	Both sexes 16–19 years	White ²	Black and other ²	Black or African Ameri- can ²	All civilian workers	Males	Females	Both sexes 16–19 years	White ²	Black and other ²	Black or African Ameri- can ²
1960	59.4 59.3 58.8 58.7 58.7 59.2 59.6 60.1 60.4 60.2 60.4 60.8 61.3 61.2 61.6	83.3 82.9 82.0 81.4 81.0 80.7 80.4 80.1 79.8 79.1 78.9 78.8 78.7 77.9 77.9	37.7 38.1 37.9 38.3 38.7 39.3 40.3 41.1 41.6 42.7 43.3 43.4 43.9 44.7 45.7 46.3 47.3	47.5 46.9 46.1 45.2 44.5.7 48.2 48.4 49.9 51.9 53.7 54.0 54.5	58.8 58.8 58.3 58.2 58.2 58.4 58.7 59.2 59.3 59.9 60.1 60.4 61.4 61.5 61.8	64.5 64.1 63.2 63.0 63.1 62.9 63.0 62.8 62.2 62.1 61.8 60.9 60.2 60.3 59.6	59.9 60.2 59.8 58.8 59.0	56.1 55.4 55.5 55.4 55.7 56.9 57.3 57.5 58.0 57.4 56.6 57.8 57.8 57.8	78.9 77.6 77.7 77.1 77.3 77.5 77.9 78.0 77.6 76.2 74.9 75.0 75.5 74.9 71.7 72.0	35.5 35.4 35.6 35.8 36.3 37.1 38.3 39.6 40.7 40.8 40.4 41.0 42.0 42.6 42.2 44.5	40.5 39.1 39.4 37.4 37.3 38.9 42.1 42.2 42.2 43.4 42.3 41.3 45.9 46.0 43.4 44.2	55.9 55.3 55.4 55.3 55.5 56.8 57.2 57.4 58.0 57.5 56.8 57.4 58.0	57.9 56.2 56.3 56.2 57.0 57.8 58.4 58.2 58.0 58.1 56.8 54.1 55.0 51.4 51.4 52.0	53.7 54.5 53.5 50.1 50.8
1977 1978 1979 1980 1981 1981 1982 1983	62.3 63.2 63.7 63.8 63.9 64.0 64.0	77.7 77.9 77.8 77.4 77.0 76.6 76.4	48.4 50.0 50.9 51.5 52.1 52.6 52.9	56.0 57.8 57.9 56.7 55.4 54.1 53.5	62.5 63.3 63.9 64.1 64.3 64.3	60.4 62.2 62.2 61.7 61.3 61.6 62.1	59.8 61.5 61.4 61.0 60.8 61.5	57.9 59.3 59.9 59.2 59.0 57.8 57.8	73.8 73.8 72.0 71.3 69.0 68.8	46.4 47.5 47.7 48.0 47.7 48.0	46.1 48.3 48.5 46.6 44.6 41.5	58.6 60.0 60.6 60.0 60.0 58.8 58.9	52.5 54.7 55.2 53.6 52.6 50.9 51.0	51.4 53.6 53.8 52.3 51.3 49.4 49.5
1985 1986 1987 1988 1989	64.4 64.8 65.3 65.6 65.9 66.5	76.4 76.3 76.3 76.2 76.2 76.4 76.4	53.6 54.5 55.3 56.0 56.6 57.4	53.9 54.5 54.7 54.7 55.3 55.9 53.7	64.6 65.0 65.5 65.8 66.2 66.7	62.6 63.3 63.7 64.3 64.0 64.7	62.2 62.9 63.3 63.8 63.8 64.2 64.0	59.5 60.1 60.7 61.5 62.3 63.0 62.8	70.7 70.9 71.0 71.5 72.0 72.5	49.5 50.4 51.4 52.5 53.4 54.3	43.7 44.4 44.6 45.5 46.8 47.5 45.3	60.5 61.0 61.5 62.3 63.1 63.8	53.6 54.7 55.4 56.8 57.4 58.2 57.9	52.3 53.4 54.1 55.6 56.3 56.9
1991 1992 1993 1994 1995 1996 1997 1998	66.2 66.4 66.3 66.6 66.6 67.1 67.1 67.1	75.8 75.8 75.4 75.1 75.0 74.9 74.9 74.7	57.4 57.8 57.9 58.8 58.9 59.3 59.8 59.8 60.0	51.6 51.3 51.5 52.7 53.5 52.3 51.6 52.8 52.0	66.6 66.8 66.8 67.1 67.2 67.5 67.3 67.3	63.8 64.6 63.8 63.9 64.3 64.6 65.2 66.0 65.9	63.3 63.9 63.2 63.4 63.7 64.1 64.7 65.6 65.8	61.7 61.5 61.7 62.5 62.9 63.2 63.8 64.1 64.3	70.4 69.8 70.0 70.4 70.8 70.9 71.3 71.6 71.6	53.7 53.8 54.1 55.3 55.6 56.0 56.8 57.1 57.4	42.0 41.0 41.7 43.4 44.2 43.5 43.4 45.1 44.7	62.6 62.4 62.7 63.5 63.8 64.1 64.6 64.7 64.8	56.7 56.4 56.3 57.2 58.1 58.6 59.4 60.9 61.3	55.4 54.9 55.0 56.1 57.1 57.4 58.2 59.7 60.6
2000	67.1 66.8 66.6 66.2 66.0 66.0 66.2 66.0 66.3	74.8 74.4 74.1 73.5 73.3 73.3 73.5 73.2	59.9 59.8 59.6 59.5 59.2 59.3 59.4 59.3	52.0 49.6 47.4 44.5 43.9 43.7 43.7 41.3	67.3 67.0 66.8 66.5 66.3 66.5 66.4 66.6		65.8 65.3 64.8 64.3 63.8 64.2 64.1 63.7	64.4 63.7 62.7 62.3 62.3 62.7 63.1 63.0 63.3	71.9 70.9 69.7 68.9 69.2 69.6 70.1 69.8 70.1	57.5 57.0 56.3 56.1 56.0 56.2 56.6 56.6	45.2 42.3 39.6 36.8 36.4 36.5 36.9 34.8 36.2	64.9 64.2 63.4 63.0 63.1 63.4 63.8 63.6		60.9 59.7 58.1 57.4 57.2 57.7 58.4 58.4 59.5
2007: Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec	66.2 66.0 66.0 66.1 66.0 65.8 66.0 65.9 66.0	73.6 73.5 73.4 73.3 73.2 73.2 72.9 73.1 73.0 73.2 73.1	59.3 59.4 59.0 59.2 59.3 59.3 59.2 59.4 59.2 59.3 59.4	42.6 42.1 41.5 41.5 41.0 41.8 41.2 39.7 41.2 40.9 41.0	66.4 66.3 66.4 66.3 66.4 66.3 66.4 66.3		64.2 63.7 63.8 63.5 63.6 64.0 63.4 63.1 63.1 63.3	63.2 63.3 63.0 63.0 63.0 62.8 62.9 62.7 63.0 62.7	70.0 70.1 70.0 69.9 69.8 69.7 69.5 69.4 69.7 69.3	56.8 56.9 56.5 56.6 56.7 56.5 56.7 56.5 56.5 56.6 56.5	35.8 35.4 35.1 34.5 35.2 34.9 33.2 34.6 34.7 34.2 34.0	63.8 64.0 63.6 63.7 63.6 63.3 63.6 63.5 63.6 63.4		59.1 58.4 58.6 58.1 58.2 58.8 58.7 58.2 57.7 57.8 57.6
2008: Jan Feb Mar Apr May June July Aug Sept Oct Nov	66.1 65.9 66.0 66.2 66.1 66.1 66.1 65.8	73.2 72.9 72.9 72.9 73.2 73.0 73.3 73.1 73.1 72.7	59.5 59.3 59.5 59.6 59.7 59.6 59.4 59.6 59.4 59.5 59.4	41.0 40.0 39.8 41.1 42.6 40.5 40.8 40.2 40.1 39.9 38.3	66.4 66.2 66.2 66.4 66.4 66.4 66.3 66.3		64.1 63.7 63.9 64.0 63.9 63.7 63.8 64.4 63.5 63.6	62.9 62.7 62.6 62.7 62.6 62.4 62.4 62.1 62.0 61.8 61.4	69.5 69.4 69.2 69.2 69.0 68.8 68.5 68.2 67.9 67.5	56.7 56.5 56.5 56.5 56.5 56.3 56.2 56.1 56.0 55.8	33.6 33.4 33.5 34.7 34.6 33.1 32.5 32.6 32.5 31.7 30.4	63.5 63.3 63.3 63.2 63.1 63.1 62.8 62.8 62.5 62.5		58.2 58.4 58.5 57.7 57.8 57.6 57.6 56.2 56.5

¹ Civilian labor force or civilian employment as percent of civilian noninstitutional population in group specified. ² See footnote 1, Table B–37.

Note.—Data relate to persons 16 years of age and over. See footnote 5 and Note, Table B–35.

Table B-40.—Civilian labor force participation rate by demographic characteristic, 1965-2008 [Percent 1; monthly data seasonally adjusted]

						White 2					Black an	d other o	r black or A	African A	merican	2
.,		All civilian			Males			Females	3			Males			Female	S
Yea	ar or month	work- ers	Total	Total	16–19 years	20 years and over	Total	16–19 years	20 years and over	Total	Total	16–19 years	20 years and over	Total	16–19 years	20 years and over
												Bla	ick and oth	er ²		
1966 . 1967 . 1968 .		58.9 59.2 59.6 59.6 60.1	58.4 58.7 59.2 59.3 59.9	80.8 80.6 80.6 80.4 80.2	54.1 55.9 56.3 55.9 56.8	83.9 83.6 83.5 83.2 83.0	38.1 39.2 40.1 40.7 41.8	39.2 42.6 42.5 43.0 44.6	38.0 38.8 39.8 40.4 41.5	62.9 63.0 62.8 62.2 62.1	79.6 79.0 78.5 77.7 76.9	51.3 51.4 51.1 49.7 49.6	83.7 83.3 82.9 82.2 81.4	48.6 49.4 49.5 49.3 49.8	29.5 33.5 35.2 34.8 34.6	51.1 51.6 51.6 51.4 52.0
1970 . 1971 . 1972 .		60.4 60.2 60.4	60.2 60.1 60.4	80.0 79.6 79.6	57.5 57.9 60.1	82.8 82.3 82.0	42.6 42.6 43.2	45.6 45.4 48.1	42.2 42.3 42.7	61.8 60.9 60.2	76.5 74.9 73.9	47.4 44.7 46.0	81.4 80.0 78.6	49.5 49.2 48.8	34.1 31.2 32.3	51.8 51.8 51.2
													African An	nerican ²		
1973 . 1974 . 1975 . 1976 . 1977 . 1978 .		60.4 60.8 61.3 61.2 61.6 62.3 63.2 63.7	60.4 60.8 61.4 61.5 61.8 62.5 63.3 63.9 64.1	79.6 79.4 79.4 78.7 78.4 78.5 78.6 78.6 78.2	60.1 62.0 62.9 61.9 62.3 64.0 65.0 64.8	82.0 81.6 81.4 80.7 80.3 80.2 80.1 79.8	43.2 44.1 45.2 45.9 46.9 48.0 49.4 50.5	48.1 50.1 51.7 51.5 52.8 54.5 56.7 57.4 56.2	42.7 43.5 44.4 45.3 46.2 47.3 48.7 49.8 50.6	59.9 60.2 59.8 58.8 59.0 59.8 61.5 61.4	73.6 73.4 72.9 70.9 70.0 70.6 71.5 71.3	46.3 45.7 46.7 42.6 41.3 43.2 44.9 43.6	78.5 78.4 77.6 76.0 75.4 75.6 76.2 76.3	48.7 49.3 49.0 48.8 49.8 50.8 53.1 53.1	32.2 34.2 33.4 34.2 32.9 37.3 36.8 34.9	51.2 51.6 51.4 51.1 52.5 53.6 55.5 55.4
1982 . 1983 . 1984 . 1985 . 1986 . 1987 . 1988 .		63.9 64.0 64.4 64.8 65.3 65.6 65.9 66.5	64.3 64.3 64.6 65.0 65.5 65.8 66.2 66.7	77.9 77.4 77.1 77.1 77.0 76.9 76.8 76.9 77.1	62.4 60.0 59.4 59.0 59.7 59.3 59.0 60.0 61.0	79.5 79.2 78.9 78.7 78.5 78.5 78.4 78.3	51.9 52.4 52.7 53.3 54.1 55.0 55.7 56.4 57.2	55.4 55.0 54.5 55.4 55.2 56.3 56.5 57.2	51.5 52.2 52.5 53.1 54.0 54.9 55.6 56.3 57.2	60.8 61.0 61.5 62.2 62.9 63.3 63.8 63.8	70.0 70.1 70.6 70.8 70.8 71.2 71.1 71.0 71.0	41.6 39.8 39.9 41.7 44.6 43.7 43.6 43.8 44.6	74.5 74.7 75.2 74.8 74.4 74.8 74.7 74.6	53.5 53.7 54.2 55.2 56.5 56.9 58.0 58.0	34.0 33.5 33.0 35.0 37.9 39.1 39.6 37.9 40.4	56.0 56.2 56.8 57.6 58.6 58.9 60.0 60.1
1991 . 1992 . 1993 . 1994 . 1995 . 1996 . 1997 .		66.5 66.2 66.4 66.3 66.6 66.6 66.8 67.1 67.1	66.9 66.8 66.8 67.1 67.1 67.2 67.5 67.3	77.1 76.5 76.2 75.9 75.7 75.8 75.9 75.6 75.6	59.6 57.3 56.9 56.6 57.7 58.5 57.1 56.1 56.6 56.4	78.5 78.0 78.0 77.7 77.3 77.1 77.3 77.5 77.2 77.2	57.4 57.4 57.7 58.0 58.9 59.0 59.1 59.5 59.4 59.6	55.3 54.1 52.5 53.5 55.1 55.5 54.7 54.1 55.4 54.5	57.6 57.6 58.1 58.3 59.2 59.2 59.4 59.9 59.7	64.0 63.3 63.9 63.2 63.4 63.7 64.1 64.7 65.6 65.8	71.0 70.4 70.7 69.6 69.1 69.0 68.7 68.3 69.0 68.7	40.7 37.3 40.6 39.5 40.8 40.1 39.5 37.4 40.7 38.6	75.0 74.6 74.3 73.2 72.5 72.5 72.3 72.2 72.5 72.4	58.3 57.5 58.5 57.9 58.7 59.5 60.4 61.7 62.8 63.5	36.8 33.5 35.2 34.6 36.3 39.8 39.9 42.5 38.8	60.6 60.0 60.8 60.2 60.9 61.4 62.6 64.0 64.8 66.1
2001 . 2002 . 2003 . 2004 . 2005 . 2006 .		67.1 66.8 66.6 66.2 66.0 66.2 66.0	67.3 67.0 66.8 66.5 66.3 66.3 66.4	75.5 75.1 74.8 74.2 74.1 74.1 74.3 74.0	56.5 53.7 50.3 47.5 47.4 46.2 46.9 44.3	77.1 76.9 76.7 76.3 76.2 76.2 76.4 76.3	59.5 59.4 59.3 59.2 58.9 58.9 59.0 59.0	54.5 52.4 50.8 47.9 46.7 47.6 46.6 44.6	59.9 59.9 60.0 59.9 59.7 59.7 59.9 60.1	65.8 65.3 64.8 64.3 63.8 64.2 64.1 63.7	69.2 68.4 68.4 67.3 66.7 67.3 67.0 66.8	39.2 37.9 37.3 31.1 30.0 32.6 32.3 29.4	72.8 72.1 72.1 71.5 70.9 71.3 71.1 71.2	63.1 62.8 61.8 61.9 61.5 61.6 61.7	39.6 37.3 34.7 33.7 32.8 32.2 35.6 31.2	65.4 65.2 64.4 64.6 64.2 64.4 64.2 64.0
	Jan	66.3 66.2 66.0 66.0 66.1 66.0 65.8 66.0 65.9 66.0	66.6 66.4 66.5 66.2 66.3 66.4 66.3 66.4 66.3	74.4 74.3 74.2 74.1 74.1 74.0 73.6 73.9 73.8 73.9	46.6 45.6 45.1 45.1 44.6 45.5 44.3 42.8 44.2 44.0 41.6	76.6 76.5 76.6 76.4 76.4 76.3 76.0 76.2 76.1 76.4 76.3	59.2 59.0 59.1 58.6 58.8 59.0 59.0 59.3 59.1 59.2	45.3 45.0 44.7 43.9 43.9 44.6 44.7 43.2 45.1 44.7	60.1 59.9 60.1 59.7 59.9 60.0 60.1 60.3 60.1 60.2	64.7 64.2 63.7 63.8 63.5 63.6 64.0 63.6 63.1 63.1 63.3	67.8 67.3 66.5 67.1 66.4 66.2 67.2 66.5 66.5	30.7 31.5 28.6 31.5 30.8 29.6 27.1 27.3 28.4 28.8 29.6 31.6	72.1 71.5 71.0 71.3 70.6 70.6 72.0 71.9 71.0 70.4 70.8	62.3 61.7 61.4 61.2 61.1 61.4 61.3 60.7 60.8 60.7	34.3 32.6 31.3 32.6 30.3 32.0 30.7 30.2 29.0 29.4 29.6 32.4	65.0 64.5 64.3 64.0 64.1 64.2 64.3 63.7 63.9 63.7
2008:	Jan	66.1 65.9 66.0 66.2 66.1 66.1 66.0 66.1 65.8	66.4 66.2 66.2 66.4 66.4 66.4 66.3 66.3	73.9 73.7 73.7 73.6 74.0 73.7 74.1 73.9 73.8 73.9 73.7	41.9 41.8 43.8 46.5 44.0 44.5 43.2 42.9 42.9 42.9	76.4 76.1 76.2 75.9 76.1 76.1 76.4 76.2 76.2 76.3 76.1	59.2 58.9 59.1 59.2 59.3 59.1 59.2 59.1 59.4 59.2	45.2 43.8 43.7 44.6 44.8 43.8 43.5 42.7 42.7 42.8 41.3	60.2 60.0 60.2 60.1 60.3 60.4 60.2 60.4 60.3 60.6	64.1 63.7 63.9 64.0 63.9 63.7 63.8 64.4 63.5 63.6	67.7 66.9 66.3 66.4 66.5 66.9 66.8 67.6 66.9 66.8	37.4 28.6 25.3 25.7 29.8 27.8 29.2 31.1 30.3 32.7 24.9	71.3 71.5 71.2 71.3 70.8 71.5 71.9 71.2 70.9 70.5	61.1 61.9 62.0 61.7 61.1 61.3 61.8 60.7 60.9 61.2	28.7 32.9 31.9 32.0 31.9 28.0 30.7 32.7 30.2 27.6 26.4	64.3 63.8 64.8 64.9 64.6 64.3 64.7 63.6 64.1 64.5

 $^{^1}$ Civilian labor force as percent of civilian noninstitutional population in group specified. 2 See footnote 1, Table B–37.

Note.—Data relate to persons 16 years of age and over. See footnote 5 and Note, Table B–35.

Source: Department of Labor (Bureau of Labor Statistics).

Table B-41.—Civilian employment/population ratio by demographic characteristic, 1965–2008 [Percent 1; monthly data seasonally adjusted]

					White 2					Black a	nd other o	r black or A	African A	merican ²	?
Voor or month	All civilian			Males			Female	S			Males			Females	3
Year or month	work- ers	Total	Total	16–19 years	20 years and over	Total	16–19 years	20 years and over	Total	Total	16-19 years	20 years and over	Total	16–19 years	20 years and over
-											Bla	ack and oth	ier ²		
1965	56.2 56.9 57.3 57.5 58.0	56.0 56.8 57.2 57.4 58.0 57.5 56.8	77.9 78.3 78.4 78.3 78.2 76.8	47.1 50.1 50.2 50.3 51.1 49.6	81.5 81.7 81.7 81.6 81.4	36.2 37.5 38.3 38.9 40.1 40.3 39.9	33.7 37.5 37.7 37.8 39.5 39.5 38.6	36.5 37.5 38.3 39.1 40.1 40.4 40.4	57.8 58.4 58.2 58.0 58.1 56.8 54.9	73.7 74.0 73.8 73.3 72.8 70.9 68.1	39.4 40.5 38.8 38.7 39.0 35.5	78.7 79.2 79.4 78.9 78.4 76.8	44.1 45.1 45.0 45.2 45.9 44.9	20.2 23.1 24.8 24.7 25.1 22.4	47.3 48.2 47.9 48.2 48.9 48.2 47.3 46.7
1971 1972	56.6 57.0	57.4	75.7 76.0	49.2 51.5	79.0 79.0	40.7	41.3	40.6	54.1	67.3	31.8 32.4	74.2 73.2	43.9 43.3	20.2 19.9	46.7
1972	57.0	57.4	76.0	51.5	79.0	40.7	41.3	40.6	53.7	66.8	31.6	African A	merican 4 43.0	19.2	16.5
1973 1974 1975 1976 1977 1978	57.8 57.8 56.1 56.8 57.9 59.3 59.9	58.2 58.3 56.7 57.5 58.6 60.0 60.6	76.5 75.9 73.0 73.4 74.1 75.0 75.1	54.3 54.4 50.6 51.5 54.4 56.3 55.7	79.2 78.6 75.7 76.0 76.5 77.2 77.3	41.8 42.4 42.0 43.2 44.5 46.3 47.5	43.6 44.3 42.5 44.2 45.9 48.5 49.4	41.6 42.2 41.9 43.1 44.4 46.1 47.3	54.5 53.5 50.1 50.8 51.4 53.6 53.8	67.5 65.8 60.6 60.6 61.4 63.3 63.4	32.8 31.4 26.3 25.8 26.4 28.5 28.7	73.7 71.9 66.5 66.8 67.5 69.1 69.1	43.8 43.5 41.6 42.8 43.3 45.8 46.0	22.0 20.9 20.2 19.2 18.5 22.1 22.4	46.5 47.2 46.9 44.9 46.4 47.0 49.3 49.3
1980 1981 1982 1983 1984 1985 1986 1987 1988	59.2 59.0 57.8 57.9 59.5 60.1 60.7 61.5 62.3 63.0	60.0 60.0 58.8 58.9 60.5 61.0 61.5 62.3 63.1 63.8	73.4 72.8 70.6 70.4 72.1 72.3 72.3 72.7 73.2 73.7	53.4 51.3 47.0 47.4 49.1 49.9 49.6 49.9 51.7 52.6	75.6 75.1 73.0 72.6 74.3 74.3 74.7 75.1 75.4	47.8 48.3 48.1 48.5 49.8 50.7 51.7 52.8 53.8 54.6	47.9 46.2 44.6 44.5 47.0 47.1 47.9 49.0 50.2 50.5	47.8 48.5 48.4 48.9 50.0 51.0 52.0 53.1 54.0 54.9	52.3 51.3 49.4 49.5 52.3 53.4 54.1 55.6 56.3 56.9	60.4 59.1 56.0 56.3 59.2 60.0 60.6 62.0 62.7 62.8	27.0 24.6 20.3 20.4 23.9 26.3 26.5 28.5 29.4 30.4	65.8 64.5 61.4 61.6 64.1 64.6 65.1 66.4 67.1	45.7 45.1 44.2 44.1 46.7 48.1 48.8 50.3 51.2 52.0	21.0 19.7 17.7 17.0 20.1 23.1 23.8 25.8 25.8 27.1	49.1 48.5 47.5 47.4 49.8 50.9 51.6 53.0 53.9 54.6
1990 1991 1992 1993 1994 1995 1996 1997 1998	62.8 61.7 61.5 61.7 62.5 62.9 63.2 63.8 64.1 64.3	63.7 62.6 62.4 62.7 63.5 63.8 64.1 64.6 64.7 64.8	73.3 71.6 71.1 71.4 71.8 72.0 72.3 72.7 72.7 72.7	51.0 47.2 46.4 46.6 48.3 49.4 48.2 48.1 48.6 49.3	75.1 73.5 73.1 73.3 73.6 73.8 74.2 74.7 74.7	54.7 54.2 54.2 54.6 55.8 56.1 56.3 57.0 57.1 57.3	48.3 45.9 44.2 45.7 47.5 48.1 47.6 47.2 49.3 48.3	55.2 54.8 54.9 55.2 56.4 56.7 57.0 57.8 57.7 58.0	56.7 55.4 54.9 55.0 56.1 57.1 57.4 58.2 59.7 60.6	62.6 61.3 59.9 60.0 60.8 61.7 61.1 62.9 63.1	27.7 23.8 23.6 23.6 25.4 25.2 24.9 23.7 28.4 26.7	67.1 65.9 64.3 64.3 65.0 66.1 65.5 66.1 67.1	51.9 50.6 50.8 50.9 52.3 53.4 54.4 55.6 57.2 58.6	25.8 21.5 22.1 21.6 24.5 26.1 27.1 28.5 31.8 29.0	54.7 53.6 53.6 53.8 55.0 56.1 57.1 58.4 59.7 61.5
2000	64.4 63.7 62.7 62.3 62.3 62.7 63.1 63.0	64.9 64.2 63.4 63.0 63.1 63.4 63.8 63.6	73.0 72.0 70.8 70.1 70.4 70.8 71.3 70.9	49.5 46.2 42.3 39.4 39.7 38.8 40.0 37.3	74.9 74.0 73.1 72.5 72.8 73.3 73.7 73.5	57.4 57.0 56.4 56.3 56.1 56.3 56.6 56.7	48.8 46.5 44.1 41.5 40.3 41.8 41.1 39.2	58.0 57.7 57.3 57.3 57.2 57.4 57.7 57.9	60.9 59.7 58.1 57.4 57.2 57.7 58.4 58.4	63.6 62.1 61.1 59.5 59.3 60.2 60.6 60.7	28.9 26.4 25.6 19.9 19.3 20.8 21.7 19.5	67.7 66.3 65.2 64.1 63.9 64.7 65.2 65.5	58.6 57.8 55.8 55.6 55.5 55.7 56.5 56.5	30.6 27.0 24.9 23.4 23.6 22.4 26.4 23.3	61.3 60.7 58.7 58.6 58.5 58.9 59.4 59.8
2007: Jan Feb Mar Apr Apr June July Aug Sept Oct Nov Dec 2008: Jan Feb Mar Apr Apr Apr June July June July June July Aug June July June July June July June July	63.3 63.2 63.3 63.0 63.0 63.0 62.9 62.7 62.9 62.7 62.9 62.7 62.6 62.7	63.9 63.8 64.0 63.7 63.6 63.3 63.6 63.5 63.3 63.3 63.3 63.3	71.3 71.2 71.4 71.2 71.1 70.8 70.4 70.6 70.6 70.6 70.6 70.4 70.2 70.3 70.0 70.1	40.0 39.0 38.5 38.6 37.9 38.1 37.5 35.7 37.0 34.5 34.6 33.9 34.7 35.7 37.1 38.3 36.1 34.6	73.7 73.7 73.7 73.7 73.6 73.4 73.1 73.2 73.2 73.2 73.1 72.8 72.7 72.8	56.8 56.7 56.8 56.4 56.5 56.5 56.9 56.8 56.6 56.5 56.6 56.5 56.6 56.5 56.6 56.5 56.6	39.8 39.7 39.4 38.6 38.3 39.3 39.3 39.6 39.6 39.7 39.6 38.6 38.6 38.6 39.1 37.1 37.1	58.0 57.9 58.1 57.8 57.9 57.9 57.8 58.0 57.8 57.9 57.7 57.7 57.8 57.8 57.8 57.8 57.8 57.8	59.5 59.1 58.4 58.6 58.1 58.2 57.8 57.6 58.2 57.7 57.8 58.2 58.5 57.7 57.8	61.8 61.3 60.1 60.0 61.5 61.9 60.7 59.9 60.8 60.9 59.9 59.9 59.9 59.9	20.1 20.3 21.3 20.7 19.9 19.7 18.7 18.8 18.5 19.3 19.1 22.0 19.3 15.5 17.8 17.8 17.8	66.7 66.1 64.7 65.4 64.8 64.7 66.7 65.7 65.3 64.7 65.8 65.3 64.5 64.5 64.9	57.7 57.3 57.1 56.9 56.6 56.6 56.2 56.1 56.0 55.6 56.4 56.7 57.0 56.2 56.2	25.9 25.4 23.8 22.8 22.8 23.5 21.3 22.0 23.5 22.2 22.6 20.5 22.8 23.9 24.3 25.0 23.9 22.8	60.7 60.4 60.3 60.2 59.8 60.1 59.6 59.4 59.2 59.6 59.6 59.6 59.9 60.1 59.3
Aug Sept Oct Nov	62.1 62.0 61.8 61.4	62.8 62.8 62.5 62.2	69.8 69.5 69.1 68.8	34.9 34.6 33.3 33.1	72.5 72.2 71.9 71.5	56.2 56.3 56.2 55.9	36.3 36.2 36.7 35.0	57.6 57.8 57.6 57.4	57.6 56.2 56.5 56.1	60.0 58.3 58.2 57.1	22.0 20.4 20.6 14.4	64.5 62.8 62.6 62.1	55.6 54.6 55.1 55.3	23.4 22.3 20.1 20.3	58.8 57.7 58.5 58.7

 $^{^{\}rm 1}$ Civilian employment as percent of civilian noninstitutional population in group specified. $^{\rm 2}$ See footnote 1, Table B–37.

Note.—Data relate to persons 16 years of age and over. See footnote 5 and Note, Table B–35.

Table B-42.—Civilian unemployment rate, 1960-2008

[Percent 1; monthly data seasonally adjusted, except as noted]

			Males		, III.	Female	ata seasor	lally auj	Joleu, ext						
Year or month	All civilian work- ers	Total	16–19 years	20 years and over	Total	16–19 years	20 years and over	Both sexes 16–19 years	White ²	Black and other ²	Black or African Ameri- can ²	Asian (NSA) ^{2, 3}	Hispanic or Latino ethnic- ity ⁴	Married men, spouse pres- ent	Women who maintain families (NSA) ³
1960 1961 1962 1963 1964 1965 1966 1967 1968	5.5 6.7 5.5 5.7 5.2 4.5 3.8 3.8 3.6 3.5	5.4 6.4 5.2 5.2 4.6 4.0 3.2 3.1 2.9 2.8	15.3 17.1 14.7 17.2 15.8 14.1 11.7 12.3 11.6 11.4	4.7 5.7 4.6 4.5 3.9 3.2 2.5 2.3 2.2 2.1	5.9 7.2 6.2 6.5 6.2 5.5 4.8 5.2 4.8 4.7	13.9 16.3 14.6 17.2 16.6 15.7 14.1 13.5 14.0 13.3	5.1 6.3 5.4 5.4 5.2 4.5 3.8 4.2 3.8 3.7	14.7 16.8 14.7 17.2 16.2 14.8 12.8 12.9 12.7	5.0 6.0 4.9 5.0 4.6 4.1 3.4 3.2 3.1	10.2 12.4 10.9 10.8 9.6 8.1 7.3 7.4 6.7 6.4				3.7 4.6 3.6 3.4 2.8 2.4 1.9 1.8 1.6	4.9 4.4 4.4
1970	4.9 5.9 5.6 4.9 5.6 8.5 7.7 7.1 6.1 5.8	4.4 5.3 5.0 4.2 4.9 7.9 7.1 6.3 5.3 5.1	15.0 16.6 15.9 13.9 15.6 20.1 19.2 17.3 15.8 15.9	3.5 4.4 4.0 3.3 3.8 6.8 5.9 5.2 4.3 4.2	5.9 6.9 6.6 6.7 9.3 8.6 8.2 7.2 6.8	15.6 17.2 16.7 15.3 16.6 19.7 18.7 18.3 17.1	4.8 5.7 5.4 4.9 5.5 8.0 7.4 7.0 6.0 5.7	15.3 16.9 16.2 14.5 16.0 19.9 19.0 17.8 16.4 16.1	4.5 5.4 5.1 4.3 5.0 7.8 7.0 6.2 5.2 5.1	8.2 9.9 10.0 9.0 9.9 13.8 13.1 11.9 11.3	10.4 9.4 10.5 14.8 14.0 14.0 12.8 12.3		7.5 8.1 12.2 11.5 10.1 9.1 8.3	2.6 3.2 2.8 2.3 2.7 5.1 4.2 3.6 2.8 2.8	5.4 7.3 7.2 7.1 7.0 10.0 10.1 9.4 8.5 8.3
1980	7.1 7.6 9.7 9.6 7.5 7.2 7.0 6.2 5.5 5.3	6.9 7.4 9.9 9.9 7.4 7.0 6.9 6.2 5.5 5.2	18.3 20.1 24.4 23.3 19.6 19.5 19.0 17.8 16.0 15.9	5.9 6.3 8.8 8.9 6.6 6.2 6.1 5.4 4.8 4.5	7.4 7.9 9.4 9.2 7.6 7.4 7.1 6.2 5.6 5.4	17.2 19.0 21.9 21.3 18.0 17.6 17.6 15.9 14.4 14.0	6.4 6.8 8.3 8.1 6.8 6.6 6.2 5.4 4.9 4.7	17.8 19.6 23.2 22.4 18.9 18.6 18.3 16.9 15.3	6.3 6.7 8.6 8.4 6.5 6.2 6.0 5.3 4.7 4.5	13.1 14.2 17.3 17.8 14.4 13.7 13.1 11.6 10.4	14.3 15.6 18.9 19.5 15.1 14.5 13.0 11.7		10.1 10.4 13.8 13.7 10.7 10.5 10.6 8.8 8.2 8.0	4.2 4.3 6.5 6.5 4.6 4.3 4.4 3.9 3.3 3.0	9.2 10.4 11.7 12.2 10.3 10.4 9.8 9.2 8.1 8.1
1990	5.6 6.8 7.5 6.9 6.1 5.6 5.4 4.9 4.5 4.2	5.7 7.2 7.9 7.2 6.2 5.6 5.4 4.9 4.4 4.1	16.3 19.8 21.5 20.4 19.0 18.4 16.9 16.2 14.7	5.0 6.4 7.1 6.4 5.4 4.8 4.6 4.2 3.7	5.5 6.4 7.0 6.6 5.6 5.4 5.0 4.6 4.3	14.7 17.5 18.6 17.5 16.2 16.1 15.2 15.0 12.9 13.2	4.9 5.7 6.3 5.9 5.4 4.9 4.8 4.4 4.1 3.8	15.5 18.7 20.1 19.0 17.6 17.3 16.7 16.0 14.6 13.9	4.8 6.1 6.6 6.1 5.3 4.9 4.7 4.2 3.9 3.7	10.1 11.1 12.7 11.7 10.5 9.6 9.3 8.8 7.8 7.0	11.4 12.5 14.2 13.0 11.5 10.4 10.5 10.0 8.9 8.0		8.2 10.0 11.6 10.8 9.9 9.3 8.9 7.7 7.2 6.4	3.4 4.4 5.1 4.4 3.7 3.3 3.0 2.7 2.4 2.2	8.3 9.3 10.0 9.7 8.9 8.0 8.2 8.1 7.2 6.4
2000	4.0 4.7 5.8 6.0 5.5 5.1 4.6 4.6	3.9 4.8 5.9 6.3 5.6 5.1 4.6 4.7	14.0 16.0 18.1 19.3 18.4 18.6 16.9 17.6	3.3 4.2 5.3 5.6 5.0 4.4 4.0 4.1	4.1 4.7 5.6 5.7 5.4 5.1 4.6 4.5 4.5	12.1 13.4 14.9 15.6 15.5 14.5 13.8 13.8	3.6 4.1 5.1 5.1 4.9 4.6 4.1 4.0	13.1 14.7 16.5 17.5 17.0 16.6 15.4 15.7	3.5 4.2 5.1 5.2 4.8 4.4 4.0 4.1		7.6 8.6 10.2 10.8 10.4 10.0 8.9 8.3	3.6 4.5 5.9 6.0 4.4 4.0 3.0 3.2 3.2	5.7 6.6 7.5 7.7 7.0 6.0 5.2 5.6	2.0 2.7 3.6 3.8 3.1 2.8 2.4 2.5	5.9 6.6 8.0 8.5 8.0 7.8 7.1 6.5
Feb	4.5 4.4 4.5 4.6 4.7 4.7 4.7 4.8 4.7 5.0	4.7 4.5 4.6 4.7 4.7 4.7 4.9 4.9 4.7 5.1	16.6 16.1 16.5 17.5 18.0 16.9 18.3 18.1 19.5 19.8	4.1 4.0 4.0 4.0 4.1 4.2 4.1 4.3 4.3 4.1 4.4	4.3 4.4 4.4 4.6 4.6 4.5 4.6 4.6 4.9	13.2 13.1 14.2 14.1 13.9 13.6 14.4 13.7 13.3 13.4 14.4	3.8 3.9 3.9 3.9 4.1 4.1 4.1 4.1 4.1	15.0 14.6 15.4 15.8 16.0 15.3 16.2 16.0 15.7 16.4	4.0 3.8 4.0 4.1 4.2 4.2 4.2 4.2 4.2 4.2		8.0 8.3 8.4 8.4 8.1 7.7 8.2 8.5 8.4 9.0	3.0 3.3 2.9 3.1 3.0 3.4 3.2 3.7 3.6 3.7	5.2 5.2 5.5 5.8 5.7 5.9 5.5 5.7 5.6 5.7 6.3	2.6 2.5 2.5 2.6 2.4 2.7 2.5 2.5 2.6 2.6 2.7	6.5 6.7 6.2 6.8 6.8 6.2 6.4 6.3 6.6 6.9
2008: Jan Feb Apr May June July Sept Oct Nov	4.9 4.8 5.1 5.0 5.5 5.7 6.1 6.1 6.5 6.7	5.1 4.9 5.2 5.1 5.6 5.7 6.1 6.3 6.7 7.1	21.8 18.7 17.8 16.9 20.7 19.9 23.4 20.7 21.0 24.5 24.1	4.4 4.3 4.6 4.9 5.1 5.3 5.6 6.1 6.3 6.5	4.7 4.7 5.0 4.8 5.3 5.2 5.2 5.8 6.0	14.2 14.5 13.8 14.0 16.6 16.3 17.1 17.1 16.3 16.6	4.2 4.6 4.3 4.8 4.7 4.6 5.3 4.9 5.3	18.0 16.6 15.8 15.4 18.7 18.1 20.3 18.9 19.1 20.6 20.4	4.4 4.3 4.5 4.4 4.9 5.1 5.4 5.9 6.1		9.2 8.3 9.0 8.6 9.7 9.2 9.7 10.6 11.4 11.1	3.2 3.0 3.6 3.2 3.8 4.5 4.0 4.4 3.8 3.8 4.8	6.3 6.2 6.9 6.9 7.7 7.4 8.0 7.8 8.8	2.7 2.8 2.8 2.9 3.0 3.2 3.5 3.8 4.1 4.1	7.0 6.7 7.1 6.8 6.9 7.9 8.5 9.6 8.2 8.8 9.3

Unemployed as percent of civilian labor force in group specified.
 See footnote 1, Table B-37.
 Not seasonally adjusted (NSA).
 Persons whose ethnicity is identified as Hispanic or Latino may be of any race.

Note.—Data relate to persons 16 years of age and over. See footnote 5 and Note, Table B–35.

Table B-43.—Civilian unemployment rate by demographic characteristic, 1965-2008

[Percent 1; monthly data seasonally adjusted]

					White 2					Black an	d other or	black or	African A	merican ²	
	All			Males			Females				Males			Females	
Year or month	civilian work- ers	Total	Total	16–19 years	20 years and over	Total	16–19 years	20 years and over	Total	Total	16–19 years	20 years and over	Total	16–19 years	20 years and over
											Bla	ck and ot	her ²		
1965	4.5 3.8 3.6 3.5 4.9 5.9 5.6	4.1 3.4 3.2 3.1 4.5 5.4 5.1	3.6 2.8 2.7 2.6 2.5 4.0 4.9 4.5	12.9 10.5 10.7 10.1 10.0 13.7 15.1 14.2	2.9 2.2 2.1 2.0 1.9 3.2 4.0 3.6	5.0 4.3 4.6 4.3 4.2 5.4 6.3 5.9	14.0 12.1 11.5 12.1 11.5 13.4 15.1 14.2	4.0 3.3 3.8 3.4 3.4 4.4 5.3 4.9	8.1 7.3 7.4 6.7 6.4 8.2 9.9 10.0	7.4 6.3 6.0 5.6 5.3 7.3 9.1 8.9	23.3 21.3 23.9 22.1 21.4 25.0 28.8 29.7	6.0 4.9 4.3 3.9 3.7 5.6 7.3 6.9	9.2 8.7 9.1 8.3 7.8 9.3 10.9 11.4	31.7 31.3 29.6 28.7 27.6 34.5 35.4 38.4	7.5 6.6 7.1 6.3 5.8 6.9 8.7 8.8
1372	3.0	5.1	7.0	17.2	5.0	0.0	17.2	7.0	10.0	0.5			merican ²		0.0
1972	56 49 56 49 56 49 56 69 56 56 49 69 61 61 56 62 40 62 64 64 64 64 64 64 64 64 64 64 64 64 64	5.1.1 5.0.8 5.2.2 5.1.1 6.3.7 6.5.2 5.1.1 6.5.3 6.5.3 4.7 4.5.1 5.1.1 5.1.2 5.1.1 5.1.3 5.1.4 5.	4.5 4.6 4.5 4.6 4.5 4.6 6.5 4.6 6.5 4.7 4.7 4.7 4.7 4.7 4.7 4.7 5.3 5.6 4.7 4.7 4.7 4.7 5.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6.7 6	14.2 12.3 13.5 13.5 13.9 13.5 13.9 14.6 16.3 15.5 16.3 15.5 16.3 15.5 16.3 15.5 16.3 16.3 17.6 16.3 17.6 16.3 17.6 16.3 17.6 17.6 17.6 17.6 17.6 17.6 17.6 17.6	36.0 3.0 3.0 5.2 4.3 5.6 5.6 7.8 5.7 5.7 5.7 5.7 5.3 4.8 4.1 3.0 2.8 4.7 5.4 4.1 3.0 4.3 4.3 4.3 4.3 4.3 4.3 4.3 4.3 4.3 4.3	5.9 5.3 6.16 7.9 7.62 5.9 6.5 6.9 6.5 6.1 5.2 4.7 4.5 5.2 4.7 4.2 3.8 4.7 4.2 4.7 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	14.2 13.0 14.5 16.4 14.4 14.0 15.2 13.4 14.9 12.3 11.5 12.6 13.1 13.1 13.1 13.1 13.1 13.1 13.1 13	4.9 4.3 5.15 6.8 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5	10.4 9.4 10.5 9.4 14.8 14.0 12.8 12.3 15.6 6.1 18.9 19.5 15.9 15.9 15.9 15.9 16.9 17.1 11.4 11.4 12.5 10.0 11.5 10.0 8.9 8.0 8.3 8.0 8.3 8.8 8.3 8.3	9.3 8.0 9.8 14.8 13.7 11.8 11.4 11.5 15.7 20.1 16.4 12.7 11.5 11.5 11.5 12.0 11.1 11.1 11.1 10.2 8.0 8.0 9.3 10.7 11.6 11.1 11.1 10.2 8.0 9.0 11.1 11.1 11.1 11.1 11.1 11.1 11.	Black or 27.8 31.7 27.8 33.1 37.5 33.6 34.2 36.7 34.2 36.7 34.2 36.7 34.2 37.5 36.7 34.2 37.6 39.3 34.4 42.7 48.9 39.3 31.9 36.3 36.3 37.1 37.6 36.3 36.3 37.1 37.6 36.3 37.1 37.6 37.1 37.6 37.1	7.0 6.0 7.4 12.5 11.4 10.7 13.5 17.8 13.5 17.8 18.1 14.3 12.9 10.1 10.0 10.4 11.5 11.5 10.3 8.8 8.5 7.6 9.3 9.3 9.3 9.3 17.8 8.5 17.8 9.3 9.3 9.3 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10	11.8 merican 2 11.8 11.1 11.3 11.3 11.8 11.8 11.8 11.8	40,5 36,1 37,4 40,0 41,6 44,6 44,8 42,2 47,1 32,6 33,0 37,2 23,3 32,5 25,1 22,8 8,3 33,3 28,7 25,3 22,3 23,3 28,2 25,3 22,3 23,3 28,2 25,3 22,3 23,3 28,2 25,3 22,3 23,3 28,2 27,1	9.0 8.6 8.8 8.2 11.7 12.3 11.9 13.4 15.4 16.5 13.5 13.1 12.4 11.9 9.8 9.7 10.6 8.7 9.8 8.7 9.8 8.7 6.8 8.7 6.8 8.9 8.9 8.9 8.9 6.6 6.2 6.6 6.6 6.6 6.6 6.6 6.6 6.6 6.6
May June July Aug Sept Oct Nov Dec 2008: Jan Feb Mar Apr June July Aug Sept Oct Nov	4.5 4.6 4.7 4.7 4.7 4.8 4.7 5.0 5.5 5.5 5.7 6.1 6.5 6.7	4.0 4.1 4.2 4.2 4.2 4.2 4.4 4.3 4.5 4.4 4.9 5.1 5.4 5.9 6.1	4.0 4.2 4.3 4.3 4.3 4.5 4.5 4.6 5.0 5.1 5.5 5.9 6.4 6.6	15.2 16.3 15.5 16.4 15.9 17.8 19.0 17.1 14.7 17.7 17.8 22.2 19.4 22.4 21.5	3.5 3.6 3.8 3.9 3.7 3.9 3.9 4.1 4.4 4.5 4.7 4.7 5.7 6.0	3.9 4.0 4.1 4.1 4.0 4.1 4.1 4.4 4.2 4.4 4.2 4.4 4.7 5.4 5.5	12.5 12.0 12.0 12.2 12.2 12.0 11.8 12.1 12.3 11.8 11.7 12.4 14.9 15.3 15.6 15.0 15.2	3.4 3.5 3.6 3.7 3.5 3.6 3.7 4.0 3.8 4.1 4.2 4.1 4.2 4.9 5.0	8.4 8.4 8.7 7.7 8.2 8.5 8.4 9.0 9.2 8.3 9.0 8.6 9.7 11.4 11.1	9.5 9.5 8.6 7.9 8.7 9.4 9.1 10.0 10.2 9.0 9.6 9.2 10.4 11.3 11.2 12.9 13.2	35.4 33.5 31.1 33.2 33.9 36.0 34.6 39.5 41.3 32.6 38.9 27.9 40.1 35.5 38.0 29.2 32.6 36.8 42.1	8.2 8.3 7.6 6.8 7.9 8.4 8.3 7.9 8.4 8.9 9.3 10.0 11.9	7.5 7.6 7.5 7.8 7.7 7.8 8.1 8.2 7.7 8.4 8.0 9.0 9.1 9.0 10.1 9.6 9.6	24.8 28.7 23.5 29.4 24.2 20.1 24.9 30.1 28.5 30.9 25.4 21.9 25.9 26.5 28.3 26.3 27.3 23.2	6.7 6.4 6.9 6.5 7.1 7.0 7.0 7.3 6.5 7.4 8.2 7.4 7.5 9.1 9.3

¹ Unemployed as percent of civilian labor force in group specified. ² See footnote 1, Table B–37.

Note.—Data relate to persons 16 years of age and over. See footnote 5 and Note, Table B–35.

Table B-44.—Unemployment by duration and reason, 1960-2008

[Thousands of persons, except as noted; monthly data seasonally adjusted 1]

			Du	ration of u						eason for u	nemploym	ent	
Year or month	Un- employ-	Less	5–14	15–26	27	Average	Median		Job losers	3	Job	Re-	New
	ment	than 5 weeks	veeks	weeks	weeks and over	(mean) duration (weeks)	duration (weeks)	Total	On layoff	Other	leavers	entrants	entrants
1960 1961	3,852 4,714	1,719 1,806	1,176 1.376	503 728	454 804	12.8 15.6							
1963	3,911 4,070	1,663 1,751	1,376 1,134 1,231	534 535	585 553	14.7 14.0							
1964 1965	3,786 3,366	1,697 1,628	1,117 983	491 404	482 351	13.3 11.8							
1965 1966 1967 ²	2,875 2,975 2,817	1,573 1,634 1,594	779 893 810	287 271 256	239 177 156	10.4 8.7 8.4	2.3 4.5	1,229 1,070	394 334	836 736	438 431	945 909	396 407
1968 1969	2,832	1,629	827 1.290	242 428	133	7.8	4.4 4.9	1,017	339 675	678 1.137	436 550	965	413 504
1970 1971 1972	4,093 5,016 4,882	2,139 2,245 2,242	1,290 1,585 1,472	428 668 601	235 519 566	8.6 11.3 12.0	6.3 6.2	1,811 2,323 2,108	735 582	1,137 1,588 1,526	550 590 641	1,228 1,472 1,456	630 677
1973 1974	4,365 5,156	2,224 2,604	1,314 1,597	483 574	343 381	10.0	5.2 5.2	1,694 2,242	472 746	1,221 1,495	683 768	1,340 1,463	649 681
1975 1976	7,929 7,406	2,940 2,844	2,484 2,196	1,303 1.018	1,203 1,348	14.2 15.8	8.4 8.2	4,386 3,679	1,671 1,050	2,714 2,628	827 903	1,892	823 895
1977 1978	6,991 6,202	2,919 2,865	2,132 1,923	913 766	1,028 648	14.3 11.9	7.0 5.9	3,166 2,585	865 712	2,300 1,873	909 874	1,963 1,857	953 885
1979	6,137 7,637	2,950 3,295 3,449	1,946 2,470	706 1,052	535 820	10.8	5.4 6.5	2,635 3,947	1,488	1,784 2,459	880 891	1,806 1,927	817 872
1981 1982 1983	8,273 10,678 10,717	3,449 3,883 3,570	2,539 3,311 2,937	1,122 1,708 1,652	1,162 1,776 2,559	13.7 15.6 20.0	6.9 8.7 10.1	4,267 6,268 6,258	1,430 2,127 1,780	2,837 4,141 4,478	923 840 830	2,102 2,384 2,412	981 1,185 1,216
1984 1985	8,539 8,312	3,350 3,498	2,451 2,509	1,104 1,025	1,634 1,280	18.2 15.6	7.9 6.8	4,421 4,139	1,171 1,157	3,250 2,982	823 877	2,184 2,256	1,110 1,039
1987	8,237 7,425	3,448 3,246	2,557 2,196	1,045 943	1,187 1,040	15.0 14.5	6.9 6.5	4,033 3,566	1,090 943	2,943 2,623	1,015 965	2,160 1,974	1,029 920
1988 1989	6,701 6,528	3,084 3,174	2,007 1,978	801 730	809 646	13.5 11.9	5.9 4.8	3,092 2,983	851 850	2,241 2,133	983 1,024	1,809 1,843	816 677
1990	7,047 8,628	3,265 3,480	2,257 2,791	822 1,246	703 1,111	12.0 13.7	5.3 6.8	3,387 4,694	1,028 1,292	2,359 3,402	1,041 1,004	1,930 2,139	688 792
1992 1993 1994	9,613 8,940 7,996	3,376 3,262 2,728	2,830 2,584 2,408	1,453 1,297 1,237	1,954 1,798 1,623	17.7 18.0 18.8	8.7 8.3 9.2	5,389 4,848 3,815	1,260 1,115 977	4,129 3,733 2,838	1,002 976 791	2,285 2,198 2,786	937 919 604
1995 1996	7,404 7,236	2,700 2,633	2,342 2,287	1,085 1,053	1,278 1,262	16.6 16.7	8.3 8.3	3,476 3,370	1,030 1,021	2,446 2,349	824 774	2,525 2.512	579 580
1997 1998	6,739 6,210	2,538 2,622 2,568	2,138 1,950	995 763	1,067 875	15.8 14.5	8.0 6.7	3,037 2,822 2,622	931 866	2,106 1,957	795 734	2,338 2,132 2,005	569 520
2000	5,880 5,692	2,558	1,832 1,815	755 669	725 649	13.4 12.6	6.4 5.9	2,517	848 852	1,774 1,664	783 780	1,961	469 434
2001	6,801 8,378	2,853 2,893 2,785	2,196 2,580	951 1,369	801 1,535 1,936	13.1 16.6	6.8 9.1	3,476 4,607	1,067 1,124	2,409 3,483 3,717	835 866	2,031 2,368 2,477	459 536
2003 2004 2005	8,774 8,149 7,591	2,765 2,696 2,667	2,612 2,382 2,304	1,442 1,293 1,130	1,936 1,779 1,490	19.2 19.6 18.4	10.1 9.8 8.9	4,838 4,197 3,667	1,121 998 933	3,117 3,199 2,734	818 858 872	2,477 2,408 2,386	641 686 666
2006 2007	7,001 7,078	2,614 2,542	2,121 2,232	1,031 1,061	1,235 1,243	16.8 16.8	8.3 8.5	3,321 3,515	921 976	2,400 2,539	827 793	2,237 2,142	616 627
2007: Jan Feb	7,043 6,837	2,596 2,567	2,298 2,181	995 935	1,138 1,216	16.5 16.6	8.2 8.2	3,399 3,449	1,017 1,016	2,382 2,433	791 810	2,195 2,029	615 580
Mar Apr	6,738 6,829	2,338 2,442 2,467	2,156 2,147 2,187	976 1,066	1,207 1,193	17.2 17.0	8.6 8.6	3,240 3,316	865 1,019	2,375 2,297 2,379	755 749	2,143 2,169 2,149	600 599
May June	6,863 6,997	2,505	2,140	1,099 1,136	1,137	16.6 16.8	8.3 8.3	3,375 3,418	997 862	2,555	768 810	2,125	557 628
July Aug Sept	7,137 7,133 7,246	2,496 2,610 2,537	2,220 2,201 2,330	1,091 1,124 1,112	1,311 1,252 1,280	17.3 16.9 16.6	8.9 8.6 8.9	3,629 3,632 3,622	983 981 963	2,646 2,652 2,660	823 794 839	2,082 2,076 2,154	602 603 685
Oct Nov	7,246 7,291 7,181	2,508 2,633	2,454 2,157	1,052 1,014	1,315 1,384	17.0 17.2	8.7 8.7	3,731 3,609	1,064 979	2,668 2,630	790 783	2,154 2,103 2,160	709 669
Dec 2008: Jan	7,655	2,793 2,634	2,330	1,182 1,124	1,338	16.6 17.5	8.4 8.8	3,857 3,796	975 1,040	2,882 2,756	798 830	2,343 2,201	697 667
Feb Mar	7,576 7,381 7,815	2,639 2,767	2,396 2,396 2,525	1,079 1,118	1,299 1,282	16.8 16.2	8.4 8.1	3,854 4,154	971 1,056	2,883 3,098	769 781	2,112 2,117	648 681
Apr May	7,626 8,487	2,484 3,244	2,495 2,469	1,272	1,353 1,550	16.9 16.6 17.5	9.3 8.3 10.0	4,014 4,282	1,099 1,113	2,915 3,169	850 870 833	2,134	624 828 748
June July Aug	8,499 8,784 9,376	2,712 2,835 3,235	2,999 2,823 2,821	1,328 1,440 1,561	1,587 1,678 1,841	17.5 17.1 17.4	9.7 9.2	4,370 4,407 4,824	1,077 1,037 1,266	3,292 3,370 3,559	833 861 999	2,498 2,705 2,652	811 820
Sept Oct	9,477 10,080	2,853 3,065	3,051 3,003	1,598 1,805	2,008 2,257	18.4 19.7	10.2 10.6	5,171 5,719	1,407	3,764 4,379	974 940	2,555 2,623	822 828
Nov	10,331	3,251	3,091	1,757	2,206	18.8	10.0	6,072	1,395	4,677	935	2,636	759

Note.—Data relate to persons 16 years of age and over. See footnote 5 and Note, Table B–35.

Because of independent seasonal adjustment of the various series, detail will not sum to totals.
 For 1967, the sum of the unemployed categorized by reason for unemployment does not equal total unemployment.
 Beginning with January 1994, job losers and persons who completed temporary jobs.

Table B-45.—Unemployment insurance programs, selected data, 1978–2008

[Thousands of persons, except as noted]

		All programs				State p	rograms		
Year or month	Covered employ- nent ^{1, 2}	Insured unemploy- ment (weekly average) ^{3, 4}	Total benefits paid (millions of dollars) 3, 5	Insured unemploy- ment (weekly average) 4	Initial claims (weekly average)	Exhaustions (weekly average) 6	Insured unemploy- ment as percent of covered	Total (millions of	ts paid Average weekly check
			,				employment	dollars) ⁵	(dollars) ⁷
1978 1979	88,804 92,062	2,645 2,592	9,007 9,401	2,359 2,434	346 388	39 39	3.3 2.9	7,717 8,613	83.67 89.67
1980	92,659 93,300 91,628 91,898 96,474 99,186 101,099 103,936 107,156 109,929	3,837 3,410 4,592 3,774 2,560 2,699 2,739 2,369 2,135 2,205	16,175 15,287 24,491 20,968 13,739 15,217 16,563 14,684 13,481 14,569	3,350 3,047 4,059 3,395 2,475 2,617 2,643 2,300 2,081 2,158	488 460 583 438 377 397 378 328 310 330	59 57 80 80 50 49 52 46 38 37	3.9 3.5 4.6 3.9 2.8 2.9 2.8 2.4 2.0 2.1	13,761 13,262 20,649 18,549 13,237 14,707 15,950 14,211 13,086 14,205	98.95 106.70 119.34 123.59 123.47 128.11 135.65 140.39 144.74
1990	111,500 109,606 110,167 112,146 115,255 118,068 120,567 121,044 124,184 127,042	2,575 3,406 3,348 2,845 2,746 2,639 2,656 2,370 2,260 2,223	18,387 26,327 826,035 822,629 22,508 21,991 22,495 20,324 19,941 21,024	2,522 3,342 3,245 2,751 2,670 2,572 2,595 2,323 2,222 2,188	388 447 408 341 340 357 356 323 321 298	45 67 74 62 57 51 53 48 44	2.4 3.2 3.1 2.6 2.4 2.3 2.2 1.9 1.8 1.7	17,932 25,479 25,056 21,661 21,537 21,226 21,820 19,735 19,431 20,563	161.20 169.56 173.38 179.41 181.91 187.04 189.27 192.84 200.58 212.10
2000 2001 2002 2003 2003 2004 2005 2006	 129,877 129,636 128,234 127,796 129,278 131,572 133,834 135,366	2,146 3,012 3,624 3,573 2,999 2,709 2,521 2,613	20,983 32,228 942,980 942,413 936,388 32,073 30,640 33,004	2,110 2,974 3,585 3,531 2,950 2,661 2,476 2,572	301 404 407 404 345 328 313 324 **	41 54 85 85 68 55 51	1.6 2.3 2.8 2.8 2.3 2.0 1.9 1.9	20,507 31,680 47,251 43,159 35,776 31,238 29,800 32,241	221.01 238.07 256.79 261.67 262.50 266.62 277.19 287.73
2007: Jan Feb Mar Apr June July Aug Sept Oct. Nov Dec Dec Mar Sept Sept Dec Dec Sept Sept Dec Market Sept Dec Sept Dec Sept Dec Sept Sept Dec Sept Dec Sept Sept Sept Sept Sept Sept Sept Sept		3,163 3,104 2,741 2,833 2,240 2,705 2,272 2,346 2,260 2,277 3,075	3,591.5 3,122.7 3,052.2 2,890.7 2,602.8 2,297.7 2,771.3 2,543.1 2,222.2 2,589.2 2,427.4 3,081.2	2,482 2,523 2,500 2,524 2,504 2,529 2,550 2,579 2,553 2,573 2,620 2,696	314 324 313 320 307 318 309 324 319 329 339 344	56 51 48 58 52 48 55 47 48 51 46 51	1.9 1.9 1.9 1.9 1.9 1.9 2.0 1.9 2.0 2.0	3,509.8 3,056.3 2,987.0 2,828.3 2,544.6 2,248.3 2,711.8 2,483.9 2,166.4 2,520.5 2,365.1 3,010.7	287.20 290.49 290.62 288.90 288.94 279.60 281.22 286.52 289.42 290.02
2008: Jan Feb Feb Mar Apr May June July Aug Sept Oct P		3,275 3,260 3,557 3,040 2,669 3,110 3,008 3,181 3,163 2,981	3,872.7 3,555.6 3,778.6 3,563.6 2,991.8 3,145.8 103,470.7 103,203.1 103,493.6 103,444.4	2,718 2,776 2,910 3,012 3,096 3,126 3,233 3,429 3,581 3,787	337 346 374 365 369 389 406 440 475 478	57 53 60 65 58 62 66 66 69 98	2.0 2.1 2.2 2.3 2.3 2.3 2.4 2.6 2.7 2.8	3,795.6 3,490.1 3,713.4 3,503.0 2,942.1 3,094.0 3,413.6 3,146.6 3,430.0 3,373.5	297.86 300.02 299.60 298.80 297.40 293.66 290.97 290.65 294.78 297.24

^{**} Monthly data are seasonally adjusted.

Note.—Insured unemployment and initial claims programs include Puerto Rican sugar cane workers.

Source: Department of Labor (Employment and Training Administration).

Through 1996, includes persons under the following programs: State, Unemployment Compensation for Federal Employees (UCFE), Railroad Retirement Board (RRB), and Unemployment Compensation for Ex-Servicemembers (UCX). Beginning with 1997, covered employment data are under the State and UCFE programs and UCK, Workers covered by State programs account for about 97 percent of wage and salary earners.

2 Covered employment data beginning 2001 are based on the North American Industry Classification System (NAICS). Prior data are based on the Standard

Industrial Classification (SIC)

³ Includes State, UCFE, RRB, and UCX. Also includes Federal and State extended benefit programs. Does not include Federal Supplemental Benefits (FSB), Special Unemployment Assistance (SUA), Federal Supplemental Compensation, Emergency Unemployment Compensation, and Temporary Extended Unemployment Compensation (TEUC) programs.

⁴ Covered workers who have completed at least one week of unemployment.

⁵ Annual data are net amounts, and monthly data are gross amounts.

⁶ Individuals receiving final payments in benefit year.

⁷ For total unemployment only.

⁸ Including Emergency Unemployment Compensation (EUC), total benefits paid would be approximately (in millions of dollars): 39,990 for 1992 and 34,876 for 1993.

⁹ Including TEUC, total benefits paid (not including RRB program) would be approximately (in millions of dollars): 52,709 for 2002; 63,097 for 2003; and 37,932 for 2004.
¹⁰ Including EUC 2008, total benefits paid (not including RRB program) would be approximately (in millions of dollars): 3,837.5 for July; 4,727.2 for August;

^{5,273.5} for September; and 4,697.0 for October.

Table B-46.—Employees on nonagricultural payrolls, by major industry, 1960-2008

[Thousands of persons; monthly data seasonally adjusted]

				Goods-produc	ing industries			Service	e-providing in	dustries
Year or month	Total	T	Natural resources	Con-	1	Manufacturing]	T	Trade, trar and ut	isportation,
		Total	and mining	struc- tion	Total	Durable goods	Nondurable goods	Total	Total	Retail trade
1960	54,296 54,105 55,659 56,764 58,391 60,874 64,020 65,931 68,023 70,512	19,182 18,647 19,203 19,385 19,733 20,595 21,740 21,882 22,292 22,893	771 728 709 694 697 694 690 679 671 683	2,973 2,908 2,997 3,060 3,148 3,284 3,371 3,305 3,410 3,637	15,438 15,011 15,498 15,631 15,888 16,617 17,680 17,897 18,211	9,071 8,711 9,099 9,226 9,414 9,973 10,803 10,952 11,137 11,396	6,367 6,300 6,399 6,405 6,474 6,644 6,878 6,945 7,074 7,177	35,114 35,458 36,455 37,379 38,658 40,279 42,280 44,049 45,731 47,619	11,147 11,040 11,215 11,367 11,677 12,139 12,611 12,950 13,334 13,853	5,589 5,560 5,672 5,781 5,977 6,262 6,530 6,711 6,977 7,295
1970 1971 1972 1973 1974 1975 1976 1977 1978	71,006 71,335 73,798 76,912 78,389 77,069 79,502 82,593 86,826 89,932	22,179 21,602 22,299 23,450 23,364 21,318 22,025 22,972 24,156 24,997	677 658 672 693 755 802 832 865 902 1,008	3,654 3,770 3,957 4,167 4,095 3,608 3,662 3,940 4,322 4,562	17,848 17,174 17,669 18,589 18,514 16,909 17,531 18,167 18,932 19,426	10,762 10,229 10,630 11,414 11,432 10,266 10,640 11,132 11,770 12,220	7,086 6,944 7,039 7,176 7,082 6,643 6,891 7,035 7,162 7,206	48,827 49,734 51,499 53,462 55,025 55,751 57,477 59,620 62,670 64,935	14,144 14,318 14,788 15,349 15,693 15,606 16,128 16,765 17,658 18,303	7,463 7,657 8,038 8,371 8,536 8,606 9,359 9,879 10,180
1980	90,528 91,289 89,677 90,280 94,530 97,511 99,474 102,088 105,345 108,014	24,263 24,118 22,550 22,110 23,435 23,585 23,318 23,470 23,909 24,045	1,077 1,180 1,163 997 1,014 974 829 771 770 750	4,454 4,304 4,024 4,065 4,501 4,793 4,937 5,090 5,233 5,309	18,733 18,634 17,363 17,048 17,920 17,552 17,552 17,609 17,985	11,679 11,611 10,610 10,326 11,050 11,034 10,767 10,969 11,004	7,054 7,023 6,753 6,722 6,870 6,784 6,757 6,842 6,938 6,981	66,265 67,172 67,127 68,171 71,095 73,926 76,156 78,618 81,436 83,969	18,413 18,604 18,457 18,668 19,653 20,379 20,795 21,302 21,974 22,510	10,244 10,364 10,372 10,635 11,223 11,733 12,078 12,419 12,808 13,108
1990	109,487 108,375 108,726 110,844 114,291 117,298 119,708 122,776 125,930 128,993	23,723 22,588 22,095 22,219 22,774 23,156 23,409 23,886 24,354 24,465	765 739 689 666 659 641 637 654 645	5,263 4,780 4,608 4,779 5,095 5,274 5,536 5,813 6,149 6,545	17,695 17,068 16,799 16,774 17,020 17,241 17,237 17,419 17,560 17,322	10,737 10,220 9,946 9,901 10,132 10,373 10,486 10,705 10,911 10,831	6,958 6,848 6,853 6,872 6,889 6,868 6,751 6,714 6,649 6,491	85,764 85,787 86,631 88,625 91,517 94,142 96,299 98,890 101,576 104,528	22,666 22,281 22,125 22,378 23,128 23,834 24,239 24,700 25,186 25,771	13,182 12,896 12,828 13,021 13,491 13,897 14,143 14,389 14,609
2000	131,785 131,826 130,341 129,999 131,435 133,703 136,086 137,623	24,649 23,873 22,557 21,882 22,190 22,531 22,221	599 606 583 572 591 628 684 723	6,787 6,826 6,716 6,735 6,976 7,336 7,691 7,614	17,263 16,441 15,259 14,510 14,315 14,226 14,155 13,884	10,877 10,336 9,485 8,964 8,925 8,956 8,981 8,816	6,386 6,105 5,774 5,546 5,390 5,271 5,174 5,068	107,136 107,952 107,784 108,183 109,553 111,513 113,556 115,402	26,225 25,983 25,497 25,287 25,533 25,959 26,276 26,608	15,280 15,239 15,025 14,917 15,058 15,280 15,353 15,491
2007: Jan Feb Mar Apr Apr June July Aug Sept Oct Nov Dec	137,108 137,133 137,310 137,356 137,518 137,625 137,756 137,757 138,037 138,037	22,447 22,322 22,362 22,300 22,272 22,267 22,242 22,176 22,138 22,101 22,049 21,976	706 711 715 718 719 721 726 727 727 727 735 739	7,726 7,623 7,694 7,660 7,643 7,656 7,632 7,589 7,577 7,520 7,465	14,015 13,988 13,953 13,922 13,910 13,890 13,884 13,842 13,797 13,794 13,772	8,897 8,883 8,863 8,847 8,832 8,816 8,792 8,778 8,763 8,763	5,118 5,105 5,090 5,075 5,078 5,074 5,067 5,052 5,034 5,033	114,661 114,918 115,056 115,246 115,358 115,440 115,580 115,876 115,988 116,102	26,493 26,516 26,584 26,571 26,593 26,600 26,617 26,649 26,644 26,693 26,658	15,447 15,460 15,520 15,487 15,500 15,484 15,489 15,502 15,487 15,489
2008: Jan	138,002 137,919 137,831 137,764 137,717 137,617 137,550 137,423 137,020 136,700 136,167	21,907 21,816 21,737 21,628 21,577 21,491 21,437 21,367 21,250 21,083 20,920	744 744 750 752 760 768 777 788 795 796 800	7,426 7,382 7,343 7,284 7,196 7,173 7,153 7,098 7,034 6,952	13,737 13,690 13,644 13,592 13,571 13,527 13,487 13,426 13,357 13,253 13,168	8,718 8,685 8,652 8,607 8,564 8,564 8,482 8,433 8,349 8,287	5,019 5,005 4,992 4,985 4,977 4,963 4,946 4,944 4,924 4,904 4,881	116,095 116,103 116,094 116,136 116,140 116,126 116,113 116,056 115,770 115,617	26,631 26,579 26,552 26,496 26,451 26,431 26,393 26,346 26,225 26,124 25,977	15,472 15,429 15,401 15,356 15,332 15,322 15,275 15,199 15,137 15,046

 $^{^{\}rm 1}$ Includes wholesale trade, transportation and warehousing, and utilities, not shown separately.

See next page for continuation of table.

Note.—Data in Tables B-46 and B-47 are based on reports from employing establishments and relate to full- and part-time wage and salary workers in nonagricultural establishments who received pay for any part of the pay period that includes the 12th of the month. Not comparable with labor force data (Tables B-95 through B-44), which include proprietors, self-employed persons, unpaid family workers, and private household workers; which count persons as employed when they are not at work because of industrial disputes, bad weather, etc., even if they are not paid for the time off; which are based on a

Table B-46.—Employees on nonagricultural payrolls, by major industry, 1960-2008—Continued [Thousands of persons; monthly data seasonally adjusted]

						dustries—Con				
Year or month		Cianasia!	Profes-	Education	Leisure	Oals		Gover	nment	
	Information	Financial activities	sional and business services	and health services	and hospitality	Other services	Total	Federal	State	Local
1960	1,728	2,532	3,694	2,937	3,460	1,152	8,464	2,381	1,536	4,547
1961 1962	1,693 1,723	2,590 2,656	3,744 3,885	3,030 3,172	3,468 3,557	1,188 1,243	8,706 9,004	2,391 2.455	1,607 1,669	4,708 4.881
1963	1,735	2,731 2,811	3,990	3,288	3,639	1,288	9,341	2,473 2,463	1.747	5 121
1963 1964	1,766	2,811	4,137	3,438	3,772	1,346	9,711	2,463	1,856	5,392
1965 1966	1,824 1,908	2,878 2,961	4,306 4,517	3,587 3,770	3,951 4,127	1,404 1,475	10,191 10,910	2,495 2,690	1,996 2,141	5,700 6,080
19h/	1,955	3,087	4,720	3,986	4,269	1,558	11,525	2,852	2,302	6,371
1968	1,991 2,048	3,234 3,404	4,918	4,191	4,453	1,638	11,972	2,871	2,442 2,533	6,660 6,904
1969	2,046	3,404	5,156 5,267	4,428 4,577	4,670 4,789	1,731 1.789	12,330 12,687	2,893 2,865	2,664	
1970 1971	2,041	3,651	5,207	4,577	4,769	1,769	13,012	2,828	2,004	7,158 7,437
1972 1973	2.056	3,784	5,523	4,863	5,121	1 900	13,465	2,815	2,859	7,790
1973 1974	2,135 2,160	3,920 4,023	5,774 5,974	5,092 5,322	5,341 5,471	1,990 2,078	13,862 14,303	2,794 2,858	2,923 3,039	8,146 8,407
1975	2,100	4,023	6,034	5,497	5,544	2,144	14,820	2,882	3,179	8,758
	2,111	4,155	6,287	5,756	5,794	2.244	15,001	2,863	3,273	8,865
1977	2,185 2,287	4,348 4,599	6,587 6,972	6,052 6,427	6,065 6,411	2,359 2,505	15,258 15,812	2,859 2,893	3,377 3,474	9,023 9,446
1976 1977 1978 1979	2,287 2,375	4,843	7,312	6,767	6,631	2,637	16,068	2,894	3,541	9,633
1980	2,361	5,025	7,544	7,072	6,721	2,755	16,375	3,000	3,610	9,765
1981	2,382	5,163	7,782	7,357	6,840 6,874	2,865 2,924	16,180	2,922 2.884	3,640 3,640	9,619 9,458
1982 1983 1984	2,317 2,253 2,398	5,209 5,334	7,848 8,039	7,515 7,766	7.078	3,021	15,982 16,011	2.915	3,662	9,434
1984	2,398	5,553	8,464	8,193	7,489	3,186	16,159	2,943	3,734	9,482
1985	2,437 2,445	5,815 6,128	8,871 9,211	8,657 9,061	7,869 8,156	3,366 3,523	16,533 16,838	3,014 3,044	3,832 3,893	9,687 9,901
1986 1987	2,507	6,385	9,608	9,515	8,446	3,699	17,156	3,089	3,967	10,100
1988 1989	2,585	6,500	10,090	10,063	8,778	3,907	17,540 17,927	3,124	4,076	10,339
1990	2,622	6,562 6,614	10,555 10,848	10,616 10,984	9,062 9,288	4,116 4,261	18,415	3,136	4,182 4,305	10,609 10,914
1991	2,688 2,677	6.558	10,040	11,506	9,256	4.249	18,545	3,196 3,110 3,111	4,303	11.081
1991 1992	2,641	6,558 6,540	10,714 10,970	11,506 11,891	9,437	4,240	18,545 18,787	3,111	4,408	11,081 11,267
1993 1994	2,668 2,738	6,709 6.867	11,495 12,174	12,303 12,807	9,732 10,100	4,350 4,428	18,989 19,275	3,063 3,018	4,488 4,576	11,438 11,682
1995	2.843	6,827	12,844	13,289	10,501	4,572	19,432	2,949	4,635	11.849
1996	2,940 3,084	6,969 7,178	13,462 14,335	13,683 14,087	10,777 11,018	4,690 4,825	19,539 19,664	2,877 2,806	4,606 4,582	12,056 12,276
1997 1998	3,004	7,176	15,147	14,067	11,010	4,023	19,004	2,000	4,502	12,276
1999	3,419	7,648	15,957	14,798	11,543	5,087	20,307	2,769	4,709	12,829
2000	3,630	7,687	16,666	15,109	11,862	5,168	20,790 21,118	2,865	4,786	13,139
2001	3,629 3,395	7,808 7,847	16,476 15,976	15,645 16,199	12,036 11,986	5,258 5,372	21,118	2,764 2,766	4,905 5,029	13,449 13,718
7003	3.188	7,977	15,987	16.588	12,173	5,401	21,583	2,761	5,002	13.820
2004	3,118 3,061	8,031 8,153	16,394 16,954	16,953 17,372	12,493 12,816	5,409 5,395	21,621 21,804	2,730 2,732	4,982 5,032	13,909 14,041
ZUUb	3,038	8.328	17,566	17,826	13.110	5.438	21.974	2,732 2,727	5,075	14,167
2007	3,029	8,308	17,962	18,327	13,474	5,491	22,203		5,125	14,351
2007: Jan	3,028 3,036	8,349 8,347	17,848 17,873	18,072 18,111	13,306 13,331	5,462 5,470	22,103 22,127 22,143 22,161	2,728 2,729	5,105 5,114	14,270
Feb Mar	3,030	8.333	17,875	18,153	13.351	5,479	22,127	2.729	5,114	14,284 14,300
Apr	3,034	8,315	17,903	18,211	13,375	5,486	22,161	2,729	5,117	14,315
May June	3,037 3,033	8,322 8,317	17,938 17,935	18,247 18,314	13,428 13,461	5,495 5,496	22,186 22,202	2,727 2,720	5,119 5,126	14,340 14,356
July	3.027	8,331	17,958 17,979	18,360	13,476	5,501	22,202 22,170 22,212	2,726 2,724	5,123 5,123	14,321
Aug Sept	3,024 3,031	8,312 8,294	17,979 18,000	18,422 18,451	13,494 13,552	5,497 5,495	22,212 22,227	2,724 2,721	5,123 5,138	14,365 14,368
Oct	3,027	8,283	18,070	18,490	13,604	5,496	22.262	2,722	5,138	14,402
Nov	3,022	8,260	18,079	18,522	13,628	5,506	22,278	2,728	5,131	14,419
Dec	3,018	8,252	18,131	18,568	13,635	5,507	22,333	2,735	5,153	14,445
2008: Jan Feb	3,014 3,016	8,244 8,231	18,101 18,073	18,617 18,665	13,644 13,660	5,508 5,517	22,336 22,362	2,717 2,725	5,159 5,158	14,460 14,479
Mar	3,013	8,231	18,014	18,709	13,676	5,522	22.377	2,726	5,157	14,494
Apr May	3,007 3,002	8,229 8,226	18,031 17,982	18,757 18,820	13,690 13,679	5,525 5,527	22,401 22,453	2,734 2,740	5,170 5,174	14,497 14,539
June	2,997	8,213	17,927	18,891	13,679	5,525	22,463	2,744	5,179	14,540
July	2,988 2,984	8,206	17,904	18,935	13,655	5,530	22,502	2,750	5,193	14,559
Aug Sept	2,984	8,196 8,173	17,854 17,789	18,997 18,993	13,639 13,587	5,526 5,530	22,514 22,495	2,748 2,750	5,210 5,206	14,556 14,539
Oct ^p Nov ^p	2,978 2,972	8,142	17,789 17,726	19,021	13,562	5,533	22,495 22,537	2,750 2,769	5,209	14,559
Nov ^p	2,953	8,110	17,590	19,073	13,486	5,514	22,544	2,769	5,215	14,560

Note (cont'd).—sample of the working-age population; and which count persons only once—as employed, unemployed, or not in the labor force. In the data shown here, persons who work at more than one job are counted each time they appear on a payroll.

Establishment data for employment, hours, and earnings are classified based on the 2007 North American Industry Classification System (NAICS). For further description and details see *Employment and Earnings*.

Table B–47.—Hours and earnings in private nonagricultural industries, 1960–2008 ¹ [Monthly data seasonally adjusted]

	Avei	age weekly h	ours	Avera	age hourly ear	nings	Aver	age weekly ea	ırnings, total p	rivate
Year or month	Total	Manufa	ecturing	Total	orivate	Manu- facturing	Le	vel	Percent from year	change ar earlier
	private	Total	Overtime	Current dollars	1982 dollars ²	(current dollars)	Current dollars	1982 dollars ²	Current dollars	1982 dollars ²
1960 1961 1962 1963 1964 1965 1966 1966 1967	38.5 38.6 38.5 37.9 37.7	39.8 39.9 40.5 40.6 40.8 41.2 41.4 40.6	2.5 2.4 2.8 3.1 3.6 3.9 3.3	\$2.53 2.63 2.73 2.85 3.02	\$7.86 8.04 8.13 8.21 8.37	\$2.15 2.20 2.27 2.34 2.41 2.49 2.60 2.71 2.89	\$97.41 101.52 105.11 108.02 113.85	\$302.52 310.46 312.83 311.30 315.37	4.2 3.5 2.8 5.4	2.6 .8 5 1.3
1969 1970 1971 1972 1973 1974 1975 1976 1977 1978	37.5 37.0 36.8 36.9 36.4 36.0 35.1 35.8 35.8	40.6 39.8 39.9 40.6 40.7 40.0 39.5 40.1 40.3 40.4 40.4	3.6 2.9 2.9 3.4 3.8 3.2 2.6 3.1 3.4 3.6 3.3	3.22 3.40 3.63 3.90 4.14 4.43 4.73 5.06 5.44 5.88 6.34	8.45 8.64 8.99 8.98 8.65 8.48 8.56 8.69 8.69	3.07 3.23 3.45 3.70 3.97 4.31 4.71 5.09 5.55 6.05	120.75 125.80 133.58 143.91 152.77 161.25 170.28 182.67 195.30 210.50 225.70	316.93 312.94 318.05 331.59 331.39 314.94 305.16 309.61 310.99 310.93 299.34	6.1 4.2 6.2 7.7 6.2 5.6 7.3 6.9 7.8 7.2	.5 -1.3 1.6 4.3 1 -5.0 -3.1 1.5 .4 .0 -3.7
1980	35.2 35.2 34.7 34.9 35.1 34.9 34.7 34.7 34.6 34.5	40.2 39.7 39.8 38.9 40.1 40.7 40.5 40.7 41.0 40.9	3.3 2.8 2.3 2.9 3.4 3.3 3.4 3.7 3.7 3.8	6.85 7.44 7.87 8.20 8.49 8.74 8.93 9.14 9.44	8.00 7.89 7.87 7.96 7.96 7.92 7.97 7.87 7.82	7.15 7.86 8.36 8.70 9.05 9.40 9.59 9.77 10.05	225.70 241.12 261.89 273.09 286.18 298.00 305.03 309.87 317.16 326.62 338.10	299.34 281.68 277.72 273.09 277.84 279.55 276.55 276.42 273.18 270.60 267.27	6.8 8.6 4.3 4.8 4.1 2.4 1.6 2.4 3.0 3.5	-5.7 -5.9 -1.4 -1.7 .6 -1.1 .0 -1.2 -9
1990 1991 1992 1993 1993 1995 1996 1997 1997	34.3 34.1 34.2 34.3 34.5 34.3 34.5 34.5 34.5	40.5 40.4 40.7 41.1 41.7 41.3 41.3 41.7 41.4	3.9 3.8 4.0 4.4 5.0 4.7 4.8 5.1 4.9	10.20 10.52 10.77 11.05 11.34 11.65 12.04 12.51 13.01	7.66 7.59 7.55 7.54 7.54 7.57 7.69 7.89 8.01	10.78 11.13 11.40 11.70 12.04 12.34 12.75 13.14 13.45	349.75 358.51 368.25 378.91 391.22 400.07 413.28 431.86 448.56 463.15	262.77 258.67 258.24 258.47 260.29 258.78 259.92 265.60 272.18 275.03	3.4 2.5 2.7 2.9 3.2 2.3 3.3 4.5 3.9 3.3	-1.7 -1.6 2 .1 .7 6 .4 2.2 2.5 1.0
2000 2001 2002 2003 2004 2005 2006 2007	34.3 34.0 33.9 33.7 33.7 33.8 33.9 33.8	41.3 40.3 40.5 40.4 40.8 40.7 41.1 41.2	4.7 4.0 4.2 4.2 4.6 4.6 4.4 4.2	14.02 14.54 14.97 15.37 15.69 16.13 16.76 17.42	8.04 8.12 8.25 8.28 8.24 8.18 8.24 8.32	14.32 14.76 15.29 15.74 16.14 16.56 16.81	481.01 493.79 506.75 518.06 529.09 544.33 567.87 589.72	275.97 275.71 279.20 279.13 277.88 276.17 279.19 281.82	3.9 2.7 2.6 2.2 2.1 2.9 4.3 3.8	.3 1 1.3 .0 4 6 1.1
2007: Jan Feb Mar Apr Apr June July Aug Sept. Oct. Nov Dec 2008: Jan Feb Mar Apr May June June July Aug Sept. Oct. Nov Dec 2008: Jan Feb Apr Apr June July Aug Sept. Oct. Apr June July Aug Sept. Oct.	33.8 33.7 33.9 33.8 33.8 33.8 33.8 33.8 33.7 33.7 33.7	40,9 40,9 41,2 41,1 41,1 41,4 41,4 41,2 41,0 41,0 41,0 41,0 41,0 41,0 41,0 41,0	4.1 4.3 4.2 4.1 4.3 4.2 4.2 4.2 4.1 4.0 4.0 4.0 4.0 3.9 3.8 3.8 3.8 3.7 3.5 3.5 3.5	17.12 17.17 17.24 17.29 17.34 17.41 17.47 17.51 17.59 17.64 17.70 17.75 17.89 17.89 17.95 18.00 18.10 18.11	8.35 8.33 8.31 8.31 8.32 8.35 8.35 8.35 8.37 8.27 8.27 8.28 8.29 8.29 8.29 8.29 8.21 8.17 8.17 8.17 8.17 8.17 8.17 8.17 8.1	17.02 17.06 17.11 17.20 17.23 17.28 17.30 17.34 17.40 17.41 17.49 17.55 17.61 17.71 17.78 17.76 17.77	578.66 578.63 584.40 586.09 590.20 590.49 591.84 593.87 594.54 596.23 598.18 600.20 604.01 604.61 606.60 608.62 611.32 610.51 612.53	281.34 281.52 281.52 281.54 280.83 282.17 281.65 282.30 282.20 281.72 279.67 279.53 278.27 279.52 279.62 277.57 279.12 279.62 277.57 279.12 279.62 277.57 279.53 275.53 275.53	3.9 3.8 3.5 3.5 3.5 3.7 4.1 3.7 4.1 3.5 3.8 3.4 3.7 3.3 3.3 3.2 2.8 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3	2.0 1.6 1.7 .9 1.3 1.5 1.4 1.9 -1.0 -1.4 8 9 7 -1.1 -2.5 -2.5 -2.5 -8

Note.—See Note, Table B-46.

¹ For production or nonsupervisory workers; total includes private industry groups shown in Table B–46.
² Current dollars divided by the consumer price index for urban wage earners and clerical workers on a 1982=100 base.

Table B-48.—Employment cost index, private industry, 1990-2008

	1	Total private	9	Go	ods-produci	ing	Ser	vice-providi	ng ¹	l N	Manufacturi	ng
Year and month	Total compen- sation	Wages and salaries	Benefits ²	Total compen- sation	Wages and salaries	Benefits ²	Total compen- sation	Wages and salaries	Benefits ²	Total compen- sation	Wages and salaries	Benefits ²
				Indexes or	n SIC basis,	December 2	2005=100; n	ot seasonal	ly adjusted			
December: 1990 1991 1991 1992 1993 1994 1995 1996 1997 1997 1998	59.3 61.9 64.1 66.4 68.5 70.2 72.4 77.5 80.2	62.3 64.6 66.3 68.3 70.2 72.2 74.7 77.6 80.6 83.5	52.9 56.2 59.1 62.0 64.3 65.7 67.0 68.5 70.2 72.6	59.4 62.1 64.5 67.0 69.0 70.7 72.7 74.5 76.5	63.4 65.8 67.6 69.6 71.7 73.7 76.0 78.3 81.1 83.8	52.3 55.5 58.7 62.0 64.1 65.2 66.4 67.3 68.1 70.5	59.4 61.9 63.9 66.2 68.1 70.0 72.3 75.1 78.0 80.6	61.8 64.1 65.7 67.8 69.6 71.7 74.2 77.4 80.5 83.4	53.4 56.7 59.4 62.0 64.4 66.0 67.3 69.2 71.4 73.8	59.1 61.9 64.3 66.9 69.0 70.8 72.9 74.6 76.6 79.2	63.1 65.6 67.6 69.7 71.8 73.9 76.3 78.6 81.3	52.1 55.2 58.3 61.8 63.9 65.0 66.5 67.4 67.9 70.3
2000 2001	83.6 87.1	86.7 90.0	76.7 80.6	82.6 85.7	87.1 90.2	74.3 77.3	84.2 87.8	86.6 89.9	78.1 82.5	82.3 85.3	87.1 90.2	73.6 76.3
				Indexes on	NAICS basis	s, December	2005=100;	not season	ally adjuste	d		
2001 ³	87.3 90.0 93.6 97.2 100.0 103.2 106.3	89.9 92.2 95.1 97.6 100.0 103.2 106.6	81.3 84.7 90.2 96.2 100.0 103.1 105.6	86.0 89.0 92.6 96.9 100.0 102.5 105.0	90.0 92.6 94.9 97.2 100.0 102.9 106.0	78.5 82.3 88.2 96.3 100.0 101.7 103.2	87.8 90.4 94.0 97.3 100.0 103.4 106.7	89.8 92.1 95.2 97.7 100.0 103.3 106.8	82.4 85.8 91.0 96.1 100.0 103.7 106.6	85.5 88.7 92.4 96.9 100.0 101.8 103.8	90.2 92.8 95.1 97.4 100.0 102.3 104.9	77.2 81.3 87.3 96.0 100.0 100.8 101.7
2008: Mar June Sept	107.3 108.0 108.7	107.6 108.4 109.1	106.5 107.0 107.5	106.1 106.8 107.2	107.1 108.0 108.6	104.0 104.4 104.6	107.7 108.5 109.1	107.7 108.6 109.3	107.6 108.1 108.7	104.7 105.1 105.6	105.9 106.7 107.4	102.3 102.2 102.3
							er 2005=10					
2007: Mar	104.0 104.8 105.6 106.5 107.3 107.9 108.6	104.3 105.1 105.9 106.7 107.6 108.4 109.0	103.1 104.2 105.0 105.8 106.4 106.9 107.5	102.9 103.8 104.3 105.2 106.1 106.7 107.1	103.9 104.6 105.4 106.1 107.2 107.8 108.5	101.0 102.2 102.3 103.3 104.1 104.4 104.5	104.3 105.2 106.1 106.9 107.6 108.4 109.1	104.4 105.2 106.1 106.9 107.7 108.5 109.2	104.0 105.0 106.0 106.8 107.4 108.0 108.7	101.9 102.8 103.1 103.9 104.7 105.1 105.6	103.2 103.8 104.4 105.1 105.9 106.6 107.3	99.6 101.0 100.7 101.7 102.3 102.2 102.3
				Percent	change fron	n 12 months	earlier, not	seasonally	adjusted			
December: SIC:					0.0	7.0		0.0				
1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 <i>NAICS</i> :	4.6 4.4 3.6 3.2 2.5 3.1 3.5 3.5 4.2 4.2	4.0 3.7 2.6 3.0 2.8 2.8 3.5 3.9 3.6 3.8	6.7 6.2 5.2 4.9 3.7 2.2 2.0 2.2 2.5 3.4 5.6 5.1	4.8 4.5 3.9 3.0 2.5 2.8 2.5 2.7 3.4 4.4 3.8	3.6 3.8 2.7 3.0 2.8 3.1 3.0 3.6 3.3 3.9 3.6	7.2 6.1 5.8 5.6 3.4 1.7 1.8 1.4 1.2 3.5 5.4	4.6 4.2 3.2 3.6 2.9 2.8 3.3 3.9 3.9 3.3 4.5 4.3	3.9 3.7 2.5 3.2 2.7 3.0 3.5 4.3 4.0 3.6 3.8	6.4 6.2 4.8 4.4 3.9 2.5 2.0 2.8 3.2 3.4 5.8 5.6	5.0 4.7 3.9 4.0 3.1 2.6 3.0 2.3 2.7 3.4 3.9 3.6	4.1 4.0 3.0 3.1 3.0 2.9 3.2 3.0 3.4 3.4 3.6 3.6	7.0 6.0 5.6 6.0 3.4 1.7 2.3 1.4 .7 3.5 4.7 3.7
2001 3 2002 2003 2004 2005 2006 2007 2008: Mar June 2008	4.1 3.1 4.0 3.8 2.9 3.2 3.0 3.2 3.0	3.8 2.6 3.1 2.6 2.5 3.2 3.3 3.2	5.2 4.2 6.5 6.7 4.0 3.1 2.4 3.2 2.6	3.6 3.5 4.0 4.6 3.2 2.5 2.4 3.1 2.8	3.6 2.9 2.5 2.4 2.9 2.9 3.0 3.1 3.2	3.7 4.8 7.2 9.2 3.8 1.7 1.5 3.1 2.2	4.4 3.0 4.0 3.5 2.8 3.4 3.2 3.3 3.1	3.8 2.6 3.4 2.6 2.4 3.3 3.4 3.2 3.1	5.6 4.1 6.1 5.6 4.1 3.7 2.8 3.4 2.8	3.4 3.7 4.2 4.9 3.2 1.8 2.0 2.6 2.1	3.6 2.9 2.5 2.4 2.7 2.3 2.5 2.5	3.5 5.3 7.4 10.0 4.2 .8 .9 2.7
Sept	2.8	2.9	2.4	2.7	3.0	2.1	2.8	3.0	2.5	2.3	2.8	1.6
2007: Mar	0.7 .8 .8 .9 .8 .6	1.0 .8 .8 .8 .8 .7	-0.3 1.1 .8 .8 .6 .5	0.3 .9 .5 .9 .9	0.9 .7 .8 .7 1.0 .6	-0.8 1.2 .1 1.0 .8 .3	0.8 .9 .9 .8 .7 .7	1.0 .8 .9 .8 .7 .7	0.0 1.0 1.0 8 .6 .6	0.0 .9 .3 .8 .8 .4	0.7 .6 .6 .7 .8 .7	-1.3 1.4 3 1.0 .6 1

¹ On Standard Industrial Classification (SIC) basis, data are for service-producing industries.

² Employer costs for employee benefits.
3 Data on North American Industry Classification System (NAICS) basis available beginning with 2001; not strictly comparable with earlier data shown on SIC basis.

Note.—Changes effective with the release of March 2006 data (in April 2006) include changing industry classification to NAICS from SIC and rebasing data to December 2005–100. Historical SIC data are available through December 2005.

Data exclude farm and household workers.

Table B-49.—Productivity and related data, business and nonfarm business sectors, 1959-2008 [Index numbers, 1992=100; quarterly data seasonally adjusted]

	Output of all	per hour persons		tput 1	Hour	s of all	Compe	ensation hour ³	R	eal ensation hour ⁴		labor	Implii def	cit price lator ⁵
Year or quarter	Busi-	Nonfarm	Busi-	Nonfarm	Busi-	Nonfarm	Busi-	Nonfarm	Busi-	Nonfarm	Busi-	Nonfarm	Busi-	Nonfarm
	ness	business	ness	business	ness	business	ness	business	ness	business	ness	business	ness	business
	sector	sector	sector	sector	sector	sector	sector	sector	sector	sector	sector	sector	sector	sector
1959	48.0	51.3	31.4	31.2	65.5	60.9	13.3	13.9	59.9	62.3	27.8	27.1	26.8	26.3
1960	48.9	51.9	32.0	31.8	65.6	61.2	13.9	14.5	61.3	63.9	28.4	27.9	27.1	26.6
1961	50.6 52.9 55.0 56.8 58.8 61.2 62.5 64.7	53.5 55.9 57.8 59.6 61.4 63.6 64.7 66.9	32.7 34.8 36.4 38.7 41.4 44.2 45.1 47.3	32.4 34.6 36.2 38.7 41.4 44.4 45.1 47.5	64.6 65.8 66.2 68.1 70.4 72.3 72.1 73.2	60.6 61.9 62.6 64.9 67.4 69.8 69.7 71.0	14.4 15.1 15.6 16.2 16.8 17.9 19.0 20.5	15.0 15.6 16.1 16.6 17.1 18.2 19.2 20.7	63.1 65.2 66.6 68.3 69.7 72.3 74.1 76.9	65.3 67.3 68.7 69.9 71.1 73.2 75.2 77.8	28.5 28.4 28.5 28.6 29.3 30.3 31.7	28.0 27.8 27.8 27.9 27.9 28.6 29.7 31.0	27.3 27.6 27.7 28.1 28.5 29.2 30.0 31.2	26.8 27.1 27.3 27.6 28.0 28.6 29.5 30.7
1969	65.0 66.3 69.0 71.2 73.4 72.3 74.8 77.1 78.5 79.3	67.0 68.0 70.7 73.1 75.3 74.2 76.2 78.7 80.0 81.0	48.8 48.7 50.6 53.9 57.6 56.8 56.3 60.0 63.3 67.3 69.6	48.9 50.7 54.1 58.0 57.3 56.3 60.2 63.6 67.8 70.0	75.0 73.5 73.3 75.6 78.5 78.7 75.3 77.8 80.7 84.9 87.7	73.0 71.9 71.7 74.0 77.0 77.2 73.9 76.5 79.5 83.7 86.6	21.9 23.6 25.1 26.7 28.9 31.7 34.9 38.0 41.0 44.5 48.9	22.1 23.7 25.2 26.9 29.1 31.9 35.1 41.2 44.8 49.1	78.0 79.5 80.9 83.3 85.1 84.0 84.8 87.1 88.3 89.7 89.9	78.8 79.8 81.4 84.0 85.5 84.5 85.2 87.4 88.7 90.3	33.7 35.6 36.3 37.4 39.4 43.9 46.7 49.2 52.2 56.2 61.6	33.0 34.9 35.7 36.8 38.6 43.0 46.0 48.3 51.5 55.3 60.8	32.6 34.1 35.5 36.8 38.7 42.4 46.6 49.0 52.0 55.6 60.4	32.1 33.5 35.0 36.1 37.4 41.2 45.6 48.1 51.2 54.6 59.2
1980	79.2 80.8 80.1 83.0 85.2 87.1 89.7 90.1 91.5 92.4	80.6 81.7 80.8 84.5 86.1 87.5 90.2 90.6 92.1 92.8	68.8 70.7 68.6 72.3 78.6 82.2 85.3 88.3 92.1 95.4	69.2 70.7 68.4 72.9 78.9 82.2 85.4 88.4 92.4	87.0 87.6 85.6 87.1 92.2 94.3 95.1 97.9 100.6 103.3	85.9 86.6 84.7 86.3 91.6 94.0 94.7 97.6 100.4 103.1	54.1 59.3 63.6 66.3 69.1 72.5 76.1 79.0 83.0 85.2	54.4 59.7 63.9 66.6 69.5 72.6 76.4 79.2 83.1 85.3	89.6 89.6 90.6 90.8 92.0 94.9 95.2 96.5	90.0 90.2 91.1 91.1 91.2 92.2 95.2 95.5 96.7 95.1	68.4 73.5 79.4 79.8 81.1 83.2 84.9 87.6 90.7 92.2	67.5 73.1 79.1 78.9 80.7 83.0 84.7 87.4 90.2 91.9	65.8 71.8 75.9 78.5 80.8 82.7 84.1 85.9 88.6 91.9	64.9 71.1 75.5 77.9 80.1 82.5 83.9 85.7 88.3 91.5
1990	94.4 95.9 100.0 100.4 101.4 101.5 104.5 106.5 109.5 112.8	94.5 96.1 100.0 100.4 101.5 102.0 104.7 106.4 109.4 112.5	96.9 96.1 100.0 103.1 108.2 111.4 116.5 122.7 128.6 135.2	97.1 96.3 100.0 103.4 108.3 111.8 116.8 122.8 128.9 135.6	102.7 100.2 100.0 102.7 106.8 109.7 111.5 115.2 117.5 119.8	102.7 100.2 100.0 102.9 106.6 109.6 111.5 115.4 117.9 120.5	90.6 95.1 100.0 102.2 103.7 105.8 109.5 113.0 119.9 125.8	90.4 95.0 100.0 102.0 103.7 105.9 109.4 112.8 119.6 125.2	96.2 97.5 100.0 99.8 99.0 98.7 99.5 100.5 105.2 108.1	96.0 97.4 100.0 99.5 99.1 98.8 99.5 100.4 104.9	96.0 99.1 100.0 101.8 102.3 104.2 104.8 106.1 109.5 111.5	95.7 98.9 100.0 101.6 102.1 103.8 104.5 106.0 109.3 111.3	95.1 98.2 100.0 102.1 103.9 105.7 107.4 109.0 109.7 110.7	94.9 98.1 100.0 102.1 104.0 105.8 107.3 109.1 109.9
2000	116.1	115.7	140.5	140.8	121.0	121.7	134.7	134.2	112.0	111.6	116.0	116.0	112.7	113.3
	119.1	118.6	141.0	141.3	118.4	119.2	140.3	139.5	113.5	112.8	117.9	117.7	114.9	115.4
	123.9	123.5	143.1	143.4	115.4	116.1	145.3	144.6	115.7	115.1	117.3	117.1	116.1	116.7
	128.7	128.0	147.5	147.8	114.6	115.4	151.2	150.4	117.7	117.1	117.5	117.5	117.8	118.3
	132.4	131.6	153.7	153.9	116.1	117.0	156.9	155.9	119.0	118.2	118.5	118.5	120.8	121.1
	134.8	133.9	159.1	159.2	118.0	118.9	163.2	162.2	119.7	119.0	121.0	121.1	124.6	125.1
	136.1	135.2	163.9	164.2	120.4	121.5	169.5	168.4	120.4	119.6	124.5	124.6	128.3	129.1
	138.2	137.1	167.3	167.5	121.0	122.2	176.5	175.3	121.9	121.1	127.7	127.9	131.4	131.7
2004: I II IV	131.1 132.3 132.7 133.4	130.3 131.7 132.1 132.2	151.4 153.1 154.6 155.7	151.5 153.4 154.9 155.9	115.5 115.7 116.5 116.7	116.3 116.5 117.3 117.9	153.9 155.7 157.8 160.3	152.9 154.8 156.9 158.9	118.0 118.5 119.3 119.9	117.3 117.8 118.6 118.9	117.3 117.7 118.9 120.1	117.4 117.5 118.8 120.2	119.5 120.5 121.1 122.1	119.7 120.6 121.4 122.5
2005:	134.3	133.3	157.1	157.3	117.0	118.0	161.2	160.0	120.1	119.2	120.0	120.0	123.2	123.7
	134.2	133.4	158.4	158.4	118.0	118.8	161.6	160.8	119.5	118.9	120.4	120.5	123.8	124.3
	135.6	134.6	160.2	160.3	118.2	119.1	164.1	163.2	119.6	118.9	121.1	121.2	125.0	125.6
V	135.3	134.2	160.6	160.8	118.8	119.8	165.8	164.7	119.6	118.8	122.6	122.7	126.3	126.9
2006:	136.1	135.1	162.8	163.2	119.6	120.8	168.0	166.8	120.7	119.8	123.5	123.5	127.2	127.9
	136.6	135.7	164.0	164.3	120.1	121.1	168.1	167.1	119.7	118.9	123.1	123.2	128.0	128.8
	135.9	135.0	164.1	164.4	120.8	121.8	169.0	167.9	119.1	118.3	124.3	124.4	128.8	129.5
	135.9	135.0	164.8	165.0	121.2	122.2	172.6	171.7	122.1	121.4	127.0	127.1	129.4	130.0
2007:	135.9	135.0	164.5	164.7	121.0	122.0	174.7	173.7	122.4	121.8	128.5	128.7	130.7	131.1
	137.6	136.4	166.8	167.0	121.2	122.4	175.5	174.1	121.6	120.7	127.5	127.7	131.2	131.5
	139.7	138.3	169.0	169.2	121.0	122.3	177.0	175.5	121.9	120.8	126.7	126.9	131.6	131.8
	139.7	138.6	168.8	168.9	120.8	121.9	178.9	177.8	121.7	120.9	128.1	128.3	132.2	132.5
2008:	140.5	139.5	169.1	169.3	120.3	121.4	180.6	179.5	121.5	120.8	128.5	128.7	132.9	133.2
	141.8	140.8	170.2	170.5	120.0	121.1	181.1	179.9	120.4	119.6	127.7	127.8	133.2	133.5
	142.3	141.2	169.4	169.7	119.1	120.2	182.9	181.7	119.7	118.9	128.6	128.7	134.7	135.1

Output refers to real gross domestic product in the sector.
Output refers to real gross domestic product in the sector.
Hours at work of all persons engaged in sector, including hours of proprietors and unpaid family workers. Estimates based primarily on establishment data.
Wages and salaries of employees plus employers' contributions for social insurance and private benefit plans. Also includes an estimate of wages, salaries, and supplemental payments for the self-employed.

Hourly compensation divided by the consumer price index for all urban consumers for recent quarters. The trend from 1978–2007 is based on the consumer price index research series (CPI-U-RS).
 Current dollar output divided by the output index.

Table B-50.—Changes in productivity and related data, business and nonfarm business sectors, 1959–2008 [Percent change from preceding period; quarterly data at seasonally adjusted annual rates]

	Output of all p	per hour persons		tput ¹	Hour	s of all	Compe	ensation hour ³	R	eal ensation hour ⁴	Unit	labor	Impli def	cit price lator ⁵
Year or quarter	Busi- ness sector	Nonfarm business sector	Busi- ness sector	Nonfarm business sector	Busi- ness sector	Nonfarm business sector								
1959	3.8	3.8	8.1	8.6	4.2	4.6	4.1	3.9	3.4	3.2	0.3	0.1	0.8	1.3
1960	1.7	1.2	1.9	1.7	.2 -1.5	.6	4.2	4.3	2.4	2.5 2.3	2.4	3.1	1.1	1.2
1961 1962	3.5 4.6	3.1 4.5	1.9 6.4	2.0 6.8	1.8	-1.1 2.2	3.9 4.4	3.3 4.0	2.8 3.4	3.0	.4 –.1	.2 5	.8 1.0	.8 1.0
1963 1964	3.9 3.4	3.5 3.0	4.6 6.4	4.7 6.7	.7 2.9	1.1 3.7	3.6 3.8	3.4 3.1	2.2 2.4	2.1 1.8	3 .4	1 .2	.6 1.1	.7 1.3
1965	3.5	3.1	7.0	7.1	3.4	3.9	3.7	3.3	2.1	1.7	.2 2.6	.2	1.6	1.3
1966 1967	4.1 2.2	3.6 1.7	6.8 1.9	7.1 1.7	2.6 3	3.5 .0	6.7 5.7	5.9 5.8	3.8 2.5	3.0 2.7	2.6 3.4	4.0	2.5 2.7	1.3 2.3 3.2
1968 1969	3.4 .5	3.4 .2	5.0 3.0	5.2 3.0	1.5 2.5	1.8 2.9	8.1 7.0	7.8 6.8	3.7 1.4	3.5 1.3	4.5 6.5	4.3 6.7	4.0 4.6	4.0 4.5
1970	2.0	1.5	.0	1	-2.0	-1.6	7.7	7.2	1.9	1.4	5.6	5.6	4.4	4.5
1971 1972	4.1 3.2	4.0 3.3	3.8 6.5	3.8 6.7	3 3.1	2 3.2	6.3 6.3	6.4 6.5	1.8 3.0	1.9 3.2	2.1 3.0	2.3 3.1	4.2 3.6	4.3
1973	3.0	3.1	7.0	7.3	3.8	4.1	8.4	8.2	2.1	1.8	5.2	4.9	5.2	3.2 3.6
1974 1975	-1.6 3.5	-1.5 2.7	-1.4 -1.0	-1.4 -1.7	.2 -4.3	_4.3	9.6 10.2	9.8 10.1	-1.3 1.0	-1.2 .9	11.4 6.5	11.4 7.2	9.6 9.8	10.2 10.8
1976 1977	3.1	3.3 1.6	6.6 5.6	7.0 5.6	3.3 3.8	3.6 3.9	8.6 8.0	8.4 8.1	2.7 1.4	2.5 1.5	5.3 6.2	5.0 6.4	5.3 6.0	5.6 6.3
1978	1.1	1.3	6.3	6.6	5.1	5.2	8.7 9.7	8.9	1.6	1.7	7.5	7.5	7.1	6.7
1979 1980	.0 2	3 2	3.4 -1.1	3.2 -1.0	3.4 9	3.6 8	10.8	9.6 10.8	.1 3	.0 3	9.8 11.0	10.0 11.0	8.5 8.9	8.4 9.6
1981 1982	2.1 8	1.4 -1.1	2.8 -3.0	2.1 -3.2	.7 -2.3	.7 –2.2	9.6 7.2	9.8 7.1	.1 1.1	3 .2 1.0	7.4 8.1	8.3 8.2	9.2 5.7	9.6 6.2
1983	3.6	4.5	5.4	6.5	1.8	1.9	4.1	4.2	1	.0	.6	3	3.4 2.9	3.1 2.9
1984 1985	2.7 2.2	2.0 1.6	8.7 4.6	8.2 4.2	5.8 2.3	6.1 2.6	4.4 4.8	4.2 4.6	.2 1.3	.1 1.1	1.7 2.5	2.2 3.0	2.9	3.0
1986 1987	2.9 .5	3.1 .5	3.7 3.5	3.9 3.6	.8 3.0	.8 3.0	5.1 3.7	5.2 3.7	3.2	3.3 .3	2.1 3.2	2.0 3.2	1.6 2.2	1.7 2.2
1988	1.5	1.7	4.3	4.6	2.7	2.9	5.1 2.7	4.9	1.4	1.2	3.5	3.2	3.1 3.7	3.0
1989 1990	1.0	.7 1.9	3.7 1.5	3.5 1.5	2.6 6	2.7 4	6.3	2.6 6.1	-1.6 1.3	-1.7 1.0	1.7 4.1	1.8 4.1	3.7	3.6 3.7
1991	1.6 4.3	1.6	8 4.0	8 3.9	-2.4	-2.4 2	4.9	5.1	1.3	1.4 2.7	3.3	3.4 1.1	3.2 1.8	3.4 1.9
1993	.4	4.1 .4	3.1	3.3	2 2.7	2.9	5.2 2.2	5.3 2.0	2.6 2	5	1.8	1.6	2.1	2.1
1994 1995	1.0	1.1 .5	5.0 2.9	4.8 3.2	4.0 2.8	3.6 2.8	1.4 2.1	1.7 2.1	7 3	5 3	.4 1.9	.5 1.6	1.8 1.8	1.9 1.7
1996 1997	3.0 1.9	.5 2.7 1.6	4.6 5.3	4.5 5.2	1.6 3.4	1.8 3.5	3.5 3.2	3.4 3.1	.8 1.0	.7 .9	.5 1.3	.7 1.4	1.6 1.5	1.4 1.7
1998	2.8	2.8 2.9	4.8	5.0	2.0 2.0	2.1 2.2	6.1	6.0	4.6	4.5	3.2	3.1	.6	.7
1999 2000	2.9	2.9	5.1 3.9	5.2 3.8	1.0	1.0	4.9 7.1	4.7 7.2	2.8 3.6	2.6 3.7	1.8 4.1	1.8 4.2	.9 1.8	1.1 1.9
2001	2.5 4.1	2.5 4.1	.3 1.5	.4 1.5	-2.2 -2.5	-2.0 -2.6	4.2 3.5	4.0 3.6	1.4 1.9	1.1 2.0	1.6	1.4	2.0	1.9
2002 2003	3.8	3.7	3.1	3.1	7	6	4.1	4.0	1.8	1.8	5 .2 .9	.3	1.5	1.1 1.3
2004 2005	2.9 1.8	2.8 1.8	4.2 3.5	4.1 3.4	1.3 1.6	1.3 1.6	3.8 4.0	3.6 4.0	1.0 .6	.9 .7	2.1	.9 2.2	2.6 3.1	2.4 3.4
2006 2007	.9 1.5	1.0 1.4	3.0 2.0	3.2 2.0	2.1 .5	2.2 .5	3.8 4.2	3.8 4.1	.5 1.3	.5 1.3	2.9 2.6	2.8 2.7	3.0 2.4	3.1 2.1
2004: 1	2.4	.9	3.7	2.6	1.2	1.7	.6	1	-2.7	-3.4	-1.7	-1.0	3.4	3.4
 	3.7 1.2	4.5 1.1	4.4 4.0	5.0 3.8	.7 2.7	.4 2.8	4.8 5.4	5.0 5.5	1.7	1.8 2.5	1.1 4.1	.5 4.4	3.6 1.8	3.0 2.4
IV	2.1	.6	3.0	2.6	.9	2.1	6.4	5.3	2.5 2.2	1.1	4.3	4.7	3.5	2.4 3.8
2005: I II	2.8 3	3.2 .3	3.7 3.2	3.7 2.9	.9 3.5	.5 2.6	2.3 1.0	2.8 1.9	.6 –1.8	1.0 9	4 1.3	5 1.6	3.6 2.0	3.9 2.2
III IV	4.1 -1.0	3.7 -1.1	4.8 1.0	4.8 1.3	.6 1.9	1.0 2.5	6.5 4.2	6.2 3.7	.2	1 3	2.3 5.2	2.4 4.9	4.1 4.1	4.3 4.2
2006: I	2.6	2.5	5.6	6.0	3.0	3.3	5.5	5.2	3.6	3.3	2.8	2.6	3.0	3.1
 	1.4 -2.0	1.8 -2.1	2.9	2.9	1.5 2.4	1.1 2.4	.2 2.0	.7 1.9	-3.3 -1.9	-2.8 -2.0	-1.2 4.1	-1.1 4.1	2.6 2.4	2.9 2.1
IV	.2	.2	1.7	1.4	1.5	1.2	9.0	9.3	10.6	11.0	8.8	9.1	1.9	1.5
2007: I II	1 5.0	.0 4.1	7 5.6	9 5.8	6 .6	8 1.6	4.8 1.9	4.9 .8	1.1 -2.6	1.2 -3.6	4.8 -2.9	4.9 -3.2	4.0 1.7	3.4 1.5
III IV	6.2	5.8	5.5 6	5.5 7	7 7	3 -1.6	3.6 4.4	3.3 5.3	.8 6	.5	-2.5 4.3	-2.4 4.5	1.1	.9 2.1
2008: 1	2.3	2.6	.7	.9	<i>r</i> -1.6	-1.7	3.6	3.8	6	4	1.3	1.2	2.0	2.1
 	3.7 1.5	3.6 1.3	2.6 -1.7	2.8 -1.9	-1.0 -3.2	8 -3.1	1.2 4.2	.9 4.1	-3.7 -2.4	-3.9 -2.4	-2.4 2.6	-2.6 2.8	.9 4.5	.9 4.9
	1.0	1.0	1.7	1.0	0.2	0.1	1.2	1.1	4.7	4.7	2.0	2.0	1.0	

¹ Output refers to real gross domestic product in the sector.

Note.—Percent changes are based on original data and may differ slightly from percent changes based on indexes in Table B-49. Source: Department of Labor (Bureau of Labor Statistics).

Output feller is the all gross of least processor products in the sector.
 Hours at work of all persons engaged in the sector. See footnote 2, Table B–49.
 Wages and salaries of employees plus employers' contributions for social insurance and private benefit plans. Also includes an estimate of wages, salaries, and supplemental payments for the self-employed.
 Hourly compensation divided by a consumer price index. See footnote 4, Table B–49.
 Current dollar output divided by the output index.

Production and Business Activity

Table B-51.—Industrial production indexes, major industry divisions, 1959-2008

[2002=100; monthly data seasonally adjusted]

		Total		Manufa	acturing			
	Year or month	industrial production ¹	Total ¹	Durable	Nondurable	Other (non-NAICS) 1	Mining	Utilities
1959		25.5	23.2					
		26.0	23.7					
1961 .		26.2 28.4	23.7 25.8					
1963		30.1	27.4					
1964 .		32.1	29.3					
1965 1966		35.3 38.4	32.4 35.4					
1967		39.2	36.1					
		41.4 43.3	38.1 39.8					
		41.9	38.0					
		42.5	38.6					
1972		46.6	42.6	31.4	61.0	68.3	107.8	50.3
1973		50.4 50.2	46.4 46.3	35.3 35.1	63.8 64.1	70.5 70.9	108.3 106.8	53.2 53.0
1975		45.8	41.5	30.5	59.5	67.5	104.2	54.0
19/6		49.4 53.1	45.2 49.1	33.4 36.6	64.9 69.3	69.6 76.2	105.0 107.4	56.4 58.7
		56.1	52.1	39.5	71.8	78.9	110.8	60.2
1979		57.8	53.7	41.5	72.2	80.5	114.1	61.6
		56.3 57.0	51.8 52.4	39.7 40.1	70.0 70.7	83.3 85.3	116.2 119.2	62.0 62.9
		54.1	52.4 49.5	36.7	69.6	86.3	113.3	60.9
1983		55.6	51.9	38.5	72.9	88.7	107.3	61.4
1984		60.5 61.3	57.0 57.9	44.0 44.9	76.2 76.6	92.7 96.4	114.3 112.0	65.0 66.4
1986		61.9	59.2	45.7	78.8	98.3	103.9	67.0
1987		65.1 68.4	62.5 65.9	48.4 52.0	83.1 85.9	104.0 103.5	104.8 107.5	70.1
		69.1	66.4	52.0 52.6	86.3	103.5	107.5	74.1 76.4
		69.7	67.0	52.8	87.7	100.8	107.8	77.9
1991		68.7	65.6	51.2	87.4	96.7	105.4	79.8
1992		70.6 72.9	68.0 70.4	53.8 56.8	89.6 90.9	94.8 95.5	103.1 103.0	79.7 82.6
1994		76.8	74.5	61.6	94.1	94.7	105.4	84.2
1995		80.4 84.0	78.5 82.2	66.9	95.7 96.0	94.7 93.8	105.3 107.1	87.2
1997		90.1	89.2	72.8 81.6	99.5	101.7	108.9	89.7 89.7
1998		95.4	95.1	90.2	101.0	107.8	107.2	92.0
		99.5	99.9	97.8	101.7	110.9	101.6	94.7
2000		103.7 100.1	104.4 100.1	105.2 100.5	102.2 98.9	112.6 105.7	104.2 104.8	97.4 97.0
2002.		100.0	100.0	100.0	100.0	100.0	100.0	100.0
2003		101.2 103.8	101.3 104.2	102.7 106.9	100.1 102.0	97.1 97.9	100.2 99.6	101.9 103.3
2005		107.2	108.4	112.7	104.8	98.5	98.3	105.5
		109.6	111.1	117.9	105.6	94.3	101.4	104.8
2007:	Jan	111.4	112.9 111.1	121.0 117.5	106.6 106.2	92.9 93.0	101.4 101.6	108.2 106.2
2007.	Feb	110.5	111.3	118.0	106.0	93.3	100.6	113.6
	Mar	110.4	112.0	119.1	106.5	93.4	100.8	106.5
	Apr May	111.0 111.0	112.4 112.6	120.0 120.2	106.5 106.6	93.8 93.2	100.7 100.6	108.7 107.7
	June	111.4	113.2	121.5	106.6	93.5	100.9	106.5
	July Aug	112.0 112.0	114.1 113.6	122.9 122.4	107.1 106.6	93.2 92.8	101.5 101.2	105.6 109.3
	Sept	112.3	114.0	122.4	107.3	93.2	101.3	109.0
	Oct	111.8	113.5	122.2	106.7	92.2	101.3	108.4
	Nov Dec	112.3 112.4	113.8 113.8	122.9 122.8	106.6 106.8	91.7 91.9	102.9 103.9	109.1 108.2
2008:		112.6	113.8	122.9	106.8	91.3	103.2	110.8
2000.	Feb	112.3	113.1	122.2	106.0	91.2	103.6	112.6
	Mar Apr	112.0 111.4	113.3 112.3	122.4 120.7	106.2 106.0	91.0 89.1	103.9 104.0	108.7 110.4
	May	111.2	112.3	120.6	106.2	88.5	104.1	108.0
	June p	111.3	112.2	121.0	105.5	88.4	104.2	110.0
	July p	111.4 110.1	112.1 111.0	121.4 119.6	105.2 104.6	87.3 86.7	105.7 105.5	109.2 104.7
	Sept P	105.9	106.9	115.9	99.8	86.3	96.5	107.3
	Oct p	107.3	107.5	113.9	102.9	85.9	102.4	107.7

¹ Total industry and total manufacturing series include manufacturing as defined in the North American Industry Classification System (NAICS) plus those industries—logging and newspaper, periodical, book, and directory publishing—that have traditionally been considered to be manufacturing and included in the industrial sector.

Note.—Data based on NAICS; see footnote 1.

Table B-52.—Industrial production indexes, market groupings, 1959–2008

[2002=100; monthly data seasonally adjusted]

					Final p	roducts				Noning	dustrial su	ıpplies		Materials	3
	Total indus-			Consum	er goods		E	quipmen	t						
Year or month	trial pro- duc- tion	Total	Total	Auto- motive prod- ucts	Other dur- able goods	Non- dur- able goods	Total ¹	Busi- ness	De- fense and space	Total	Con- struc- tion	Busi- ness	Total	Non- energy	Energy
1959	25.5 26.0 26.2 28.4 30.1 32.1 35.3 38.4 39.2 41.4 43.3	24.4 25.2 25.4 27.6 29.2 30.8 33.8 37.1 38.6 40.4 41.7	30.9 32.1 32.7 34.9 36.9 38.9 42.0 44.1 45.2 47.9 49.7	19.1 21.9 20.0 24.2 26.5 27.8 34.2 34.1 29.9 35.7 35.8	19.6 19.7 20.3 22.1 23.8 26.0 29.5 32.5 32.9 35.3 37.6	37.2 38.4 39.6 41.5 43.4 45.5 47.5 49.7 52.3 54.4 56.2	16.5 16.9 16.7 18.6 19.7 20.8 23.5 27.4 29.2 30.0 30.8	11.9 12.2 11.8 12.8 13.5 15.1 17.3 20.0 20.4 21.3 22.7	47.2 48.5 49.3 57.0 61.5 59.6 65.9 77.5 88.4 88.5 84.3	26.4 26.6 27.1 28.8 30.4 32.4 34.4 36.6 38.1 40.2 42.4	37.5 36.6 36.9 39.2 41.0 43.5 46.2 48.1 49.4 52.0 54.2	21.6 22.4 23.0 24.5 26.1 27.9 29.7 32.1 33.7 35.8 38.1	25.5 25.9 25.9 28.2 30.0 32.4 36.2 39.4 39.0 41.6 44.1	32.2 34.6 36.7	51.4 52.1 52.5 54.3 57.5 59.8 62.6 66.5 68.8 72.0 75.6
1970 1971 1972 1972 1973 1974 1975 1976 1977 1978	41.9 42.5 46.6 50.4 50.2 45.8 49.4 53.1 56.1 57.8	40.2 40.6 44.0 47.4 47.4 44.7 47.9 51.7 54.9 56.7	49.2 52.0 56.2 58.7 57.0 54.8 59.2 62.9 64.9 63.9	30.2 38.4 41.4 45.0 38.9 37.5 42.7 48.3 48.0 43.2	36.5 38.6 44.2 47.2 44.4 38.8 43.6 48.7 51.0 51.3	57.1 58.8 62.6 64.5 64.5 63.4 67.3 69.8 72.2 71.8	28.6 26.8 29.3 33.4 35.1 32.1 33.8 37.7 41.9 46.8	21.9 20.8 23.7 27.4 29.1 25.9 27.6 31.9 36.0 40.6	71.4 64.1 62.4 68.3 70.6 71.2 69.0 61.9 62.9 67.5	41.8 43.1 48.1 51.4 51.0 45.8 48.9 53.1 56.0 57.7	52.3 53.9 61.2 66.4 64.9 54.9 59.2 64.4 68.1 69.8	38.2 39.4 43.3 46.0 45.9 42.4 45.2 48.9 51.6 53.4	42.5 43.2 47.5 51.8 51.7 46.0 50.1 53.5 56.2 57.7	34.6 35.2 39.4 43.7 43.6 37.4 41.7 45.1 48.1 49.4	79.4 80.1 83.1 85.2 84.8 84.0 85.9 88.6 89.7 92.1
1980 1981 1982 1983 1984 1985 1986 1986 1988	56.3 57.0 54.1 55.6 60.5 61.3 61.9 65.1 68.4 69.1	56.5 57.9 56.6 57.7 62.5 64.0 65.0 68.0 71.7 72.5	61.5 61.9 61.8 64.1 67.0 67.6 69.9 72.9 75.7 76.0	33.3 34.3 33.3 38.7 43.3 43.2 46.4 49.6 52.2 54.3	47.6 48.0 44.4 48.2 53.8 57.0 60.0 63.2 63.9	71.9 72.3 73.5 74.3 75.8 76.7 78.6 81.4 84.1 83.8	49.1 51.4 48.9 48.6 55.6 57.4 60.6 65.5 67.1	41.6 42.8 39.2 39.4 45.3 46.9 46.2 49.4 54.5 56.4	80.2 86.8 103.7 104.6 119.8 134.0 142.3 145.3 146.9 147.1	55.4 56.0 54.0 56.9 61.9 63.5 65.6 69.6 71.9 72.6	64.6 63.5 57.6 61.7 67.1 68.8 71.2 75.7 77.5 77.2	52.1 53.4 52.7 55.2 60.0 61.6 63.6 67.4 69.9 70.9	55.6 55.9 51.6 53.0 57.9 57.8 60.9 64.3 64.8	46.5 46.6 42.0 44.9 50.0 51.0 54.4 57.9 58.2	92.8 93.7 89.7 86.9 92.4 91.9 88.2 90.3 93.4 94.3
1990 1991 1992 1993 1994 1995 1996 1997 1998	69.7 68.7 70.6 72.9 76.8 80.4 84.0 90.1 95.4 99.5	73.3 72.4 74.1 76.4 79.7 83.0 86.2 91.9 97.2 99.9	76.3 76.2 78.5 81.0 84.6 87.2 89.0 92.2 95.5 97.5	50.9 47.5 55.6 61.4 68.8 70.9 73.2 78.6 83.9 91.9	63.8 62.0 64.8 69.2 75.1 79.7 83.4 88.7 95.8 100.9	85.2 86.4 87.1 88.3 90.4 92.6 93.8 96.0 98.1 98.0	68.6 66.3 67.1 69.1 71.7 76.5 82.1 92.5 101.7 105.9	58.5 57.5 59.7 62.4 66.1 71.8 78.6 90.4 100.6 106.5	142.0 131.5 121.9 115.2 108.3 105.4 102.0 100.7 105.0 102.1	73.7 71.9 73.9 76.4 80.1 83.1 86.4 92.0 97.2 100.8	76.6 72.4 75.5 78.8 84.5 86.4 90.3 94.8 99.8 102.4	72.6 71.6 73.3 75.6 78.5 81.8 85.0 91.0 96.2 100.3	65.2 64.2 66.3 68.5 73.0 77.1 81.1 87.7 92.9 98.6	58.3 57.1 59.9 62.5 67.6 72.2 76.7 84.9 91.3 98.4	96.2 96.3 95.4 95.7 97.2 98.7 100.2 100.0 100.4 99.9
2000	103.7 100.1 100.0 101.2 103.8 107.2 109.6 111.4	103.0 101.0 100.0 101.2 103.4 107.7 110.5 112.8	99.4 98.2 100.0 101.3 102.6 105.5 105.8 107.5	93.8 90.9 100.0 105.6 105.2 102.9 99.3 100.9	104.8 98.9 100.0 100.7 103.3 106.7 107.7	99.5 99.5 100.0 100.5 101.9 105.5 106.4 108.8	111.8 107.8 100.0 100.9 105.3 113.6 123.1	114.8 108.2 100.0 99.7 104.9 112.6 124.3 128.4	92.1 100.3 100.0 106.3 105.5 116.6 112.9	104.7 100.4 100.0 101.1 103.3 107.1 108.3 107.9	104.7 100.1 100.0 99.6 101.8 106.4 108.8 106.0	104.7 100.5 100.0 101.7 103.9 107.4 108.1 108.7	103.9 99.2 100.0 101.3 104.3 106.8 109.2 111.3	104.8 98.8 100.0 101.8 106.2 110.4 113.2 115.5	101.5 100.3 100.0 100.0 99.6 98.4 99.9 101.6
2007: Jan Feb Mar Apr Apr June July Aug Sept Oct Nov Dec 2009: Jan	109.8 110.5 110.4 111.0 111.0 111.4 112.0 112.3 111.8 112.3	111.2 112.6 111.9 112.4 112.4 112.9 113.7 113.4 114.0 113.3 113.3	106.2 108.0 106.9 107.5 107.3 107.6 108.2 107.9 108.4 107.3 107.4	95.0 98.2 99.2 101.8 101.0 103.7 105.1 100.0 101.1 101.6	105.2 104.9 105.0 106.1 106.1 106.2 106.3 106.2 105.8 104.8 104.6	108.1 110.0 108.4 108.6 108.4 108.3 108.9 109.9 108.8 108.8	124.6 124.8 125.2 125.6 126.0 127.2 128.3 128.9 128.9 128.1 129.8	125.2 125.5 126.5 126.9 127.2 128.3 129.6 129.4 130.5 129.9 130.2	116.1 115.7 113.1 114.6 115.7 117.4 118.1 117.9 118.4 118.3 120.2 119.9	107.5 107.6 107.8 108.1 107.9 108.2 108.2 108.3 107.9 107.9	105.9 105.0 106.2 106.1 106.5 107.3 107.4 107.1 106.6 105.4 104.5	108.1 108.7 108.4 108.9 108.4 108.5 108.5 108.7 109.1 108.8 109.2	109.3 109.6 109.9 110.6 110.7 111.0 111.8 112.0 112.2 113.0	113.0 113.1 114.1 114.9 115.1 115.7 116.3 116.6 116.4 117.2	100.6 101.4 100.3 100.7 100.8 100.5 100.8 102.1 101.6 102.5 103.3 104.1
2008: Jan	112.6 112.3 112.0 111.4 111.2 111.3 111.4 110.1 105.9 107.3	114.0 113.8 113.2 112.3 112.1 112.6 111.0 108.2 108.8	108.0 107.9 106.7 106.2 105.8 106.2 104.1 102.9 104.3	99.6 98.5 93.8 87.2 87.9 92.3 93.6 83.2 84.7 81.6	102.5 101.3 101.7 101.7 101.6 101.1 101.4 99.6 96.8 96.0	110.1 110.4 109.5 109.8 109.1 108.9 108.9 106.7 109.0	130.0 129.5 130.5 129.0 129.3 129.9 129.7 129.7 122.3 120.3	131.4 131.1 132.3 130.0 130.4 130.8 130.8 130.5 121.2 118.5	120.9 119.6 119.6 119.5 119.0 120.2 119.1 119.4 116.9 118.1	107.7 107.2 106.7 106.6 106.1 105.7 105.8 104.8 102.3 102.5	103.6 102.3 102.3 101.4 101.7 101.3 102.1 101.1 99.2 98.1	109.3 109.2 108.5 108.6 107.9 107.5 107.4 106.3 103.6 104.3	113.0 112.6 112.8 112.3 112.2 112.1 112.3 111.1 105.1 107.6	116.7 116.0 116.4 115.7 115.4 115.4 115.1 113.9 108.6 109.5	104.2 104.5 104.3 104.1 104.2 104.1 105.1 103.7 96.9 101.9

¹ Includes other items not shown separately.

Note.—See footnote 1 and Note, Table B-51.

Table B-53.—Industrial production indexes, selected manufacturing industries, 1967–2008 [2002=100; monthly data seasonally adjusted]

Primery Primery Facility					urable ma	nufacturir	ng				No	ndurable r	nanufactu	ring	
Total Bright Steel St	V					elect	ronic					Printing			
1968	Year or month	Total	and steel prod-	metal prod-		Total	lected high- tech-	Total	vehi- cles and	Apparel	Paper	and sup-		rubber prod-	Food
1970	1967						0.3								
1973	1969						.3								
1973							.3								
1975	1972	122.0	129.1	69.1	67.9		.3	53.1	44.3 50.6	169.9 175.1	66.3	51.6	47.9 52.4	34.9	58.7 58.8
1977	19/4	145.5	165.4	75.0	82.4	1.9	.5	55.9	43.5	163.0	74.8	52.6	54.5	38.2	59.4
1977	1976	120.0	127.3	69.4	74.9	2.0	d. 6.	56.7	48.5	168.5	71.4	52.7	53.6	36.2	63.0
1880	1977	121.2 129.0		75.3 79.0		2.6 3.1	.8 1.0		55.1 57.4	179.1 184.3	74.5 77.9		58.3 61.2		64.1 66.1
1881	1979	1	138.3	82.5	93.0	3.9	1.3	66.3	52.6	174.6	79.0	62.2	62.6	43.4	65.4
1982	1980 1981														
1886	1982	82.2	74.7	69.2	73.3	6.1	2.2	52.1	34.1	178.5	78.6	69.1	56.3	40.2	70.1
1986	1984	92.3	83.0	75.9	77.2	8.7	3.4	65.3	52.2	186.3	88.0	80.9	63.7	50.5	72.3
1888	1986	83.2	75.2	76.5	76.2	9.6	3.7	70.3	54.1	181.1	89.8	88.4	66.0	54.7	76.1
1989	1987 1988	100.2		81.9					59.9		96.4				79.7
1991	1989	97.9									97.5			65.4	
1992	1991	90.8	86.9	76.6	81.3	14.3	6.9	73.4	53.3	167.7	97.6	98.9	78.1	66.5	83.8
1995 106 0 105 6 94 6 102 2 267 7 16.9 82.1 79.3 178.6 107.0 107.3 83.8 38.9 89.8 85.1 99.8 86.6 1996 108.6 108.1 98.0 108.8 34.5 24.1 83.5 79.9 17.36 103.7 108.0 85.3 87.9 88.6 1997 113.3 111.4 102.4 111.6 46.1 35.4 91.1 86.1 171.6 105.9 110.2 90.3 93.4 91.0 1998 115.2 111.2 105.8 114.4 59.2 49.1 99.2 90.6 155.6 107.6 108.8 111.5 91.8 90.7 95.0 95.0 95.0 10.2 99.3 90.6 105.5 108.8 111.5 91.8 90.7 95.0 95.0 95.0 10.2 99.4 99.0 90.6 155.6 107.6 108.8 111.5 91.8 90.7 95.0 95.0 95.0 10.2 99.4 91.0 96.0 95.0 10.2 99.7 99.0 90.6 105.5 105.6 107.6 112.4 93.6 101.9 96.0 90.0 97.7 90.0 104.5 100.5 105.6 105.6 107.6 112.4 93.6 101.9 96.0 96.0 102.5 102.9 97.7 95.0 102.9 97.7 95.0 99.3 106.3 33.3 90.9 97.7 99.7 99.9 148.0 105.3 113.1 95.0 102.9 97.7 90.0 100.	1992	93.0 97.5		79.0 82.0		16.1 17.7	8.2 9.6	76.1 78.3	60.7 67.0	170.9 174.9		104.3 104.6	79.3 80.2		85.4 87.6
1996 108.6 108.1 98.0 105.8 34.5 24.1 83.5 79.9 173.6 108.0 85.3 87.9 88.6 1997 113.3 111.4 102.4 111.6 461.3 35.4 91.1 861.1 171.6 105.9 110.2 90.3 93.4 91.0 1998 115.1 111.1 106.4 112.0 77.2 70.0 104.5 100.5 155.6 107.6 112.4 93.6 101.9 96.0 2000 111.4 110.8 110.7 117.7 101.3 98.4 99.7 99.9 148.0 105.3 113.1 95.0 102.9 97.7 2001 99.4 96.8 102.6 104.2 103.6 101.7 96.2 91.4 126.9 99.3 106.3 93.3 99.9 97.7 2002 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 10	1994	104.9	103.9	89.1	95.4	20.7	12.1	82.0	77.0	178.4	105.5	105.7	82.2	83.0	88.2
1998 1152 111.2 105.8 114.4 59.2 49.1 99.2 90.6 162.5 106.8 111.5 91.8 96.7 95.0 2000 111.4 110.8 110.7 117.7 101.3 98.4 99.7 99.9 146.0 105.3 113.1 99.0 102.9 97.7 2001 99.4 96.8 102.6 104.2 103.6 101.7 96.2 91.4 126.9 99.3 106.3 93.3 99.9 97.7 2002 100.0 110.0 100.0 100.0 100.0 100.0 100.0 100.0 110.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	1996	108.6	108.1	98.0	105.8	34.5	24.1	83.5	79.9	173.6	103.7	108.0	85.3	87.9	88.6
2000 111.4 110.8 110.7 117.7 101.3 98.4 99.7 99.9 148.0 105.3 113.1 95.0 102.9 97.7 2001 99.4 99.8 100.0	1997	115.2	111.2			46.1 59.2	49.1	99.2	90.6	162.5	106.8		91.8		95.0
2001		115.1				I									
2003	2001	99.4	96.8	102.6	104.2	103.6	101.7	96.2	91.4	126.9	99.3	106.3	93.3	96.9	97.7
2005 108.0 110.1 103.5 110.2 143.5 157.2 104.6 103.9 77.0 97.5 99.0 109.3 102.3 104.2 2006 112.4 119.5 109.1 115.5 184.6 190.6 104.2 100.2 75.4 97.5 99.8 193.8 105.4 2007 110.3 115.7 112.0 116.0 183.4 224.4 106.2 97.2 75.7 95.8 99.8 114.2 103.4 110.1 2007 Jan 108.0 112.9 110.2 114.3 172.1 202.2 102.6 94.2 77.7 96.2 101.2 113.3 101.6 107.7 Mar 109.6 113.9 111.2 115.8 173.7 206.4 104.5 98.8 75.7 96.2 101.2 113.3 101.6 108.7 Apr 110.4 115.5 111.3 117.0 177.4 115.6 211.1 117.0 177.7 <t< td=""><td></td><td>99.1</td><td>100.0 101.2</td><td>100.0 98.7</td><td>100.0 99.7</td><td>100.0 113.8</td><td></td><td></td><td>100.0 103.5</td><td></td><td>96.8</td><td>96.2</td><td>100.0 101.3</td><td>100.0 100.3</td><td>100.0 101.0</td></t<>		99.1	100.0 101.2	100.0 98.7	100.0 99.7	100.0 113.8			100.0 103.5		96.8	96.2	100.0 101.3	100.0 100.3	100.0 101.0
2007. 110.3 115.7 112.0 116.0 183.4 224.4 106.2 97.2 75.7 95.8 99.8 114.2 103.4 110.1 2007. Jan 108.0 111.8 109.6 114.2 171.7 202.7 104.3 94.2 77.7 96.2 101.2 113.3 101.6 107.3 Eeb 108.7 112.9 110.2 114.3 172.1 202.7 104.3 96.4 76.9 96.5 101.5 113.4 100.7 108.0 Mar 109.6 113.9 111.2 115.8 173.7 206.4 104.5 96.8 75.7 96.2 101.3 114.1 101.7 108.7 Apr 110.4 115.7 111.4 116.4 176.6 211.1 105.7 98.1 76.8 96.4 100.8 114.3 102.7 109.3 May 110.2 116.2 111.3 117.0 177.4 213.9 105.8 97.5 76.5 96.1 99.5 114.1 103.1 109.1 June 109.6 115.6 112.2 116.3 181.3 220.5 107.9 99.5 76.2 95.3 98.7 114.0 103.8 110.1 July 113.2 117.6 112.6 114.4 185.6 229.2 108.9 100.8 76.2 95.3 98.7 114.0 103.8 110.1 Aug 111.4 116.6 112.8 116.2 186.5 231.1 108.1 99.3 75.2 95.7 99.1 114.2 103.8 110.5 Sept 109.2 112.8 113.2 118.0 188.3 234.6 106.9 95.6 74.4 95.0 99.6 15.0 105.0 111.7 Nov 111.0 116.0 113.1 116.4 192.8 243.2 105.9 95.1 73.6 94.1 98.9 114.5 104.6 111.2 Dec 112.9 121.6 113.1 114.6 198.1 250.6 106.9 95.8 73.4 95.4 99.4 114.7 105.4 112.0 Mar 112.3 119.5 113.6 116.0 206.2 264.5 101.6 95.5 75.1 97.3 99.0 114.6 102.8 112.0 Mar 111.5 118.2 112.4 112.4 208.9 959.5 97.8 83.1 71.7 93.8 97.4 113.2 102.0 113.6 Mar 110.9 114.6 113.5 114.1 202.2 257.0 104.5 33.0 73.6 33.7 97.3 113.6 102.8 112.0 Mar 111.5 118.2 112.4 112.4 208.9 269.5 97.8 83.1 71.7 93.8 97.4 113.2 101.3 113.1 May 109.9 114.6 110.1 110.3 113.0 208.1 269.5 97.8 83.1 71.7 94.5 96.0 94.5 112.0 91.0 91.0 Sept 104.4 104.4 104.8 109.1 110.3 208.1 209.5 209.7 97.9 83.4	2004	110.0	118.2 110.1		103.8	129.0 143.5			103.7	79.8	97.6 97.5	96.9			
2007: Jan 108.0 111.8 109.6 114.2 171.7 202.2 102.6 94.2 77.7 96.2 101.2 113.3 101.6 107.3 Feb 108.7 111.2 110.2 114.3 172.1 202.7 104.3 96.4 76.9 96.5 101.5 113.4 100.7 108.7 Apr 110.4 115.7 111.4 116.4 176.6 211.1 105.7 98.1 76.8 96.4 100.8 114.3 102.7 109.3 May 110.2 116.2 111.3 117.0 177.4 213.9 105.8 97.5 76.5 96.1 99.5 114.1 103.1 109.1 June 109.6 115.6 112.2 116.3 181.3 220.5 107.9 99.5 76.2 95.3 98.7 114.0 103.8 110.1 July 113.2 117.6 112.6 117.4 185.6 229.2 108.9 100.8 76.2 95.9 98.4 114.5 104.5 111.4 Aug 111.4 116.6 112.8 116.2 186.5 229.2 108.9 100.8 76.2 95.9 98.4 114.5 104.5 111.4 Sept 109.2 112.8 113.2 118.0 188.3 234.6 106.9 96.6 74.4 95.0 99.6 115.0 105.0 111.7 Oct 110.0 116.0 113.1 116.4 192.8 243.2 105.9 95.8 73.4 95.4 99.4 114.7 105.4 111.3 Nov 111.0 118.3 113.7 115.4 196.2 247.5 106.9 95.8 73.4 95.4 99.4 114.7 105.4 111.3 Dec 112.9 112.6 113.1 114.6 126.2 247.5 106.9 95.8 73.4 95.4 99.4 114.7 105.4 111.3 May 119.5 113.6 116.1 202.2 257.0 104.5 93.0 73.6 93.7 97.3 113.6 102.8 112.0 Mar 112.3 113.8 115.5 112.4 208.9 269.5 97.8 83.1 73.3 93.0 114.6 103.2 113.1 May 109.5 113.8 115.5 112.2 210.5 297.1 107.7 89.2 72.4 93.8 92.6 112.3 102.7 113.8 May 109.5 113.8 115.5 112.2 210.5 297.1 207.5 297.1 38.5 27.4 38.5 38.6 37.4 38.8 26.6 112.3 102.7 111.8 Aug 110.4 110.1 110.3 110.1 110.2 211.3 273.2 101.7 89.2 72.4 93.8 92.6 112.3 102.7 111.8 Aug 119.5 113.6 110.1 112.2 210.5 297.7 39.8 27.4 93.8 93.6 112.3 102.7 111.8 Aug 119.6 119.7 119.7 109.7 111.2 211.3 273.2 101.7 89.2 72.	2006	112.4	119.5	109.1	115.5	164.6	190.6	104.2	100.2	75.4	97.5	99.5	112.6	102.8	105.4
Feb 108,7 112,9 110,2 114,3 172,1 202,7 104,3 96,4 76,9 96,5 101,5 113,4 100,7 108,0 Apr 110,6 113,9 111,2 115,8 173,7 206,4 104,5 98,6 75,7 96,2 101,3 114,1 101,7 108,7 Apr 110,4 115,7 111,4 116,4 116,6 211,1 105,7 98,1 76,8 96,4 100,8 114,3 102,7 109,3 May 110,2 111,6 116,2 111,3 117,0 117,4 213,9 105,8 97,5 76,2 95,3 98,7 114,0 103,1 109,1 July 113,2 117,6 112,6 117,4 185,6 229,2 108,9 100,8 76,2 95,9 98,4 114,5 104,5 111,4 Aug 111,4 116,6 112,8 118,2 186,5 229,2 108,9 100,8 <td< td=""><td>2007: Jan</td><td>108.0</td><td>111.8</td><td>109.6</td><td>114.2</td><td>171.7</td><td>202.2</td><td>102.6</td><td>94.2</td><td>77.7</td><td>96.2</td><td>101.2</td><td>113.3</td><td>101.6</td><td>107.3</td></td<>	2007: Jan	108.0	111.8	109.6	114.2	171.7	202.2	102.6	94.2	77.7	96.2	101.2	113.3	101.6	107.3
Apr 110.4 115.7 111.4 116.4 176.6 211.1 105.7 38.1 76.8 96.4 100.8 114.3 102.7 109.3 May 110.2 116.2 111.3 117.0 177.4 213.9 108.8 97.5 76.5 96.1 99.5 11.1 111.1 109.1 109.1 111.4 11.0 111.4 103.8 110.1 109.1 109.2 111.4 116.6 112.2 116.5 229.2 108.9 100.8 76.2 95.9 98.4 114.5 104.5 111.4 Aug 111.4 116.6 112.8 116.2 186.5 231.1 108.1 93.7 75.2 95.7 99.1 114.2 103.8 <t>110.5 Sept 109.2 112.8 113.2 118.0 188.3 234.6 106.9 96.6 74.4 95.0 99.6 115.0 105.0 111.5 Oct 110.0 116.0 113.1 116.4 <t< td=""><td>Feb</td><td>108.7 109.6</td><td>112.9 113.9</td><td>110.2 111.2</td><td>114.3 115.8</td><td>172.1 173.7</td><td>202.7 206.4</td><td>104.3 104.5</td><td>96.4 96.8</td><td>76.9 75.7</td><td>96.5 96.2</td><td>101.5 101.3</td><td>113.4 114.1</td><td>100.7 101.7</td><td>108.0 108.7</td></t<></t>	Feb	108.7 109.6	112.9 113.9	110.2 111.2	114.3 115.8	172.1 173.7	202.7 206.4	104.3 104.5	96.4 96.8	76.9 75.7	96.5 96.2	101.5 101.3	113.4 114.1	100.7 101.7	108.0 108.7
June 109.6 115.6 112.2 116.3 181.3 220.5 107.9 99.5 76.2 95.3 98.7 114.0 103.8 110.1 July 113.2 117.6 112.6 117.4 185.6 229.2 108.9 100.8 76.2 95.9 98.4 114.5 104.5 104.5 Aug 111.4 116.6 112.8 116.2 186.5 231.1 108.1 99.3 75.2 95.7 99.1 114.2 103.8 110.5 Sept 109.2 112.8 113.2 118.0 188.3 234.6 106.9 96.6 74.4 95.0 99.6 115.0 105.0 111.7 Nov 111.0 118.3 113.7 115.4 196.2 247.5 106.9 95.8 73.6 94.1 39.9 114.5 104.6 111.2 Nov 111.0 118.3 113.7 115.4 196.2 247.5 106.9 95.8 73.4 95.4 99.4 114.7 105.4 111.2 Dec 112.9 121.6 113.1 114.6 198.1 250.6 106.6 95.5 75.1 97.3 99.0 114.6 104.5 112.0 2008: Jan 115.2 121.7 113.4 115.2 198.5 251.6 105.9 93.9 74.2 96.0 98.4 114.6 103.0 112.2 Feb 114.1 124.6 113.5 114.1 202.2 257.0 104.5 33.0 73.6 93.7 93.3 113.6 102.8 112.0 Mar 112.3 119.5 113.6 116.0 206.2 264.5 101.6 88.6 72.3 95.1 98.4 113.2 101.3 113.1 May 109.5 113.8 111.5 112.3 209.5 269.7 97.9 83.4 70.3 96.4 97.0 113.4 101.5 112.2 June 109.9 114.6 110.1 112.2 210.5 271.1 100.7 88.2 72.4 33.8 92.6 112.3 102.7 113.8 Aug 109.8 116.0 110.1 112.2 210.5 271.1 100.7 88.2 72.4 33.8 92.6 112.3 102.7 113.8 Aug 109.8 116.0 110.3 113.0 208.1 269.7 98.2 72.4 33.8 92.6 112.3 102.7 113.8 Sept 104.4 104.8 109.1 110.3 208.1 269.7 88.2 80.4 71.8 91.2 92.0 01.1 20.0 93.6 93.1 Sept 104.4 104.8 109.1 110.3 208.1 269.7 88.2 80.4 71.8 91.2 92.0 01.0 09.8 111.8 Sept 104.4 104.8 109.1 110.3 208.1 269.7 88.2 80.4 71.8 91.2 92.0 10.0 91.1 110.8 Sept 104.4 104.8 109.1 110.3 208.1 269.7 88.2 80.4 7	Apr	110.4	115.7	111.4	116.4	1/6.6	211.1	105.7	98.1	76.8	96.4	100.8	114.3	102.7	109.3
Aug 111.4 116.6 112.8 116.2 186.5 231.1 108.1 99.3 75.2 95.7 99.1 114.2 103.8 110.5 Sept. 119.2 112.8 113.2 118.0 188.3 234.6 106.9 96.6 74.4 95.0 99.6 115.0 105.0 111.7 Nov 111.0 118.3 113.7 115.4 198.2 243.2 105.9 95.8 73.4 95.4 99.4 114.7 106.4 111.2 Dec. 112.9 121.6 113.1 114.6 198.1 250.6 106.9 95.8 73.4 95.4 99.4 114.7 106.4 111.2 2008: Jan 115.2 121.7 113.4 115.5 188.5 251.6 106.9 95.5 75.1 97.3 99.0 114.6 104.5 112.0 400: Jan 115.2 121.7 113.4 115.2 188.5 251.6 106.9 95.5 75.1	June	109.6	115.6	112.2	116.3	181.3	220.5	107.9	99.5	76.2	95.3	98.7	114.0	103.8	110.1
Oct. 110.0 116.0 113.1 116.4 192.8 243.2 105.9 95.1 73.6 94.1 98.9 114.5 104.6 111.2 Nov. 111.0 118.3 113.7 115.4 196.2 247.5 106.9 95.8 73.4 95.4 99.4 114.7 105.4 111.3 Dec. 112.9 121.6 113.1 114.6 198.1 250.6 106.6 95.5 75.1 97.3 99.0 114.6 104.5 112.0 2008: Jan 115.2 121.7 113.4 115.2 198.5 251.6 105.9 93.9 74.2 96.0 98.4 114.6 103.0 112.2 Feb 114.1 124.6 113.5 114.1 202.2 257.0 104.5 93.0 73.6 93.7 97.3 113.6 100.8 112.0 Apr 111.5 118.2 112.4 112.4 208.9 269.5 97.8 83.1 71.7 <t< td=""><td></td><td>111.4</td><td>116.6</td><td>112.8</td><td>116.2</td><td>186.5</td><td>231.1</td><td>108.1</td><td>99.3</td><td>75.2</td><td>95.7</td><td>99.1</td><td>114.2</td><td>103.8</td><td></td></t<>		111.4	116.6	112.8	116.2	186.5	231.1	108.1	99.3	75.2	95.7	99.1	114.2	103.8	
Nov. 111.0 118.3 113.7 115.4 196.2 247.5 106.9 95.8 73.4 95.4 99.4 114.7 105.4 111.2	Sept	109.2	112.8 116.0	113.2 113.1		188.3 192.8	234.6 243.2	106.9 105.9	96.6 95.1		95.0 94.1	99.6 98.9			111.7 111.7
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Nov	111.0	118.3	113.7	115.4	196.2	247.5	106.9	95.8	73.4	95.4	99.4	114.7	105.4	111.3
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$						I			93.9			98.4			112.2
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Feb	114.1			114.1	202.2	257.0	104.5			93.7				112.0
Sept P 104.4 104.8 109.1 110.3 208.1 269.7 88.2 80.4 71.8 91.2 92.9 102.0 99.6 111.8	Δnr	111.5	118.2	112.4	112.4	208.9	269.5	97.8	83.1	71.7	93.8	97.4	113.2	101.3	113.1
Sept P 104.4 104.8 109.1 110.3 208.1 209.7 88.2 80.4 71.8 91.2 92.9 102.0 99.6 111.8	June p	109.9	114.6	110.1	112.2	210.5	271.1	100.7	86.8	71.3	94.6	94.2	112.7	102.4	112.4
Sept P 104.4 104.8 109.1 110.3 208.1 209.7 88.2 80.4 71.8 91.2 92.9 102.0 99.6 111.8	July ^p Aug ^p	109.8	116.1	110.3	113.0	210.4	271.7	95.1	79.4	72.7	94.5	94.0	111.2	100.9	112.0
	Sept ^p Oct ^p	104.4	104.8 94.3	109.1 107.5	110.3 108.4	208.1 207.2	269.7 267.3	88.2 85.3	80.4 77.6	71.8 70.5	91.2 90.9	92.9 92.4	102.0 107.2	99.6 97.6	111.8 112.7

¹ Computers and peripheral equipment, communications equipment, and semiconductors and related electronic components.

Note.—See footnote 1 and Note, Table B-51.

Table B-54.—Capacity utilization rates, 1959-2008

[Percent 1; monthly data seasonally adjusted]

			Manu	facturing	·			St	tage-of-proces	S
Year or month	Total industry ²	Total ²	Durable goods	Nondurable goods	Other (non-NAICS) ²	Mining	Utilities	Crude	Primary and semi- finished	Finished
1959	87.0 87.3 87.4 81.3 79.6 88.4 88.4 85.2 75.6 79.6 80.8 80.8 80.5 73.7 74.9 80.5 73.7 81.2 84.1 83.6 80.3 81.2 84.0 83.3 84.0 83.3 84.0 83.3 84.0 83.3 84.0 83.3 84.0 85.0 86.0 86.0 86.0 86.0 86.0 86.0 86.0 86	81.6 80.1 77.3 81.4 83.5 85.6 89.5 91.1 86.6 89.5 79.5 78.3 84.4 77.9 83.4 84.2 82.3 84.2 78.7 70.9 70.9 70.9 70.9 70.9 70.9 70.9 70			(non-NAICS) 2	81.2 83.6 86.8 88.0 90.9 91.0 89.1 89.5 89.6 89.8 81.1 91.1 81.1 84.1 77.7 85.4 84.1 87.7 80.4 86.8 86.8 84.4 87.7 91.0 86.0 86.0 86.0 86.0 86.0 86.0 86.0 86	94.5 95.1 96.3 94.7 95.2 94.2 87.5 86.2 85.1 86.3 85.7 86.4 80.6 82.4 82.4 82.4 82.4 82.4 83.4 86.4 86.6 87.6 86.6 87.6 86.6 87.6 86.6 87.6 86.3 87.7 88.7 88.7 88.7 88.7 88.7 88.7 88	81.1 83.4 85.2 84.4 85.7 87.1 89.3 89.3 88.9 87.1 89.3 88.4 85.5 87.7 87.2 88.2 86.7 87.2 88.4 85.4 85.4 85.4 85.4 85.4 85.4 85.4	semi-	81.1 80.5 77.2 81.6 83.4 83.4 84.8 91.1 88.2 87.0 85.5 85.5 83.1 80.2 75.4 75.4 75.4 75.4 75.4 75.7 82.1 82.0 77.7 77.7 77.7 77.8 77.8 77.8 77.8 77
2004	80.2 80.9 80.0 80.5 80.9 80.7 81.0 81.0 81.4 81.2 81.3 80.9 81.1 81.0 80.7 80.4 79.6 79.6 79.6 79.6 79.6	78.6 79.4 79.4 78.8 78.8 79.4 79.4 79.6 80.1 79.8 79.3 79.2 79.1 77.7 77.7 64 73.5 73.8	76.4 77.9 77.7 76.6 76.8 77.7 77.6 78.2 78.8 78.1 77.9 77.7 77.5 76.8 75.6 75.4 75.4 75.4 71.8 71.9 72.7 74.2 74.2 74.2 74.2 74.2 74.2 74.2	80.4 80.8 81.2 81.2 81.3 81.3 81.2 81.5 81.1 81.6 81.0 80.9 81.0 80.3 80.4 80.2 80.3 79.7 79.5 77.5 77.6	86.2 82.0 80.1 80.6 80.6 80.9 80.3 79.9 80.3 79.0 79.0 78.5 78.4 78.2 76.6 76.1 76.0 74.9 74.4 74.1	88.5 90.9 89.3 90.2 89.1 88.9 88.9 88.9 90.2 90.5 90.7 90.7 90.7 90.8 90.8 90.8 90.8 90.8	85.4 84.2 85.0 90.9 86.9 86.9 84.2 87.4 86.6 86.3 85.5 87.4 86.5 85.4 85.5 85.2 85.3 85.3 85.3	86.7 88.8 88.5 88.4 88.2 88.4 88.5 88.3 89.5 90.2 89.5 89.6 89.6 89.6 89.6 89.6 89.6 89.6 89.6	82.5 82.4 81.7 81.4 82.2 81.8 81.7 81.9 82.1 81.9 82.1 81.9 81.5 81.0 80.4 80.4 80.2 79.6 79.9 75.9 75.9 76.5	75.3 76.4 77.5 76.6 76.8 76.9 77.3 77.3 77.7 78.1 77.5 77.0 77.0 75.9 76.1 76.0 75.9 76.1 76.0 75.1

 $^{^{\}rm 1}$ Output as percent of capacity. $^{\rm 2}$ See footnote 1 and Note, Table B–51.

Table B-55.—New construction activity, 1964–2008

[Value put in place, billions of dollars; monthly data at seasonally adjusted annual rates]

		[value pa	- III pidoo,			ate constru		- Ioonany ac	ajuotou un	inual rates		lic construc	tion
Year or month	Total new		Resid build	ential ings ¹		No		l buildings nstruction	and	,			State
real of filoriti	con- struc- tion	Total	Total ²	New housing units ³	Total	Lodging	Office	Com- mercial ⁴	Manu- factur- ing	Other ⁵	Total	Federal	and local
1964	75.1 81.9 85.8 87.2 96.8 104.9	54.9 60.0 61.9 61.8 69.4 77.2	30.5 30.2 28.6 28.7 34.2 37.2	24.1 23.8 21.8 21.5 26.7 29.2	24.4 29.7 33.3 33.1 35.2 39.9						20.2 21.9 23.8 25.4 27.4 27.8	3.7 3.9 3.8 3.3 3.2 3.2	16.5 18.0 20.0 22.1 24.2 24.6
1970 1971 1972 1973 1974 1975 1976 1977 1978 1979	105.9 122.4 139.1 153.8 155.2 152.6 172.1 200.5 239.9 272.9	78.0 92.7 109.1 121.4 117.0 109.3 128.2 157.4 189.7 216.2 210.3	35.9 48.5 60.7 65.1 56.0 51.6 68.3 92.0 109.8 116.4	27.1 38.7 50.1 54.6 43.4 36.3 50.8 72.2 85.6 89.3 69.6	42.1 44.2 48.4 56.3 61.1 57.8 59.9 65.4 79.9 99.8						27.9 29.7 30.0 32.3 38.1 43.3 44.0 43.1 50.1 56.6 63.6	3.1 3.8 4.2 4.7 5.1 6.8 7.1 8.6 9.6	24.8 25.9 25.8 27.6 33.0 37.2 36.0 42.0 48.1 54.0
1981 1982 1983 1984 1985 1986 1987 1988	289.1 279.3 311.9 370.2 403.4 433.5 446.6 462.0 477.5	224.4 216.3 248.4 300.0 325.6 348.9 356.0 367.3 379.3	99.2 84.7 125.8 155.0 160.5 190.7 199.7 204.5 204.3	69.4 57.0 95.0 114.6 115.9 135.2 142.7 142.4 143.2	125.1 131.6 122.6 144.9 165.1 158.2 156.3 162.8 175.1						64.7 63.1 63.5 70.2 77.8 84.6 90.6 94.7 98.2	10.4 10.0 10.6 11.2 12.0 12.4 14.1 12.3 12.2	54.3 53.1 52.9 59.0 65.8 72.2 76.6 82.5 86.0
1990 1991 1992 1993 1994 1995 1996 1997 1998	476.8 432.6 463.7 485.5 531.9 548.7 599.7 631.9 688.5 744.6	369.3 322.5 347.8 358.2 401.5 408.7 453.0 478.4 533.7 575.5	191.1 166.3 199.4 208.2 241.0 228.1 257.5 264.7 296.3 326.3	132.1 114.6 135.1 150.9 176.4 171.4 191.1 198.1 224.0 251.3	178.2 156.2 148.4 150.0 160.4 180.5 195.5 213.7 237.4 249.2	4.6 4.7 7.1 10.9 12.9 14.8 16.0	20.0 20.4 23.0 26.5 32.8 40.4 45.1	34.4 39.6 44.1 49.4 53.1 55.7 59.4	23.4 28.8 35.4 38.1 37.6 40.5 35.1	67.7 66.9 70.9 70.6 77.3 86.0 93.7	107.5 110.1 115.8 127.4 130.4 140.0 146.7 153.4 154.8 169.1	12.1 12.8 14.4 14.4 15.8 15.3 14.1 14.3	95.4 97.3 101.5 112.9 116.0 124.3 131.4 139.4 140.5 155.1
2000 2001 2002 2003 2004 2005 2006 2007	802.8 840.2 847.9 891.5 991.6 1,102.7 1,167.6 1,137.2	621.4 638.3 634.4 675.4 771.4 868.5 912.2 850.0	346.1 364.4 396.7 446.0 532.9 611.9 613.7 492.5	265.0 279.4 298.8 345.7 417.5 480.8 468.8 353.4	275.3 273.9 237.7 229.3 238.5 256.6 298.4 357.5	16.3 14.5 10.5 9.9 12.0 12.7 17.6 27.5	52.4 49.7 35.3 30.6 32.9 37.3 45.7 53.4	64.1 63.6 59.0 57.5 63.2 66.6 73.4 85.0	37.6 37.8 22.7 21.4 23.7 29.9 35.1 42.2	104.9 108.2 110.2 109.9 106.8 110.2 126.7 149.4	181.3 201.9 213.4 216.1 220.2 234.2 255.4 287.1	14.2 15.1 16.6 17.9 18.3 17.3 17.6 20.3	167.2 186.8 196.9 198.2 201.8 216.9 237.8 266.8
2007: Jan	1,149.1 1,149.0 1,162.4 1,148.2 1,154.6 1,149.4 1,139.4 1,138.8 1,134.9 1,124.2 1,115.3 1,093.5	872.3 875.0 887.3 869.4 868.5 863.0 852.9 848.5 837.7 829.9 816.9 797.5	553.3 545.3 552.1 528.5 520.9 508.2 493.6 480.2 465.1 447.0 428.7 413.9	401.1 390.8 386.0 381.4 373.2 367.6 358.9 346.9 334.5 320.5 305.2 289.2	319.0 329.7 335.1 340.9 347.6 354.8 359.3 368.3 372.6 382.9 388.3 383.7	20.7 21.4 24.0 25.4 26.5 27.8 29.1 29.3 30.1 32.1 32.5 31.2	51.7 51.3 52.1 50.8 50.6 51.1 52.1 54.1 55.4 57.6 57.8	78.4 80.9 81.7 83.4 84.6 85.4 84.6 86.5 87.9 88.6 89.1	36.6 38.7 38.0 41.1 40.0 40.1 42.9 42.6 42.8 44.8 47.2 51.2	131.6 137.4 139.4 140.2 145.9 150.5 150.6 155.7 156.4 159.9 161.7	276.8 274.0 275.1 278.8 286.1 286.4 286.6 290.3 297.2 294.3 298.4 296.0	20.5 18.8 18.5 18.9 19.7 20.5 20.4 21.5 20.1 21.3 21.6 21.9	256.3 255.2 256.6 259.9 266.5 265.9 266.1 268.8 277.1 273.0 276.8 274.1
2008: Jan	1,085.4 1,075.3 1,090.5 1,085.2 1,088.3 1,086.6 1,060.0 1,085.7 1,085.7	794.6 783.7 789.6 783.7 784.1 780.4 751.5 769.1 771.9 756.5	404.9 392.0 391.6 383.5 371.4 356.4 334.5 352.9 351.2 338.8	277.2 258.8 256.4 247.9 243.9 237.0 232.2 221.6 215.1 207.0	389.7 391.6 398.0 400.2 412.8 424.0 417.0 416.1 420.6 417.7	31.5 32.5 33.7 35.9 37.8 38.9 38.2 39.5 38.8 39.1	58.4 57.0 57.3 57.7 57.8 57.4 58.1 58.2 59.4 60.1	86.7 87.0 86.9 87.5 85.6 84.8 82.9 81.6 77.6	48.8 49.5 51.1 52.0 63.3 72.4 66.1 65.3 68.3 69.0	164.3 165.7 169.0 167.2 168.2 170.5 171.7 171.5 176.4 171.0	290.8 291.6 300.8 301.5 304.1 306.2 308.5 316.7 313.8 316.1	22.3 22.2 22.3 22.6 22.6 22.9 23.9 25.3 23.7 25.0	268.5 269.4 278.6 278.9 281.5 283.3 284.6 291.4 290.1

Note.—Data beginning with 1993 reflect reclassification.

Includes farm residential buildings.
 Includes residential improvements, not shown separately.
 New single- and multi-family units.
 Including farm.
 Health care, educational, religious, public safety, amusement and recreation, transportation, communication, power, highway and street, sewage and waste disposal, water supply, and conservation and development.

Table B-56.—New private housing units started, authorized, and completed and houses sold, 1959–2008 [Thousands; monthly data at seasonally adjusted annual rates]

				,		low bousing u		11		
		New housing			IN	lew housing ur		1'	New housing	New
Year or month		Type of s	2 to 4	5 units			structure 2 to 4	5 units	units	houses sold
	Total	1 unit	units 2	or more	Total	1 unit	units	or more	completed	
1959	1,517.0	1,234.0	28	3.0	1,208.3	938.3	77.1	192.9		
1960	1,252.2	994.7	25		998.0	746.1	64.6	187.4		
1961 1962	1,313.0 1,462.9	974.3 991.4	33 47		1,064.2 1,186.6	722.8 716.2	67.6 87.1	273.8 383.3		
1963	1,603.2	1,012.4	59		1,334.7	750.2	118.9	465.6		560
1964	1,528.8	970.5	108.3	450.0	1,285.8	720.1	100.8	464.9		565
1965 1966	1,472.8 1,164.9	963.7 778.6	86.7 61.2	422.5 325.1	1,240.6 971.9	709.9 563.2	84.8 61.0	445.9 347.7		575 461
1967	1,291.6	843.9	71.7	376.1	1.141.0	650.6	73.0	417.5		487
1968	1,507.6	899.4	80.7	527.3	1,353.4	694.7	84.3	574.4	1,319.8	490
1969	1,466.8	810.6	85.1	571.2	1,322.3	624.8	85.2	612.4	1,399.0	448
1970 1971	1,433.6	812.9 1,151.0	84.9 120.5	535.9 780.9	1,351.5	646.8 906.1	88.1 132.9	616.7 885.7	1,418.4 1,706.1	485 656
19/2 1	2,052.2 2,356.6	1,309.2	141.2	906.2	1,924.6 2,218.9	1,033.1	148.6	1,037.2	2,003.9	718
19/3	2,045.3	1,132.0	118.2	795.0	1,819.5	882.1	117.0	820.5	2,100.5	634
1974 1975	1,337.7 1,160.4	888.1 892.2	68.0 64.0	381.6 204.3	1,074.4 939.2	643.8 675.5	64.3 63.9	366.2 199.8	1,728.5 1,317.2	519 549
1976	1,537.5	1,162.4	85.8	289.2	1,296.2	893.6	93.1	309.5	1,377.2	646
19//	1,987.1	1,450.9	121.7 125.1	414.4 462.0	1,690.0	1,126.1 1,182.6	121.3 130.6	442.7 487.3	1,657.1	819 817
1978 1979	2,020.3 1,745.1	1,433.3 1,194.1	123.1	402.0	1,800.5 1,551.8	981.5	125.4	444.8	1,867.5 1,870.8	709
1980	1,292.2	852.2	109.5	330.5	1,190.6	710.4	114.5	365.7	1,501.6	545
1981	1,084.2	705.4	91.2	287.7	985.5	564.3	101.8	319.4	1,265.7	436
1982 1983	1,062.2 1,703.0	662.6 1,067.6	80.1 113.5	319.6 522.0	1,000.5 1,605.2	546.4 901.5	88.3 133.6	365.8 570.1	1,005.5 1,390.3	412 623
1984	1,749.5	1,084.2	121.4	543.9	1,681.8	922.4	142.6	616.8	1,652.2	639
1985	1,741.8	1,072.4	93.5	576.0	1,733.3	956.6	120.1	656.6	1,703.3	688
1986 1987	1,805.4 1.620.5	1,179.4 1.146.4	84.0 65.1	542.0 408.7	1,769.4 1 534.8	1,077.6 1.024.4	108.4 89.3	583.5 421.1	1,756.4 1,668.8	750 671
1988	1,488.1	1,081.3	58.7	348.0	1,534.8 1,455.6	993.8	75.7	386.1	1,529.8	676
1989	1,376.1	1,003.3	55.3	317.6	1,338.4	931.7	67.0	339.8	1,422.8	650
1990	1,192.7 1,013.9	894.8 840.4	37.6 35.6	260.4 137.9	1,110.8 948.8	793.9 753.5	54.3 43.1	262.6 152.1	1,308.0 1,090.8	534 509
1991 1992	1.199.7	1,029.9	30.9	137.5	1,094.9	910.7	45.8	152.1 138.4	1.157.5	610
1993	1,287.6	1,125.7	29.4	132.6	1,199.1	986.5	52.3	160.2	1,192.7	666
1994 1995	1,457.0 1,354.1	1,198.4 1,076.2	35.2 33.8	223.5 244.1	1,371.6 1,332.5	1,068.5 997.3	62.2 63.7	241.0 271.5	1,346.9 1,312.6	670 667
1996	1,476.8	1.160.9	45.3	270.8	1,425.6	1.069.5	65.8	290.3	1,412.9	757
1997	1,474.0	1,133.7 1,271.4	44.5	295.8	1,441.1	1,062.4	68.5	310.3	1,400.5	804
1998 1999	1,616.9 1,640.9	1,2/1.4	42.6 31.9	302.9 306.6	1,612.3 1,663.5	1,187.6 1,246.7	69.2 65.8	355.5 351.1	1,474.2 1,604.9	886 880
2000	1,568.7	1,230.9	38.7	299.1	1,592.3	1.198.1	64.9	329.3	1,573.7	877
2001	1,602.7	1,273.3	36.6	292.8	1,636.7	1,235.6	66.0	335.2	1,570.8	908
2002	1,704.9 1,847.7	1,358.6 1,499.0	38.5 33.5	307.9 315.2	1,747.7 1,889.2	1,332.6 1,460.9	73.7 82.5	341.4 345.8	1,648.4 1,678.7	973 1,086
2004	1,955.8	1,433.0	42.3	303.0	2,070.1	1,400.5	90.4	366.2	1.841.9	1,000
2005 l	2,068.3	1,715.8	41.1	311.4	2.155.3	1,682.0	84.0	389.3	1,931.4	1,283
2006 2007	1,800.9 1,355.0	1,465.4 1,046.0	42.7 31.7	292.8 277.3	1,838.9 1,398.4	1,378.2 979.9	76.6 59.6	384.1 359.0	1,979.4 1,502.8	1,051 776
2007: Jan	1,333.0	1,040.0	22	277.3	1,585	1.138	74	373	1.815	872
Feb I	1,486	1,188	30	268	1,580	1,118	73	389	1,624	820
Mar	1,492	1,196	37 36	259	1,578	1,135	72 61	371 350	1,620	823
Apr May	1,487 1,436	1,198 1,146	34	253 256	1,489 1,522	1,078 1,063	64	395	1,535 1,549	907 857
June	1,458	1,136	38	284	1,433	1,016	56	361	1,491	793
July Aug	1,371 1,337	1,055 968	40 37	276 332	1,386 1,343	997 928	57 55	332 360	1,515 1,498	796 702
Sept	1.185	936	29	220	1,277	870	50	357	1,378	694
Oct	1,275	884	40	351	1,182	811	48	323	1,401	723
Nov Dec	1,179 1,000	816 779	21 10	342 211	1,187 1,111	767 714	53 56	367 341	1,404 1,329	629 600
2008: Jan	1,064	750	27	287	1,052	675	43	334		597
Feb	1,107	722	29	356	981	646	40	295	1,331 1,251	572
Mar	988	711	16	261	932	621	37 38	274	1,192	513
Apr May	1,004 982	681 682	15 20	308 280	982 978	649 635	34	295 309	1,033 1,144	542 515
June	1,089	663	22	404	1,138	616	33	489	1,131	499
July l	949 854	644	14	291	937	584	33 33 31	320	1,086	505
Sept P	854 828	615 549	15 17	224 262	857 805	553 538	31	273 233	1,012 1,161	454 457
Aug Sept ^p Oct ^p	791	531	13	247	730	470	29	231	1,043	433

¹ Authorized by issuance of local building permits in permit-issuing places: 20,000 places beginning with 2004; 19,000 for 1994–2003; 17,000 for 1984–93; 16,000 for 1978–83; 14,000 for 1972–77; 13,000 for 1967–71; 12,000 for 1963–66; and 10,000 prior to 1963.

² Monthly data derived.

Note.—Data beginning with 1999 for new housing units started and completed and for new houses sold are based on new estimation methods and are not directly comparable with earlier data.

Source: Department of Commerce (Bureau of the Census).

Table B-57.—Manufacturing and trade sales and inventories, 1967-2008

[Amounts in millions of dollars; monthly data seasonally adjusted]

	Total	manufactur and trade			anufacturir			Merchant holesalers			Retail trade		Retail and food
Year or month	Sales ²	Inven- tories ³	Ratio ⁴	Sales ²	Inven- tories ³	Ratio ⁴	Sales ²	Inven- tories ³	Ratio ⁴	Sales ^{2, 5}	Inven- tories ³	Ratio ⁴	services sales
SIC: 6 1967 1968 1969	90,820 98,685 105,690	145,681 156,611 170,400	1.60 1.59 1.61	46,486 50,229 53,501	84,646 90,560 98,145	1.82 1.80 1.83	19,576 21,012 22,818	25,786 27,166 29,800	1.32 1.29 1.31	24,757 27,445 29,371	35,249 38,885 42,455	1.42 1.42 1.45	
1970	108,221 116,895 131,081 153,677 177,912 182,198 204,150 229,513 260,320 297,701	178,594 188,991 203,227 234,406 287,144 288,992 318,345 350,706 400,931 452,640	1.65 1.62 1.55 1.53 1.61 1.59 1.56 1.53 1.54	52,805 55,906 63,027 72,931 84,790 86,589 98,797 113,201 126,905 143,936	101,599 102,567 108,121 124,499 157,625 159,708 174,636 188,378 211,691 242,157	1.92 1.83 1.72 1.71 1.86 1.84 1.77 1.66 1.67	24,167 26,492 29,866 38,115 47,982 46,634 50,698 56,136 66,413 79,051	33,354 36,568 40,297 46,918 58,667 57,774 64,622 73,179 86,934 99,679	1.38 1.38 1.35 1.23 1.22 1.24 1.27 1.30 1.31	31,249 34,497 38,189 42,631 45,141 48,975 54,655 60,176 67,002 74,713	43,641 49,856 54,809 62,989 70,852 71,510 79,087 89,149 102,306 110,804	1.40 1.45 1.44 1.48 1.57 1.46 1.45 1.48 1.53 1.48	
1980	327,233 355,822 347,625 369,286 410,124 422,583 430,419 457,735 497,157 527,039 545,909	508,924 545,786 573,908 590,287 649,780 664,039 662,738 709,848 767,222 815,455 840,594	1.56 1.53 1.67 1.56 1.53 1.56 1.55 1.50 1.49 1.52	154,391 168,129 163,351 172,547 190,682 194,538 194,657 206,326 224,619 236,698 242,686	265,215 283,413 311,852 312,379 339,516 334,749 322,654 338,109 369,374 391,212 405,073	1.72 1.69 1.95 1.78 1.73 1.68 1.59 1.57 1.63	93,099 101,180 95,211 99,225 112,199 113,459 114,960 122,968 134,521 143,760 149,506	122,631 129,654 127,428 130,075 142,452 147,409 153,574 163,903 178,801 187,009	1.32 1.28 1.36 1.28 1.23 1.28 1.32 1.29 1.30 1.28	79,743 86,514 89,062 97,514 107,243 114,586 120,803 128,442 138,017 146,581 153,718	121,078 132,719 134,628 147,833 167,812 181,881 186,510 207,836 219,047 237,234 239,688	1.52 1.53 1.49 1.44 1.52 1.56 1.55 1.54 1.58	
1991	542,815 567,176 540,573 567,580 610,253 655,097	834,609 842,809 836,992 864,028 927,330 986,089	1.53 1.48 1.53 1.50 1.46 1.48	239,847 250,394 242,002 251,708 269,843 289,973	390,950 382,510 378,709 379,660 399,910 424,772	1.65 1.54 1.57 1.50 1.44 1.44	148,306 154,150 147,261 154,018 164,575 179,915	200,448 208,302 196,914 204,842 221,978 238,392	1.33 1.32 1.31 1.30 1.29 1.29	154,661 162,632 151,310 161,854 175,835 185,209	243,211 251,997 261,369 279,526 305,442 322,925	1.54 1.52 1.67 1.68 1.66 1.72	168,261 179,858 194,638 204,677
1997 1998 1999 2000 2001	687,350 723,879 742,837 786,634 834,325 818,615	1,005,497 1,046,721 1,078,740 1,138,805 1,197,597 1,120,025 1,140,083	1.46 1.42 1.43 1.40 1.41 1.42	299,766 319,558 324,984 335,991 350,715 330,875	430,446 443,566 449,065 463,625 481,673 428,113	1.43 1.37 1.39 1.35 1.35 1.38	190,362 198,154 202,260 216,597 234,546 232,096 236,294	241,041 258,546 272,406 290,171 309,071 297,199 300,791	1.27 1.26 1.31 1.30 1.29 1.32 1.25	197,222 206,167 215,592 234,046 249,063 255,644	334,010 344,609 357,269 385,009 406,853 394,713 416,159	1.67 1.64 1.62 1.59 1.59 1.58 1.55	217,463 227,670 238,278 257,797 274,518 282,131
2002	823,714 853,596 923,319 1,001,315 1,068,026 1,113,787	1,146,695 1,238,037 1,305,227 1,390,428 1,443,837	1.36 1.34 1.30 1.27 1.27 1.27	326,227 334,616 359,081 395,173 418,330 423,423	423,133 408,304 440,697 472,860 511,487 530,664	1.28 1.24 1.19 1.17 1.19 1.23	246,857 274,710 298,803 325,749 353,663	306,032 335,935 360,411 390,350 411,955	1.22 1.17 1.17 1.16 1.13	261,194 272,123 289,528 307,338 323,947 336,701	432,359 461,405 471,956 488,591 501,218	1.56 1.56 1.51 1.49 1.47	288,845 301,264 320,526 340,141 358,978 373,556
2007: Jan Feb Mar Apr Apr May June July Aug Sept Oct Nov Dec	1,069,908 1,080,114 1,093,846 1,103,192 1,115,541 1,110,106 1,121,298 1,117,717 1,126,455 1,134,373 1,153,365 1,144,800	1,392,163 1,395,913 1,395,099 1,399,680 1,405,888 1,411,042 1,416,225 1,420,769 1,428,608 1,430,592 1,435,815 1,443,837	1.30 1.29 1.28 1.27 1.26 1.27 1.26 1.27 1.26 1.24 1.24	408,610 411,584 417,629 422,726 426,330 422,938 431,756 423,435 422,225 427,623 435,555 433,063	512,189 512,706 512,988 514,686 516,996 517,956 518,644 518,057 521,995 522,777 526,439 530,664	1.25 1.25 1.23 1.22 1.21 1.22 1.20 1.22 1.24 1.22 1.21 1.23	331,772 336,263 341,337 346,315 349,584 351,429 352,422 357,087 363,137 364,887 373,884 371,569	390,950 392,674 393,980 395,470 396,332 398,126 398,870 400,986 405,082 405,003 407,837 411,955	1.18 1.17 1.15 1.14 1.13 1.13 1.13 1.12 1.12 1.11 1.09 1.11	329,526 332,267 334,880 334,151 339,627 335,739 337,120 337,195 341,093 341,863 343,926 340,168	489,024 490,533 488,131 489,524 492,560 494,960 498,711 501,726 501,531 502,812 501,539 501,218	1.48 1.46 1.46 1.45 1.47 1.48 1.49 1.47 1.47 1.46 1.47	365,610 368,271 371,322 370,568 376,206 372,603 374,270 374,253 378,404 379,295 381,280 377,909
2008: Jan	1,160,251 1,148,347 1,161,817 1,179,814 1,192,681 1,213,469 1,214,338 1,188,196 1,162,953	1,457,953 1,464,497 1,467,463 1,474,247 1,479,765 1,490,874 1,507,756 1,510,658 1,506,718	1.26 1.28 1.26 1.25 1.24 1.23 1.24 1.27 1.30	437,643 429,531 434,378 446,031 447,411 455,873 462,379 445,455 431,492 417,703	537,497 540,675 545,791 545,633 548,825 555,627 559,070 562,781 558,296 555,136	1.23 1.26 1.26 1.22 1.23 1.22 1.21 1.26 1.29 1.33	380,230 378,217 385,072 391,050 399,845 411,960 408,862 402,319 396,162	417,143 421,078 421,700 427,560 431,273 435,147 441,823 444,547 444,183	1.10 1.11 1.10 1.09 1.08 1.06 1.08 1.10	342,378 340,599 342,367 342,733 345,425 345,636 343,097 340,422 335,299 324,796	503,313 502,744 499,972 501,054 499,667 500,100 506,863 503,330 504,239	1.47 1.48 1.46 1.46 1.45 1.45 1.48 1.50	380,019 378,106 380,020 380,788 383,769 384,069 381,578 378,966 374,065 363,696

¹ Excludes manufacturers' sales branches and offices.

² Annual data are averages of monthly not seasonally adjusted figures.

3 Seasonally adjusted, end of period. Inventories beginning with January 1982 for manufacturing and December 1980 for wholesale and retail trade are not

Comparable with earlier periods.

4 Inventory/sales ratio. Monthly inventories are inventories at the end of the month to sales for the month. Annual data beginning with 1982 are the average of monthly ratios for the year.

5 Food services included on Standard Industrial Classification (SIC) basis and excluded on North American Industry Classification System (NAICS) basis. See

last column for retail and food services sales.

⁶ Effective in 2001, data classified based on NAICS. Data on NAICS basis available beginning with 1992. Earlier data based on SIC. Data on both NAICS and

SIC basis include semiconductors.

Table B-58.—Manufacturers' shipments and inventories, 1967-2008

[Millions of dollars; monthly data seasonally adjusted]

	Shipments 1 Inventories											
			Non-		[Ourable good	ds industrie	S	No	ondurable go	ods industr	ies
Year or month	Total	Durable goods indus- tries	durable goods indus- tries	Total	Total	Materi- als and supplies	Work in process	Finished goods	Total	Materi- als and supplies	Work in process	Finished goods
<i>SIC:</i> ³ 1967 1968 1969	46,486 50,229 53,501	25,233 27,624 29,403	21,253 22,605 24,098	84,646 90,560 98,145	54,896 58,732 64,598	16,423 17,344 18,636	24,933 27,213 30,282	13,540 14,175 15,680	29,750 31,828 33,547	11,760 12,328 12,753	4,431 4,852 5,120	13,559 14,648 15,674
1970	52,805 55,906 63,027 72,931 84,790 86,589 98,797 113,201 126,905 143,936	28,156 29,924 33,987 39,635 44,173 43,598 50,623 59,168 67,731 75,927	24,649 25,982 29,040 33,296 40,617 42,991 48,174 54,033 59,174 68,009	101,599 102,567 108,121 124,499 157,625 159,708 174,636 188,378 211,691 242,157	66,651 66,136 70,067 81,192 101,493 102,590 111,988 120,877 138,181 160,734	19,149 19,679 20,807 25,944 35,070 33,903 37,457 40,186 45,198 52,670	29,745 28,550 30,713 35,490 42,530 43,227 46,074 50,226 58,848 69,325	17,757 17,907 18,547 19,758 23,893 25,460 28,457 30,465 34,135 38,739	34,948 36,431 38,054 43,307 56,132 57,118 62,648 67,501 73,510 81,423	13,168 13,686 14,677 18,147 23,744 23,565 25,847 27,387 29,619 32,814	5,271 5,678 5,998 6,729 8,189 8,834 9,929 10,961 12,085 13,910	16,509 17,067 17,379 18,431 24,199 24,719 26,872 29,153 31,806 34,699
1980 1981 1982 1983 1984 1985 1986 1987 1988	154,391 168,129 163,351 172,547 190,682 194,538 194,657 206,326 224,619 236,698 242,686 239,847	77,419 83,727 79,212 85,481 97,940 101,279 103,238 108,128 118,458 123,158 123,776 121,000	76,972 84,402 84,139 87,066 92,742 93,259 91,419 98,198 106,161 113,540 118,910 118,847	265,215 283,413 311,852 312,379 339,516 334,749 322,654 389,374 391,212 405,073 390,950	174,788 186,443 200,444 199,854 221,330 218,193 211,997 220,799 242,468 257,513 263,209 250,019	55,173 57,998 59,136 60,325 66,031 63,904 61,331 63,562 69,611 72,435 73,559 70,834	76,945 80,998 86,707 86,899 98,251 98,162 97,000 102,393 112,958 122,251 124,130 114,960 104,424	42,670 47,447 54,601 52,630 57,048 56,127 53,666 54,844 59,899 62,827 65,520 64,225	90,427 96,970 111,408 112,525 118,186 116,556 110,657 117,310 126,906 133,699 141,864 140,931	36,606 38,165 44,039 44,816 45,692 44,106 42,335 45,319 49,396 50,674 52,645 53,011	15,884 16,194 18,612 18,691 19,328 19,442 18,124 19,270 20,559 21,653 22,817 22,815	37,937 42,611 48,757 49,018 53,166 53,008 50,198 52,721 56,951 61,372 66,402 65,105
1990 1991 1992 <i>MAICS: 3</i> 1992 1993 1994 1995 1996 1997	250,394 242,002 251,708 269,843 289,973 299,766 319,558 324,984 335,991	128,489 126,572 133,712 147,005 158,568 164,883 178,949 185,966 193,895	121,905 115,430 117,996 122,838 131,405 134,883 140,610 139,019 142,096	390,950 382,510 378,709 379,660 399,910 424,772 430,446 443,566 449,065 463,625	238,105 238,102 238,737 253,141 267,358 272,495 281,074 290,700 296,553	69,459 69,737 72,657 78,573 85,473 86,226 92,292 93,629 97,959	104,424 104,211 101,999 106,556 106,658 110,563 109,960 115,235 114,111	64,222 64,154 64,081 68,012 75,227 75,706 78,822 81,836 84,483	144,405 140,607 140,923 146,769 157,414 157,951 162,492 158,365 167,072	54,007 53,179 54,289 57,161 60,725 59,101 60,160 58,223 61,098	23,532 23,304 23,305 24,383 25,755 26,438 28,478 27,044 28,741	66,866 64,124 63,329 65,225 70,934 72,412 73,854 73,098 77,233
2000 2001 2002 2003 2004 2004 2005 2006 2007	350,715 330,875 326,227 334,616 359,081 395,173 418,330 423,423	197,807 181,201 176,968 178,549 188,722 202,070 213,408 213,572	152,908 149,674 149,259 156,067 170,359 193,103 204,923 209,851	481,673 428,113 423,133 408,304 440,697 472,860 511,487 530,664	306,727 267,829 260,582 246,963 265,070 283,598 309,914 320,757	106,214 91,291 88,575 82,354 92,207 98,271 108,819 109,305	111,196 93,924 92,386 88,719 91,207 98,929 105,340 113,969	89,317 82,614 79,621 75,890 81,656 86,398 95,755 97,483	174,946 160,284 162,551 161,341 175,627 189,262 201,573 209,907	61,509 55,726 56,536 56,847 61,713 66,394 69,638 72,911	30,015 27,073 27,828 27,047 29,953 32,889 36,247 38,405	83,422 77,485 78,187 77,447 83,961 89,979 95,688 98,591
2007: Jan Feb Feb Mar Apr June July Aug Sept Oct Nov Dec Dec Mar	408,610 411,584 417,629 422,726 426,330 422,938 431,756 423,435 422,225 427,623 435,555 433,063	210,501 211,161 212,648 215,748 216,056 213,400 219,187 215,802 212,453 213,240 212,950 211,274	198,109 200,423 204,981 206,978 210,274 209,538 212,569 207,633 209,772 214,383 222,605 221,789	512,189 512,706 512,988 514,686 516,996 517,956 518,644 518,057 521,995 522,777 526,439 530,664	311,878 312,453 312,312 313,015 313,421 313,3495 313,236 314,636 315,650 317,534 320,757	109,085 108,863 108,642 109,083 109,099 108,988 108,732 107,972 108,567 108,943 109,305	106,344 106,371 106,176 106,879 107,808 107,988 108,400 109,712 110,980 111,928 113,969	96,449 97,219 97,494 97,053 96,514 96,395 96,107 95,367 96,952 96,103 96,663 97,483	200,311 200,253 200,676 201,671 203,575 205,149 204,821 207,359 207,127 208,905 209,907	69,687 70,147 70,049 70,523 71,132 71,545 71,772 72,246 73,731 73,175 72,998 72,911	35,863 35,861 36,163 35,873 36,399 35,812 35,273 35,546 36,333 37,281 38,405	94,761 94,245 94,464 95,275 96,051 96,681 97,302 98,082 97,619 98,626 98,591
2008: Jan	437,643 429,531 434,378 446,031 447,411 455,873 462,379 445,455 431,492 417,703	215,917 211,772 209,778 213,591 211,049 212,947 217,549 208,339 208,240 202,075	221,726 217,759 224,600 232,440 236,362 242,926 244,830 237,116 223,252 215,628	537,497 540,675 545,791 545,633 548,825 555,627 559,070 562,781 558,296 555,136	322,384 323,841 327,066 328,911 330,426 333,127 336,185 339,033 339,728 341,256	110,161 110,644 111,560 112,097 112,275 113,575 115,462 115,897 116,330 116,608	115,144 116,407 118,227 119,869 121,109 122,118 123,189 124,479 124,799 126,342	97,079 96,790 97,279 96,945 97,042 97,434 97,534 98,657 98,599 98,306	215,113 216,834 218,725 216,722 218,399 222,500 222,885 223,748 218,568 213,880	75,343 75,458 75,215 75,045 76,167 76,810 76,685 76,770 76,309 73,876	40,346 41,346 41,550 40,515 42,033 41,533 42,641 42,683 41,327 39,049	99,424 100,030 101,960 101,162 100,199 104,157 103,559 104,295 100,932 100,955

Annual data are averages of monthly not seasonally adjusted figures.
 Seasonally adjusted, end of period. Data beginning with 1982 are not comparable with earlier data.
 Seffective in 2001, data classified based on North American Industry Classification System (NAICS). Data on NAICS basis available beginning with 1992. Earlier data based on Standard Industrial Classification (SIC). Data on both NAICS and SIC basis include semiconductors.

Table B-59.—Manufacturers' new and unfilled orders, 1967-2008

[Amounts in millions of dollars; monthly data seasonally adjusted]

		New o		OIIS OI UOIIAI	· ,	Infilled orders		Unfilled o	rders to shipm	ents ratio ²
Year or month	Total	Durable indus Total	c goods stries Capital goods, nondefense	Nondurable goods industries	Total	Durable goods industries	Nondurable goods industries	Total	Durable goods industries	Nondurable goods industries
SIC: ³ 1967 1968	47,067 50,657 53,990	25,803 28,051 29,876	6,314 7,046	21,265 22,606 24,114	103,711 108,377 114,341	99,735 104,393 110,161	3,976 3,984 4,180	3.66 3.79 3.71	4.37 4.58 4.45	0.73 .69 .69
1970 1971 1972 1973 1974 1975 1976 1977 1978	52,022 55,921 64,182 76,003 87,327 85,139 99,513 115,109 131,629 147,604	27,340 29,905 35,038 42,627 46,862 41,957 51,307 61,035 72,278 79,483	6,072 6,682 7,745 9,926 11,594 9,886 11,490 13,681 17,588 21,154	24,682 26,016 29,144 33,376 40,465 43,181 48,206 54,073 59,351 68,121	105,008 105,247 119,349 156,561 187,043 169,546 178,128 202,024 259,169 303,593	100,412 100,225 113,034 149,204 181,519 161,664 169,857 193,323 248,281 291,321	4,596 5,022 6,315 7,357 5,582 7,882 8,271 8,701 10,888 12,272	3.61 3.32 3.26 3.80 4.09 3.69 3.24 3.24 3.57 3.89	4.36 4.00 3.85 4.51 4.93 4.45 3.88 3.85 4.20 4.62	.76 .76 .86 .91 .62 .82 .74 .71 .81
1980 1981 1982 1983 1984 1985 1986 1987 1988 1989	156,359 168,025 162,140 175,451 192,879 195,706 195,204 209,389 228,270 239,572	79,392 83,654 78,064 88,140 100,164 102,356 103,647 110,809 122,076 126,055	21,135 21,806 19,213 19,624 23,689 24,545 23,982 26,094 31,108 32,988	76,967 84,371 84,077 87,311 92,715 93,351 91,557 98,579 106,194 113,516	327,416 326,547 311,887 347,273 373,529 387,196 393,515 430,426 474,154 508,849	315,202 314,707 300,798 333,114 359,651 372,097 376,699 408,688 452,150 487,098	12,214 11,840 11,089 14,159 13,878 15,099 16,816 21,738 22,004 21,751	3.85 3.87 3.84 3.53 3.60 3.67 3.59 3.63 3.64 3.96	4.58 4.68 4.74 4.29 4.37 4.47 4.41 4.43 4.46 4.85	.75 .69 .62 .69 .64 .68 .70 .83 .76
1990 1991 1992 NAICS: ³	244,507 238,805 248,212	125,583 119,849 126,308	33,331 30,471 31,524	118,924 118,957 121,905	531,131 519,199 492,893	509,124 495,802 469,381	22,007 23,397 23,512	4.15 4.08 3.51	5.15 5.07 4.30	.76 .79 .75
1992 1993 1994 1995 1996 1997 1998	246,668 266,641 285,542 297,282 314,986 317,345 329,770	128,672 143,803 154,137 162,399 174,377 178,327 187,674	40,681 45,175 51,011 54,066 60,697 62,133 64,392			451,273 425,979 434,979 447,411 488,726 512,916 496,083 505,498			5.14 4.66 4.21 3.97 4.14 4.04 3.97 3.76	
2000	346,789 322,746 316,809 330,369 354,619 395,401 419,793 427,597	193,881 173,072 167,550 174,302 184,261 202,298 214,871 217,746	69,278 58,246 51,817 52,894 56,094 65,770 71,725 74,288			549,445 514,349 462,122 477,608 496,343 572,835 660,406 773,297			3.87 4.21 4.05 3.92 3.88 3.84 4.17 4.80	
2007: Jan	405,820 412,981 422,322 428,894 427,149 427,369 442,069 426,512 425,399 430,254 437,808 445,917	207,711 212,558 217,341 221,916 216,875 217,831 229,500 218,879 215,627 215,871 215,203 224,128	65,148 69,914 77,522 78,168 73,057 75,720 80,464 70,219 74,677 72,501 75,585 78,238			664,272 670,877 680,483 693,329 699,668 708,841 724,733 732,889 740,534 748,304 755,712			4.58 4.59 4.64 4.65 4.76 4.76 4.87 4.96 5.01 5.06 5.20	
2008: Jan Feb Mar Apr May June July Aug Sept P Ct P	435,415 433,860 440,216 445,915 450,033 459,576 462,993 443,200 429,286 407,370	213,689 216,101 215,616 213,475 213,671 216,650 218,163 206,084 206,034 191,742	73,271 74,408 75,431 73,609 73,639 71,958 74,498 68,694 67,923 64,851			777,859 786,860 797,114 802,972 810,293 818,023 824,232 826,529 828,225 823,094			5.14 5.24 5.30 5.27 5.33 5.30 5.25 5.50 5.50	

Annual data are averages of monthly not seasonally adjusted figures.
 Unfilled orders are seasonally adjusted, end of period. Ratios are unfilled orders at end of period to shipments for period (excludes industries with no unfilled orders). Annual ratios relate to seasonally adjusted data for December.
 Seffective in 2001, data classified based on North American Industry Classification System (NAICS). Data on NAICS basis available beginning with 1992. Earlier data based on the Standard Industrial Classification (SIC). Data on SIC basis include semiconductors. Data on NAICS basis do not include semiconductors.

Note.—For NAICS basis data beginning with 1992, because there are no unfilled orders for manufacturers' nondurable goods, manufacturers' nondurable new orders and nondurable shipments are the same (see Table B-58).

PRICES

Table B-60.—Consumer price indexes for major expenditure classes, 1960–2008

[For all urban consumers; 1982-84=100, except as noted]

Vanananath	Allitana	Food bever		A	Uzurian	Transpor-	Medical	Recre-	Education and	Other goods	F3
Year or month	All items	Total ¹	Food	Apparel	Housing	tation	care	ation ²	communi- cation ²	and services	Energy ³
1960	29.6 29.9 30.2 30.6 31.0		30.0 30.4 30.6 31.1 31.5	45.7 46.1 46.3 46.9 47.3		29.8 30.1 30.8 30.9 31.4	22.3 22.9 23.5 24.1 24.6				22.4 22.5 22.6 22.6 22.5
1965 1966 1967 1968 1969	31.5 32.4 33.4 34.8 36.7 38.8	35.0 36.2 38.1 40.1	32.2 33.8 34.1 35.3 37.1 39.2	47.8 49.0 51.0 53.7 56.8 59.2	30.8 32.0 34.0 36.4	31.9 32.3 33.3 34.3 35.7 37.5	25.2 26.3 28.2 29.9 31.9			35.1 36.9 38.7 40.9	22.9 23.3 23.8 24.2 24.8 25.5
1970	40.5 41.8 44.4 49.3 53.8 56.9 60.6	41.4 43.1 48.8 55.5 60.2 62.1 65.8	40.4 42.1 48.2 55.1 59.8 61.6 65.5	61.1 62.3 64.6 69.4 72.5 75.2 78.6	38.0 39.4 41.2 45.8 50.7 53.8 57.4	37.5 39.5 39.9 41.2 45.8 50.1 55.1 59.0	36.1 37.3 38.8 42.4 47.5 52.0 57.0			42.9 44.7 46.4 49.8 53.9 57.0 60.4	26.5 27.2 29.4 38.1 42.1 45.1 49.4
1978 1979 1980	65.2 72.6 82.4	72.2 79.9 86.7	72.0 79.9 86.8	81.4 84.9 90.9	62.4 70.1 81.1	61.7 70.5 83.1	61.8 67.5 74.9			64.3 68.9 75.2	52.5 65.7 86.0
1981 1982 1983 1984 1985 1986 1987 1988	90.9 96.5 99.6 103.9 107.6 109.6 113.6 118.3	93.5 97.3 99.5 103.2 105.6 109.1 113.5 118.2	93.6 97.4 99.4 103.2 105.6 109.0 113.5 118.2	95.3 97.8 100.2 102.1 105.0 105.9 110.6 115.4 118.6	90.4 96.9 99.5 103.6 107.7 110.9 114.2 118.5 123.0	93.2 97.0 99.3 103.7 106.4 102.3 105.4 108.7 114.1	82.9 92.5 100.6 106.8 113.5 122.0 130.1 138.6 149.3			82.6 91.1 101.1 107.9 114.5 121.4 128.5 137.0 147.7	97.7 99.2 99.9 100.9 101.6 88.2 88.6 89.3 94.3
1990 1991 1992 1993 1994 1995 1996 1997 1998	130.7 136.2 140.3 144.5 148.2 152.4 156.9 160.5 163.0	132.1 136.8 138.7 141.6 144.9 153.7 157.7 161.1	132.4 136.3 137.9 140.9 144.3 148.4 153.3 157.3 160.7	124.1 128.7 131.9 133.7 133.4 132.0 131.7 132.9 133.0 131.3	128.5 133.6 137.5 141.2 144.8 148.5 152.8 160.4 163.9	120.5 123.8 126.5 130.4 134.3 139.1 143.0 144.3 141.6	162.8 177.0 190.1 201.4 211.0 220.5 228.2 234.6 242.1 250.6	90.7 92.7 94.5 97.4 99.6 101.1 102.0	85.5 88.8 92.2 95.3 98.4 100.3	159.0 171.6 183.3 192.9 198.5 206.9 215.4 224.8 237.7 258.3	102.1 102.5 103.0 104.2 104.6 105.2 110.1 111.5 102.9
2000 2001 2002 2003 2004 2005 2006 2007	172.2 177.1 179.9 184.0 188.9 195.3 201.6 207.342	168.4 173.6 176.8 180.5 186.6 191.2 195.7 203.300	167.8 173.1 176.2 180.0 186.2 190.7 195.2 202.916	129.6 127.3 124.0 120.9 120.4 119.5 119.5	169.6 176.4 180.3 184.8 189.5 195.7 203.2 209.586	153.3 154.3 152.9 157.6 163.1 173.9 180.9 184.682	260.8 272.8 285.6 297.1 310.1 323.2 336.2 351.054	103.3 104.9 106.2 107.5 108.6 109.4 110.9	102.5 105.2 107.9 109.8 111.6 113.7 116.8 119.577	271.1 282.6 293.2 298.7 304.7 313.4 321.7 333.328	124.6 129.3 121.7 136.5 151.4 177.1 196.9 207.723
2007: Jan	202.416 203.499 205.352 206.686 207.949 208.352 208.299 207.917 208.490 208.936 210.177 210.036	199.198 200.402 200.869 201.292 202.225 202.885 203.533 204.289 205.279 206.124 206.563 206.936	198.812 200.000 200.403 200.820 201.791 202.441 203.121 203.885 204.941 205.796 206.277 206.704	115.988 119.017 122.582 122.934 121.452 117.225 113.500 114.439 119.535 121.846 121.204 118.257	206.057 207.177 208.080 208.541 208.902 210.649 211.286 211.098 210.865 210.701 210.745 210.933	174.463 174.799 180.346 185.231 189.961 189.064 187.690 184.480 184.532 184.952 190.677 189.984	343.510 346.457 347.172 348.225 349.087 349.510 351.643 352.961 353.723 355.653 357.041 357.661	111.012 111.174 111.244 111.481 111.659 111.563 111.347 111.139 111.400 111.753 111.842 111.705	117.815 117.971 118.231 118.301 118.787 118.734 119.025 120.311 121.273 121.557 121.409 121.506	329.198 330.459 331.144 331.743 332.785 333.378 333.415 334.801 335.680 336.379 337.633	183.567 184.451 196.929 207.265 219.071 221.088 217.274 209.637 207.588 219.009 217.506
2008: Jan Feb Mar Apr May June July Aug Sept Oct	211.080 211.693 213.528 214.823 216.632 218.815 219.964 219.086 218.783 216.573	208.837 209.462 209.692 211.365 212.251 213.383 215.326 216.419 217.672 218.705	208.618 209.166 209.385 211.102 212.054 213.243 215.299 216.422 217.696 218.738	115.795 117.839 120.881 122.113 120.752 117.019 114.357 116.376 121.168 122.243	212.244 213.026 214.389 214.890 215.809 217.941 219.610 219.148 218.184 217.383	190.839 190.520 195.189 198.608 205.262 211.787 212.806 206.739 203.861 192.709	360.459 362.155 363.000 363.184 363.396 363.616 363.963 364.477 365.036 365.746	112.083 112.365 112.731 112.874 112.987 112.991 113.277 113.786 114.032 114.169	121.762 121.766 121.832 122.073 122.348 122.828 123.445 124.653 125.505 125.686	339.052 340.191 341.827 343.410 344.709 345.885 346.810 346.990 348.166 349.276	219.465 219.311 230.505 240.194 257.106 275.621 280.833 266.283 258.020 231.561

Note.—Data beginning with 1983 incorporate a rental equivalence measure for homeowners' costs. Series reflect changes in composition and renaming beginning in 1998, and formula and methodology changes beginning in 1999.

Includes alcoholic beverages, not shown separately.
 December 1997=100.
 Household energy—gas (piped), electricity, fuel oil, etc.—and motor fuel. Motor oil, coolant, etc. also included through 1982.

Table B-61.—Consumer price indexes for selected expenditure classes, 1960–2008

[For all urban consumers; 1982-84=100, except as noted]

		Food and b	everages					Housing			
			Food				Shelter		Fu	els and utilit	ies
Year or month								Owners'		Househo	ld energy
	Total ¹	Total	At home	Away from home	Total ²	Total ²	Rent of primary residence	equivalent rent of primary residence ³	Total ²	Total ²	Gas (piped) and electricity
1960	35.0 36.2 38.1 41.1 41.4 48.8 55.5 60.2 79.9 86.7 79.9 86.7 99.5 103.2 103.2 105.6 109.1 113.5 118.2 124.9 132.1 136.8 138.7 141.6 144.9 148.9 153.7 157.7 161.1 164.6 168.4 177.2 179.2 1	30.0 30.4 30.6 31.1 31.5 32.2 33.8 34.1 35.3 37.1 39.2 40.4 42.1 48.2 55.1 59.8 61.6 65.5 72.0 79.9 86.8 97.4 49.4 103.2 105.6 113.5 118.2 125.1 132.4 136.3 137.9 140.9 140.9 140.9 176.2	31.5 31.8 32.0 32.4 32.7 33.5 35.2 35.2 35.2 35.1 38.0 39.9 40.9 42.7 57.1 161.8 63.1 66.8 73.8 88.4 98.1 102.8 107.3 111.9 116.6 124.2 122.3 135.8 140.1 144.1 148.8 154.3 158.1 161.9 173.4 174.1 17	25.4 26.0 26.7 27.3 27.8 29.7 31.3 32.9 34.9 37.5 39.4 41.0 44.2 49.8 54.5 58.2 62.6 68.3 75.9 9.9 9.8 83.4 90.9 9.5 81.1 112.5 117.0 121.8 121.8 121.8 132.9 140.7 140.	30.8 32.0 34.0 38.4 41.2 45.8 50.7 7.1 10.9 114.2 118.5 123.0 128.5 152.8 156.8 160.4 160.9 160.5 160.	25.2 25.4 25.4 26.1 26.5 27.8 28.8 30.1 32.6 35.5 37.0 38.7 44.4 48.8 51.5 54.9 68.9 81.0 99.1 104.0 109.8 115.8 121.3 127.1 132.8 140.0 146.3 151.7 171.0 176.3 182.1 176.3 182.1 176.3 182.1 1	38.7 39.2 39.7 40.1 40.5 40.9 41.5 42.2 43.3 44.7 50.4 45.5 55.0 661.1 64.8 66.8 80.9 87.9 94.6 100.1 110.5 3 111.8 123.1 123.1 123.1 124.6 150.3 157.8 167.1 177.5 183.9 190.7 172.1 177.5 177.5 177.5 177.1 177.5 177.1 177.5 177.1 177.5 177.1 177.5 177.1 177.5 177.1 177.5 177.1 177.5 177.1 177.5 177.1 177.5 177.1 177.5 177.1 177.5 177.1 177.5 177.1 177.5 177.1 177.5 177.1 177.	102.5 107.3 113.2 119.4 124.8 131.1 137.4 144.8 150.4 155.5 160.5 165.8 171.3 176.8 181.9 187.8 192.9 188.7 206.3 214.7 219.9 224.9 238.2 246.235 243.345 244.020 244.602 246.602 246.602 246.602 246.602 246.602 246.602 246.602 246.602 246.602 246.602 246.602 246.602 246.602 246.602 246.602 246.	26.0 26.3 26.3 26.6 26.6 26.6 26.7 27.1 28.0 29.1 331.1 32.5 33.1 32.5 64.8 75.4 45.4 49.4 91.0 100.5 104.8 107.8 111.6 115.3 117.8	21.4 21.7 22.1 23.1 24.7 25.7 34.4 39.4 43.3 49.0 61.3 74.8 87.2 95.6 100.5 104.0 104.5 106.7 107.1 108.1 111.7 111.5 115.2 117.9 113.7 113.5 115.2 117.9 113.7 113.5 115.1 115.1 115.1 116.6 117.7 118.7 11	23.3 23.5 23.5 23.5 23.5 23.5 23.5 23.5
Oct	206.124	205.796	204.333	209.275	210.701	242.405	237.135	248.075		181.509	

Includes alcoholic beverages, not shown separately.
 Includes other items not shown separately.
 December 1982=100.

See next page for continuation of table.

Table B-61.—Consumer price indexes for selected expenditure classes, 1960–2008—Continued [For all urban consumers; 1982-84=100, except as noted]

			1			Medical care				
			Priva	ite transporta	tion		D. I.I.		Madiaal	
Year or month	Total		New ve	hicles	Used cars	Motor	Public trans- porta-	Total	Medical care com-	Medical care
		Total ²	Total ²	New cars	and trucks	fuel	tion		modities	services
1960	29.8 30.1 30.8 30.9 31.4 31.9 32.3 33.3 35.7 35.7 39.5 39.5 39.9 45.8 45.8 61.7 70.5 81.1 55.1 55.1 55.1 155	30.6 30.8 31.4 31.6 32.0 32.0 32.0 33.8 34.8 36.0 37.5 39.4 46.2 50.6 55.6 55.7 71.7 84.2 97.1 97.1 97.1 97.1 101.2 101.2 101.2 101.2 101.2 101.2 101.2 101.2 101.2 101.2 101.3 101.0 101.	51.6 51.6 51.4 51.1 50.9 49.8 48.9 49.3 50.7 51.5 53.1 55.3 54.8 54.8 54.8 63.0 67.0 67.0 67.0 67.0 67.0 67.0 67.0 67	51.5 51.5 51.5 51.3 51.0 50.7 49.7 51.5 50.7 51.5 50.7 51.5 57.9 66.9 70.4 57.9 66.9 70.4 99.9 99.1 119.2 119.2 119.2 121.0 125.3 128.4 131.5 13	25.0 26.0 26.0 27.0 29.9 30.9 31.2 33.0 33.1 35.2 36.7 45.8 60.2 62.3 76.9 88.8 89.0 120.4 117.6 118.1 123.2 133.9 141.7 156.5 155.8 155.7 155.8 155.7 155.8 155.7 155.8 155.7 155.8 155.7 155.8 155.7 155.8 155.7 155.8 155.7 155.8 155.7 155.8 155.7 155.8 155.7 155.8 155.7 155.9 133.3 139.4 140.9 135.257 134.57.7 134.57	24.4 24.1 24.3 24.2 24.1 25.1 25.6 26.4 26.8 27.6 27.6 27.6 27.6 28.1 28.1 28.1 28.1 28.1 28.1 29.2 45.1 47.0 49.7 51.8 70.1 97.9 98.0 98.5 100.2 98.5 100.2 98.5 100.2 98.5 100.2 98.5 100.2 98.5 100.2 100	22.2 23.2 24.0 24.3 24.7 25.2 26.1 27.7 30.9 30.9 30.9 30.9 30.9 30.9 30.9 30.9	22.3 22.9 23.5 24.1 24.6 26.3 28.2 29.9 31.9 34.0 36.1 37.3 36.1 37.3 36.1 37.3 36.1 37.3 36.1 37.3 36.1 37.3 36.1 37.3 36.1 37.0 37.0 37.0 37.0 37.0 37.0 37.0 37.0	46.9 46.3 45.6 45.2 45.1 45.0 45.4 45.4 47.5 49.2 56.5 60.2 60.2 60.0 75.4 47.3 3 56.5 60.0 75.4 47.5 49.2 107.5 107.5 112.8 131.0 109.2 107.5 112.8 131.0 139.9 150.8 188.1 199.2 107.5 128.2 129.4 129.2 129.4 129.2 129.4 129.4 129.2 129.4 129.2 129.4 1	19.5 20.2 20.9 20.9 21.5 22.0 22.7 23.9 26.0 27.9 30.2 32.3 34.7 35.9 35.6 36.2 67.2 74.8 92.6 100.7 106.7 113.2 121.9 138.3 148.9 162.7 177.1 190.5 202.9 213.4 224.2 239.1 246.8 255.1 266.0 278.8 239.9 366.0 369.302 359.75.3 363.66 369.302
Apr May June July Aug Sept Oct Sun Mar Apr May June Out Mar Apr May June May Aug Sept Oct Sept Oct Sept Oct Sept Oct Sept Oct Sept Oct May Aug Sept Oct May June Oct May Sept May Sept Oct May June Oct May Oct May Sept Oct May June Oct May Oct May Sept Oct May Oct M	185.231 189.961 189.064 187.690 184.480 184.532 190.677 189.984 190.839 190.520 195.189 198.608 205.262 211.787 212.806 206.739 203.861 192.709	181.478 186.376 185.175 183.619 180.586 180.919 186.839 186.134 186.978 186.571 191.067 194.574 201.133 207.257 208.038 201.779 199.153 187.976	136,963 136,292 135,204 135,204 136,250 136,652 136,652 136,668 134,572 135,727 135,727 135,727 134,669 134,517 133,404 132,399	136.400 135.787 135.479 135.009 134.888 134.637 135.169 136.003 136.003 136.303 136.303 135.444 135.329 135.144 135.330 135.481 134.887	134.363 134.481 135.067 136.024 137.138 137.142 136.950 136.616 136.943 137.225 136.93 137.248 137.225 136.93 137.248 137.225 136.800 135.840 135.840 135.840 132.916 129.733	242.944 265.781 260.655 252.909 238.194 239.048 262.282 258.132 260.523 259.242 278.739 294.291 322.124 347.418 349.731 323.822 315.078	227.567 228.251 233.389 235.767 230.194 230.694 232.725 233.788 233.408 234.334 245.724 242.929 244.164 251.600 264.681 270.002 268.487 261.313	348,225 349,087 349,510 351,643 352,961 357,641 357,641 357,641 363,396 363,184 363,396 363,366 363,366 363,477 365,036	288.349 288.568 290.257 291.164 292.161 293.201 293.201 295.355 296.130 297.308 296.951 294.886 295.177 295.003 295.461	366.070 367.127 367.758 370.008 371.461 372.432 374.750 376.250 376.940 382.196 382.872 384.505 384.685 385.361 385.361 385.361 385.361

Table B-62.—Consumer price indexes for commodities, services, and special groups, 1960–2008 [For all urban consumers; 1982-84=100, except as noted]

	Commodities				,amoro, 10	Special		- notouj		All items	
Year or month	AII items (CPI-U) ¹	All com- modities	Com- modities less food	Services	All items less food	All items less energy	All items less food and energy	All items less medical care	CPI-U-X1 (Dec. 1982 = 97.6) ²	CPI-U-RS (Dec. 1977 = 100) ³	C-CPI-U (Dec. 1999 = 100) ⁴
1960 1961 1962 1963 1964 1965 1966 1967 1968	29.6 29.9 30.2 30.6 31.0 31.5 32.4 33.4 34.8 36.7	33.6 33.8 34.1 34.4 35.2 36.1 36.8 38.1 39.9	36.0 36.1 36.3 36.6 36.9 37.2 37.7 38.6 40.0 41.7	24.1 24.5 25.0 25.5 26.0 26.6 27.6 28.8 30.3 32.4	29.7 30.0 30.3 30.7 31.1 31.6 32.3 33.4 34.9 36.8	30.4 30.7 31.1 31.5 32.0 32.5 33.5 34.4 35.9 38.0	30.6 31.0 31.4 31.8 32.3 32.7 33.5 34.7 36.3 38.4	30.2 30.5 30.8 31.1 31.5 32.0 33.0 33.7 35.1 37.0	32.2 32.5 32.8 33.3 33.7 34.2 35.2 36.2 37.7 39.4		
1970 1971 1972 1973 1974 1975 1976 1977 1978	38.8 40.5 41.8 44.4 49.3 53.8 56.9 60.6 65.2 72.6	41.7 43.2 44.5 47.8 53.5 58.2 60.7 64.2 68.8 76.6	43.4 45.1 46.1 47.7 52.8 57.6 60.5 63.8 67.5 75.3	35.0 37.0 38.4 40.1 43.8 48.0 52.0 56.0 60.8 67.5	39.0 40.8 42.0 43.7 48.0 52.5 56.0 59.6 63.9 71.2	40.3 42.0 43.4 46.1 50.6 55.1 58.2 61.9 66.7 73.4	40.8 42.7 44.0 45.6 49.4 53.9 57.4 61.0 65.5 71.9	39.2 40.8 42.1 44.8 49.8 54.3 57.2 60.8 65.4 72.9	41.3 43.1 44.4 47.2 51.9 56.2 59.4 63.2 67.5 74.0	104.4	
1980	82.4 90.9 96.5 99.6 103.9 107.6 109.6 113.6 118.3 124.0	86.0 93.2 97.0 99.8 103.2 105.4 104.4 107.7 111.5 116.7	85.7 93.1 96.9 100.0 103.1 105.2 101.7 104.3 107.7 112.0	77.9 88.1 96.0 99.4 104.6 109.9 115.4 120.2 125.7 131.9	81.5 90.4 96.3 99.7 104.0 108.0 109.8 113.6 118.3 123.7	81.9 90.1 96.1 99.6 104.3 108.4 112.6 117.2 122.3 128.1	80.8 89.2 95.8 99.6 104.6 109.1 113.5 118.2 123.4 129.0	82.8 91.4 96.8 99.6 103.7 107.2 108.8 112.6 117.0	82.3 90.1 95.6 99.6 103.9 107.6 113.6 118.3 124.0	127.1 139.2 147.6 153.9 160.2 165.7 168.7 174.4 180.8 188.6	
1990 1991 1992 1993 1994 1995 1996 1997 1998	130.7 136.2 140.3 144.5 148.2 152.4 156.9 160.5 163.0	122.8 126.6 129.1 131.5 133.8 136.4 139.9 141.8 141.9	117.4 121.3 124.2 126.3 127.9 129.8 132.6 133.4 132.0 134.0	139.2 146.3 152.0 157.9 163.1 168.7 174.1 179.4 184.2 188.8	130.3 136.1 140.8 145.1 149.0 153.1 157.5 161.1 163.4 167.0	134.7 140.9 145.4 150.0 154.1 158.7 163.1 167.1 170.9 174.4	135.5 142.1 147.3 152.2 156.5 161.2 165.6 169.5 173.4 177.0	128.8 133.8 137.5 141.2 144.7 148.6 152.8 156.3 158.6 162.0	130.7 136.2 140.3 144.5 148.2 152.4 156.9 160.5 163.0 166.6	198.0 205.1 210.3 215.5 220.1 225.4 231.4 236.4 239.7 244.7	
2000	172.2 177.1 179.9 184.0 188.9 195.3 201.6 207.342	149.2 150.7 149.7 151.2 154.7 160.2 164.0 167.509	139.2 138.9 136.0 136.5 138.8 144.5 148.0 149.720	195.3 203.4 209.8 216.5 222.8 230.1 238.9 246.848	173.0 177.8 180.5 184.7 189.4 196.0 202.7 208.098	178.6 183.5 187.7 190.6 194.4 198.7 203.7 208.925	181.3 186.1 190.5 193.2 196.6 200.9 205.9 210.729	167.3 171.9 174.3 178.1 182.7 188.7 194.7 200.080	172.2 177.1 179.9 184.0 188.9 195.3 201.6 207.342	252.9 260.0 264.2 270.1 277.4 286.7 296.1 304.5	102.0 104.3 105.6 107.8 110.5 113.7 117.0 119.948
2007: Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec	202.416 203.499 205.352 206.686 207.949 208.352 208.299 207.917 208.490 208.936 210.177 210.036	161.978 162.890 165.710 167.777 169.767 168.921 167.938 166.955 167.952 168.664 171.043 170.511	143.775 144.558 148.240 150.894 153.228 151.825 150.225 148.591 149.541 150.180 153.234 152.344	242.540 243.793 244.671 245.265 245.793 247.450 248.331 248.555 248.700 248.878 248.974 249.225	203.035 204.101 206.195 207.680 208.991 209.353 209.179 208.607 209.100 209.478 210.846 210.610	205.993 207.106 207.850 208.243 208.400 208.636 208.980 209.399 210.000 210.714 210.888 210.890	208.009 209.112 209.923 210.311 210.316 210.474 210.756 211.111 211.628 212.318 212.435 212.356	195.295 196.298 198.179 199.512 200.779 201.178 201.042 200.598 201.159 201.544 202.770 202.600	202.416 203.499 205.352 206.686 207.949 208.352 208.299 207.917 208.490 208.936 210.177 210.036	297.2 298.8 301.6 303.5 305.4 306.0 305.9 305.3 306.2 306.8 308.6 308.4	117.310 117.897 118.978 119.712 120.290 120.478 120.384 120.198 120.538 120.823 121.443
2008: Jan Feb Mar Apr May June July Aug Sept Oct	211.080 211.693 213.528 214.823 216.632 218.815 219.964 219.086 218.783 216.573	171.179 171.530 173.884 175.838 178.341 180.534 181.087 179.148 179.117 175.257	152.531 152.799 155.881 157.870 160.880 163.385 163.364 160.341 159.825 154.250	250.648 251.527 252.817 253.426 254.509 256.668 258.422 258.638 258.059 257.559	211.512 212.136 214.236 215.462 217.411 219.757 220.758 219.552 218.991 216.250	211.846 212.545 213.420 213.851 214.101 214.600 215.335 215.873 216.397 216.695	213.138 213.866 214.866 215.059 215.180 215.553 216.045 216.476 216.862 217.023	203.569 204.136 205.992 207.317 209.170 211.408 212.576 211.653 211.321 209.021	211.080 211.693 213.528 214.823 216.632 218.815 219.964 219.086 218.783 216.573	310.0 310.9 313.6 315.5 318.1 321.3 323.0 321.7 321.3 318.0	121.895 122.251 123.204 123.845 124.645 125.582 126.116 125.843 125.774 124.784

¹ Consumer price index, all urban consumers.
2 CPI-U-X1 reflects a rental equivalence approach to homeowners' costs for the CPI-U for years prior to 1983, the first year for which the official index incorporates such a measure. CPI-U-X1 is rebased to the December 1982 value of the CPI-U fl982–844–100) and is identical with CPI-U data from December 1982 forward. Data prior to 1967 estimated by moving the series at the same rate as the CPI-U for each year.
3 Consumer price index research series (CPI-U-RS) using current methods introduced in June 1999. Data for 2008 are preliminary. All data are subject to revision annually.
4 Chained recoverse ratios index (CRUIN) and the control of the c

⁴ Chained consumer price index (C-CPI-U) introduced in August 2002. Data for 2007 and 2008 are subject to revision Source: Department of Labor (Bureau of Labor Statistics).

Table B-63.—Changes in special consumer price indexes, 1960-2008

[For all urban consumers; percent change]

			[ror air arbo	an consume	o, poroone c	, idingoj				
	All i	tems	All iter fo	ns less od		ms less ergy	All iter food and	ns less d energy		ms less al care
Year or month	Dec. to Dec. ¹	Year to year	Dec. to Dec. ¹	Year to year	Dec. to Dec. ¹	Year to year	Dec. to Dec. ¹	Year to year	Dec. to Dec. ¹	Year to year
1960 1961 1962 1962 1963 1964 1965 1966 1967 1966 1967 1970 1971 1972 1972 1974 1975 1977 1977 1977 1978 1979 1980 1988 1989 1989 1989 1990 1991 1988 1990 1991 1991	1.4, 7, 1.3, 1.6, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0, 1.0	1.7 1.0 1.0 1.3 1.3 1.6 2.9 3.1 2.5 5.5 5.7 4.4 3.2 2.6 5.5 5.7 6.5 7.6 6.5 7.6 6.5 7.6 6.5 7.6 6.5 7.6 6.5 7.6 6.2 3.2 4.3 3.3 3.6 4.1 4.1 4.2 3.0 2.6 4.2 3.0 3.0 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1	1.0 1.3 1.0 1.6 1.0 1.6 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	1.7 1.0 1.0 1.3 1.3 1.6 6.2 2.2 3.4 4.5 5.4 4.6 2.9 4.0 8.8 9.4 6.7 6.4 7.2 7.2 11.4 14.5 8.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 4.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3	1.3 1.7 1.3 1.9 1.3 3.4 4.5 5.4 3.5 8.6 5.4 3.5 8.6 7.7 9.1 11.1 11.7 8.5 8.7 9.7 9.1 11.1 11.7 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5	1.7 1.0 1.3 1.3 1.6 1.6 1.6 1.6 3.1 2.7 4.4 4.2 3.3 6.2 9.8 8.9 6.4 7.8 7.3 9.8 10.0 6.7 3.6 7.3 9.8 9.9 10.0 11.6 6.7 3.6 4.4 4.4 4.4 4.7 4.7 4.7 4.7 4.7 4.7 4.7	1.0 1.3 1.3 1.6 1.2 1.5 3.3 3.8 6.2 6.6 6.1 3.0 7 11.1 6.7 6.5 8.5 8.5 11.3 12.2 9.5 11.3 4.8 4.8 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7	1.3 1.3 1.3 1.3 1.6 1.6 4.6 5.8 6.3 7.4 4.0 4.0 4.0 4.0 4.0 4.1 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	1.3 3.3 1.3 1.6 1.0 1.9 3.4 2.7 6.1 5.2 3.4 9.1 11.2 6.7 6.7 9.1 11.3 4.2 4.5 5.9 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7	1.3 1.0 1.0 1.0 1.3 1.1 2.1 2.1 2.5 4.1 3.2 5.4 4.1 3.2 9.0 6.3 7.6 6.3 7.6 6.3 1.5 9.0 9.0 1.5 9.0 9.0 1.5 9.0 9.0 1.5 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0
2007	4.1	2.8	4.0	2.7 Porcor	2.8	m preceding r	2.4	2.3	4.0	2.8
	Unad- justed	Seasonally adjusted	Unad- justed	Seasonally adjusted	Unad- justed	Seasonally adjusted	Unad- justed	Seasonally adjusted	Unad- justed	Seasonally adjusted
2007: Jan	0.3 9.9 6.6 6.2 2.2 6.1 5.5 3.3 9.6 6.6 1.0 5.4 -1.1	0.1 .3 .5 .5 .5 .5 .5 .3 .3 .2 .0 .0 .4 .4 .4 .0 .3 .2 .6 .6 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	0.2 .5 1.0 .7 .6 .2 -1 -3 .2 .2 .2 .7 -1	0.1 2.2 5.5 3.5.5 2.2 2.0 0.3 3.3 1.0 4 4 1.1 7,7 1.1.1 8.8 3 1	0.4 .5 .2 .1 .1 .2 .3 .3 .3 .1	0.3 3.1 2.2 3.2 2.3 3.2 3.2 3.2 4.1 2.2 2.4 4.4 4.3 3.2 0.0	0.3 .5 .4 .2 .0 .1 .1 .2 .2 .3 .1 .1 .1 .2 .2 .3 .1 .1 .1 .1 .2 .2 .3 .3 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	0.2 2.1 2.2 2.2 2.2 2.2 2.2 2.2 2.3 3.3 3.3 2.1	0.3 55 1.0 7 7 2 2 -1.1 -2 3 3 2 6 -1 5 5 5 9 9 1.1 6 -2 -2 -1 -2 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	0.1 .3 .5 .5 .3 .3 .5 .5 .0 .0 .0 .4 .4 .2 .2 .7 .1 .1 .1 .1 .1 .1

¹ Changes from December to December are based on unadjusted indexes.

Table B-64.—Changes in consumer price indexes for commodities and services, 1929–2007 [For all urban consumers: percent change]

	All it	ems		Comm	odities			Serv	rices		Medica	I care ²	Ene	rgy ³
Year	Dec.	Year	To	tal	Fo	od	To	tal	Medica	al care	Dec.	Year	Dec.	Year
.00.	to Dec. 1	to year	Dec. to Dec. 1	Year to year	Dec. to Dec. ¹	Year to year	Dec. to Dec. ¹	Year to year	Dec. to Dec. ¹	Year to year	to Dec. 1	to year	to Dec. 1	to year
1929	0.6	0.0			2.5	1.2								
1933	.8 .0	-5.1 -1.4	-0.7	-2.0	6.9 -2.5	-2.8 -2.5	0.0	0.0	1.2	1.2	1.0	0.0		
1940	.0	-1.4	1.4	-2.0 .7		-2.5 1.7	.8	.8	l n	.0	1.0	1.0		
1941	9.9 9.0	5.0 10.9	13.3 12.9	6.7 14.5	2.5 15.7 17.9	9.2 17.6	2.4 2.3	.8 3.1	1.2 3.5	.0 3.5	1.0	.0 2.9		
1942	3.0	6.1	4.2	9.3	3.0	11.0	2.3 2.3 2.2	2.3	5.6	4.5	4.6	47		
1944	3.0 2.3 2.2	1.7 2.3	2.0 2.9	1.0 3.0	.0 3.5	-1.2 2.4	2.2	2.2 1.5	3.2 3.1	4.3 3.1	2.6 2.6	3.6 2.6		
1946 1947	18.1	8.3 14.4	24.8 10.3	10.6 20.5	31.3 11.3	14.5 21.7	3.6 5.6	1.4 4.3	9.0 6.4	5.1 8.7	8.3 6.9	5.0 8.0		
1948	8.8 3.0	8.1	1.7	7.2	8	8.3	5.9	6.1	6.9	7.1	5.8	6.7		
1949 1950	-2.1 5.9	-1.2 1.3	-4.1 7.8	-2.7 .7	-3.9 9.8	-4.2 1.6	3.7 3.6	5.1 3.0	1.6 4.0	3.3 2.4	1.4	2.8		
1951	6.0	7.9 1.9	5.9 9	9.0 1.3	7.1 -1.0	11.0	5.2	5.3	5.3	4.7 6.7	5.8	5.3 5.0		
1953	.8 .7	.8	3	3	-1.1	1.8 -1.4	4.4 4.2	4.5 4.3	5.8 3.4	3.5	4.3 3.5	3.6		
1954 1955	7 .4	.7 4	-1.6 3	9 9	-1.8 7	4 -1.4	2.0 2.0	3.1 2.0	2.6 3.2	3.4 2.6	3.5 2.3 3.3	2.9 2.2		
1956 1957	3.0 2.9	1.5 3.3	2.6	1.0 3.2	2.9 2.8	.7 3.2	3.4 4.2	2.5 4.3	3.8 4.8	3.8 4.3	3.2 4.7	3.8 4.2		
1958	1.8 1.7	2.8	2.8 1.2 .6	2.1	2.4 -1.0	4.5 -1.7	2.7 3.9	3.7 3.1	4.6 4.9	5.3 4.5	4.5	4.6 4.4	-0.9 4.7	0.0
1959 1960	1.4	.7 1.7	1.2	.9	3.1	1.0	2.5	3.4	3.7	4.3	3.2	3.7	1.3	2.3
1961 1962	.7 1.3	1.0 1.0	.0	.6 .9	7 1.3	1.3 .7	2.1 1.6	1.7 2.0	3.5 2.9	3.6 3.5	3.1 2.2	2.7 2.6	-1.3 2.2	.4
1963	1.6 1.0	1.3	1.5	.9	2.0 1.3	1.6	2.4	2.0 2.0	2.8 2.3	2.9	2.5	2.6 2.1	9 .0	.4 .0 4
1965	1.9	1.6	.9 1.4	1.2 1.1	3.5	1.3 2.2	1.6 2.7	2.3	3.6	2.3	2.8	2.4	1.8	1.8
1966 1967	3.5 3.0	2.9 3.1	2.5 2.5	2.6 1.9	4.0 1.2	5.0 .9	4.8 4.3	3.8 4.3	8.3 8.0	5.3 8.8	6.7 6.3	4.4 7.2	1.7 1.7	1.7 2.1
1968 1969	4.7 6.2	4.2 5.5	4.0 5.4	3.5 4.7	4.4 7.0	3.5 5.1	5.8 7.7	5.2 6.9	7.1 7.3	7.3 8.2	6.2 6.2	6.0 6.7	1.7	1.7 2.5
1970	5.6	5.7	3.9	4.5	2.3	5.7	8.1	8.0	8.1	7.0	7.4	6.6	4.8	2.8
1971 1972	3.3 3.4	4.4 3.2	2.8 3.4	3.6 3.0	4.3 4.6	3.1 4.2	4.1 3.4	5.7 3.8	5.4 3.7	7.4 3.5	4.6 3.3	6.2 3.3	3.1 2.6	3.9 2.6
1973 1974	8.7 12.3	6.2 11.0	10.4 12.8	7.4 11.9	20.3 12.0	14.5 14.3	6.2 11.4	4.4 9.2	6.0 13.2	4.5 10.4	5.3 12.6	4.0 9.3	17.0 21.6	8.1 29.6
1975	6.9	9.1	6.2	8.8	6.6	8.5	8.2	9.6	10.3	12.6	9.8	12.0	11.4	10.5
1976 1977	4.9 6.7	5.8 6.5	3.3 6.1	4.3 5.8	.5 8.1	3.0 6.3	7.2 8.0	8.3 7.7	10.8 9.0	10.1 9.9	10.0 8.9	9.5 9.6	7.1	7.1 9.5
1978 1979	9.0 13.3	7.6 11.3	8.8 13.0	7.2 11.3	11.8 10.2	9.9 11.0	9.3 13.6	8.6 11.0	9.3 10.5	8.5 9.8	8.8 10.1	8.4 9.2	7.9 37.5	6.3 25.1
1980	12.5 8.9	13.5	11.0	12.3	10.2	8.6	14.2	15.4	10.1	11.3	9.9	11.0	18.0	30.9
1981 1982	3.8	10.3 6.2 3.2	6.0 3.6	8.4 4.1	4.3 3.1	7.8 4.1	13.0 4.3	13.1 9.0	12.6 11.2 6.2	10.7 11.8	12.5 11.0	10.7 11.6	11.9 1.3	13.6 1.5 .7
1983 1984	3.8 3.9	3.2 4.3	2.9 2.7 2.5	2.9 3.4	2.7 3.8	2.1 3.8	4.8 5.4	3.5 5.2	6.2 5.8	8.7 6.0	6.4	8.8 6.2	5 .2	1.0
1985 1986	3.8 1.1	3.6 1.9	2.5 -2.0	2.1 9	2.6 3.8	2.3 3.2	5.1 4.5	5.1 5.0	6.8 7.9	6.1 7.7	6.8 7.7	6.3 7.5	1.8 -19.7	.7 -13.2
1987	4.4 4.4	3.6 4.1	4.6 3.8	3.2 3.5	3.5 5.2	4.1 4.1	4.3 4.8	4.2 4.6	5.6 6.9	6.6 6.4	5.8 6.9	6.6 6.5	8.2	.5
1989	4.6	4.8	4.1	4.7	5.6	5.8	5.1	4.9	8.6	7.7	8.5	7.7	5.1	5.6
1990 1991	6.1 3.1	5.4 4.2	6.6 1.2	5.2 3.1	5.3 1.9	5.8 2.9	5.7 4.6	5.5 5.1	9.9 8.0	9.3 8.9	9.6 7.9	9.0 8.7	18.1 -7.4	8.3 4
1992	3.1 2.9 2.7	3.0 3.0	2.0	3.1 2.0 1.9	1.5 2.9	1.2 2.2	3.6 3.8	3.9 3.9	7.0 5.9	7.6	6.6 5.4	7.4 5.9	2.0	.4 .5 1.2
1994	2.7	2.6	1.5 2.3	1.7	2.9	2.4	2.9	3.3	5.4	6.5 5.2	4.9	4.8	2.2	1.2
1995 1996	2.5 3.3	2.8 3.0	1.4	1.9 2.6	2.1 4.3	2.8 3.3	3.5 3.3	3.4 3.2	4.4 3.2	5.1 3.7	3.9 3.0	4.5 3.5	-1.3 8.6	.4 .6 4.7
1997 1998	1.7 1.6	2.3	.2	1.4	1.5 2.3	2.6 2.2	2.8 2.6	3.0 2.7	2.9 3.2	2.9	2.8 3.4	2.8 3.2	-3.4 -8.8	1.3 -7.7
1999	2.7	2.2	2.7	1.8	1.9	2.1	2.6	2.5	3.6	3.4	3.7	3.5	13.4	3.6
2000 2001	3.4 1.6	3.4 2.8	2.7 -1.4	3.3 1.0	2.8 2.8	2.3 3.2	3.9 3.7	3.4 4.1	4.6 4.8	4.3 4.8	4.2 4.7	4.1 4.6	14.2 -13.0	16.9 3.8
2002 2003	2.4 1.9	1.6 2.3	1.2	7 1.0	1.5 3.6	1.8 2.2	3.2 2.8	3.1 3.2	5.6 4.2	5.1 4.5	5.0	4.7 4.0	10.7	-5.9 12.2
2004	3.3	2.7	3.6	2.3	2.7	3.4	3.1	2.9	4.9	5.0	4.2	4.4	16.6	10.9
2005 2006	3.4 2.5	3.4 3.2	2.7 1.3	3.6 2.4	2.3 2.1	2.4 2.4	3.8 3.4	3.3 3.8	4.5 4.1	4.8 4.1	4.3 3.6	4.2 4.0	17.1	17.0 11.2
2007	4.1	2.8	5.2	2.1	4.9	4.0	3.3	3.3	5.9	5.3	5.2	4.4	17.4	5.5

Changes from December to December are based on unadjusted indexes.
 Commodities and services.
 Household energy—gas (piped), electricity, fuel oil, etc.—and motor fuel. Motor oil, coolant, etc. also included through 1982.

Table B-65.—Producer price indexes by stage of processing, 1959-2008 [1982=100]

					Finishe	d goods				Ι
Year or month	Total	Ci	onsumer food	S		Finished good	s excluding co	onsumer foods		Total finished
Tour or month	finished goods	Total	Crude	Processed	Total	С	onsumer good	ls	Capital	consumer
	goods	iotai	Gruue	110063360	iotai	Total	Durable	Nondurable	equipment	goods
1959	33.1	34.8	37.3	34.7		33.3	43.9	28.2	32.7	33.
1960	33.4	35.5	39.8	35.2		33.5	43.8	28.4	32.8	33.
1961 1962	33.4 33.5	35.4 35.7	38.0 38.4	35.3 35.6		33.4 33.4	43.6 43.4	28.4 28.4	32.9 33.0	33. 33.
1963 1964 1965	33.4	35.3	37.8	35.2		33.4	43.1	28.5	33.1	l 33.
1964	33.5 34.1	35.4 36.8	38.9 39.0	35.2 36.8		33.3 33.6	43.3 43.2	28.4	33.4 33.8	33. 34.
1966	35.2	39.2	41.5	39.2		34.1	43.4	28.8 29.3	34.6	35.
1967 I	35.6	38.5	39.6	38.8	35.0	34.7	44.1	30.0	35.8	35.
1968 1969	36.6 38.0	40.0 42.4	42.5 45.9	40.0 42.3	35.9 36.9	35.5 36.3	45.1 45.9	30.6 31.5	37.0 38.3	36. 37.
1970	39.3	43.8	46.0	43.9	38.2	37.4	47.2	32.5	40.1	39.
1971	40.5	44.5	45.8	44.7	39.6	38.7	48.9	33.5	41.7	40.
1971 1972 1973	41.8	46.9	48.0	47.2	40.4	39.4	50.0	34.1	42.8	41. 46.
19/3	45.6 52.6	56.5 64.4	63.6 71.6	55.8 63.9	42.0 48.8	41.2 48.2	50.9 55.5	36.1 44.0	44.2 50.5	46. 53.
1975	58.2	69.8	71.0	70.3	54.7	53.2	61.0	48.9	58.2	58.
1974 1975 1976	60.8	69.6	76.7	69.0	58.1	56.5	63.7	52.4	62.1	60.
1977	64.7 69.8	73.3 79.9	79.5 85.8	72.7 79.4	62.2 66.7	60.6 64.9	67.4 73.6	56.8 60.0	66.1 71.3	64. 69.
1979	77.6	87.3	92.3	86.8	74.6	73.5	80.8	69.3	77.5	77.
1980	88.0	92.4	93.9	92.3	86.7	87.1	91.0	85.1	85.8	88.
1981	96.1	97.8	104.4	97.2	95.6	96.1	96.4	95.8	94.6	96.
1982	100.0 101.6	100.0 101.0	100.0	100.0	100.0 101.8	100.0	100.0	100.0	100.0 102.8	100. 101.
1983 1984	101.6	105.4	102.4 111.4	100.9 104.9	103.2	101.2 102.2	102.8 104.5	100.5 101.1	102.6	101.
1985	104.7	104.6	102.9	104.8	104.6	103.3	106.5	101.7	107.5	103.
198b I	103.2	107.3	105.6 107.1	107.4	101.9 104.0	98.5 100.7	108.9 111.5	93.3 94.9	109.7	101.
1987 1988	105.4 108.0	109.5 112.6	107.1	109.6 112.7	104.0	100.7	111.5	94.9	111.7 114.3	103. 106.
1989	113.6	118.7	119.6	118.6	111.8	108.9	117.6	103.8	118.8	112.
1990	119.2	124.4	123.0	124.4	117.4	115.3	120.4	111.5	122.9	118.
1991 1	121.7 123.2	124.1 123.3	119.3 107.6	124.4 124.4	120.9 123.1	118.7 120.8	123.9 125.7	115.0 117.3	126.7 129.1	120. 121.
1992 1993	124.7	125.7	114.4	126.5	123.1	120.0	128.0	117.6	131.4	123.
1994	125.5	126.8	111.3	127.9	125.1	121.6	130.9	116.2	134.1	123.
1995 [127.9 131.3	129.0 133.6	118.8 129.2	129.8 133.8	127.5 130.5	124.0 127.6	132.7 134.2	118.8 123.3	136.7 138.3	125. 129.
1996 1997	131.8	134.5	129.2	135.1	130.5	127.0	133.7	123.3	138.2	130.
1998	130.7 133.0	134.3	127.2 125.5	134.8	129.5	126.4	132.9	122.2	137.6	128.
1999		135.1		135.9	132.3	130.5	133.0	127.9	137.6	132.
2000	138.0	137.2	123.5	138.3	138.1	138.4	133.9	138.7	138.8	138.
2001 2002	140.7 138.9	141.3 140.1	127.7 128.5	142.4 141.0	140.4 138.3	141.4 138.8	134.0 133.0	142.8 139.8	139.7 139.1	141. 139.
2003	143.3	145.9	130.0	147.2	142.4	144.7	133.1	148.4	139.5	145. 151.
2004 I	148.5	152.7	138.2	153.9	147.2	150.9	135.0	156.6	141.4	151.
2005 2006	155.7 160.4	155.7 156.7	140.2 151.3	156.9 157.1	155.5 161.0	161.9 169.2	136.6 136.9	172.0 182.6	144.6 146.9	160. 166.
2007	166.6	167.0	170.2	166.7	166.2	175.6	138.3	191.7	149.5	173.
2007: Jan	160.1	161.1	164.2	160.8	159.6	166.0	138.3	177.1	148.9	164.
Feb	161.8	163.9	178.4	162.4	161.0	167.9	138.4	180.0	149.2	167.
Mar Apr	164.1 165.9	166.3 166.8	187.4 182.1	164.2 165.3	163.2 165.3	171.2 174.5	138.2 137.7	185.2 190.4	149.1 149.1	170. 172.
May	167.5 167.2	166.8	161.7	167.4	167.4	177.6	137.7 137.7	195.0	149.1	174.
June l	167.2	166.3	147.5	168.3	167.1	177.2	137.7	194.5	149.0	174.
July Aug	168.5 166.1	166.4 166.3	152.9 146.5	167.9 168.4	168.8 165.8	179.7 175.3	137.6 137.2	198.1 191.8	149.1 149.0	176. 173.
Sept	167.4	168.4	162.5	169.1	166.9	177.0	136.7	194.6	148.9	174.
Oct	168.6	169.7	181.9	168.6	168.1	177.9	139.8	194.5	150.6	175.
Nov Dec	171.4 170.4	169.5 172.2	178.0 198.7	168.8 169.6	171.6 169.6	182.9 180.1	140.2 139.5	201.5 197.9	151.0 150.7	179. 178.
2008: Jan	170.4	174.5	199.3	172.1	171.0	181.9	140.1	200.3	151.4	180.
Feb	172.3	173.6	180.6	173.0	171.7	182.7	140.2	201.4	151.8	180.
Mar	175.1	176.0	194.3	174.2	174.6	187.1	139.9	208.2	151.8	184
Apr May	176.5 179.8	175.5 177.6	177.6 172.1	175.3 178.2	176.4 180.1	189.6 195.0	140.5 140.3	211.7 220.0	152.4 152.7	185. 190.
June _.	182.4	180.0	183.0	179.7	182.8	199.0	139.7	226.4	152.7	193.
July 1	185.0	180.9	164.1	182.6	185.9	203.2	140.3	232.5	153.6	197.
Aug ¹	182.1 182.0	181.4 182.0	158.2 168.7	183.7 183.3	182.0 181.7	197.4 196.7	139.9 140.1	223.8 222.6	153.7 154.3	193. 192.
Oct 1	177.3	182.0	169.5	183.3	176.0	186.8	140.1	205.5	156.8	185.4

¹ Data have been revised through June 2008; data are subject to revision four months after date of original publication. See next page for continuation of table.

Table B-65.—Producer price indexes by stage of processing, 1959-2008—Continued [1982=100]

			Inte	rmediate r	naterials, s	upplies, ar	nd compone	ents		Cr	ude materia	als for furth	ner process	ing
V					Materi compo		Proc- essed				Food-		Other	
Year or	month	Total	Foods and feeds ²	Other	For manu- factur- ing	For con- struc- tion	fuels and lubri- cants	Con- tainers	Supplies	Total	stuffs and feed- stuffs	Total	Fuel	Other
2007 2007: Jan Feb		30.8 30.8 30.6 30.6 30.7 30.8 31.2 32.0 32.2 33.0 34.1 35.4 36.8 38.2 42.4 42.4 52.5 58.0 60.9 64.9 60.9 60.9 61.0 103.1 101.5 107.1 114.5 114.4 114.5 114.5 114.7 116.2 118.5 124.9 125.7 125.6 123.0 123.0 123.0 129.2 129.7 129.	41.8 41.5 42.9 45.6 46.7 49.5 70.3 881.6 77.4 79.6 84.8 94.5 100.0 103.6 105.7 96.2 99.2 109.5 113.8 111.1 111.7 114.8 128.1 114.8 125.4 111.1 115.5 125.9 137.1 115.5 125.9 137.1 133.8 133.8 133.8 135.1 147.2 149.8	30.5 30.7 30.3 30.2 30.1 30.3 31.7 32.5 33.6 40.6 60.0 64.1 68.6 60.0 64.1 68.6 60.0 64.1 60.0 64.1 100.0 100.0 103.0 10	33.3 33.3 32.9 32.7 33.7 33.1 33.6 34.3 34.5 35.3 36.5 38.0 38.9 40.4 44.1 56.0 61.7 64.0 67.4 72.0 80.9 91.7 91.7 100.0 101.2 105.3 113.2 118.1 118.7 118.9 129.7 130.4 128.3 129.7 130.4 129.7 137.4 129.7 137.4 129.7 137.4 129.7 137.4 156.0 155.9 156.5 156.3 156.1 157.3 157.6 157.7 157.7 157.7 157.7 157.7 157.7 157.7	32.9 32.7 32.2 32.1 32.2 32.3 32.8 33.6 34.0 35.7 37.7 38.3 40.8 43.0 60.1 64.1 69.3 76.5 84.2 91.3 91.9 100.0 102.8 107.3 108.1 109.8 116.1 122.9 124.5 132.0 135.6 146.1 146.5 146.8 14	16.2 16.6 16.8 16.7 16.6 16.8 16.9 16.5 16.6 16.6 16.2 20.1 22.2 23.6 39.4 42.3 34.7 7 49.9 61.6 85.0 100.6 95.4 42.3 77.7 73.3 77.2 76.4 85.9 85.3 84.7 83.1 12.6 88.3 112.6 124.3 152.0 162.8 173.9 152.0 156.6 162.8 173.9 152.0 156.6 162.8 173.9 152.0 156.6 164.6	33.0 33.4 33.2 33.6 33.5 34.5 35.0 35.9 37.2 39.0 40.8 42.7 45.2 53.3 60.0 63.1 65.9 71.0 100.4 105.9 109.0 110.3 114.5 125.4 127.7 128.1 127.7 128.1 127.7 128.1 127.7 128.1 127.7 128.1 127.7 128.1 127.7 128.1 127.7 128.1 127.7 128.1 127.7 128.1 127.7 128.1 127.7 128.1 129.1	33.5 33.3 33.7 34.5 35.0 34.7 35.0 36.5 36.8 37.1 37.8 40.8 61.8 65.8 69.3 72.9 80.9 96.9 100.0 101.8 104.4 105.6 107.7 113.7 113.7 113.7 121.4 121.4 121.4 121.4 121.4 121.4 121.4 121.7 125.0 127.0 138.9	31.1 30.4 30.2 30.5 29.9 31.1 33.1 31.3 31.8 33.9 35.2 36.0 39.9 54.5 61.6 63.4 65.5 73.4 61.6 63.4 65.5 73.4 61.6 63.4 65.5 73.4 61.6 63.4 61.6 63.4 61.6 63.4 65.5 73.4 61.6 63.4 61.6 63.4 61.6 63.4 61.6 63.4 65.5 73.4 61.6 63.4 65.5 73.4 61.6 63.4 65.5 73.4 61.6 63.4 65.5 73.4 61.6 63.4 65.5 73.4 61.6 63.4 65.5 73.4 61.6 63.4 65.5 73.4 60.6 63.4 60.6 63.4 60.6 63.4 65.5 73.4 60.6 60.6 60.6	38.8 38.4 37.9 38.6 39.2 40.3 40.9 44.1 45.2 46.1 51.5 72.6 77.6 77.4 76.8 77.5 87.3 100.0 101.8 104.6 103.9 96.2 105.1 111.2 96.2 105.1 105.1 105.1 105.1 105.8 121.5 105.8 121.5 105.8 121.5 122.7 103.9 98.7 103.9 98.7 103.9 104.0 105.8 121.5 122.7 128.8 142.0	21.1 21.6 22.5 23.8 24.7 27.0 34.3 44.1 43.7 48.2 51.7 57.5 69.6 81.6 100.0 100.7 100.7 100.7 100.7 100.7 100.7 100.7 100.9 10	10.4 10.5 10.4 10.5 10.6 10.9 11.3 11.5 12.0 13.8 18.6 34.5 12.0 48.2 57.3 69.4 84.8 30.6 34.5 100.0 105.1 1	28.1 26.9 27.2 27.1 26.7 27.2 27.7 28.3 26.5 27.1 28.4 29.1 29.4 32.3 42.9 56.3 61.9 91.8 109.8 81.0 94.3 75.0 94.3 94.3 97.5 94.2 94.1 97.0 94.1 97.0 94.1 97.0 94.1 97.0 94.1 97.0 94.1 97.0 97.0 97.0 97.0 97.0 97.0 97.0 97.0
Apr Ma Jun Aug Sep Oct Nov Dec 2008: Jan Feb Ma Apr Ma	yy	166.6 169.1 177.1 172.0 173.6 171.5 172.2 176.2 176.2 175.7 177.8 179.1 184.5 187.3 192.8 197.2 200.2 200.2 189.8	149.8 151.0 151.6 154.5 155.9 156.3 158.2 159.6 161.4 164.6 175.0 180.5 180.5 184.6 194.6 194.6	170.0 172.1 172.9 174.5 172.9 172.9 172.9 177.0 176.3 178.2 179.4 184.7 187.8 203.0 200.5 199.1	168.7 160.6 162.8 163.6 164.5 163.3 164.4 166.1 166.3 168.4 170.1 173.1 175.5 182.4 186.6 190.6	191.2 192.1 192.8 193.1 193.5 193.5 193.2 193.2 193.2 193.2 193.4 194.4 195.7 197.3 200.2 203.3 206.5 209.9 213.1 214.4 212.8	164.6 171.6 171.6 178.1 183.0 175.3 178.4 175.5 189.7 186.3 188.6 189.0 206.1 211.8 227.3 238.4 249.6 2242.2 223.2	178.1 179.2 179.6 179.7 180.2 180.5 181.0 182.3 183.2 183.4 185.1 185.7 187.0 187.0 187.0 191.6	160.4 160.7 160.8 161.4 161.9 162.0 163.9 164.6 166.8 168.1 170.0 171.3 173.1 174.6 177.7 179.4 179.9	202.1 204.2 208.0 209.7 210.3 202.8 204.6 211.8 225.6 229.0 235.5 245.5 262.1 274.6 293.1 301.2 317.9 280.0 257.8 208.8	142.0 143.7 148.1 150.0 147.8 151.9 150.0 152.9 158.5 162.6 165.4 169.2 178.1 179.3 170.4 170.4 170.4 170.4 170.4 170.4 170.4	241.5 243.9 248.6 249.6 237.4 252.0 274.1 275.4 283.8 299.9 327.7 352.4 393.0 423.3 360.5 320.8 248.2	255.8 248.3 258.1 260.4 236.9 211.7 193.1 217.4 243.2 250.7 253.9 283.5 306.9 329.1 369.2 378.5 426.6 335.1 287.1 215.9	218.U 225.7 224.2 227.6 243.6 242.2 255.1 261.9 280.1 277.1 288.0 295.6 349.6 349.6 372.4 383.3 401.8 358.9 326.0 256.1

² Intermediate materials for food manufacturing and feeds.

Table B-66.—Producer price indexes by stage of processing, special groups, 1974–2008 [1982=100]

			Finis	shed ods			Interm		nterials, su	pplies,	Сги		als for fur essing	ther
Year or month	Total	Foods	Energy	Excluding	Capital equip- ment	Con- sumer goods exclud- ing foods and energy	Total	Foods and feeds ¹	Energy	Other	Total	Food- stuffs and feed- stuffs	Energy	Other
1974 1975 1976 1977 1978 1977 1978 1980 1981 1981 1982 1983 1985 1986 1987 1989 1990 1991 1992 1993 1990 1991 1992 2002 2003 2004 2006 2007 2007 2007 2007 2007 2007 2007	52.6 58.2 60.8 76.9 88.0 96.1 103.2 101.0 103.2 102.7 123.2 121.7 123.2 124.7 125.5 131.3 131.8 131.8 131.8 140.7 132.2 140.7 132.2 140.7 132.2 140.7 132.2 140.7 132.2 140.7 150.7 150.7 160.1	644 698 696 696 697 978 978 974 978 978 978 978 978 978 978 978 978 978	262 307, 343, 337, 343, 397, 423, 397, 423, 397, 423, 397, 423, 397, 423, 397, 423, 397, 423, 423, 423, 423, 423, 424, 424, 424	53.6 59.7 63.1 66.9 71.9 94.6 66.9 100.0 103.0 105.5 1117.0 103.0 105.1 113.3 117.0 122.1 122.1 134.2 137.1 142.0 150.2 150.5 150.5 150.5 161.0 161.3 161.3 161.3 161.3 161.5 161.5 165.0	50.5 58.2 2 62.1 66.1 71.3 77.3 77.3 94.6 66.1 100.0 102.8 85.8 94.6 6.1 100.0 102.8 105.2 109.7 111.4 31.1 18.8 31.3 13.2 2 126.7 129.1 133.1 313.2 126.7 129.1 139.7 139.1 1	55.5 60.6 63.7 72.2 78.8 87.8 94.6 100.0 103.1 105.7 108.4 111.1 114.2 118.5 124.0 128.8 133.7 137.1 138.5 139.0 144.3 147.7 151.7 157.6 157.6 169.0 169.0 170.0 169.0 170.0 171.8 172.2 173.2 174.0 174.8 175.2 174.0 174.8 175.2 176.6 176.6 176.6 177.6 176.6 177.6 176.7 176.6 177.6 176.6 177.6 176.6 176.6 176.6 176.6 176.6 176.6 176.6 176.6 176.6 176.6 176.6 176.6 176.6 176.6 176.6	525 580.0 69.9 69.5 75.4 79.1 100.0 100.0 100.1 101.1 111.0 110.0	83.6 81.6 81.6 81.6 84.8 84.8 84.8 96.2 105.5 103.6 105.7 103.6 105.7 113.8 113.1 111.7 114.8 125.4 125.1 115.7 115.5 115.5 125.9 133.8 133.8 133.8 133.8 133.8 133.8 133.8 135.5 155.5 156.3 156.5 156.3 156.5 156.3 156.5 156.3 156.5 156.3 156.5 156.3 156.3 156.5 156.3 156.5 156.3 156.5 156.3 156.5 156.3 15	33.1 38.7 41.5 41.6 49.1 61.1 84.9 100.5 95.3 95.5 92.6 73.0 70.9 76.1 85.5 85.1 84.3 84.3 84.3 84.3 84.3 84.3 101.7 104.1 95.9 111.9 123.2 149.2 151.8 155.7 164.0 170.5 170	54.0 60.2 63.8 67.6 72.5 80.7 90.3 97.7 100.0 101.6 104.9 105.2 120.9 121.4 122.0 123.8 127.1 135.2 134.0 134.0 134.0 135.8 138.5 136.4 165.5 166.2 167.7 168.6 168.8 168.9 170.8 170.8 170.8 170.8 170.8 172.5 173.7 175.8 178.3 181.2 183.8	61.4 61.6 63.4 61.6 63.4 63.4 63.4 95.3 103.0 101.0 101.1 101.3 103.5 103.1 101.2 101.4 101.8 101.2 101.4 101.8 101.1 102.4 101.8 103.1 103.1 104.9 105.0 10	76.4 77.4 76.8 77.5 87.3 100.0 104.6 103.9 100.0 101.8 104.7 94.8 93.2 96.2 106.1 111.2 113.1 105.5 105.8 121.5 112.9 98.7 100.2 113.1 113.1 146.7 128.7 138.8 142.0 143.7 148.1 148.4 150.0 147.8 151.9 158.5 165.4 169.2 168.1 173.2 178.1 179.3 170.4	27.8 33.3 35.3 35.3 40.4 45.2 54.9 73.1 97.7 100.0 98.7 98.0 98.7 75.9 85.9 80.4 78.8 75.0 87.9 80.4 78.8 75.1 122.3 102.0 147.2 174.6 234.0 226.9 232.8 195.9 224.7 226.5 233.0 238.0 238.0 238.0 237.6 231.7 247.7 256.3 273.6 291.7 219.9 237.7 266.1 386.1 386.1 386.1 386.1	83.3 69.3 69.3 80.2 79.8 87.8 87.8 106.2 113.1 111.7 105.3 111.7 113.0 135.3 128.2 128.4 128.2 156.5 155.8 156.5 142.1 135.2 148.2 158.4 155.8 156.5 142.1 135.7 1

Intermediate materials for food manufacturing and feeds.
 Data have been revised through June 2008; data are subject to revision four months after date of original publication. Source: Department of Labor (Bureau of Labor Statistics).

Table B-67.—Producer price indexes for major commodity groups, 1959-2008 [1982=100]

	Farm (products and proc foods and feeds	essed			Industrial commodities		
Year or month	Total	Farm products	Processed foods and feeds	Total	Textile products and apparel	Hides, skins, leather, and related products	Fuels and related products and power	Chemicals and allied products ¹
1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1973 1974 1975 1977 1978 1980 1980 1980 1988 1988 1988 1988 198	37.6 37.7 38.1 37.7 38.1 37.7 37.5 39.0 41.6 40.2 41.1 43.4 44.9 45.8 49.2 63.9 73.0 73.6 75.9 83.0 98.3 101.1 100.0 102.0 102.0 102.0 115.4 118.6 116.4 115.9 118.4 119.1 120.5 122.0 122.0 122.0 122.0 122.0 122.0 122.0 122.0 122.0 122.0 122.0 122.0 122.0	40.2 40.1 39.7 40.4 39.6 39.0 40.7 41.3 45.0 45.8 46.6 51.6 72.7 77.0 78.8 79.4 87.7 49.7 102.9 105.5 105.5 104.9 105.5 105.9 105.5 106.9 107.4 110.9 110.6 107.4 110.6 107.4 110.6 107.4 110.6 107.4 110.6 107.4 110.6 107.4 107.5 107.4	35.6 35.6 36.2 36.5 36.8 36.7 38.0 40.2 39.8 40.6 42.7 44.6 45.5 48.0 72.6 70.8 80.6 80.0 80.0 101.8 95.9 99.9 99.9 100.0 101.8 112.7 117.8 121.9 121.9 121.9 121.9 121.9 121.1 121.0 133.3 131.1 133.3 131.1 133.3 136.2	30.5 30.5 30.4 30.4 30.3 30.5 32.0 32.8 33.9 35.2 36.5 37.8 40.3 49.2 54.9 58.4 62.5 67.0 97.4 100.0 101.1 103.3 103.7 100.0 101.6 115.8 115.8 116.5 117.4 119.0 120.7 121.7 1	48.1 48.6 47.8 48.2 48.2 48.5 48.9 50.7 51.8 52.4 53.3 55.5 60.5 60.6 67.4 75.3 78.1 78.1 79.7 100.0 100.0 100.0 116.3 115.0 116.3 117.8 118.0 118.3 120.8 122.9 121.1 121.4 121.4 121.4 121.4 121.4 121.4 121.4	35.9 34.6 34.9 35.3 34.4 38.1 39.4 39.4 38.1 39.3 41.5 42.0 50.0 55.2 56.5 56.3 68.3 76.1 96.1 99.7 99.7 99.7 99.7 100.0 103.0 100.0 103.0 103.0 103.0 104.7 138.0 141.7 150.5 153.7 150.5 153.7 154.2 148.0 151.5 158.2 148.0 151.5 153.7 154.2 148.0 151.5 153.7 155.2 148.0 151.5 153.7 155.2 148.0 151.5 153.7 155.2 148.0 151.5 153.7 155.2 148.0 151.5 153.7 155.2 148.0 151.5 153.7 155.2 148.0 151.5 153.7 155.2 148.0 151.5 153.7 155.2 156.5 156.2 156.5 156.	13.7 13.9 14.0 14.0 13.9 13.5 13.8 14.1 14.4 14.3 14.6 15.3 16.6 17.1 19.4 38.3 43.6 46.5 58.9 82.8 100.0 95.9 82.8 83.8 85.8 85.8 85.8 85.8 85.8 85.8 85	34.8 34.8 34.5 33.9 33.5 33.6 33.6 33.6 35.6 35.6 35.6 37.6 68.0 68.0 68.0 89.0 100.0 100.3 102.9 103.7 102.6 105.4 1125.9 123.6 125
2002 2003 2004 2005 2006 2007 2007: Jan								
Feb Mar Mar May June July Aug Sept Oct 2 Sept Mar Apr May June Dec Sept Mar Apr May June Sept Mar Apr May June Sept Mar Apr May June May Sept Sept Sept Sept Sept Sept Sept Sept	152.9 155.1 156.1 157.5 158.0 158.6 157.8 160.5 161.0 162.3 166.0 169.8 171.1 174.5 174.0 177.1 180.4 182.6 179.3 178.8 169.6	137.5 140.6 141.3 142.7 141.8 143.4 140.4 146.8 148.2 151.0 159.6 164.4 169.6 169.7 176.2 174.7 164.5 164.1	180.6 162.4 163.4 164.8 166.2 166.6 167.5 168.0 169.4 172.7 174.6 176.9 182.4 186.6 187.4 186.7 187.4	189.1 171.6 173.9 176.0 176.4 177.9 174.9 175.6 176.9 181.8 180.7 182.8 184.6 190.2 204.0 204.0 209.6 203.5 200.4 189.3	125.4 125.4 125.3 125.4 125.7 126.0 126.2 126.3 126.6 126.9 127.1 127.2 127.6 128.2 128.2 129.0 130.1	174.1 174.9 176.0 175.6 174.7 171.6 172.4 172.3 172.4 172.5 172.5 172.5 172.9 174.8 175.0 175.4	180.7 167.9 174.7 181.3 182.4 186.7 176.3 178.9 196.9 195.6 195.9 199.5 217.1 224.7 243.2 254.8 269.8 239.5 230.2	206.7 208.8 210.7 213.7 215.0 216.7 218.9 224.5 224.7 229.2 231.3 235.6 240.4 246.5 252.7 259.4 268.7 268.7

See next page for continuation of table.

Prices for some items in this grouping are lagged and refer to one month earlier than the index month.
 Data have been revised through June 2008; data are subject to revision four months after date of original publication.

Table B-67.—Producer price indexes for major commodity groups, 1959-2008—Continued [1982=100]

						ustrial commo	dities—Contir	nued			
		Dubbor	Lumbar	Pulp,	Metals				Transpo equip	ortation oment	
Yea	ar or month	Rubber and plastic products	Lumber and wood products	paper, and allied products	and metal products	Machinery and equipment	Furniture and household durables	Non- metallic mineral products	Total	Motor vehicles and equip- ment	Miscel- laneous products
1959 .		42.6	34.7	33.7	30.6	32.8	48.0	30.3		39.9	33.4
1961 . 1962 . 1963 . 1964 .		42.7 41.1 39.9 40.1 39.6 39.7	33.5 32.0 32.2 32.8 33.5 33.7	34.0 33.0 33.4 33.1 33.0 33.3	30.6 30.5 30.2 30.3 31.1 32.0	33.0 33.0 33.0 33.1 33.3 33.7	47.8 47.5 47.2 46.9 47.1 46.8	30.4 30.5 30.5 30.3 30.4 30.4		39.3 39.2 39.2 38.9 39.1 39.2	33.6 33.7 33.9 34.2 34.4 34.7
1966 . 1967 . 1968 . 1969 .		40.5 41.4 42.8 43.6 44.9	35.2 35.1 39.8 44.0 39.9	34.2 34.6 35.0 36.0 37.5	32.8 33.2 34.0 36.0 38.7	34.7 35.9 37.0 38.2 40.0	47.4 48.3 49.7 50.7 51.9	30.7 31.2 32.4 33.6 35.3	40.4 41.9	39.2 39.8 40.9 41.7 43.3	35.3 36.2 37.0 38.1 39.8
1971 . 1972 . 1973 . 1974 . 1975 . 1976 . 1977 .		45.2 45.3 46.6 56.4 62.2 66.0 69.4 72.4	44.7 50.7 62.2 64.5 62.1 72.2 83.0 96.9	38.1 39.3 42.3 52.5 59.0 62.1 64.6 67.7	39.4 40.9 44.0 57.0 61.5 65.0 69.3 75.3	41.4 42.3 43.7 50.0 57.9 61.3 65.2 70.3	53.1 53.8 55.7 61.8 67.5 70.3 73.2 77.5	38.2 39.4 40.7 47.8 54.4 58.2 62.6 69.6	44.2 45.5 46.1 50.3 56.7 60.5 64.6 69.5	45.7 47.0 47.4 51.4 57.6 61.2 65.2 70.0	40.8 41.5 43.3 48.1 53.4 55.6 59.4 66.7
1980 1981 1982 1983 1984 1985 1986 1987		80.5 90.1 96.4 100.0 100.8 102.3 101.9 101.9 103.0	105.5 101.5 102.8 100.0 107.9 108.6 107.2 112.8 118.9	75.9 86.3 94.8 100.0 103.3 110.3 113.3 116.1 121.8 130.4	86.0 95.0 99.6 100.0 101.8 104.4 103.2 107.1 118.7	76.7 86.0 94.4 100.0 102.7 105.1 107.2 108.8 110.4 113.2	82.8 90.7 95.9 100.0 103.4 105.7 107.1 108.2 109.9	77.6 88.4 96.7 100.0 101.6 105.4 110.0 110.0	75.3 82.9 94.3 100.0 102.8 107.9 110.5 112.5	75.8 83.1 94.6 100.0 102.2 104.1 106.4 109.1 111.7	75.5 93.6 96.1 100.0 104.8 107.0 109.4 111.6 114.9
1990 . 1991 . 1992 . 1993 . 1994 . 1995 . 1996 . 1997 .		112.6 113.6 115.1 115.1 116.0 117.6 124.3 123.8 123.2	126.7 129.7 132.1 146.6 174.0 180.0 178.1 176.1 183.8 179.1	137.8 141.2 142.9 145.2 147.3 152.5 172.2 168.7 167.9	124.1 122.9 120.2 119.2 119.2 124.8 134.5 131.0 131.8 127.8	117.4 120.7 123.0 123.4 124.0 125.1 126.6 126.5 125.9	116.9 119.2 121.2 122.2 123.7 126.1 128.2 130.4 130.8	112.6 114.7 117.2 117.3 120.0 124.2 129.0 131.0 133.2	117.7 121.5 126.4 130.4 133.7 137.2 139.7 141.7 141.6	116.2 118.2 122.1 124.9 128.0 131.4 133.0 134.1 132.7 131.4	126.5 134.2 140.8 145.3 145.4 141.9 145.9 150.9
2000 . 2001 . 2002 . 2003 . 2004 . 2005 . 2006 .		122.5 125.5 127.2 126.8 130.1 133.8 143.8 153.8	183.6 178.2 174.4 173.3 177.4 195.6 196.5 194.4 192.4	174.1 183.7 184.8 185.9 190.0 195.7 202.6 209.8 216.9	124.6 128.1 125.4 125.9 129.2 149.6 160.8 181.6 193.5	124.3 124.0 123.7 122.9 121.9 122.1 123.7 126.2 127.3	131.7 132.6 133.2 133.5 133.9 135.1 139.4 142.6 144.7	138.9 142.5 144.3 146.2 148.2 153.2 164.2 179.9 186.2	141.8 143.8 145.2 144.6 145.7 148.6 151.0 152.6 155.0	131.7 132.3 131.5 129.9 129.6 131.0 131.5 131.0 132.2	166.6 170.8 181.3 182.4 179.6 183.2 195.1 205.6 210.3
	Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec Jan Feb Mar Apr	154.2 154.0 153.8 153.9 154.2 154.4 154.8 155.7 155.6 156.5 157.5 159.9 160.6 161.3	192.1 192.7 193.3 193.3 193.1 193.7 194.4 193.2 192.3 191.1 189.8 190.0 189.3 189.1	213.5 214.0 215.1 215.8 216.1 217.2 217.6 218.2 219.5 220.1 220.2 222.3 223.4 224.0 224.9	185.7 187.2 191.1 195.4 196.3 195.9 196.6 195.5 194.5 194.1 197.5 201.8 208.0	127.8 127.3 127.2 127.4 127.2 127.1 127.1 127.1 127.1 127.2 127.4 128.3 128.5 128.5	143.9 144.5 144.6 144.9 144.9 144.8 144.5 144.7 145.3 145.4 145.7 146.1 146.1	185.3 185.4 185.9 186.5 186.3 186.3 186.4 186.4 186.4 186.9 188.5 188.8 189.5	155.0 155.6 154.3 154.2 154.4 154.4 154.2 153.7 156.9 157.3 156.6 157.5	132.7 132.5 132.1 131.8 131.6 131.6 131.3 130.9 134.3 133.9 134.3 133.2 133.7 133.7	207.7 211.0 210.6 209.9 210.3 210.0 209.7 210.7 211.7 211.2 211.7 213.3 214.8 214.9
	Apr	161.3 162.8 164.0 167.3 169.1 171.3 172.9	190.5 193.8 194.6 193.7 193.7 193.8 190.9	224.9 225.2 225.7 226.8 230.0 231.4 231.0	217.6 223.4 226.9 232.2 232.2 223.8 211.5	128.7 129.2 129.6 130.4 130.8 131.0 131.2	147.2 147.3 148.0 149.1 149.9 150.8 151.4	191.0 192.1 194.4 198.9 203.1 204.7 205.1	157.6 157.5 156.7 157.5 157.3 157.6 162.2	133.6 133.3 132.1 132.7 132.0 132.1 137.5	214.9 216.4 217.1 218.4 219.1 219.3 219.2

Table B-68.—Changes in producer price indexes for finished goods, 1965–2008 [Percent change]

	finis	tal shed ods	cons	shed umer ods		Finished g	oods exclu	ding consu	umer foods	3		shed ergy ods	Finished exclu foods an	d goods Iding d energy
Year or month	Dec.	Year	Dec.	Year	To	tal	Cons			oital oment	Dec.	Year	Dec.	Year
	to Dec. ¹	to year	to Dec. ¹	to year	Dec. to Dec. ¹	Year to year	Dec. to Dec. ¹	Year to year	Dec. to Dec. ¹	Year to year	to Dec. 1	to year	to Dec. ¹	to year
1965 1966 1967 1968	3.3 2.0 1.7 3.1 4.9	1.8 3.2 1.1 2.8 3.8	9.1 1.3 3 4.6 8.1	4.0 6.5 -1.8 3.9 6.0	2.5	2.6 2.8	0.9 1.8 2.0 2.0 2.8	0.9 1.5 1.8 2.3 2.3	1.5 3.8 3.1 3.0 4.8	1.2 2.4 3.5 3.4 3.5				
1970 1971 1972 1973 1974 1975 1976 1977 1978	2.1 3.3 3.9 11.7 18.3 6.6 3.8 6.7 9.3	3.4 3.1 3.2 9.1 15.4 10.6 4.5 6.4 7.9	-2.3 5.8 7.9 22.7 12.8 5.6 -2.5 6.9	3.3 1.6 5.4 20.5 14.0 8.4 3 5.3	4.3 2.0 2.3 6.6 21.1 7.2 6.2 6.8 8.3	3.5 3.7 2.0 4.0 16.2 12.1 6.2 7.1 7.2	3.8 2.1 2.1 7.5 20.3 6.8 6.0 6.7	3.0 3.5 1.8 4.6 17.0 10.4 6.2 7.3 7.1	4.8 2.4 2.1 5.1 22.7 8.1 6.5 7.2 8.0	4.7 4.0 2.6 3.3 14.3 15.2 6.7 6.4 7.9	16.3 11.6 12.0 8.5	17.2 11.7 15.7 6.5	17.7 6.0 5.7 6.2 8.4	11.4 11.4 5.7 6.0 7.5
1970 1980 1981 1982 1983 1984 1985 1986 1987 1988	12.8 11.8 7.1 3.6 .6 1.7 1.8 -2.3 2.2 4.0 4.9	11.2 13.4 9.2 4.1 1.6 2.1 1.0 -1.4 2.5 5.2	11.7 7.4 7.5 1.5 2.0 2.3 3.5 6 2.8 2 5.7	9.3 5.8 5.8 2.2 1.0 4.4 8 2.6 2.1 2.8 5.4	0.3 14.8 13.4 8.7 4.2 .0 1.1 2.2 -4.0 3.2 3.2 4.8	11.8 16.2 10.3 4.6 1.8 1.4 -2.6 2.1 2.4 5.0	8.5 17.6 14.1 8.6 4.2 9 .8 2.1 -6.6 4.1 3.1 5.3	13.3 18.5 10.3 4.1 1.2 1.0 1.1 -4.6 2.2 2.4 5.6	0.0 8.8 11.4 9.2 3.9 2.0 1.8 2.7 2.1 1.3 3.6 3.8	7.9 8.7 10.7 10.3 5.7 2.8 2.3 2.2 2.0 1.8 2.3 3.9		35.0 49.2 19.1 -1.5 -4.8 -4.2 -3.9 -28.1 -1.9 -3.2 9.9	9.4 10.8 7.7 4.9 1.9 2.0 2.7 2.7 2.1 4.3	7.5 8.9 11.2 8.6 5.7 3.0 2.4 2.5 2.3 2.4 3.3 4.4
1990	5.7 1 1.6 .2 1.7 2.3 2.8 -1.2 .0	4.9 2.1 1.2 1.2 .6 1.9 2.7 .4 8	2.6 -1.5 1.6 2.4 1.1 1.9 3.4 8	4.8 2 6 1.9 .9 1.7 3.6 .7 1	4.6 6.9 .3 1.6 4 1.9 2.3 2.6 -1.2 1 3.5	5.0 3.0 1.8 1.1 .6 1.9 2.4 .3 -1.1 2.2	8.7 7 1.6 -1.4 2.0 2.3 3.7 -1.5 1 5.1	5.9 2.9 1.8 .7 1 2.0 2.9 .5 -1.4 3.2	3.4 2.5 1.7 1.8 2.0 2.2 .4 6 .0	3.5 3.1 1.9 1.8 2.1 1.9 1.2 1 4	30.7 -9.6 -3 -4.1 3.5 1.1 11.7 -6.4 -11.7	14.2 4.1 4 .3 -1.3 1.4 6.5 .2 -10.0 4.9	3.5 3.1 2.0 .4 1.6 2.6 .6 .0 2.5	3.7 3.6 2.4 1.2 1.0 2.1 1.4 .3 .9
2000 2001 2002 2003 2004 2005 2006 2007	3.6 -1.6 1.2 4.0 4.2 5.4 1.1 6.2	3.8 2.0 -1.3 3.2 3.6 4.8 3.0 3.9	1.7 1.8 6 7.7 3.1 1.7 1.7	1.6 3.0 8 4.1 4.7 2.0 .6	4.1 -2.6 1.7 3.0 4.5 6.4 1.0 5.8	4.4 1.7 -1.5 3.0 3.4 5.6 3.5 3.2	5.5 -3.9 2.9 4.1 5.5 8.8 .4 7.7	6.1 2.2 -1.8 4.3 4.3 7.3 4.5 3.8	1.2 .0 6 .8 2.4 1.2 2.3 1.4	.9 .6 4 .3 1.4 2.3 1.6	16.6 -17.1 12.3 11.4 13.4 23.9 -2.0 17.8	19.4 2.8 -8.2 14.9 10.8 17.3 10.0 7.1	1.3 .9 5 1.0 2.3 1.4 2.0 2.0	1.3 1.4 .1 .2 1.5 2.4 1.5
		0		0			hange fron	n precedin	g month	0				
	Unad- justed	Season- ally ad- justed	Unad- justed	Season- ally ad- justed	Unad- justed	Season- ally ad- justed	Unad- justed	Season- ally ad- justed	Unad- justed	Season- ally ad- justed	Unad- justed	Season- ally ad- justed	Unad- justed	Season- ally ad- justed
2007: Jan	-0.2 1.1 1.4 1.1 1.0 -2 .8 -1.4 .8 7 1.7 6 .9 .9 .1.6	-0.1 1.2 9.9 7.7 6.1 5.5 8 5.5 2.66 5 1.2 3.9 3.1 1.4	0.6 1.7 1.5 .3 .0 .0 .3 .1 -1.1 1.8 -1.1 1.6 1.3 5 1.4	0.9 1.6 1.5 .5 7 1 .0 1.1 1.3 2 1.3 1.7 6 1.4	-0.4 9 1.4 1.3 1.3 1.3 2 1.0 -1.8 7 7 7 2.1 -1.2 8 4 4 1.7 1.0 2.1	-0.4 1.1 .8 .7 .9 .1 .7 -1.1 .4 .4 .3.4 -1.0 .6 .7 .3 .1 .7	-0.7 1.1 2.0 1.9 1.8 -2 1.4 -2.4 1.0 5 2.8 -1.5 1.0 4 2.4 1.3 2.8	-0.6 1.4 1.1 1.0 1.3 1.0 -1.4 5.5 4.5 -1.3 1.2 2.3	0.2 2 1 .0 .0 .0 1 .1 .1. .3 2 .5 .3 .4	0.1 .3 .0 .1 .1 .2 .1 .0 .0 .1 .4 -1 .5 .4 .0 .6 .6	-2.5 2.5 6.0 5.4 4.2 -6.5 2.6 7.1 -3.9 1.7 .4 6.2 2.8 6.8 6.8	-2.0 3.2 3.2 2.6 2.9 -3 2.2 -4.2 1.1 11.7 -3.5 2.2 1.0 2.5 -1	0.2 .4 1 .0 .2 .0 .1 .1 .1 .0 .1 .1 .2 1 .6 .4 .1 .4 .2	0.1 .4 1 .2 .2 .2 .2 .2 .1 .1 .3 .3 .1 .6 .4 .1 .5 .2
June July ² Aug ² Sept ² Oct ²	1.4 1.4 -1.6 1 -2.6	1.7 1.2 9 4 -2.8	1.4 .5 .3 .3 7	1.5 .3 .3 .2 2	1.5 1.7 -2.1 2 -3.1	1.8 1.4 -1.2 5 -3.4	2.1 2.1 -2.9 4 -5.0	2.4 1.7 -1.7 9 -5.0	.2 .0 .6 .1 .4 1.6	.1 .8 .1 .5	5.0 4.1 -6.9 -1.4 -14.2	5.6 2.9 -4.6 -2.9 -12.8	1 .7 .1 .4 1.5	.4 .1 .5 .2 .2 .8 .2 .4

Source: Department of Labor (Bureau of Labor Statistics).

Changes from December to December are based on unadjusted indexes.
 Data have been revised through June 2008; data are subject to revision four months after date of original publication.

Money Stock, Credit, and Finance

Table B-69.—Money stock and debt measures, 1965-2008

[Averages of daily figures, except debt end-of-period basis; billions of dollars, seasonally adjusted]

	M1	M2	Debt ¹		Percent chang	 ge
Year and month	Sum of currency, demand deposits, travelers checks, and other	M1 plus retail MMMF balances, savings deposits (including MMDAs),	Debt of domestic nonfinancial	From 9 6 months	year or s earlier ³	From previous period ⁴
	checkable deposits (OCDs)	and small time deposits ²	sectors	M1	M2	Debt
December: 1965 1966 1967 1968 1969 1970 1971 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1980 1981 1982 1983 1984 1985 1989 1990 1991 1991 1992 1993 1994 1995	(0CDs) 167.8 172.0 183.3 197.4 203.9 214.4 228.3 249.2 262.9 274.2 287.1 336.2 339.9 357.3 381.8 408.5 436.7 474.8 521.4 551.6 619.8 724.7 732.9 824.7 887.0 1.024.9 1.129.6 1.150.7 1.127.4 1.081.3 1,072.5	and small time deposits ² 459.2 480.2 524.8 556.8 556.8 587.9 626.5 710.3 802.3 805.5 902.1 1,101.6 1,270.3 1,366.0 1,473.7 1,599.8 1,755.5 1,910.1 2,126.4 2,309.8 2,495.5 2,732.2 2,831.3 2,994.3 3,158.6 3,277.7 3,378.0 3,431.4 3,482.0 3,481.1 3,862.1 3,820.5	1,008.0 1,075.5 1,151.5 1,243.3 1,330.4 1,420.2 1,555.2 1,711.2 1,895.5 2,261.8 2,250.5 3,211.2 3,603.0 3,953.5 4,361.7 4,783.4 5,359.2 6,146.2 7,123.2 7,967.0 8,670.7 9,451.6 10,152.9 10,836.7 11,302.8 11,818.3 12,394.7 12,394.	2.5 6.6 6.7.7 3.3 5.1. 6.5 9.2 5.5 5.5 4.3 4.7 6.7 8.1 8.0 6.9 9.8 7.0 6.9 9.8 12.4 16.9 9.8 12.4 16.9 16.9 16.9 16.9 16.9 16.9 16.9 16.9	4.6 9.3 8.0 3.7 6.6 6.3 13.4 10.3 7.5 5.7 9.7 9.7 9.7 9.8 8.6 8.0 9.7 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8	6.7 7.1 8.0 7.1 6.8 9.5 10.0 10.7 9.2 9.3 10.8 12.8 12.8 12.2 9.5 10.1 12.0 14.8 15.6 11.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 10.0 10
1998 1999 2000 2001 2001 2002 2003 2004 2005 2006 2007 2007 307 307 407 407 May June July Aug Sept Oct Mar Apr Mar Apr Oct Nov Dec 2008 2008 2009 2009 2007 2007 2007 2007 2007 2007	1,095.5 1,122.5 1,087.4 1,181.9 1,219.7 1,306.1 1,376.3 1,374.5 1,366.5 1,366.5 1,367.5 1,368.8 1,377.7 1,375.3 1,368.5 1,368.5 1,366.5 1,366.5 1,366.5 1,367.2 1,372.3 1,373.3 1,368.3 1,373.3 1,373.3 1,368.5 1,366.5 1,366.5	4,378,4 4,633,9 4,912,9 5,766,0 6,055,5 6,400,7 6,659,7 7,012,3 7,404,3 7,084,8 7,124,3 7,193,8 7,193,8 7,286,1 7,313,9 7,338,3 7,372,3 7,404,3 7,448,9 7,546,8 7,618,1 7,631,7 7,696,9 7,699,9 7,7699,0	16,226.6 17,307.7 18,183.6 19,319.3 20,733.8 22,442.5 24,456.8 26,776.2 29,201.4 31,723.4 29,801.3 30,400.5 31,095.5 31,723.4 32,436.5	2.1 2.5 3.1 3.2 7.1 5.4 -1.1 5.4 -1.3 3.3 -1.4 -1.5 -1.4 -1.2 -1.4 1.3 3.3 3.3 3.1 1.4 1.3 1.3 1.4 1.3 1.3 1.3 1.3 1.3 1.3 1.4 1.3 1.3 1.3 1.4 1.4 1.5 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6	8.5.8 5.8 6.4 5.0 5.7 4.0 5.7 5.6 6.3 5.6 6.9 6.9 6.9 6.9 6.9 6.9 5.7 5.7 5.7 5.7 5.7 5.7 5.7 5.7 5.7 5.7	6.6 6.4 5.0 6.3 7.3 8.1 8.9 9.5 9.1 8.6 8.0 9.1 8.1

<sup>Consists of outstanding credit market debt of the U.S. Government, State and local governments, and private nonfinancial sectors.

Money market mutual fund (MMMF), Money market deposit account (MMDA).

Annual changes are from December to December; monthly changes are from six months earlier at a simple annual rate.

Annual changes are from fourth quarter to fourth quarter. Quarterly changes are from previous quarter at annual rate.</sup>

Source: Board of Governors of the Federal Reserve System.

Note.—The Federal Reserve no longer publishes the M3 monetary aggregate and most of its components. Institutional money market mutual funds is published as a memorandum item in the H.6 release, and the component on large-denomination time deposits is published in other Federal Reserve Board releases. For details, see H.6 release of March 23, 2006.

Table B-70.—Components of money stock measures, 1965–2008

[Averages of daily figures; billions of dollars, seasonally adjusted]

				Other	checkable deposits	(OCDs)
Year and month	Currency	Nonbank travelers checks	Demand deposits	Total	At commercial banks	At thrift institutions
December: 1965	36.0 38.0 40.0 43.0 45.0	0.5 .6 .6 .7	131.3 133.4 142.5 153.6 157.3	0.1 .1 .1 .1	0.0 .0 .0 .0	0.1 .1 .1 .1
1970 1971 1972 1973 1974 1975 1976 1977 1978	48.6 52.0 56.2 60.8 67.0 72.8 79.5 87.4 96.0	.9 1.0 1.2 1.4 1.7 2.1 2.6 2.9 3.3 3.5	164.7 175.1 191.6 200.3 205.1 211.3 221.5 236.4 249.5 256.6	.1 2 .2 .3 .4 .9 2.7 4.2 8.5 16.8	.0 .0 .0 .2 .4 1.3 1.8 5.3	.1 .2 .2 .3 .4 .5 1.4 2.3 3.1 4.2
1980 1981 1982 1983 1984 1985 1986 1987 1988	115.3 122.5 132.5 146.2 156.1 167.7 180.4 196.7 212.0 222.3	3.9 4.1 4.1 4.7 5.0 5.6 6.1 6.6 7.0 6.9	261.2 231.4 234.1 238.5 243.4 266.9 302.9 287.7 287.1 278.6	28.1 78.7 104.1 132.1 147.1 179.5 235.2 259.2 280.6 285.1	20.8 63.0 80.5 97.3 104.7 124.7 161.0 178.2 192.5	7.3 15.6 23.6 34.8 42.4 54.9 74.2 81.0 88.1
1990 1991 1992 1993 1994 1995 1996 1997	246.5 267.1 292.2 321.6 354.5 372.8 394.7 425.3 460.5 517.8	7.7 7.7 8.2 8.0 8.6 9.0 8.8 8.4 8.5 8.6	276.8 289.6 340.0 385.4 383.6 389.0 402.1 393.6 376.6 352.8	293.7 332.5 384.6 414.6 404.0 356.6 275.7 245.2 249.9 243.4	208.7 241.6 280.8 302.6 297.4 249.0 172.1 148.3 143.9	85.0 90.9 103.8 112.0 106.6 107.6 103.7 96.8 106.0 103.7
2000	531.2 581.2 626.3 662.5 697.6 723.9 748.9 758.7	8.3 8.0 7.8 7.7 7.5 7.2 6.7 6.3	309.6 335.2 306.2 325.8 343.2 324.9 305.9 294.8	238.4 257.4 279.4 310.1 328.0 318.5 305.0 306.8	133.1 142.0 154.3 175.2 186.8 180.5 176.8 173.9	105.2 115.5 125.1 134.8 141.2 138.0 128.2 132.9
Sept	751.0 752.5 754.4 755.4 756.0 758.0 758.1 759.2 761.5 761.1	66 6.6 6.6 6.5 6.5 6.4 6.4 6.4 6.3 6.3	304.6 302.8 305.9 304.2 301.5 301.0 302.0 296.1 296.5 296.2 294.8	308.0 305.3 307.9 310.9 309.2 302.0 303.4 304.7 305.1 306.8	176.5 176.6 177.3 176.3 171.7 172.0 171.6 171.7 173.0 172.3	128.7 131.3 133.6 132.9 130.3 131.0 131.8 133.0 132.1 129.7
2008: Jan Feb Feb Mar Apr May June July Aug Sept Oct	757.8 758.7 761.8 759.8 762.7 769.0 774.6 775.8 780.1	6.2 6.2 6.2 6.2 6.2 6.0 5.9 5.9 5.8	294.6 295.0 297.2 294.0 289.0 294.0 303.1 302.4 351.9 360.5	308.6 312.9 310.1 311.3 310.3 317.1 319.7 309.9 316.1 311.9	173.9 177.7 175.7 175.6 171.5 181.0 180.3 172.1 177.5	134.8 135.2 134.5 135.8 136.1 139.4 137.8 138.6 137.1

See next page for continuation of table.

Table B-70.—Components of money stock measures, 1965-2008—Continued

[Averages of daily figures; billions of dollars, seasonally adjusted]

		avings deposits			omination time			
Year and month	Total	At commercial banks	At thrift institutions	Total	At commercial banks	At thrift institutions	Retail money funds	Institutional money funds ³
December: 1965 1966	256.9 253.1	92.4 89.9	164.5 163.3	34.5 55.0	26.7 38.7	7.8 16.3	0.0	0.0
1967 1968 1969	263.7 268.9 263.7	94.1 96.1 93.8	169.6 172.8 169.8	77.8 100.5 120.4	50.7 50.7 63.5 71.6	27.1 37.1 48.8	.0 .0 .0 .0	.0 .0 .0
1970 1971 1972 1973	261.0 292.2 321.4 326.8	98.6 112.8 124.8 128.0	162.3 179.4 196.6 198.7	151.2 189.7 231.6 265.8	79.3 94.7 108.2 116.8	71.9 95.1 123.5 149.0	.0 .0 .0	.0 .0 .0 .0 .2 .5
1974 1975 1976 1977 1977	338.6 388.9 453.2 492.2 481.9	136.8 161.2 201.8 218.8 216.5	201.8 227.6 251.4 273.4 265.4	287.9 337.9 390.7 445.5 521.0	123.1 142.3 155.5 167.5 185.1	164.8 195.5 235.2 278.0 335.8	1.4 2.4 1.8 1.8 5.8	.2 .5 .6 1.0 3.5
1979 1980	423.8 400.3 343.9	195.0 185.7 159.0	228.8 214.5 184.9	634.3 728.5 823.1	235.5 286.2 347.7	398.7 442.3 475.4	33.9 62.5 151.7	10.4 16.0 38.2
1981 1982 1983 1984 1985 1986 1987 1988	343.9 400.1 684.9 704.7 815.3 940.9 937.4 926.4 893.7	199.0 190.1 363.2 389.3 456.6 533.5 534.8 542.4 541.1	210.0 321.7 315.4 358.6 407.4 402.6 383.9 352.6	850.9 784.1 888.8 885.7 858.4 921.0 1,037.1	347.7 379.9 350.9 387.9 386.4 369.4 391.7 451.2 533.8	473.4 471.0 433.1 500.9 499.3 489.0 529.3 585.9 617.6	184.3 136.0 164.8 174.7 208.2 222.6 244.1 320.8	48.8 40.9 62.4 65.5 86.4 93.9 93.9
1990 1991 1992 1993 1994 1995 1996 1997 1998	922.9 1,044.5 1,187.2 1,219.3 1,151.3 1,135.9 1,274.8 1,401.8 1,605.0	581.3 664.8 754.2 785.3 752.8 774.8 906.0 1,022.9 1,188.5	341.6 379.6 433.1 434.0 398.5 361.0 368.8 378.8 416.5	1,173.4 1,065.6 868.1 782.0 818.1 933.1 948.8 968.6 952.4	610.7 602.2 508.1 467.9 503.6 575.8 594.2 625.5 626.4 636.9	562.7 463.3 360.0 314.1 314.5 357.3 354.6 343.2 326.1 319.9	356.7 371.0 351.1 351.1 378.0 445.7 515.6 591.1 725.5	140.6 189.9 214.3 218.6 213.4 266.6 327.2 401.8 552.9 659.3
2000 2001 2002 2003 2004 2005 2006 2007	1,878.7 2,310.6 2,774.2 3,162.3 3,506.4 3,599.2 3,685.4 3,858.9	1,424.6 1,739.5 2,060.4 2,337.7 2,631.0 2,771.5 2,904.0 3,033.7	454.1 571.1 713.8 824.7 875.3 827.7 781.4 825.3	1,047.6 976.5 896.0 818.7 830.0 996.2 1,171.4	700.2 635.4 590.8 541.3 551.2 644.9 759.2 823.0	347.5 341.1 305.2 277.4 278.8 351.3 412.2	899.3 952.3 876.1 768.5 688.0 689.9 789.0	816.8 1,224.6 1,275.5 1,142.1 1,093.4 1,161.2 1,362.0
2007: Jan	3,707.9 3,726.0 3,742.2 3,772.5 3,787.5 3,800.5 3,807.2 3,833.6 3,836.7 3,840.9 3,855.0 3,855.0	2,919.4 2,929.7 2,923.2 2,938.7 2,938.2 2,947.2 2,964.7 2,994.3 3,000.5 3,010.5 3,026.7 3,033.7	788.6 796.3 819.0 837.9 849.3 853.4 842.5 839.4 828.6 830.4 828.3	1,176.6 1,181.2 1,184.9 1,189.8 1,191.1 1,191.4 1,192.4 1,194.7 1,205.4 1,211.9 1,216.1 1,218.9	762.0 766.4 756.7 758.3 758.9 760.2 765.5 767.5 803.3 820.5	414.6 414.8 428.2 431.4 432.2 431.2 426.9 427.2 429.9 408.7 395.5	801.5 810.1 827.4 833.9 839.9 852.6 865.6 887.9 905.4 915.9 935.5	1,364.8 1,384.9 1,414.2 1,447.1 1,487.2 1,518.7 1,552.7 1,631.0 1,714.5 1,798.7 1,859.1 1,901.2
2008: Jan	3,872.9 3,921.3 3,979.8 3,987.0 4,025.2 4,024.9 4,033.0 4,011.9 4,033.4 4,032.0	3,040.1 3,081.5 3,123.8 3,126.6 3,138.3 3,126.7 3,130.4 3,120.3 3,170.2 3,247.6	832.9 839.8 856.0 860.4 886.9 898.2 902.6 891.6 863.3 784.5	1,226.1 1,227.3 1,217.1 1,211.5 1,206.8 1,203.9 1,212.8 1,237.5 1,255.6 1,314.1	825.5 826.8 820.9 816.5 815.8 818.6 833.6 859.5 883.0 975.0	400.6 400.5 396.2 395.0 390.9 385.3 379.1 378.0 372.7 339.1	982.6 1,025.4 1,045.8 1,061.5 1,040.6 1,023.7 1,030.4 1,026.5 1,026.2 1,059.7	1,950.6 2,093.3 2,168.5 2,208.5 2,242.3 2,269.3 2,267.5 2,291.7 2,198.3 2,150.0

¹ Savings deposits including money market deposit accounts (MMDAs); data prior to 1982 are savings deposits only.
² Small-denomination deposits are those issued in amounts of less than \$100,000.

Note.—See also Table B-69.

Source: Board of Governors of the Federal Reserve System.

³ Institutional money funds are not part of non-M1 M2.

Table B-71.—Aggregate reserves of depository institutions and the monetary base, 1966–2008

[Averages of daily figures 1; millions of dollars; seasonally adjusted, except as noted]

		[Average	es of daily	figures 1;	millions of	dollars; :	seasonally	adjusted,	, except as	notedJ		
	Adjus	ted for chan	ges in rese	rve require	ments ²		E	Borrowings	from the Fe	deral Reserve (N	ISA)3	
	Reser	ves of depo	sitory instit	utions					Other borrov	wings from the F	ederal Reserv	/e
Year and month	Total	Non- borrowed	Required	Excess (NSA) ³	Monetary base	Total ⁴	Term auction credit	Primary	Primary dealer and other broker- dealer credit ⁵	Asset-backed commercial paper money market mutual fund liquidity facility	Credit extended to American Inter- national Group, Inc.	Adjust- ment
December: 1966 1967 1968 1969	12,223 13,180 13,767 14,168	11,690 12,952 13,021 13,049	11,884 12,805 13,341 13,882	339 375 426 286	51,565 54,579 58,357 61,569	532 228 746 1,119						532 228 746 1,119
1970 1971 1972 1973 1974	14,558 15,230 16,645 17,021 17,550	14,225 15,104 15,595 15,723 16,823	14,309 15,049 16,361 16,717 17,292	249 182 284 304 258	65,013 69,108 75,167 81,073 87,535	332 126 1,050 1,298 727						332 126 1,050 1,257 548
1975 1976 1977 1978 1979	17,822 18,388 18,990 19,753 20,720	17,692 18,335 18,420 18,885 19,248	17,556 18,115 18,800 19,521 20,279	266 274 190 232 442	93,887 101,515 110,324 120,445 131,143	130 53 569 868 1,473						104 40 514 734 1,390
1980 1981 1982 1983 1984 1985	22,015 22,443 23,600 25,367 26,913 31,569	20,325 21,807 22,966 24,593 23,727 30,250	21,501 22,124 23,100 24,806 26,078 30,505	514 319 500 561 835 1,063	142,004 149,021 160,127 175,467 187,252 203,555	1,690 636 634 774 3,186 1,318						1,571 433 415 676 469 763
1986 1987 1988 1989	38,840 38,913 40,453 40,486	38,014 38,135 38,738 40,221	37,667 37,893 39,392 39,545	1,173 1,019 1,061 941	223,416 239,829 256,897 267,754	827 777 1,716 265						486 201 342 162
1990 1991 1992 1993 1994	41,766 45,516 54,421 60,566 59,466 56,483	41,440 45,324 54,298 60,484 59,257 56,226	40,101 44,526 53,267 59,497 58,295 55,193	1,665 990 1,154 1,069 1,171 1,290	293,300 317,544 350,912 386,586 418,339 434,580	326 192 124 82 209 257						227 153 105 51 109 217
1996 1997 1998 1999	50,185 46,875 45,170 42,183 38,716	50,030 46,551 45,053 41,862	48,766 45,189 43,658 40,889	1,418 1,687 1,512 1,294 1,325	452,051 479,931 513,921 593,846 584,929	155 324 117 6320 210						87 245 101 179
2000	41,443 40,400 42,757 46,552 45,138	38,507 41,376 40,320 42,711 46,489 44,970	37,391 39,799 38,392 41,710 44,643 43,238	1,525 1,643 2,008 1,047 1,909 1,900	635,601 681,656 720,474 759,173	67 80 46 63		17 11 97				99 34 35
2006 2007 2007: Jan Feb	43,338 42,675 42,309 42,454 42,289	43,147 27,244 42,098 42,425 42,235	41,475 40,905 40,764 41,001 40,673	1,863 1,770 1,545 1,453 1,617	787,303 811,730 823,348 813,654 813,447 814,858	191 15,430 211 30 54	11,613	111 3,787 187 8 21				
Mar Apr May June July Aug	42,265 42,576 43,187 43,374 41,821 45,022	42,497 42,497 43,084 43,187 41,559 44,047	40,989 41,734 41,623 40,183 40,196	1,617 1,587 1,453 1,751 1,638 4,826	816,973 818,687 819,831 821,129 824,440	79 103 187 262 975		32 14 43 45 701				
Sept Oct Nov Dec	42,668 42,436 42,623 42,675	41,101 42,182 42,258 27,244	40,934 40,977 40,927 40,905	1,733 1,459 1,696 1,770	821,968 824,647 825,422 823,348	1,567 254 366 15,430	11,613	1,345 126 315 3,787				
2008: Jan Feb Mar Apr May June	42,149 42,804 44,292 43,563 44,133 43,373	-3,510 -17,353 -50,232 -91,847 -111,648 -127,905	40,509 41,080 41,313 41,719 42,122 41,100	1,640 1,724 2,978 1,844 2,011 2,272	821,406 822,560 826,994 824,408 826,461 832,528	45,660 60,157 94,523 135,410 155,780 171,278	44,516 60,000 75,484 100,000 127,419 150,000	1,137 155 1,617 9,624 14,076 14,225	16,168 25,764 14,238 6,908			
July Aug Sept Oct Nov ^p	43,348 44,586 102,800 315,525 609,952	-122,316 -123,492 -187,306 -332,795 -88,834	41,371 42,599 42,749 47,619 50,904	1,977 1,988 60,051 267,906 559,048	838,142 841,709 903,524 1,128,479 1,433,092	165,664 168,078 290,105 648,319 698,786	150,000 150,000 149,814 244,778 393,088	15,204 17,980 32,632 94,017 95,839	255 0 53,473 114,953 60,655	31,877 117,457 71,009	22,187 77,047 78,070	

¹ Data are prorated averages of biweekly (maintenance period) averages of daily figures.

² Aggregate reserves incorporate adjustments for discontinuities associated with regulatory changes to reserve requirements. For details on aggregate reserves series see Federal Reserve Bulletin.
³ Not seasonally adjusted (NSA).

Not seasonary adjusted (NOA).
 I flincludes secondary, seasonal, and other credit extensions, not shown separately.
 Includes credit extended through the Primary Dealer Credit Facility and credit extended to certain other broker-dealers.
 Total includes borrowing under the terms and conditions established for the Century Data Change Special Liquidity Facility in effect from October 1, 1999 through April 7, 2000.

Source: Board of Governors of the Federal Reserve System.

Table B-72.—Bank credit at all commercial banks, 1965-2008

[Monthly average; billions of dollars, seasonally adjusted 1]

			ties in bank (or donars, c	- Casonany C		d leases in	bank credit			
	Total		11.0					Real estate)			
Year and month	bank credit	Total secu- rities	U.S. Treasury and agency securities	Other secu- rities ²	Total loans and leases ³	Com- mercial and industrial	Total ⁴	Revolv- ing home equity	Com- mercial	Con- sumer ⁵	Secu- rity ⁵	Other
December: 1965 1966 1967 1968 1969	297.1 318.6 350.5 390.5 401.6	96.1 97.2 111.4 121.9 112.4	64.3 61.0 70.7 73.8 64.2	31.9 36.2 40.6 48.1 48.2	201.0 221.4 239.2 268.6 289.2	69.5 79.3 86.5 96.5 106.9	48.9 53.8 58.2 64.8 69.9			45.0 47.7 51.2 57.7 62.6	8.0 8.3 9.6 10.5 10.0	29.7 32.4 33.8 39.2 39.8
1970 1971 1972 1973 1974 1975 1976 1977 1978	434.4 485.2 555.3 638.6 701.7 732.9 790.7 876.0 989.4 1,111.4	129.7 147.5 160.6 168.4 173.8 206.7 228.6 236.3 242.2 260.7	73.4 79.8 85.4 89.7 87.9 117.9 137.3 137.4 138.4 147.2	56.3 67.7 75.2 78.7 85.9 88.9 91.3 98.9 103.8 113.4	304.6 337.6 394.7 470.1 527.9 526.2 562.1 639.7 747.2 850.7	111.6 118.0 133.6 162.8 193.0 184.3 186.3 205.8 239.0 282.2	72.9 81.7 98.8 119.4 132.5 137.2 151.3 178.0 213.5 245.0			65.3 73.3 85.4 98.3 102.1 104.6 115.9 138.1 164.6 184.5	10.4 10.9 14.4 11.2 10.6 12.7 17.7 20.7 19.1 17.4	44.5 53.9 62.5 78.4 89.6 87.5 91.0 97.2 110.9 121.6
1980 1981 1982 1983 1983 1984 1985 1986 1987 1987	1,207.1 1,302.7 1,412.3 1,566.7 1,733.4 1,922.2 2,106.6 2,255.3 2,445.3 2,612.0	296.8 311.1 338.6 403.8 406.6 455.9 510.0 535.0 561.4 585.5	173.2 181.8 204.7 263.4 262.9 273.8 312.8 338.9 365.9 401.0	123.6 129.3 133.9 140.4 143.7 182.2 197.2 196.1 195.5 184.6	910.3 991.6 1,073.7 1,163.0 1,326.9 1,466.3 1,596.5 1,720.2 1,884.0 2,026.5	314.5 353.3 396.4 419.1 479.4 506.5 544.0 575.0 612.0 642.4	265.7 287.5 303.8 334.8 380.8 431.0 499.9 595.7 676.6 769.4	32.2 42.6 53.5	369.6 414.3	179.2 182.7 188.2 213.2 253.6 294.5 314.5 327.7 354.9 375.3	17.2 20.2 23.6 26.5 34.1 42.9 38.6 34.8 39.7 40.7	133.6 148.0 161.7 169.4 179.0 191.4 199.5 187.0 200.8 198.5
1990 1991 1992 1993 1994 1995 1996 1997 1997	2,757.3 2,871.2 2,989.2 3,143.2 3,317.0 3,598.4 3,740.0 4,080.7 4,514.1 4,742.9	635.8 746.2 842.8 916.9 940.2 984.6 975.0 1,087.4 1,225.9 1,268.8	457.5 566.5 666.5 732.7 722.5 702.2 699.4 751.9 795.8 810.4	178.4 179.7 176.3 184.2 217.7 282.4 275.5 335.5 430.1 458.4	2,121.5 2,125.0 2,146.4 2,226.3 2,376.9 2,613.8 2,765.1 2,993.2 3,288.2 3,474.1	644.8 622.2 598.0 588.7 647.9 718.6 777.0 846.0 938.8	856.7 882.9 905.9 946.8 1,010.5 1,091.0 1,141.7 1,243.3 1,333.4	66.4 74.3 78.5 78.1 80.5 84.5 90.6 104.6 103.6	447.5 445.2 433.7 426.4 437.2 458.3 482.0 514.2 559.1 648.0	380.8 363.9 356.2 387.4 447.9 491.1 511.9 502.7 497.4 491.5	44.7 51.9 60.0 80.9 70.2 78.7 69.8 87.7 134.5 139.6	194.5 204.1 226.3 222.5 200.2 234.3 264.7 313.6 384.1 380.1
2000 2001 2002 2003 2004 2005 2006 2007	5,204.2 5,414.6 5,885.0 6,257.9 6,807.6 7,523.7 8,353.4 9,206.3	1,337.3 1,482.9 1,714.7 1,853.5 1,947.4 2,067.5 2,247.7 2,424.2	790.6 852.1 1,029.4 1,115.6 1,172.0 1,162.5 1,218.0 1,126.2	546.7 630.8 685.3 738.0 775.4 905.0 1,029.8 1,298.0	3,866.9 3,931.7 4,170.3 4,404.4 4,860.1 5,456.2 6,105.7 6,782.2	1,079.1 1,018.7 955.9 896.7 918.9 1,036.6 1,188.3 1,434.4	1,655.9 1,786.1 2,033.8 2,230.2 2,566.1 2,924.4 3,357.6 3,578.6	129.7 155.4 213.1 280.3 397.9 443.7 467.6 483.2	742.2 813.6 884.5 962.0 1,083.3 1,274.9 1,453.6 1,604.0	539.8 556.2 585.9 642.3 696.7 707.6 743.3 809.2	161.0 135.0 173.8 198.1 197.4 245.6 268.6 287.6	431.1 435.6 421.0 437.1 481.0 542.0 548.0 672.3
2007: Jan	8,393.9 8,460.1 8,426.2 8,506.1 8,563.9 8,621.4 8,705.3 8,842.1 8,956.3 9,057.1 9,180.3 9,206.3	2,248.8 2,246.2 2,256.9 2,264.1 2,267.7 2,290.3 2,316.7 2,345.9 2,382.7 2,404.5 2,464.5 2,424.2	1,215.4 1,208.1 1,209.1 1,184.0 1,163.7 1,162.8 1,166.4 1,175.0 1,172.0 1,138.9 1,129.0	1,033.4 1,038.1 1,047.8 1,080.1 1,103.9 1,127.5 1,150.4 1,170.9 1,210.8 1,265.5 1,335.5 1,298.0	6,145.1 6,213.9 6,169.3 6,242.0 6,296.3 6,388.6 6,496.3 6,573.5 6,652.7 6,715.8 6,782.2	1,195.0 1,208.3 1,220.1 1,229.7 1,248.0 1,266.2 1,284.7 1,311.2 1,357.1 1,390.2 1,408.5	3,384.5 3,422.4 3,364.1 3,401.2 3,431.5 3,452.8 3,460.7 3,498.2 3,507.9 3,539.9 3,562.3 3,578.6	469.0 470.8 461.5 460.8 462.8 465.1 465.3 468.0 472.2 475.6 478.5 483.2	1,465.7 1,481.7 1,488.2 1,496.6 1,509.3 1,525.7 1,537.0 1,552.0 1,563.0 1,571.8 1,589.5 1,604.0	746.9 750.2 747.1 751.8 755.5 764.4 772.2 774.0 783.1 788.5 795.9 809.2	267.7 276.4 279.9 280.6 280.4 266.7 278.2 287.5 283.5 271.9 282.0 287.6	551.0 556.6 558.1 578.6 581.0 581.1 592.8 625.4 641.9 662.2 667.1 672.3
2008: Jan Feb Mar Apr May June July Aug Sept Oct	9,274.1 9,334.5 9,455.5 9,408.8 9,402.5 9,374.0 9,398.3 9,414.5 9,574.2 9,958.1	2,435.2 2,453.3 2,539.3 2,511.1 2,481.1 2,471.3 2,490.9 2,477.7 2,533.6 2,717.8	1,104.0 1,094.0 1,105.0 1,093.8 1,096.0 1,112.8 1,114.3 1,127.7 1,153.8 1,227.4	1,331.2 1,359.4 1,434.3 1,417.3 1,385.2 1,358.5 1,376.6 1,350.0 1,379.8 1,490.4	6,838.9 6,881.2 6,916.2 6,897.7 6,921.4 6,902.7 6,907.4 6,936.8 7,040.6 7,240.3	1,450.7 1,459.7 1,480.1 1,489.4 1,495.8 1,502.9 1,509.6 1,509.3 1,536.9 1,601.5	3,594.9 3,622.3 3,649.2 3,654.3 3,657.2 3,648.2 3,627.1 3,646.0 3,791.5	486.9 492.5 498.9 506.8 512.2 518.3 523.5 526.2 540.4 577.8	1,614.3 1,627.6 1,642.7 1,653.7 1,663.9 1,680.0 1,674.3 1,680.6 1,717.8	813.2 814.7 817.9 823.4 827.1 831.7 839.3 845.0 852.0 870.2	301.5 296.0 292.3 283.6 292.8 280.8 295.0 305.5 331.0 302.6	678.7 688.5 676.6 647.1 648.5 639.1 636.3 630.9 654.0 674.4

Data are prorated averages of Wednesday values for domestically chartered commercial banks, branches and agencies of foreign banks, New York State investment companies (through September 1996), and Edge Act and agreement corporations.

 Includes other trading assets.

 Scaludes Federal funds sold to, reverse repurchase agreements (RPs) with, and loans to commercial banks in the United States.

Includes other residential, not shown separately.

Source: Board of Governors of the Federal Reserve System.

⁵ Includes other items, not shown separately.

Table B-73.—Bond yields and interest rates, 1929-2008

[Percent per annum]

Year and	Bi (at au	U.S. Tr	reasury sec	urities Constant maturities	2	Corpo bor (Mod	nds	High- grade muni- cipal	New- home	Prime rate	Discoun (Federal Re of New	t window eserve Bank York) ^{5, 6}	Federal
month	3-month	6-month	3-year	10-year	30-year	Aaa ³	Baa	bonds (Stand- ard & Poor's)	mort- gage yields ⁴	charged by banks ⁵	Primary credit	Adjust- ment credit	funds rate ⁷
1929						4.73	5.90	4.27		5.50-6.00		5.16	
1933	0.515					4.49	7.76	4.71		1.50-4.00		2.56	
1939	.023					3.01	4.96	2.76		1.50		1.00	
1940	.014					2.84	4.75	2.50 2.10 2.36		1.50		1.00 1.00	
1941 1942	.103 .326					2.77 2.83	4.33 4.28	2.10		1.50 1.50		81.00	
1943 1944	.373 .375					2.73 2.72	3.91 3.61	2.06 1.86		1.50 1.50		⁸ 1.00 ⁸ 1.00	
1945	.375					2.62	3.29	1.67		1.50		⁸ 1.00	
1946 1947	.375 .594					2.53 2.61	3.05 3.24	1.64 2.01		1.50 1.50–1.75		⁸ 1.00 1.00	
1948	1.040					2.82	3.47	2.40		1.75-2.00		1.34	
1949	1.102					2.66	3.42	2.21		2.00		1.50	
1950 1951	1.218 1.552					2.62 2.86	3.24 3.41	1.98 2.00		2.07 2.56		1.59 1.75	
1952	1.766 1.931		2.47			2.96	3.52	2.19 2.72		3.00 3.17		1.75 1.99	
1953 1954	.953		1.63	2.85 2.40		3.20 2.90	3.74 3.51	2 37		3.05		1.60	
1955 1956	.953 1.753 2.658		2.47 3.19	2.82 3.18		3.06 3.36	3.53 3.88	2.53 2.93		3.16 3.77		1.89 2.77	1.79 2.73
1957	3.267		3.98	3.65		3.89	4.71	3.60		4.20		3.12	3.11
1958 1959	1.839 3.405	3.832	2.84 4.46	3.32 4.33		3.79 4.38	4.73 5.05	3.56 3.95		3.83 4.48		2.15 3.36	1.57 3.31
1960	2.93	3.25	3.98	4.12		4.41	5.19	3.73		4.40		3.53	3.21
1961	2.38	2.61	3.54	3.88		4.35	5.08	3.46		4.50		3.00	1.95
1962 1963	2.78 3.16	2.91 3.25	3.47 3.67	3.95 4.00		4.33 4.26	5.02 4.86	3.18 3.23	5.89	4.50 4.50		3.00	2.71 3.18
1964	3.56	3.69	4.03	4.19		4.40	4.83	3.22	5.83	4.50		3.55	3.50
1965 1966	3.95 4.88	4.05 5.08	4.22 5.23	4.28 4.93		4.49 5.13	4.87 5.67	3.27 3.82	5.81 6.25	4.54 5.63		4.04 4.50	4.07 5.11
1967	4.32 5.34	4.63 5.47	5.03 5.68	5.07 5.64		5.51 6.18	6.23 6.94	3.98 4.51	6.46 6.97	5.61 6.30		4.19 5.16	4.22 5.66
1968 1969	6.68	6.85	7.02	6.67		7.03	7.81	5.81	7.81	7.96		5.87	8.21
1970	6.43	6.53	7.29	7.35		8.04	9.11	6.51	8.45	7.91		5.95	7.17
1971 1972	4.35 4.07	4.51 4.47	5.66 5.72	6.16 6.21		7.39 7.21	8.56 8.16	5.70 5.27	7.74 7.60	5.72 5.25		4.88 4.50	4.67 4.44
1973	7.04	7.18	6.96	6.85		7.44	8.24	5.18	7.96	8.03		6.44	8.74
1974 1975	7.89 5.84	7.93 6.12	7.84 7.50	7.56 7.99		8.57 8.83	9.50 10.61	6.09 6.89	8.92 9.00	10.81 7.86		7.83 6.25	10.51 5.82
1976	4.99	5.27	6.77	7.61 7.42	7 75	8.43	9.75	6.49	9.00	6.84		5.50	5.05
1977 1978	5.27 7.22	5.52 7.58	6.68 8.29	7.42 8.41	7.75 8.49	8.02 8.73	8.97 9.49	5.56 5.90	9.02 9.56	6.83 9.06		5.46 7.46	5.54 7.94
1979	10.05	10.02	9.70	9.43	9.28	9.63	10.69	6.39	10.78	12.67		10.28	11.20
1980 1981	11.51 14.03	11.37 13.78	11.51 14.46	11.43 13.92	11.27 13.45	11.94 14.17	13.67 16.04	8.51 11.23	12.66 14.70	15.27 18.87		11.77 13.42	13.35 16.39
1982	10.69	11.08	12.93	13.01	12.76	13.79	16.11	11.57	15.14	14.86		11.02	12.24
1983 1984	8.63 9.53	8.75 9.77	10.45 11.92	11.10 12.46	11.18 12.41	12.04 12.71	13.55 14.19	9.47 10.15	12.57 12.38	10.79 12.04		8.50 8.80	9.09 10.23
1985 1986	7.47 5.98	7.64 6.03	9.64 7.06	10.62 7.67	10.79 7.78	11.37 9.02	12.72 10.39	9.18 7.38	11.55 10.17	9.93 8.33		7.69 6.33	8.10 6.80
1987	5.82	6.05	7.68	8.39	8.59	9.38	10.58	7.73	9.31	8.21		5.66	6.66
1988 1989	6.69 8.12	6.92 8.04	8.26 8.55	8.85 8.49	8.96 8.45	9.71 9.26	10.83 10.18	7.76 7.24	9.19 10.13	9.32 10.87		6.20 6.93	7.57 9.21
1990	7.51	7.47	8.26	8.55	8.61	9.32	10.16	7.25	10.13	10.07		6.98	8.10
1991	5.42	5.49	6.82	7.86	8.14	8.77	9.80	6.89	9.32	8.46		5.45	5.69
1992 1993	3.45 3.02	3.57 3.14	5.30 4.44	7.01 5.87	7.67 6.59	8.14 7.22	8.98 7.93	6.41 5.63	8.24 7.20	6.25 6.00		3.25 3.00	3.52 3.02
1994 1995	4.29 5.51	4.66 5.59	6.27 6.25	7.09 6.57	7.37 6.88	7.96 7.59	8.62 8.20	6.19 5.95	7.49 7.87	7.15 8.83		3.60 5.21	4.21 5.83
1996	5.02	5.09	5.99	6.44	6.71	7.37	8.05	5.75	7.80	8.27		5.02	5.30
1997 1998	5.07 4.81	5.18 4.85	6.10 5.14	6.35 5.26	6.61 5.58	7.26 6.53	7.86 7.22	5.55 5.12	7.71 7.07	8.44 8.35		5.00 4.92	5.46 5.35
1999	4.66	4.76	5.49	5.65	5.87	7.04	7.87	5.43	7.04	8.00		4.62	5.35 4.97
2000	5.85	5.92	6.22	6.03	5.94	7.62	8.36	5.77	7.52	9.23		5.73	6.24
2001	3.44 1.62	3.39 1.69	4.09 3.10	5.02 4.61	5.49	7.08 6.49	7.95 7.80	5.19 5.05	7.00 6.43	6.91 4.67		3.40 1.17	3.88 1.67
2003	1.01	1.06	2.10 2.78	4.01 4.27		5.67	6.77 6.39	4.73	5.80	4.12 4.34	2.12 2.34		1.13
2005	1.38 3.16	1.57 3.40	3.93	4.29		5.63 5.24	6.06	4.63 4.29	5.77 5.94	6.19	4.19		1.35 3.22
2006	4.73 4.41	4.80 4.48	4.77 4.35	4.80 4.63	4.91 4.84	5.59 5.56	6.48 6.48	4.42 4.42	6.63 6.41	7.96 8.05	5.96 5.86		4.97 5.02
2007	4.41	4.40	4.33	4.03	4.04	0.00	0.40	4.42	0.41	0.00	J.00		J.UZ

¹ High bill rate at auction, issue date within period, bank-discount basis. On or after October 28, 1998, data are stop yields from uniform-price auctions. Before that date, they are weighted average yields from multiple-price auctions.

² Yields on the more actively traded issues adjusted to constant maturities by the Department of the Treasury. The 30-year Treasury constant maturity series was discontinued on February 18, 2002, and reintroduced on February 9, 2006.

TABLE B-73.—Bond yields and interest rates, 1929-2008—Continued

[Percent per annum]

Year and		U.S. Tr	easury sec	Constant	2	Corpo bor (Mod	nds	High- grade muni- cipal	New- home mort-	Prime rate charged	(Federal Re	window serve Bank York) ^{5, 6}	Federal funds
month	3-month	6-month	3-year	10-year	30-year	Aaa ³	Baa	bonds (Stand- ard & Poor's)	gage yields ⁴	by banks ⁵	Primary credit	Adjust- ment credit	rate ⁷
										High-low	High-low	High-low	
2004: Jan	0.89 .92 .94 .94 1.03 1.27 1.35 1.48 1.65 1.75 2.06	0.97 .99 .99 1.06 1.31 1.58 1.67 1.72 1.86 1.99 2.26 2.45	2.27 2.25 2.00 2.57 3.10 3.26 3.05 2.88 2.83 2.85 3.09 3.21	4.15 4.08 3.83 4.35 4.72 4.73 4.50 4.28 4.13 4.10 4.19 4.23		5.54 5.50 5.33 5.73 6.04 6.01 5.82 5.65 5.46 5.47 5.52 5.47	6.44 6.27 6.11 6.46 6.75 6.78 6.62 6.46 6.27 6.21 6.20 6.15	4.53 4.48 4.39 4.84 5.03 5.00 4.82 4.65 4.49 4.43 4.48	5.48 5.72 5.42 5.49 5.77 5.81 5.96 5.88 5.72 5.82 5.91 6.02	4.00-4.00 4.00-4.00 4.00-4.00 4.00-4.00 4.00-4.00 4.25-4.25 4.75-4.25 4.75-4.50 4.75-4.75 5.00-4.75 5.25-5.00	2.00-2.00 2.00-2.00 2.00-2.00 2.00-2.00 2.00-2.00 2.25-2.00 2.25-2.25 2.50-2.25 2.75-2.50 2.75-2.75 3.00-2.75 3.25-3.00		1.00 1.01 1.00 1.00 1.03 1.26 1.43 1.61 1.76 1.93 2.16
2005: Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec	2.32 2.53 2.75 2.78 2.85 2.98 3.21 3.45 3.46 3.70 3.90 3.89	2.60 2.76 3.00 3.06 3.10 3.13 3.41 3.67 3.68 3.98 4.16 4.19	3.39 3.54 3.91 3.79 3.72 3.69 3.91 4.08 3.96 4.29 4.43 4.39	4.22 4.17 4.50 4.34 4.14 4.00 4.18 4.26 4.20 4.46 4.54 4.47		5.36 5.20 5.40 5.33 5.15 4.96 5.06 5.09 5.13 5.35 5.42 5.37	6.02 5.82 6.06 6.05 6.01 5.86 5.95 5.96 6.03 6.30 6.39 6.32	4.28 4.14 4.42 4.31 4.16 4.08 4.15 4.21 4.28 4.49 4.53 4.43	6.01 5.75 5.82 5.84 5.76 5.76 5.76 5.83 6.03 6.20 6.39	5.25–5.25 5.50–5.25 5.75–5.50 5.75–5.75 6.00–5.75 6.25–6.00 6.25–6.25 6.75–6.50 6.75–6.75 7.00–7.00 7.25–7.00	3.25-3.25 3.50-3.25 3.75-3.50 3.75-3.75 4.00-3.75 4.25-4.00 4.25-4.25 4.50-4.25 4.75-4.75 5.00-5.00 5.25-5.00		2.28 2.50 2.63 2.79 3.00 3.04 3.26 3.50 3.62 3.78 4.00 4.16
2006: Jan Feb Mar Apr May July Aug Sept Oct Nov Dec	4.20 4.41 4.51 4.59 4.72 4.79 4.96 4.98 4.82 4.89 4.89 4.85	4.29 4.51 4.61 4.71 4.81 4.95 5.09 4.99 4.90 4.91 4.95 4.87	4.35 4.64 4.74 4.89 4.97 5.09 5.07 4.85 4.69 4.72 4.64 4.58	4.42 4.57 4.72 4.99 5.11 5.09 4.88 4.72 4.73 4.60 4.56	4.54 4.73 5.06 5.20 5.15 5.13 5.00 4.85 4.85 4.69 4.68	5.29 5.35 5.84 5.95 5.89 5.68 5.51 5.51 5.33 5.32	6.24 6.27 6.41 6.68 6.75 6.76 6.59 6.43 6.42 6.20 6.22	4.31 4.41 4.60 4.61 4.64 4.64 4.32 4.32 4.17	6.12 6.40 6.53 6.64 6.69 6.79 6.81 6.87 6.69 6.55 6.37	7.50-7.25 7.50-7.50 7.75-7.50 7.75-7.75 8.00-7.75 8.25-8.25 8.25-8.25 8.25-8.25 8.25-8.25 8.25-8.25 8.25-8.25 8.25-8.25 8.25-8.25	5.50-5.25 5.50-5.50 5.75-5.75 6.00-5.75 6.25-6.05 6.25-6.25 6.25-6.25 6.25-6.25 6.25-6.25 6.25-6.25 6.25-6.25 6.25-6.25		4.29 4.49 4.59 4.79 4.94 5.24 5.25 5.25 5.25 5.25 5.25
2007: Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec	4.96 5.02 4.96 4.87 4.77 4.63 4.83 4.34 4.01 3.96 3.49 3.08	4.93 4.96 4.90 4.87 4.80 4.77 4.85 4.56 4.13 4.08 3.63 3.29	4.79 4.75 4.51 4.60 4.69 5.00 4.82 4.34 4.06 4.01 3.35 3.13	4.76 4.72 4.56 4.69 4.75 5.10 5.00 4.67 4.52 4.53 4.15	4.85 4.82 4.72 4.87 4.90 5.20 5.11 4.93 4.79 4.77 4.52 4.53	5.40 5.39 5.47 5.47 5.79 5.73 5.79 5.74 5.66 5.44 5.49	6.34 6.28 6.27 6.39 6.70 6.65 6.65 6.59 6.48 6.40 6.65	4.29 4.21 4.18 4.32 4.37 4.64 4.64 4.73 4.57 4.41 4.45 4.22	6.35 6.31 6.22 6.21 6.22 6.54 6.70 6.73 6.58 6.55 6.42 6.21	8.25-8.25 8.25-8.25 8.25-8.25 8.25-8.25 8.25-8.25 8.25-8.25 8.25-8.25 8.25-8.25 8.25-7.75 7.75-7.50 7.50-7.50	6.25-6.25 6.25-6.25 6.25-6.25 6.25-6.25 6.25-6.25 6.25-6.25 6.25-5.75 5.75-5.25 5.25-5.00 5.00-5.00		5.25 5.26 5.25 5.25 5.25 5.25 5.26 5.02 4.94 4.76 4.49 4.24
2008: Jan Feb Mar Apr May June July Aug Sept Oct Nov	2.86 2.21 1.38 1.32 1.71 1.89 1.72 1.79 1.46 .84	2.84 2.09 1.53 1.54 1.82 2.15 1.99 1.96 1.78 1.39	2.51 2.19 1.80 2.23 2.69 3.08 2.87 2.70 2.32 1.86 1.51	3.74 3.74 3.51 3.68 3.88 4.10 4.01 3.89 3.69 3.81 3.53	4.33 4.52 4.39 4.44 4.60 4.69 4.57 4.50 4.27 4.17 4.00	5.33 5.53 5.51 5.55 5.57 5.68 5.67 5.64 5.65 6.28 6.15	6.54 6.82 6.89 6.97 6.93 7.07 7.16 7.15 7.31 8.88 9.22	4.00 4.35 4.67 4.43 4.34 4.48 4.88 4.90 5.03 5.68 5.28	6.02 5.96 5.92 5.98 6.01 6.13 6.29 6.33 6.09 6.10	7.25–6.00 6.00–6.00 6.00–5.25 5.25–5.00 5.00–5.00 5.00–5.00 5.00–5.00 5.00–5.00 5.00–5.00 4.00–4.00	4.75–3.50 3.50–2.50 2.50–2.25 2.25–2.25 2.25–2.25 2.25–2.25 2.25–2.25 2.25–2.25 2.25–2.25 2.25–1.25 1.25–1.25		3.94 2.98 2.61 2.28 1.98 2.00 2.01 2.00 1.81 .97

³ Beginning with December 7, 2001, data for corporate Aaa series are industrial bonds only.

⁴ Effective rate (in the primary market) on conventional mortgages, reflecting fees and charges as well as contract rate and assuming, on the average, repayment at end of 10 years. Rates beginning with January 1973 not strictly comparable with prior rates.

5 For monthly data, high and low for the period. Prime rate for 1929–1933 and 1947–1948 are ranges of the rate in effect during the period.

⁶ Primary credit replaced adjustment credit as the Federal Reserve's principal discount window lending program effective January 9, 2003. 7 Since July 19, 1975, the daily effective rate is an average of the rates on a given day weighted by the volume of transactions at these rates. Prior to that

date, the daily effective rate was the rate considered most representative of the day's transactions, usually the one at which most transactions occurred. 8 From October 30, 1942 to April 24, 1946, a preferential rate of 0.50 percent was in effect for advances secured by Government securities maturing in one

Sources: Department of the Treasury, Board of Governors of the Federal Reserve System, Federal Housing Finance Board, Moody's Investors Service, and Standard & Poor's.

Table B-74.—Credit market borrowing, 2000-2008

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

	. ,		, ,					
Item	2000	2001	2002	2003	2004	2005	2006	2007
NONFINANCIAL SECTORS								
Domestic	864.8	1,152.7	1,414.5	1,676.3	1,999.4	2,319.4	2,428.4	2,515.5
By instrument	864.8	1,152.7	1,414.5	1,676.3	1,999.4	2,319.4	2,428.4	2,515.5
Commercial paper Treasury securities	48.1 -294.9	-83.1 -5.1	-57.9 257.1	-37.3 398.4	15.3 362.5	-7.7 307.3	22.4 183.7	11.3 237.5
Agency- and GSE-backed securities 1	-1.0	5	.5	-2.4	6	4	3	4
Municipal securities	23.6 164.0	122.8 343.4	159.4	137.6	130.5	195.0	177.3	215.4
Corporate bonds	95.1	-87.2	133.4 -106.6	152.2 -77.0	75.5 10.8	56.7 137.6	215.6 173.4	311.2 248.9
Other loans and advances	96.6	5.6	27.6	10.2	58.1	116.1	143.4	278.3
Mortgages Home	556.6 427.2	706.2 551.8	893.1 758.6	990.2 800.9	1,232.3 1,031.0	1,420.4 1,105.5	1,408.5 1,079.5	1,077.4 707.6
Multifamily residential	26.9	40.3	37.1	71.2	48.3	72.5	54.6	98.4
Commercial Farm	105.1 -2.5	110.3 3.8	90.5 6.9	119.4 -1.3	150.3 2.7	237.8 4.6	267.0 7.5	272.6 -1.3
Consumer credit	176.5	150.7	107.9	104.4	115.0	94.5	104.4	136.0
By sector	864.8	1,152.7	1,414.5	1,676.3	1,999.4	2,319.4	2,428.4	2,515.5
Household sector Nonfinancial business	583.5 560.3	672.2 380.6	832.8 180.1	983.2 177.1	1,066.8 455.4	1,180.5 660.3	1,204.6 889.4	880.6 1,211.6
Corporate	361.9	212.7	23.1	87.1	204.8	314.5	521.1	787.0
Nonfarm noncorporate	196.4 2.0	161.5 6.4	149.8 7.1	91.6 -1.6	244.5 6.0	333.0 12.8	349.9 18.4	415.9 8.7
FarmState and local governments	16.9	105.5	144.1	120.1	115.4	171.7	151.1	186.1
Federal Government	-295.9	-5.6	257.6	396.0	361.9	306.9	183.4	237.1
Foreign borrowing in the United States	63.0 31.7	-11.2 18.3	93.4 58.8	42.4 18.3	154.7 68.7	112.6 38.2	331.3 97.1	124.3 -67.4
Commercial paper Bonds	21.2	-18.5	31.6	28.7	85.8	64.5	227.8	170.7
Bank loans n.e.c.	11.4	-7.3	5.3	-2.5	3.8	14.5	13.8	24.1
Other loans and advances	-1.3	-3.8	-2.3	-2.1	-3.6	-4.6	-7.4	-3.2
Nonfinancial domestic and foreign borrowing FINANCIAL SECTORS	927.8	1,141.5	1,507.9	1,718.7	2,154.2	2,432.0	2,759.8	2,639.7
By instrument	794.1	872.0	879.2	1.063.0	987.0	1.102.3	1.304.7	1.753.4
Open market paper	131.7	-126.9	-99.9	-62.9	22.2	214.6	1,304.7	-113.3
GSE issues 1	235.2 199.7	304.1 338.5	219.8 326.8	250.9 330.6	75.0 47.9	-84.0 167.3	35.6 295.4	282.4 626.3
Agency- and GSE-backed mortgage pool securities 1 Corporate bonds	173.0	310.1	394.2	485.6	684.4	730.7	812.7	663.3
Bank loans n.e.c.	6.9	18.7	21.1	21.4	58.1	17.0	-64.1	57.3
Other loans and advances Mortgages	42.5 4.9	25.5 2.2	6.8 11.0	31.2 8.2	74.1 25.9	44.4 13.9	21.2 7.0	233.7 5.7
By sector	794.1	872.0	879.2	1,063.0	987.0	1,102.3	1,304.7	1,753.4
Commercial banking	60.0	52.9	49.7	48.5	78.4	85.1	177.4	263.2
U.Schartered commercial banks Foreign banking offices in the United States	36.8 0.0	30.2 9	29.9 4	13.2 1	18.7 .1	36.9 .0	107.5 3	131.8 .0
Bank holding companies	23.2	23.6	20.3	35.4	59.5	48.2	70.2	131.3
Savings institutions	27.3 0.0	-2.0 1.5	-23.4 2.0	34.5 2.2	89.0 2.3	23.8 3.3	-111.9 4.2	105.2 13.4
Life insurance companies	-0.7	.6	2.0	2.9	3.0	.4	2.7	14.5
Government-sponsored enterprises	235.2 199.7	304.1 338.5	219.8 326.8	250.9 330.6	75.0 47.9	-84.0 167.3	35.6 295.4	282.4 626.3
Agency- and GSE-backed mortgage pools ¹ Asset-backed securities issuers	169.7	264.6	221.7	248.4	446.2	708.9	807.9	332.1
Finance companies	86.3	10.9	66.2	111.1	134.3	33.5	34.8	24.9
REITs ²	2.6 15.6	3.2 1.4	27.3 -1.7	31.5 6.4	98.3 15.2	59.8 .1	22.9 6.4	-3.5 -4.0
Funding corporations	-1.6	-103.6	-10.7	-2.0	-2.2	105.6	29.9	100.7
ALL SECTORS, BY INSTRUMENT								
Total	1,721.6	2,013.8	2,387.6	2,783.7	3,141.8	3,535.8	4,065.2	4,394.9
Open market paper Treasury securities	211.6 -294.9	-191.6 -5.1	-99.1 257.1	-82.0 398.4	106.2 362.5	245.1 307.3	317.1 183.7	-169.4 237.5
Agency- and GSE-backed securities 1	433.9	642.1	547.2	579.1	122.3	82.8	330.6	908.3
Municipal securities	23.6 358.2	122.8 635.0	159.4 559.2	137.6 666.5	130.5 845.7	195.0 851.9	177.3 1,256.1	215.4 1,145.2
Bank loans n.e.c.	113.3	-75.8	-80.2	-58.1	72.7	169.1	123.1	330.2
Other loans and advances	137.8 561.5	27.3 708.4	32.0 904.1	39.3 998.4	128.6 1,258.1	155.8 1,434.3	157.2 1,415.6	508.9 1,083.0
Consumer credit	176.5	150.7	107.9	104.4	115.0	94.5	104.4	136.0

¹ Government-sponsored enterprises (GSE). ² Real estate investment trusts (REITs).

See next page for continuation of table.

Table B-74.—Credit market borrowing, 2000-2008—Continued

		200	17		200	18
ltem	ı	II	III	IV	I	II
NONFINANCIAL SECTORS						
Domestic	2,373.7	2,396.7	2,780.0	2,511.3	1,726.1	1,126.
By instrument	2,373.7	2,396.7	2,780.0	2,511.3	1,726.1	1,126.
Commercial paper	18.9	40.9	-30.6	16.0	54.6	-65.0
Treasury securities	269.1	14.6	398.6	267.5	411.4 1.3	310.
Agency- and GSE-backed securities 1 Municipal securities	-1.3 247.0	238.0	8 181.5	194.9	92.3	45.
Corporate bonds	286.3	381.5	220.2	356.8	167.5	337.0
Bank loans n.e.c.	70.5	117.1	448.4	359.5	261.8	106.
Other loans and advances	226.1 1.135.4	257.3 1.212.7	391.3 986.0	238.7 975.4	84.5 520.3	36. 242.
Mortgages Home	838.1	808.3	536.0	975.4 648.1	270.2	242. 29.
Multifamily residential	65.0	95.2	108.1	125.2	70.3	65.
Commercial	233.5	310.4	343.2	203.3	176.5	144.
Farm	-1.2	-1.3 134.8	-1.3 185.4	-1.3 102.0	3.3 132.4	3.
Consumer credit	121.8					113.
By sector	2,373.7 910.8	2,396.7 950.0	2,780.0 828.2	2,511.3 833.6	1,726.1 454.3	1,126. 197.
Nonfinancial business	975.7	1.226.1	1.401.5	1,243.2	784.7	608.
Corporate	660.2	846.5	866.6	//4./	423.2	390.
Nonfarm noncorporate	300.6	377.9	530.9	454.4	331.9	191.
FarmState and local governments	14.9 219.5	1.7 206.2	4.0 152.5	14.1 166.4	29.6 74.4	25. 11.
Federal Government	267.8	14.5	397.8	268.2	412.7	310.
Foreign borrowing in the United States	184.4	292.9	3.3	16.4	280.9	72.
Commercial paper	-19.8	22.4	-193.8	-78.3	214.6	40.
Bonds	223.2	231.7	173.8	54.1	32.9	44.
Bank loans n.e.c.	-16.0 -3.0	40.7 -1.9	26.3 -3.0	45.3 -4.7	35.4 -1.9	-9. -3.
Other loans and advances	1 1					
Nonfinancial domestic and foreign borrowing	2,558.1	2,689.6	2,783.4	2,527.7	2,006.9	1,198.
FINANCIAL SECTORS	4 400 7		0.540.0	4 570 0		4.075
By instrument	1,483.7 189.5	1,443.1 293.9	2,512.9 -607.7	1,573.8 -329.1	868.6 -234.2	1,075. –230.
GSE issues ¹	66.7	161.4	556.6	344.8	119.9	655.
Agency- and GSE-backed mortgage pool securities 1	455.0	519.0	644.0	887.1	533.6	672.
Corporate bonds	748.3	422.2	1,075.5	407.2	37.1	-33.
Bank loans n.e.c	44.9 -4.9	51.1 -11.5	95.9 738.7	37.2 212.5	169.6 223.1	100. -79.
Mortgages	-15.2	9.0	12.9	16.1	19.9	-7 -7.
By sector	1.483.7	1.443.1	2.512.9	1.573.8	868.6	1.075.8
Commercial banking	91.4	162.2	481.5	317.7	229.1	299.1
U.Schartered commercial banks	9.3	37.5	340.6	139.9	92.0	9.
Foreign banking offices in the United States	-0.3 82.4	.1 124.7	6 141.5	.9 176.9	3 137.4	 290.
Bank holding companies Savings institutions	4.5	-51.9	370.7	97.5	133.0	-120.
Credit unions	-10.5	10.6	37.9	15.7	-15.2	27.
Life insurance companies	4.9	12.6	26.9	13.7	9.6	9.
Government-sponsored enterprises	66.7 455.0	161.4 519.0	556.6 644.0	344.8 887.1	119.9 533.6	655. 672.
Asset-backed securities issuers	677.9	592.8	204.2	-146.5	-255.8	-342.
Finance companies	1.9	12.6	121.1	-35.9	73.9	-39.
REITs 2	34.3 59.5	-23.0 39.9	-17.1 -29.4	-8.3	-43.0	-21.
Brokers and dealers Funding corporations	98.8	8.8	119.3	-85.9 175.8	221.3 -137.5	-21. -41.
ALL SECTORS. BY INSTRUMENT	55.5	5.0				
Total	4,042.4	4,134.7	5,299.2	4,103.5	2,876.0	2,275.
Open market paper	188.7	357.3	-832.1	-391.5	34.9	-256.
Treasury securities	269.1	14.6 680.3	398.6	267.5 1.232.7	411.4 654.8	310. 1 227
Agency- and GSE-backed securities ¹	520.4 247.0	238.0	1,199.8 181.5	1,232.7	92.3	1,327. 45.
Corporate and foreign bonds	1,257.7	1,035.4	1,469.5	818.0	237.5	348.
Bank loans n.e.c.	99.4	208.8	570.6	442.0	466.8	197.
Other loans and advances	218.1	243.9	1,127.0	446.5	305.7	-46.
Mortgages	1,120.2	1,221.7 134.8	998.9	991.5 102.0	540.3 132.4	235.

Source: Board of Governors of the Federal Reserve System.

Table B-75.—Mortgage debt outstanding by type of property and of financing, 1949–2008 [Billions of dollars]

					Nonfarm _I	properties			Nonfarm	properties	by type of m	nortgage	
			-					G	overnment	underwritte	n	Conver	tional ²
	l of year or quarter	All proper- ties	Farm proper-	Takal	1- to 4-	Multi- family	Com- mercial		1- to	4-family ho	uses		
		ties	ties	Total	family houses	proper- ties	proper- ties	Total ¹	Total	FHA- insured	VA- guar- anteed	Total	1- to 4- family houses
		62.3	5.6	56.7	37.3	8.6	10.8	17.1	15.0	6.9	8.1	39.6	22.3
1951 . 1952 . 1953 . 1954 . 1955 . 1956 . 1957 . 1958 . 1959 . 1960 . 1961 .		72.7 82.1 91.3 101.1 113.6 129.9 144.5 156.5 171.8 190.8 207.4 228.0 251.4	6.0 6.6 7.2 7.7 8.1 9.0 9.8 10.4 11.1 12.1 13.9 15.2	66.6 75.6 84.1 93.4 105.4 120.9 134.6 146.1 160.7 178.7 194.6 214.1 236.2	45.1 51.6 58.4 65.9 75.7 88.2 99.0 107.6 117.7 130.8 141.8 154.6 169.3	10.1 11.5 12.3 12.9 13.5 14.3 14.9 15.3 16.8 20.3 23.0 25.8	11.5 12.5 13.4 14.5 16.3 18.3 20.7 23.2 26.1 29.2 32.4 36.5 41.1	22.1 26.6 29.3 32.1 36.2 42.9 47.8 51.6 55.2 59.3 62.3 65.6 69.4	18.8 22.9 25.4 28.1 32.1 38.9 43.9 47.2 50.1 53.8 56.4 62.2	8.5 9.7 10.8 12.8 14.3 15.5 16.5 19.7 23.8 26.7 29.5 32.3	10.3 13.2 14.6 16.1 19.3 24.6 28.4 30.7 30.4 30.0 29.7 29.6 29.9	44.6 49.0 54.8 61.3 69.3 78.0 86.8 94.6 105.5 119.4 132.2 148.5 166.9	26.2 28.8 33.1 37.9 43.6 49.3 55.1 60.4 67.6 77.0 85.4 95.5 107.1
1963 1964 1965 1966 1967 1968 1969		278.5 305.9 333.3 356.5 381.0 410.8 441.4	16.8 18.9 21.2 23.1 25.0 27.3 29.2	261.6 287.0 312.1 333.4 356.0 383.5 412.2	186.4 203.4 220.5 232.9 247.3 264.8 283.2	29.0 33.6 37.2 40.3 43.9 47.3 52.2	46.2 50.0 54.5 60.1 64.7 71.4 76.9	73.4 77.2 81.2 84.1 88.2 93.4 100.2	65.9 69.2 73.1 76.1 79.9 84.4 90.2	35.0 38.3 42.0 44.8 47.4 50.6 54.5	30.9 30.9 31.1 31.3 32.5 33.8 35.7	188.2 209.8 231.0 249.3 267.8 290.1 312.0	120.5 134.1 147.4 156.9 167.4 180.4 193.0
1971 1972 1973 1974 1975 1976 1977		473.7 524.2 597.2 672.4 732.5 791.9 878.6 1,010.2 1,163.0 1,328.3	30.5 32.4 35.4 39.8 44.9 55.4 63.8 72.8 86.8	443.2 491.8 561.9 632.6 687.5 742.0 823.2 946.4 1,090.2 1,241.6	297.2 325.6 366.0 407.1 440.0 481.2 543.9 639.7 751.2 867.7	60.1 70.1 82.8 93.2 100.0 100.7 105.9 114.3 125.2	85.8 96.2 113.1 132.3 147.5 160.1 173.4 192.3 213.9 238.8	109.2 120.7 131.1 135.0 140.2 147.0 154.0 161.7 176.4 199.0	97.3 105.2 113.0 116.2 121.3 127.7 133.5 141.6 153.4 172.9	59.9 65.7 68.2 66.2 65.1 66.5 68.0 71.4 81.0	37.3 39.5 44.7 50.0 56.2 61.6 67.0 73.6 82.0 92.0	333.9 371.1 430.7 497.5 547.3 595.0 669.1 784.6 913.9 1,042.6	200.0 220.4 253.1 290.9 318.7 353.5 410.4 498.1 597.8 694.8
1980 1981 1982 1983 1984 1985 1986 1987		1,463.0 1,587.8 1,673.4 1,867.3 2,113.1 2,372.7 2,659.8 2,996.7 3,315.5 3,604.1	97.5 107.2 111.3 113.7 112.4 95.3 85.3 77.1 72.2 70.1	1,365.5 1,480.6 1,562.1 1,753.5 2,000.7 2,277.3 2,574.4 2,919.6 3,243.3 3,534.0	965.1 1,042.8 1,088.5 1,210.6 1,351.4 1,529.9 1,732.6 1,959.5 2,194.7 2,444.6	141.1 139.2 141.1 154.3 177.4 205.9 239.3 262.1 279.0 289.9	259.3 298.6 332.6 388.6 471.9 541.6 602.5 698.0 769.6 799.5	225.1 238.9 248.9 279.8 294.8 328.3 370.5 431.4 459.7 486.8	195.2 207.6 217.9 248.8 265.9 288.8 328.6 387.9 414.2 440.1	93.6 101.3 108.0 127.4 136.7 153.0 185.5 235.5 258.8 282.8	101.6 106.2 109.9 121.4 129.1 135.8 143.1 152.4 155.4 157.3	1,140.4 1,241.7 1,313.2 1,473.7 1,705.8 1,949.0 2,203.9 2,488.2 2,783.6 3,047.1	769.9 835.2 870.6 961.7 1,085.5 1,241.1 1,404.0 1,571.6 1,780.6 2,004.5
1991 1992 1993 1994 1995 1996 1997 1998		3,807.0 3,947.2 4,059.3 4,192.3 4,360.0 4,546.7 4,816.4 5,130.2 5,616.7 6,227.2	69.6 68.9 69.2 69.5 71.4 73.2 75.9 80.1 84.7 89.6	3,737.4 3,878.3 3,990.1 4,122.8 4,288.6 4,473.6 4,740.5 5,050.1 5,532.0 6,137.7	2,628.5 2,786.3 2,954.7 3,114.0 3,291.8 3,459.4 3,683.0 3,917.7 4,274.3 4,699.6	288.3 284.9 272.0 269.1 269.6 275.5 287.8 299.8 333.9 375.0	820.7 807.1 763.4 739.7 727.2 738.7 769.7 832.6 923.8 1,063.1	517.9 537.2 533.3 513.4 559.3 584.3 620.3 656.7 674.1 731.5	470.9 493.3 489.8 469.5 514.2 537.1 571.2 605.7 623.8 678.8	310.9 330.6 326.0 303.2 336.8 352.3 379.2 405.7 417.9 462.3	160.0 162.7 163.8 166.2 177.3 184.7 192.0 200.0 205.9 216.5	3,219.5 3,341.1 3,456.8 3,609.4 3,729.3 3,889.3 4,120.1 4,393.4 4,858.0 5,406.2	2,157.6 2,293.0 2,464.9 2,644.6 2,777.6 2,922.3 3,111.8 3,312.0 3,650.5 4,020.8
2001 2002 2003 2004 2005 2006		6,789.0 7,497.3 8,401.4 9,399.8 10,672.7 12,107.0 13,522.6 14,605.7	87.3 91.4 97.5 94.1 96.9 101.5 109.0 107.8	6,701.7 7,405.9 8,303.9 9,305.6 10,575.9 12,005.5 13,413.6 14,497.9	5,126.5 5,678.0 6,437.4 7,232.5 8,278.3 9,383.7 10,463.2 11,170.9	404.6 446.5 485.2 564.9 617.9 688.5 743.8 840.1	1,170.6 1,281.4 1,381.3 1,508.3 1,679.7 1,933.3 2,206.5 2,486.9	773.1 772.7 759.3 709.2 661.5 606.6 600.2 609.2	720.0 718.5 704.0 653.3 605.4 550.4 543.5 552.6	499.9 497.4 486.2 438.7 398.1 348.4 336.9 342.6	220.1 221.2 217.7 214.6 207.3 202.0 206.6 210.0	5,928.6 6,633.2 7,544.6 8,596.5 9,914.3 11,398.9 12,813.4 13,888.8	4,406.6 4,959.5 5,733.4 6,579.2 7,672.9 8,833.3 9,919.8 10,618.3
	 V	13,795.7 14,110.9 14,374.8 14,605.7	108.7 108.4 108.1 107.8	13,687.0 14,002.5 14,266.7 14,497.9	10,670.3 10,881.3 11,034.2 11,170.9	761.2 783.5 808.6 840.1	2,255.5 2,337.7 2,423.9 2,486.9	597.9 598.3 610.6 609.2	541.0 541.7 551.0 552.6	335.6 335.6 342.6 342.6	205.4 206.1 208.4 210.0	13,089.1 13,404.2 13,656.1 13,888.8	10,129.3 10,339.5 10,483.1 10,618.3
2008:	 p	14,736.9 14,804.1	108.6 109.4	14,628.3 14,694.6	11,239.1 11,254.1	858.9 875.1	2,530.4 2,565.4	640.7 683.9	583.8 627.2	372.3 412.2	211.5 215.0	13,987.6 14,010.8	10,655.3 10,626.9

Includes Federal Housing Administration (FHA)-insured multi-family properties, not shown separately.
 Derived figures. Total includes multi-family and commercial properties with conventional mortgages, not shown separately.

Source: Board of Governors of the Federal Reserve System, based on data from various Government and private organizations.

Table B-76.—Mortgage debt outstanding by holder, 1949–2008

[Billions of dollars]

				Major financia	al institutions		Other h	nolders
	End of year or quarter	Total	Total	Savings institutions ¹	Commercial banks ²	Life insurance companies	Federal and related agencies ³	Individuals and others ⁴
1949 .		62.3	42.9	18.3	11.6	12.9	2.0	17.5
1950 .		72.7	51.7	21.9	13.7	16.1	2.6	18.4
1951		82.1 91.3	59.5 66.9	25.5 29.8	14.7 15.9	19.3	3.3 3.9	19.3 20.4
1952		101.1	75.0	34.8	16.9	21.3 23.3	3.9 4.4	20.4
1954		113.6	85.7	41.1	18.6	26.0	4.7	23.2
		129.9	99.3	48.9	21.0	29.4	5.3	25.3
		144.5 156.5	111.2 119.7	55.5 61.2	22.7 23.3	33.0 35.2	6.2 7.7	27.1 29.1
1958		171.8	131.5	68.9	25.5	37.1	8.0	32.3
1959 .		190.8	145.5	78.1	28.1	39.2	10.2	35.1
		207.4	157.5	86.9	28.8	41.8	11.5	38.4
		228.0 251.4	172.6 192.5	98.0 111.1	30.4 34.5	44.2 46.9	12.2 12.6	43.1 46.3
1963		278.5	217.1	127.2	39.4	50.5	11.8	49.5
1964 .		305.9	241.0	141.9	44.0	55.2	12.2	52.7
		333.3 356.5	264.6 280.7	154.9 161.8	49.7 54.4	60.0 64.6	13.5 17.5	55.2 58.2
		381.0	298.6	172.3	58.9	67.4	20.9	61.4
1968.		410.8	319.7	184.3	65.5	70.0	25.1	66.1
		441.4	338.9	196.4	70.5	72.0	31.1	71.4
		473.7	355.9	208.3	73.3	74.4	38.3	79.4
		524.2 597.2	394.2 449.9	236.2 273.6	82.5 99.3	75.5 76.9	46.3 54.5	83.6 92.8
1973		672.4	505.3	305.0	119.1	81.3	64.7	102.4
1974 .		732.5	542.6	324.2	132.1	86.2	82.2	107.7
1975 .		791.9	581.2 647.5	355.8 404.6	136.2 151.3	89.2 91.6	101.1 116.7	109.6 114.4
		878.6 1.010.2	745.2	469.4	179.0	96.8	140.5	124.5
		1,163.0	848.2	528.0	214.0	106.2	170.6	144.3
1979 .		1,328.3	938.2	574.6	245.2	118.4	216.0	174.2
1980 .		1,463.0	996.8	603.1	262.7	131.1	256.8	209.4
1981.		1,587.8 1,673.4	1,040.5 1,021.3	618.5 578.1	284.2 301.3	137.7 142.0	289.4 355.4	257.9 296.7
		1.867.3	1,108.1	626.6	330.5	151.0	433.3	325.8
		2,113.1	1,247.8	709.7	381.4	156.7	490.6	374.7
		2,372.7 2,659.8	1,363.5 1,476.5	760.5 778.0	431.2 504.7	171.8 193.8	580.9 733.7	428.2 449.6
1987 .		2,996.7	1,667.6	860.5	594.8	212.4	857.9	471.2
		3,315.5	1,834.3	924.5	676.9	232.9	937.8	543.5
		3,604.1	1,935.2	910.3	770.7	254.2	1,067.3	601.6
		3,807.0 3,947.2	1,918.8 1,846.2	801.6 705.4	849.3 881.3	267.9 259.5	1,258.9 1,422.5	629.3 678.6
1992		4.059.3	1,770.4	627.9	900.5	242.0	1,558.1	730.7
1993		4,192.3	1.770.1	598.4	947.8	223.9	1,682.8	739.3
1994 .		4,360.0 4,546.7	1,824.7 1,900.1	596.2 596.8	1,012.7 1,090.2	215.8 213.1	1,788.0 1,878.7	747.3 768.0
		4,816.4	1,981.9	628.3	1,145.4	208.2	2,006.1	828.4
1997		5,130.2	2,084.0	631.8	1,245.3	206.8	2,111.4	934.7
		5,616.7	2,194.6	644.0	1,337.0	213.6	2,310.9	1,111.2
		6,227.2	2,394.3	668.1	1,495.4	230.8	2,613.3	1,219.7
2000 .		6,789.0 7,497.3	2,619.0 2,790.9	723.0 758.0	1,660.1 1,789.8	235.9 243.0	2,834.4 3,205.0	1,335.6 1,501.4
2002 .		8,401.4	2,790.9 3,089.3	781.0	2,058.3	250.0	3,592.2	1,719.9
2003.		9,399.8	3,387.3 3,926.3	870.6	2,255.8	260.9	4,022.1	1,990.4
2004 .		10,672.7 12,107.0	3,926.3 4,396.2	1,057.4 1,152.7	2,595.6 2,958.0	273.3 285.5	4,079.1 4,208.5	2,667.3 3,502.3
2006 .		13,522.6	4,780.8	1,074.0	3,403.1	303.8	4,525.9	4,215.9
2007 .		14,605.7	5,067.2	1,095.3	3,645.7	326.2	5,190.0	4,348.5
2007:	<u></u>	13,795.7	4,810.1	1,117.3	3,386.4	306.4	4,649.6	4,336.0
		14,110.9	4,897.3	1,112.8	3,472.1	312.3	4,778.0	4,435.6
	III	14,374.8 14,605.7	4,989.3 5,067.2	1,146.9 1,095.3	3,525.1 3,645.7	317.3 326.2	4,955.9 5,190.0	4,429.7 4,348.5
2008-	1	14,736.9	5,129.1	1,111.9	3,686.0	331.3	5.344.5	4.263.3
2000.	<i>p</i>	14,804.1	5,113.6	1,115.6	3,662.2	335.8	5,517.8	4,172.7

¹ Includes savings banks and savings and loan associations. Data reported by Federal Savings and Loan Insurance Corporation—insured institutions include loans in process for 1987 and exclude loans in process beginning with 1988.

Source: Board of Governors of the Federal Reserve System, based on data from various Government and private organizations.

loans in process for 1987 and exclude loans in process beginning with 1988.

Includes loans held by nondeposit trust companies but not loans held by bank trust departments.

Includes Government National Mortgage Association (GNMA or Ginnie Mae), Federal Housing Administration, Veterans Administration, Farmers Home Administration (FinlA), Federal Deposit Insurance Corporation, Resolution Trust Corporation (through 1995), and in earlier years Reconstruction Finance Corporation, Homeowners Loan Corporation, Federal Farm Mortgage Corporation, and Public Housing Administration. Also includes U.S.-sponsored agencies such as Federal National Mortgage Association (FMLMC or Freddie Mac), Federal Land Banks, Federal Home Loan Mortgage Corporation (FHLMC or Freddie Mac), Federal Agricultural Mortgage Corporation (FHLMC or Freddie Mac), Federal Home Loan Banks (beginning 1997), and mortgage pass-through securities issued or guaranteed by GNMA, FHLMC, FNMA, FmHA, or Farmer Mac. Other U.S. agencies (amounts small or current separate data not readily available) included with "individuals and others."

⁴ Includes private mortgage pools.

Table B-77.—Consumer credit outstanding, 1959-2008

[Amount outstanding (end of month); millions of dollars, seasonally adjusted]

Year and month	Total consumer credit ¹	Revolving	Nonrevolving ²
December:			
1959	56,010.68		56,010.68
1960	60,025.31		60,025.31
1961 1962	62,248.53 68,126.72		62,248.53 68,126.72
1963	76.581.45		76,581.45
1964	85,959.57		85,959.57
1965 1966	95,954.72 101,788.22		95,954.72 101,788.22
1967	106,842.64		106,842.64
1968	117,399.09	2,041.54	115,357.55
1969	127,156.18	3,604.84	123,551.35
1970	131,551.55 146,930.18 166,189.10	4,961.46	126,590.09
1971 1972	145,930.18 166 189 10	8,245.33 9,379.24	138,684.84 156,809.86
1973	190,086.31	11,342.22	178,744.09
1974	198,917.84	13,241.26	185,676.58
1975 1976	204,002.00 225,721.59	14,495.27 16,489.05	189,506.73 209,232.54
1977	260,562.70 306,100.39	37,414.82 45,690.95	223,147.88
1978	306,100.39	45,690.95	260,409.43
1979	348,589.11	53,596.43	294,992.67
1980 1981	351,920.05 371,301.44	54,970.05 60,928.00	296,950.00 310,373.44
1982	389,848.74	66,348.30	323,500.44
1983	437,068.86 517,278.98	79,027.25 100,385.63	358,041.61
1984 1985	517,278.98 599,711.23	100,385.63 124,465.80	416,893.35 475,245.43
1986	654.750.24	141,068.15	513,682.08
1987	686,318.77	160,853.91	525,464.86
1988 3	731,917.76	184,593.12	547,324.64
1989	794,612.18	211,229.83	583,382.34
1990 1991	808,230.57 798,028.97	238,642.62 263,768.55	569,587.95 534,260.42
1992	806,118.69	278,449.67	527,669.02
1993	865,650.58	309,908.02	555,742.56
1994 1995	997,301.74 1,140,744.36	365,569.56 443,920.09	631,732.19 696,824.27
1996	1,253,437.09 1,324,757.33	507.516.57	745,920.52
1997 1998	1,324,757.33 1,420,996.44	540,005.56 581,414.78	784,751.77 839,581.66
1999	1,532,390.04	610,670.39	921,719.65
2000		683,679.12	1,033,973.28
2001	1,717,652.40 1,867,298.01 1,974,349.73	716.592.27	1.150.705.74
2002 2003	1,9/4,349.73 2,078,257.58	748,837.90 770,364.41	1,225,511.83 1,307,893.18
2004	2,191,612.48	770,304.41	1,391,844.32
2005	2,285,159.79	824,468.62	1,460,691.18
2006 2007	2,387,690.52 2,519,020.02	874,620.51 939,515.16	1,513,070.01 1,579,504.86
2007: Jan	2,392,788.36	876,630.35	1,516,158.01
Feb	2,403,133.86	881,255.52	1,521,878.34
Mar	2,417,041.87	888,700.09	1,528,341.78
Apr	2,421,816.55 2,438,951.37	889,789.77	1,532,026.79
May June	2,449,501.41	898,790.45 903.255.47	1,540,160.92 1,546,245.93
July	2.462.055.98	903,255.47 910,097.64	1.551.958.34
Aug	2,480,943.75	917,150.00	1,563,793.75
Sept Oct	2,493,520.04 2,501,056.39	921,882.99 929,246.01	1,571,637.05 1,571,810.38
Nov	2,513,773.66	936,078.58	1,577,695.08
Dec	2,519,020.02	939,515.16	1,579,504.86
2008: Jan	2,526,023.35	945,772.76	1,580,250.59
Feb Mar	2,536,911.50 2,549,099.07	951,402.91 957,385.76	1,585,508.59 1,591,713.30
Apr	2.558.845.12	957.322.87	1,601,522.26
May	2,565,446.04 2,574,033.06	962,935.39	1,602,510.64
July	2,5/4,033.06 2,581,359.72	965,672.51 971,775.88	1,608,360.55 1,609,583.84
Aug	2,574,925.34	973,773.28	1,601,152.06
Sept	2,581,655.83	976,254.67	1,605,401.16
Oct P	2,578,120.53	976,073.12	1,602,047.41

¹ Covers most short- and intermediate-term credit extended to individuals. Credit secured by real estate is excluded.

Source: Board of Governors of the Federal Reserve System.

Obversions since and interinellate-rein creamed a minimularist content secure up real estate is excluded.
2 Includes automobile loans and all other loans not included in revolving credit, such as loans for mobile homes, education, boats, trailers, or vacations.
These loans may be secured or unsecured. Beginning with 1977, includes student loans extended by the Federal Government and by SLM Holding Corporation.
3 Data newly available in January 1989 result in breaks in these series between December 1988 and subsequent months.

GOVERNMENT FINANCE

Table B-78.—Federal receipts, outlays, surplus or deficit, and debt, fiscal years, 1940-2009 [Billions of dollars; fiscal years]

		Total		,	On-budget		,	Off-budget		Federa (end of	Il debt period)	Adden-
Fiscal year or period	Receipts	Outlays	Surplus or deficit (–)	Receipts	Outlays	Surplus or deficit (–)	Receipts	Outlays	Surplus or deficit (–)	Gross Federal	Held by the public	dum: Gross domestic product
1940 1941 1942 1943 1944 1945 1946 1947 1948	6.5 8.7 14.6 24.0 43.7 45.2 39.3 38.5 41.6 39.4	9.5 13.7 35.1 78.6 91.3 92.7 55.2 34.5 29.8 38.8	-2.9 -4.9 -20.5 -54.6 -47.6 -47.6 -15.9 4.0 11.8	6.0 8.0 13.7 22.9 42.5 43.8 38.1 37.1 39.9 37.7	9.5 13.6 35.1 78.5 91.2 92.6 55.0 34.2 29.4 38.4	-3.5 -5.6 -21.3 -55.6 -48.7 -48.7 -17.0 2.9 10.5 7	0.6 .7 .9 1.1 1.3 1.3 1.2 1.5 1.6	-0.0 .0 .1 .1 .1 .1 .2 .3 .4	0.6 .7 .8 1.0 1.2 1.2 1.0 1.2 1.3	50.7 57.5 79.2 142.6 204.1 260.1 271.0 257.1 252.0 252.6	42.8 48.2 67.8 127.8 184.8 235.2 241.9 224.3 216.3 214.3	96.8 114.1 144.3 180.3 209.2 221.4 222.7 233.2 256.0 271.1
1950 1951 1952 1953 1954 1955 1956 1957 1958	39.4 51.6 66.2 69.6 69.7 65.5 74.6 80.0 79.6	42.6 45.5 67.7 76.1 70.9 68.4 70.6 76.6 82.4 92.1	-3.1 6.1 -1.5 -6.5 -1.2 -3.0 3.9 3.4 -2.8 -12.8	37.3 48.5 62.6 65.5 65.1 60.4 68.2 73.2 71.6 71.0	42.0 44.2 66.0 73.8 67.9 64.5 65.7 70.6 74.9 83.1	-4.7 4.3 -3.4 -8.3 -2.8 -4.1 2.5 2.6 -3.3 -12.1	2.1 3.1 3.6 4.1 4.6 5.1 6.4 6.8 8.0 8.3	.5 1.3 1.7 2.3 2.9 4.0 5.0 6.0 7.5 9.0	1.6 1.8 1.9 1.8 1.7 1.1 1.5 .8 .5	256.9 255.3 259.1 266.0 270.8 274.4 272.7 272.3 279.7 287.5	219.0 214.3 214.8 218.4 224.5 226.6 222.2 219.3 226.3 234.7	273.0 320.6 348.6 372.9 377.3 394.6 427.2 450.3 460.5 491.5
1960 1961 1962 1963 1964 1965 1966 1967 1967	92.5 94.4 99.7 106.6 112.6 116.8 130.8 148.8 153.0 186.9	92.2 97.7 106.8 111.3 118.5 118.2 134.5 157.5 178.1 183.6	.3 -3.3 -7.1 -4.8 -5.9 -1.4 -3.7 -8.6 -25.2 3.2	81.9 82.3 87.4 92.4 96.2 100.1 111.7 124.4 128.1 157.9	81.3 86.0 93.3 96.4 102.8 101.7 114.8 137.0 155.8 158.4	.5 -3.8 -5.9 -4.0 -6.5 -1.6 -3.1 -12.6 -27.7 5	10.6 12.1 12.3 14.2 16.4 16.7 19.1 24.4 24.9 29.0	10.9 11.7 13.5 15.0 15.7 16.5 19.7 20.4 22.3 25.2	-2 .4 -1.3 8 .6 .2 6 4.0 2.6 3.7	290.5 292.6 302.9 310.3 316.1 322.3 328.5 340.4 368.7 365.8	236.8 238.4 248.0 254.0 256.8 260.8 263.7 266.6 289.5 278.1	517.9 530.8 567.6 598.7 640.4 687.1 752.9 811.8 866.6 948.6
1970 1971 1972 1973 1974 1975 1976 <i>Transition quarter</i> 1977 1978 1979	192.8 187.1 207.3 230.8 263.2 279.1 298.1 355.6 399.6 463.3	195.6 210.2 230.7 245.7 269.4 332.3 371.8 96.0 409.2 458.7 504.0	-2.8 -23.0 -23.4 -14.9 -6.1 -53.2 -73.7 -14.7 -53.7 -59.2 -40.7	159.3 151.3 167.4 184.7 209.3 216.6 231.7 63.2 278.7 314.2 365.3	168.0 177.3 193.5 200.0 216.5 270.8 301.1 77.3 328.7 369.6 404.9	-8.7 -26.1 -26.1 -15.2 -7.2 -54.1 -69.4 -14.1 -49.9 -55.4 -39.6	33.5 35.8 39.9 46.1 53.9 62.5 66.4 18.0 76.8 85.4 98.0	27.6 32.8 37.2 45.7 52.9 61.6 70.7 18.7 80.5 89.2	5.9 3.0 2.7 .3 1.1 .9 -4.3 7 -3.7 -3.8 -1.1	380.9 408.2 435.9 466.3 483.9 541.9 629.0 643.6 706.4 776.6 829.5	283.2 303.0 322.4 340.9 343.7 394.7 477.4 495.5 549.1 607.1 640.3	1,012.2 1,079.9 1,178.3 1,307.6 1,439.3 1,560.7 1,736.5 456.7 1,974.3 2,217.0 2,500.7
1980 1981 1982 1983 1984 1985 1986 1987 1988	517.1 599.3 617.8 600.6 666.5 734.1 769.2 854.4 909.3 991.2	590.9 678.2 745.7 808.4 851.9 946.4 990.4 1,004.1 1,064.5 1,143.8	-73.8 -79.0 -128.0 -207.8 -185.4 -212.3 -221.2 -149.7 -155.2 -152.6	403.9 469.1 474.3 453.2 500.4 547.9 569.0 641.0 667.8 727.5	477.0 543.0 594.9 660.9 685.7 769.4 806.9 809.3 860.1 932.9	-73.1 -73.9 -120.6 -207.7 -185.3 -221.5 -237.9 -168.4 -192.3 -205.4	113.2 130.2 143.5 147.3 166.1 186.2 200.2 213.4 241.5 263.7	113.9 135.3 150.9 147.4 166.2 176.9 183.5 194.8 204.4 210.9	7 -5.1 -7.4 1 1 9.2 16.7 18.6 37.1 52.8	909.0 994.8 1,137.3 1,371.7 1,564.6 1,817.4 2,120.5 2,346.0 2,601.1 2,867.8	711.9 789.4 924.6 1,137.3 1,307.0 1,507.3 1,740.6 1,889.8 2,051.6 2,190.7	2,726.7 3,054.7 3,227.6 3,440.7 3,840.2 4,141.5 4,412.4 4,647.1 5,008.6 5,400.5
1990 1991 1992 1993 1994 1995 1996 1996 1998	1,032.1 1,055.1 1,091.3 1,154.5 1,258.7 1,351.9 1,453.2 1,579.4 1,722.0 1,827.6	1,253.1 1,324.3 1,381.6 1,409.5 1,461.9 1,515.9 1,560.6 1,601.3 1,652.7 1,702.0	-221.0 -269.2 -290.3 -255.1 -203.2 -164.0 -107.4 -21.9 69.3 125.6	750.4 761.2 788.9 842.5 923.7 1,000.9 1,085.7 1,187.4 1,306.2	1,028.1 1,082.6 1,129.3 1,142.9 1,182.5 1,227.2 1,259.7 1,36.1 1,381.3	-277.6 -321.4 -340.4 -300.4 -258.8 -226.4 -174.0 -103.2 -29.9 1.9	281.7 293.9 302.4 311.9 335.0 351.1 367.5 392.0 415.8 444.5	225.1 241.7 252.3 266.6 279.4 288.7 300.9 310.6 316.6 320.8	56.6 52.2 50.1 45.3 55.7 62.4 66.6 81.4 99.2 123.7	3,206.3 3,598.2 4,001.8 4,351.0 4,643.3 4,920.6 5,181.5 5,369.2 5,478.2 5,605.5	2,411.6 2,689.0 2,999.7 3,248.4 3,433.1 3,604.4 3,734.1 3,772.3 3,721.1 3,632.4	5,735.4 5,935.1 6,239.9 6,575.5 6,961.3 7,325.8 7,694.1 8,182.4 8,627.9 9,125.3
2000 2001 2002 2003 2004 2005 2006 2006 2007 2008 (estimates) 1 2009 (estimates) 1	2,025.5 1,991.4 1,853.4 1,782.5 1,880.3 2,153.9 2,407.3 2,568.2 2,552.9 2,651.4	1,789.2 1,863.2 2,011.2 2,160.1 2,293.0 2,472.2 2,655.4 2,730.2 2,942.4 3,133.2	236.2 128.2 -157.8 -377.6 -412.7 -318.3 -248.2 -162.0 -389.4 -481.8	1,544.9 1,483.9 1,338.1 1,258.7 1,345.5 1,576.4 1,798.9 1,933.2 1,896.1 1,969.0	1,458.5 1,516.4 1,655.5 1,797.1 1,913.5 2,070.0 2,233.4 2,276.6 2,469.8 2,631.7	86.4 -32.4 -317.4 -538.4 -568.0 -493.6 -434.5 -343.5 -573.7 -662.7	480.6 507.5 515.3 523.8 534.7 577.5 608.4 635.1 656.8 682.4	330.8 346.8 355.7 363.0 379.5 402.2 422.1 453.6 472.6 501.5	149.8 160.7 159.7 160.8 155.2 175.3 186.3 181.5 184.2 180.9	5,628.7 5,769.9 6,198.4 6,760.0 7,354.7 7,905.3 8,451.4 8,950.7 9,623.4 10,438.4	3,409.8 3,319.6 3,540.4 3,913.4 4,295.5 4,592.2 4,829.0 5,035.1 5,420.5 5,958.2	9,709.8 10,057.9 10,377.4 10,808.6 11,499.9 12,237.9 13,015.5 13,670.9 14,247.8 14,822.2

¹ Estimates from *Mid-Session Review*, Budget of the U.S. Government, Fiscal Year 2009, issued July 2008.

Sources: Department of Commerce (Bureau of Economic Analysis), Department of the Treasury, and Office of Management and Budget.

Note.—Fiscal years through 1976 were on a July 1—June 30 basis; beginning with October 1976 (fiscal year 1977), the fiscal year is on an October 1—September 30 basis. The transition quarter is the three-month period from July 1, 1976 through September 30, 1976.

See Budget of the United States Government, Fiscal Year 2009, for additional information.

Table B-79.—Federal receipts, outlays, surplus or deficit, and debt, as percent of gross domestic product, fiscal years 1934-2009

[Percent; fiscal years]

		Outl	ays	Surplus or	Federal debt (end of period)
Fiscal year or period	Receipts	Total	National defense	deficit (-)	Gross Federal	Held by public
1934	4.8	10.7		-5.9		
1935	5.2	9.2		-4.0		
1936 1937	5.0 6.1	10.5 8.6		-5.5 -2.5		
1938	7.6	7.7		1		
1939	7.1	10.3		-3.2	54.2	46.6
1940	6.8	9.8	1.7	-3.0	52.4	44.2
1941	7.6	12.0	5.6	-4.3	50.4	42.3
1942 1943	10.1 13.3	24.3 43.6	17.8 37.0	-14.2 -30.3	54.9 79.1	47.I 70.!
944	20.9	43.6	37.8	-30.3 -22.7	97.6	88.
945	20.4	41.9	37.5	-21.5	117.5	106.
946	17.6	24.8	19.2	-7.2	121.7	108.
947	16.5 16.2	14.8 11.6	5.5 3.6	1.7 4.6	110.3 98.4	96. 84.
949	14.5	14.3	4.9	.2	93.2	79.
950	14.4	15.6	5.0	-1.1	94.1	80.
951	16.1	14.2	7.4	1.9	79.6	66.
952	19.0	19.4	13.2	4	74.3	61.
953 954	18.7 18.5	20.4 18.8	14.2 13.1	-1.7 3	71.3 71.8	58. 59.
955	16.6	17.3	10.8	3 8	69.5	59. 57.
956	17.5	16.5	10.0	.9	63.8	52.
957	17.8	17.0	10.1	.8	60.5	48.
958 959	17.3 16.1	17.9 18.7	10.2 10.0	6 -2.6	60.7 58.5	49. 47.
960	17.9	17.8	9.3	-2.0	56.1	47.
961	17.8	18.4	9.3	6	55.1	45. 44.
962	17.6	18.8	9.2	-1.3	53.4	43.
963	17.8	18.6	8.9	8	51.8	42.
964	17.6 17.0	18.5 17.2	8.6 7.4	9 2	49.4 46.9	40.
965 966	17.0	17.2	7.4	2 5	43.6	38. 35.
967	18.3	19.4	8.8	-1.1	41.9	32.
968	17.7	20.6	9.5	-2.9	42.5	33.
969	19.7	19.4	8.7	.3	38.6	29.
970	19.0	19.3	8.1	3	37.6	28.
971 972	17.3 17.6	19.5 19.6	7.3 6.7	-2.1 -2.0	37.8 37.0	28. 27.
973	17.0	18.8	5.9	-2.0 -1.1	35.7	26.
974	18.3	18.7	5.5	4	33.6	23.
975	17.9	21.3	5.5	-3.4	34.7	25.
976 ransition quarter	17.2 17.8	21.4 21.0	5.2 4.9	-4.2 -3.2	36.2 35.2	27. 27.
977	18.0	20.7	4.9	-2.7	35.8	27.
978	18.0	20.7	4.7	-2.7	35.0	27.
979	18.5	20.2	4.7	-1.6	33.2	25.
980	19.0	21.7	4.9	-2.7	33.3	26.
981 982	19.6 19.1	22.2 23.1	5.2 5.7	-2.6 -4.0	32.6 35.2	25. 28.
983	17.5	23.5	6.1	-6.0	39.9	33.
984	17.4	22.2	5.9	-4.8	40.7	34.
985 986	17.7 17.4	22.9 22.4	6.1 6.2	-5.1 -5.0	43.9 48.1	36. 39.
987	18.4	21.6	6.1	-5.0 -3.2	50.5	39. 40.
988	18.2	21.3	5.8	-3.1	51.9	41.
989	18.4	21.2	5.6	-2.8	53.1	40.
990	18.0	21.8	5.2	-3.9	55.9	42.
991	17.8	22.3	4.6	-4.5	60.6	45.
992 993	17.5 17.6	22.1 21.4	4.8 4.4	-4.7 -3.9	64.1 66.2	48. 49.
994	18.1	21.0	4.0	-2.9	66.7	49.
995	18.5	20.7	3.7	-2.2	67.2	49.
996	18.9	20.3	3.5	-1.4	67.3	48.
997 998	19.3 20.0	19.6 19.2	3.3 3.1	3 .8	65.6 63.5	46. 43.
399	20.0	18.7	3.0	1.4	61.4	43. 39.
000	20.9	18.4	3.0	2.4	58.0	35.
001	19.8	18.5	3.0	1.3	57.4	33.
002	17.9	19.4	3.4	-1.5	59.7	34.
003	16.5	20.0	3.7	-3.5	62.5	36.
004 005	16.4 17.6	19.9	4.0 4.0	-3.6	64.0 64.6	37. 37
006	18.5	20.2 20.4	4.0 4.0	-3.6 -2.6 -1.9	64.9	37. 37.
007	18.8	20.4	4.0	-1.2	65.5	36.
008 (estimates)	17.9	20.7	4.3	-2.7	67.5	38.
009 (estimates)	17.9	21.1	4.6	-3.3	70.4	40.

Note.—See footnote 1 and Note, Table B–78.

Sources: Department of the Treasury and Office of Management and Budget.

Table B-80.—Federal receipts and outlays, by major category, and surplus or deficit, fiscal years 1940-2009

[Billions of dollars; fiscal years]

						Surplus										
Fiscal year or period	Total	Indi- vidual income taxes	Corpo- ration income taxes	Social insur- ance and retire- ment receipts	Other	Total		Depart- ment of Defense, military	Inter- na- tional affairs	Health	Medi- care	In- come secu- rity	Social secu- rity	Net inter- est	Other	or deficit () (on- budget and off- budget)
1940 1941 1942 1943 1944 1945 1946 1947 1948	6.5 8.7 14.6 24.0 43.7 45.2 39.3 38.5 41.6 39.4	0.9 1.3 3.3 6.5 19.7 18.4 16.1 17.9 19.3 15.6	1.2 2.1 4.7 9.6 14.8 16.0 11.9 8.6 9.7	1.8 1.9 2.5 3.0 3.5 3.5 3.1 3.4 3.8	2.7 3.3 4.2 4.9 5.7 7.3 8.2 8.5 8.8 8.9	9.5 13.7 35.1 78.6 91.3 92.7 55.2 34.5 29.8 38.8	1.7 6.4 25.7 66.7 79.1 83.0 42.7 12.8 9.1 13.2		0.1 .1 1.0 1.3 1.4 1.9 1.9 5.8 4.6 6.1	0.1 .1 .1 .2 .2 .2 .2 .2		1.5 1.9 1.8 1.7 1.5 1.1 2.4 2.8 2.5 3.2	0.0 .1 .1 .2 .2 .3 .4 .5 .6	0.9 .9 1.1 1.5 2.2 3.1 4.1 4.2 4.3 4.5	5.3 4.1 5.4 7.0 6.6 3.1 3.6 8.2 8.5 11.1	-2.9 -4.9 -20.5 -54.6 -47.6 -47.6 -15.9 4.0 11.8
1950	39.4 51.6 66.2 69.6 69.7 65.5 74.6 80.0 79.6 79.2	15.8 21.6 27.9 29.8 29.5 28.7 32.2 35.6 34.7 36.7	10.4 14.1 21.2 21.2 21.1 17.9 20.9 21.2 20.1 17.3	4.3 5.7 6.4 6.8 7.2 7.9 9.3 10.0 11.2	8.9 10.2 10.6 11.7 11.9 11.0 12.2 13.2 13.6 13.5	42.6 45.5 67.7 76.1 70.9 68.4 70.6 76.6 82.4 92.1	13.7 23.6 46.1 52.8 49.3 42.7 42.5 45.4 46.8 49.0		4.7 3.6 2.7 2.1 1.6 2.2 2.4 3.1 3.4 3.1	.3 .3 .3 .3 .3 .4 .5 .5		4.1 3.4 3.7 3.8 4.4 5.1 4.7 5.4 7.5 8.2	.8 1.6 2.1 2.7 3.4 4.4 5.5 6.7 8.2 9.7	4.8 4.7 4.7 5.2 4.8 4.9 5.1 5.4 5.6 5.8	14.2 8.4 8.1 9.1 7.1 8.9 10.1 10.3 15.5	-3.1 6.1 -1.5 -6.5 -1.2 -3.0 3.9 3.4 -2.8 -12.8
1960 1961 1962 1963 1964 1965 1966 1967 1967	92.5 94.4 99.7 106.6 112.6 116.8 130.8 148.8 153.0 186.9	40.7 41.3 45.6 47.6 48.7 48.8 55.4 61.5 68.7 87.2	21.5 21.0 20.5 21.6 23.5 25.5 30.1 34.0 28.7 36.7	14.7 16.4 17.0 19.8 22.0 22.2 25.5 32.6 33.9 39.0	15.6 15.7 16.5 17.6 18.5 20.3 19.8 20.7 21.7 23.9	92.2 97.7 106.8 111.3 118.5 118.2 134.5 157.5 178.1 183.6	48.1 49.6 52.3 53.4 54.8 50.6 58.1 71.4 81.9 82.5	50.1 51.1 52.6 48.8 56.6 70.1 80.4 80.8	3.0 3.2 5.6 5.3 4.9 5.6 5.6 5.3 4.6	.8 .9 1.2 1.5 1.8 1.8 2.5 3.4 4.4 5.2	0.1 2.7 4.6 5.7	7.4 9.7 9.2 9.3 9.7 9.5 9.7 10.3 11.8 13.1	11.6 12.5 14.4 15.8 16.6 17.5 20.7 21.7 23.9 27.3	6.9 6.7 6.9 7.7 8.2 8.6 9.4 10.3 11.1 12.7	14.4 15.2 17.2 18.3 22.6 25.0 28.5 32.1 35.1 32.6	.3 -3.3 -7.1 -4.8 -5.9 -1.4 -3.7 -8.6 -25.2 3.2
1970 1971 1972 1973 1974 1975 1976 <i>Transition quarter</i> 1977	192.8 187.1 207.3 230.8 263.2 279.1 298.1 81.2 355.6 399.6 463.3	90.4 86.2 94.7 103.2 119.0 122.4 131.6 38.8 157.6 181.0 217.8	32.8 26.8 32.2 36.2 38.6 40.6 41.4 8.5 54.9 60.0 65.7	44.4 47.3 52.6 63.1 75.1 84.5 90.8 25.2 106.5 121.0 138.9	25.2 26.8 27.8 28.3 30.6 31.5 34.3 8.8 36.6 37.7 40.8	195.6 210.2 230.7 245.7 269.4 332.3 371.8 96.0 409.2 458.7 504.0	81.7 78.9 79.2 76.7 79.3 86.5 89.6 22.3 97.2 104.5 116.3	80.1 77.5 77.6 75.0 77.9 84.9 87.9 21.8 95.1 102.3 113.6	4.3 4.2 4.8 4.1 5.7 7.1 6.4 2.5 6.4 7.5	5.9 6.8 8.7 9.4 10.7 12.9 15.7 3.9 17.3 18.5 20.5	6.2 6.6 7.5 8.1 9.6 12.9 15.8 4.3 19.3 22.8 26.5	15.7 22.9 27.7 28.3 33.7 50.2 60.8 15.0 61.1 61.5 66.4	30.3 35.9 40.2 49.1 55.9 64.7 73.9 19.8 85.1 93.9 104.1	14.4 14.8 15.5 17.3 21.4 23.2 26.7 6.9 29.9 35.5 42.6	37.2 40.0 47.3 52.8 52.9 74.8 82.7 21.4 93.0 114.7 120.2	-2.8 -23.0 -23.4 -14.9 -6.1 -53.2 -73.7 -14.7 -53.7 -59.2 -40.7
1980	517.1 599.3 617.8 600.6 666.5 734.1 769.2 854.4 909.3 991.2	244.1 285.9 297.7 288.9 298.4 334.5 349.0 392.6 401.2 445.7	64.6 61.1 49.2 37.0 56.9 61.3 63.1 83.9 94.5	157.8 182.7 201.5 209.0 239.4 265.2 283.9 303.3 334.3 359.4	50.6 69.5 69.3 65.6 71.8 73.1 73.2 74.6 79.3 82.8	590.9 678.2 745.7 808.4 851.9 946.4 990.4 1,004.1 1,064.5 1,143.8	134.0 157.5 185.3 209.9 227.4 252.7 273.4 282.0 290.4 303.6	130.9 153.9 180.7 204.4 220.9 245.1 265.4 273.9 281.9 294.8	12.7 13.1 12.3 11.8 15.9 16.2 14.2 11.6 10.5 9.6	23.2 26.9 27.4 28.6 30.4 33.5 35.9 40.0 44.5 48.4	32.1 39.1 46.6 52.6 57.5 65.8 70.2 75.1 78.9 85.0	86.6 100.3 108.2 123.0 113.4 129.0 120.6 124.1 130.4 137.4	118.5 139.6 156.0 170.7 178.2 188.6 198.8 207.4 219.3 232.5	52.5 68.8 85.0 89.8 111.1 129.5 136.0 138.6 151.8 169.0	131.3 133.0 125.0 121.8 117.9 131.0 141.4 125.3 138.8 158.4	-73.8 -79.0 -128.0 -207.8 -185.4 -212.3 -221.2 -149.7 -155.2 -152.6
1990	1,032.1 1,055.1 1,091.3 1,154.5 1,258.7 1,351.9 1,453.2 1,579.4 1,722.0 1,827.6	466.9 467.8 476.0 509.7 543.1 590.2 656.4 737.5 828.6 879.5	93.5 98.1 100.3 117.5 140.4 157.0 171.8 182.3 188.7 184.7	380.0 396.0 413.7 428.3 461.5 484.5 509.4 539.4 571.8 611.8	91.7 93.2 101.4 99.0 113.8 120.2 115.5 120.3	1,253.1 1,324.3 1,381.6 1,409.5 1,461.9 1,515.9 1,560.6 1,601.3 1,652.7 1,702.0	299.3 273.3 298.4 291.1 281.6 272.1 265.8 270.5 268.2 274.8	289.7 262.3 286.8 278.5 268.6 259.4 253.1 258.3 255.8 261.2	13.8 15.9 16.1 17.2 17.1 16.4 13.5 15.2 13.1 15.2	57.7 71.2 89.5 99.4 107.1 115.4 119.4 123.8 131.4 141.1	98.1 104.5 119.0 130.6 144.7 159.9 174.2 190.0 192.8 190.4	148.7 172.5 199.6 210.0 217.2 223.8 229.7 235.0 237.8 242.5	248.6 269.0 287.6 304.6 319.6 335.8 349.7 365.3 379.2 390.0	184.3 194.4 199.3 198.7 202.9 232.1 241.1 244.0 241.1 229.8	202.6 223.6 172.2 158.0 171.7 160.3 167.3 157.4 189.0 218.2	-221.0 -269.2 -290.3 -255.1 -203.2 -164.0 -107.4 -21.9 69.3 125.6
2001	1,853.4 1,782.5 1,880.3 2,153.9 2,407.3 2,568.2 2,523.9	1,004.5 994.3 858.3 793.7 809.0 927.2 1,043.9 1,163.5 1,145.7 1,250.4	207.3 151.1 148.0 131.8 189.4 278.3 353.9 370.2 304.3 304.1	652.9 694.0 700.8 713.0 733.4 794.1 837.8 869.6 900.4 931.5	171.6 164.9 173.4	1,789.2 1,863.2 2,011.2 2,160.1 2,293.0 2,472.2 2,655.4 2,730.2 2,978.7 3,133.2	294.4 304.8 348.5 404.8 455.8 495.3 521.8 552.6 624.1 682.1	281.1 290.2 331.9 387.2 436.5 474.1 499.3 529.8 594.7 656.7	17.2 16.5 22.4 21.2 26.9 34.6 29.5 28.5 28.8 39.9	154.5 172.3 196.5 219.6 240.1 250.6 252.8 266.4 280.6 301.4	197.1 217.4 230.9 249.4 269.4 298.6 329.9 375.4 390.8 411.9	253.7 269.8 312.7 334.6 333.1 345.8 352.5 366.0 432.7 431.3	409.4 433.0 456.0 474.7 495.5 523.3 548.5 586.2 617.0 656.1	222.9 206.2 170.9 153.1 160.2 184.0 226.6 237.1 248.9 228.0	239.9 243.4 273.3 302.7 311.9 339.9 393.8 318.1 355.7 382.5	236.2 128.2 -157.8 -377.6 -412.7 -318.3 -248.2 -162.0 -454.8 -481.8

Note.—See Note, Table B-78.

Sources: Department of the Treasury and Office of Management and Budget.

¹ Estimates from *Final Monthly Treasury Statement*, issued October 2008. ² Estimates from *Mid-Session Review*, Budget of the U.S. Government, Fiscal Year 2009, issued July 2008.

Table B–81.—Federal receipts, outlays, surplus or deficit, and debt, fiscal years 2003–2008 [Millions of dollars; fiscal years]

<u> </u>						
Description			Actual			Estimates ¹
Description	2003	2004	2005	2006	2007	2008
RECEIPTS, OUTLAYS, AND SURPLUS OR DEFICIT						
Total:	4 700 500	4 000 070	0.450.050	0.407.054	0.500.000	0.500.050
Receipts Outlays	1,782,532 2,160,117	1,880,279 2,293,006	2,153,859 2,472,205	2,407,254 2,655,435	2,568,239 2.730.241	2,523,858 2,978,664
Surplus or deficit (–)	-377,585	-412,727	-318,346	-248,181	-162,002	-454,806
On-budget: Receipts	1,258,690	1,345,534	1,576,383	1,798,872	1.933.150	1,865,813
Outlays	1,797,108	1,913,495	2,069,994	2,233,366	2,276,604	2,503,903
Surplus or deficit (–)	-538,418	-567,961	-493,611	-434,494	-343,454	-638,090
Off-budget: Receipts	523,842	534,745	577,476	608.382	635,089	658,045
Outlays	363,009	379,511	402,211	422,069	453,637	474,761
Surplus or deficit (–)	160,833	155,234	175,265	186,313	181,452	183,284
OUTSTANDING DEBT, END OF PERIOD Gross Federal debt	6,760,014	7,354,657	7,905,300	8,451,350	8,950,744	9,983,694
Held by Federal Government accounts	2.846.570	3.059.113	3.313.088	3.622.378	3.915.615	4.183.059
Held by the public	3,913,443	4,295,544	4,592,212	3,622,378 4,828,972	5,035,129	5,800,635
Federal Reserve System Other	656,116 3,257,327	700,341 3,595,203	736,360 3,855,852	768,924 4,060,048	779,632 4,255,497	
	0,207,027	0,000,200	0,000,002	1,000,010	1,200,107	
RECEIPTS BY SOURCE						
Total: On-budget and off-budget	1,782,532	1,880,279	2,153,859	2,407,254	2,568,239	2,523,858
Individual income taxes	793,699 131,778	808,959 189,371	927,222 278.282	1,043,908 353,915	1,163,472 370.243	1,145,748 304,346
Social insurance and retirement receipts	712.978	733.407	794.125	837.821	869,607	900.363
On-budget	189,136	198,662	216,649	229,439	234,518	
Off-budget	523,842	534,745	577,476	608,382	635,089	
Excise taxes	67,524 21,959	69,855 24,831	73,094 24,764	73,961 27,877	65,069 26,044	67,334 28,844
Customs duties and fees	19,862	21,083	23,379	24,810	26,010	27,568
Miscellaneous receipts Deposits of earnings by Federal Reserve System	34,732 21,878	32,773 19,652	32,993 19,297	44,962 29,945	47,794 32,043	49,654
All other	12,854	13,121	13,696	15,017	15,751	
OUTLAYS BY FUNCTION						
Total: On-budget and off-budget	2,160,117	2,293,006	2,472,205	2,655,435	2,730,241	2,978,664
National defense	404,778	455,847	495,326	521,840	552,568	624,065
International affairs	21,209 20,873	26,891 23,053	34,595 23,628	29,549 23,616	28,510 25,566	28,823 23,951
General science, space and technology Energy	-736	-166	429	782	-860	531
Natural resources and environment	29,703 22,497	30,725 15,440	28,023 26,566	33,055 25,970	31,772 17.663	30,184
Agriculture	728	5,266	7,567	6.188	488	22,056 27,814
On-budget	5,973	9,396	9,358	7,263	-4,605	
Off-budget	-5,245	-4,130 64.627	-1,791 67.894	-1,075 70,244	5,093 72.905	77.000
Transportation	67,069 18,850	15.822	26,264	70,244 54.531	29,567	77,660 22.535
Education, training, employment, and social services	82,603	87,990	97,567	118,560	91,676	89,120
Health Medicare	219,576 249,433	240,134 269,360	250,614 298,638	252,780 329,868	266,432 375,407	280,616 390,755
Income security	334,632	333,059	345,847	352,477	365,975	432,733
Social security On-budget	474,680 13,279	495,548 14,348	523,305 16,526	548,549 16.058	586,153 19.307	617,030
Off-budget	461,401	481,200	506,779	532,491	566,846	
Veterans benefits and services	57,022	59,779	70,151	69,842	72,847	84,687
Administration of justice	35,340 23,169	45,576 22,347	40,019 17,010	41,016 18,215	41,244 17,457	47,418 16,025
Net interest	153,073	160,245	183,986	226,603	237,109	248,902
On-budget	236,618	246,473	275,822	324,325	343,112	
Off-budget	-83,545	-86,228	-91,836	-97,722	-106,003	
Allowances	-54,382	-58,537	-65,224	-68,250	-82,238	-86,242
On-budget	-44,780	-47,206	-54,283	-56,625	-69,939	
Off-budget	-9,602	-11,331	-10,941	-11,625	-12,299	

¹ Estimates from *Final Monthly Treasury Statement*, issued October 2008.

Note.—See Note, Table B-78.

Sources: Department of the Treasury and Office of Management and Budget.

 ${\it Table B-82.--Federal\ and\ State\ and\ local\ government\ current\ receipts\ and\ expenditures,\ national\ and\ support of the property o$ income and product accounts (NIPA), 1959-2008

	To	otal governme	nt	Fed	deral Governm	ent	State a	and local gove	rnment	Adden-
Year or quarter	Current receipts	Current expendi- tures	Net govern- ment saving (NIPA)	Current receipts	Current expendi- tures	Net Federal Govern- ment saving (NIPA)	Current receipts	Current expendi- tures	Net State and local govern- ment saving (NIPA)	dum: Grants- in-aid to State and local govern- ments
1959	123.0	115.8	7.1	87.0	83.6	3.3	40.6	36.9	3.8	3.8
1959 1960 1961 1962 1963 1964 1965 1966 1969 1969 1969 1970 1971 1977 1977 1978 1978 1978 1979 1980 1980 1980 1980 1980 1981 1982 1988 1989 1989 1999 1999 1999	123.0 134.4 139.0 150.6 162.2 166.6 180.3 202.8 252.0 283.4 286.7 303.4 346.8 390.0 431.3 441.6 505.5 566.8 728.2 798.0 917.2 938.5 1,212.5 1,213.5 1,	122.9 132.1 142.8 151.1 159.2 246.8 220.0 246.8 325.3 355.5 355.5 385.6 435.8 962.9 1,072.5 1,459.1 1,459.1 1,459.1 1,459.1 1,459.1 1,459.1 1,459.1 1,459.1 1,459.1 1,459.1 1,459.1 1,459.1 1,459.1 1,459.1 1,459.1 1,459.1 1,459.1 1,256.6 1,866.1 1,876.7 1,735.6 1,876.7 2,140.4 2,249.1 2,249.1 2,249.1 2,249.1 2,249.1 2,263.4 2,741.0 2,886.5 3,061.6 3,240.8 3,240.8 3,240.8 3,240.8	7.1 11.5 6.9 9.9 11.1 7.4 9.9 10.0 10.0 10.0 10.0 10.0 10.0 10.0	87.0 93.9 95.5 103.6 111.8 111.8 120.9 137.9 146.9 171.2 192.5 192.5 363.4 423.5 486.2 532.1 642.3 779.3 815.2 886.6 642.3 779.3 815.2 896.6 11,101.3 1,147.2 1,222.1 1,220.8 1,1037.4 1,101.3 1,147.2 1,222.8 1,1037.4 1,101.3 1,147.2 1,222.8 1,1037.4 1,101.3 1,147.2 1,222.8 1,203.8 1,204.8 1,204.8 1,204.8 1,208	86.7 92.8 101.1 110.6 135.7 156.2 173.5 183.8 201.1 220.0 244.4 261.7 293.3 346.2 374.3 407.5 585.7 748.5 815.4 877.1 948.2 1,006.0 1,041.6 1,041.6 1,041.6 1,167.5 1,253.5 1,315.0 1,444.6 1,533.1 1,633.1 1,	3.3 7.2 2.6 5.4 1.0 1.0 3.3 2.3 2.3 2.4 2.2 3.4 2.2 3.4 2.2 3.4 2.2 3.4 2.2 3.4 2.4 3.4 2.4 3.4 3.4 3.4 3.6 3.0 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1	40.6 44.5 48.1 52.0 56.0 61.3 66.5 74.9 82.5 93.5 105.5 1134.9 158.4 174.3 188.1 209.6 233.7 259.9 287.6 308.4 438.2 2521.1 561.6 590.6 635.5 687.3 737.8 789.2 2845.7 1,319.5 1,373.6 1,319.5	36.9 40.2 43.8 46.8 50.3 54.9 60.0 67.2 75.5 86.0 97.5 113.0 128.5 142.8 158.6 178.7 207.1 266.3 246.8 295.4 392.4 393.6 423.7 456.2 438.7 456.2 438.7 578.1 617.6 666.5 730.5 793.3 845.0 886.0 932.4 423.7 456.2 438.7 456.2 438.7 456.2 438.7 456.2 438.7 456.2 438.7 456.2 438.7 456.2 438.7 456.2 438.7 456.2 438.7 456.2 438.7 456.2 438.7 456.2 448.7 578.1 678.1	4.3 4.3 5.7 6.4 7.8 7.5 8.0 7.5 15.6 15.6 15.7 13.0 8.7 6.2 2.5 4.9 23.9 21.0 12.9 20.8 7.1 17.9 20.8 3.9 11.5 20.8 3.9 10.0 20.8 3.9 10.0 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9	3.8 4.0 4.5 5.0 5.6 6.5 7.2 10.1 11.7 12.7 14.6 19.3 23.2 31.7 56.6 65.5 66.3 72.3 72.5 69.5 68.3 99.1 11.4 163.7 11.4 163.7 113.6 149.1 163.7 184.1 191.2 198.6 212.8 232.9 247.3 276.1 304.6 338.5 232.9
2004 2005 2006	3,254.1 3,620.4 3,963.8	3,623.2 3,882.6 4,118.8	-369.1 -262.2 -155.0	2,266.9 2,510.4	2,379.5 2,558.6 2,711.6	-370.6 -291.7 -201.1	1,594.3 1,714.4 1,811.4	1,684.9 1,765.3	1.5 29.5 46.2	360.9 358.0
2007	4,177.8	4,396.7	-218.9	2,651.2	2,880.5	-229.3	1,902.8	1,892.4	10.4	376.3
2005: I II IV	3,553.0 3,614.3 3,571.3 3,742.8	3,790.4 3,845.5 3,916.8 3,977.5	-237.5 -231.2 -345.4 -234.7	2,225.7 2,264.1 2,214.5 2,363.3	2,504.4 2,533.6 2,579.2 2,617.1	-278.7 -269.5 -364.7 -253.8	1,685.7 1,711.3 1,716.5 1,743.8	1,644.5 1,673.1 1,697.3 1,724.7	41.2 38.3 19.3 19.1	358.5 361.1 359.7 364.3
2006: I II III IV	3,881.1 3,944.1 3,989.3 4,040.8	4,031.5 4,106.0 4,175.5 4,162.2	-150.4 -161.8 -186.2 -121.4	2,453.6 2,487.6 2,531.9 2,568.6	2,661.5 2,712.5 2,750.4 2,721.8	-207.9 -225.0 -218.4 -153.2	1,781.7 1,815.3 1,820.4 1,828.4	1,724.2 1,752.2 1,788.1 1,796.6	57.5 63.1 32.2 31.8	354.2 358.7 363.0 356.2
2007: 	4,117.4 4,181.1 4,194.4 4,218.1	4,319.3 4,356.8 4,434.0 4,476.7	-202.0 -175.7 -239.5 -258.6	2,612.8 2,648.1 2,664.9 2,679.2	2,837.9 2,859.5 2,909.2 2,915.6	-225.2 -211.4 -244.3 -236.3	1,877.5 1,909.8 1,905.5 1,918.4	1,854.3 1,874.0 1,900.7 1,940.7	23.2 35.8 4.7 –22.3	372.9 376.8 375.9 379.6
2008: <i>p</i>	4,215.6 4,049.9 4,157.5	4,598.7 4,766.3 4,802.5	-383.1 -716.4 -645.0	2,672.5 2,478.8 2,597.0	3,003.2 3,128.4 3,140.2	-330.7 -649.6 -543.2	1,922.9 1,955.4 1,947.0	1,975.3 2,022.3 2,048.8	-52.4 -66.9 -101.8	379.9 384.4 386.6

Note.—Federal grants-in-aid to State and local governments are reflected in Federal current expenditures and State and local current receipts. Total government current receipts and expenditures have been adjusted to eliminate this duplication.

Table B-83.—Federal and State and local government current receipts and expenditures, national income and product accounts (NIPA), by major type, 1959–2008

	Current receipts Current expenditures Current tax receipts Contri-														
Year or quarter	Total	Total ¹	Per- sonal current taxes	Taxes on produc- tion and imports	Taxes on corpo- rate income	Contri- butions for govern- ment social insur- ance	Income re- ceipts on assets	Current trans- fer re- ceipts	Current surplus of govern- ment enter- prises	Total ²	Con- sump- tion expen- ditures	Current trans- fer pay- ments	Interest pay- ments	Sub- si- dies	Net govern- ment saving
1959	123.0 134.4 139.0 150.6 162.2 166.6 180.3 202.8 217.6 252.0 283.4 286.7 303.4 346.8 390.0 431.3	107.1 113.4 117.1 126.1 137.6 149.5 163.5 173.9 203.2 228.5 229.3 240.4 274.0 299.3 334.4	42.3 46.1 47.3 51.6 54.6 52.1 57.7 66.4 73.0 87.0 104.5 103.1 101.7 123.6 132.4 151.0	41.1 44.6 47.0 50.4 57.3 60.8 63.3 68.0 76.5 84.0 91.5 100.6 108.1 117.3 125.0 135.5	23.6 22.7 22.8 24.0 26.2 28.0 30.9 33.7 32.7 39.7 39.7 41.9 49.3 51.8 50.9	13.8 16.4 17.0 19.1 21.7 22.4 23.4 31.3 34.9 38.7 44.1 46.4 51.2 59.2 75.5 85.2 89.3	0.3 2.7 2.9 3.2 3.4 3.7 4.1 4.7 5.5 6.4 7.0 8.2 9.0 9.5 11.6 14.4 16.1	0.8 .9 1.1 1.2 1.3 1.6 1.9 2.2 2.5 2.6 2.7 2.9 3.1 3.6 3.9 4.5 5.1	1.0 .8 .9 1.4 1.3 1.0 .9 1.2 1.0 .0 .2 .5 .4 .9 .4 .9	115.8 122.9 132.1 142.8 151.1 159.2 170.4 192.8 220.0 246.8 325.3 355.5 385.6 435.8 508.2	80.7 83.3 88.2 96.8 102.7 108.6 115.9 132.0 149.7 165.8 178.2 204.7 220.8 234.8 234.8 261.7 294.6	26.8 28.0 31.8 32.6 34.1 34.9 37.8 41.8 50.1 58.1 63.7 76.8 91.6 102.2 114.2 114.2	7.3 10.4 10.2 11.1 12.0 12.9 13.7 15.1 16.4 18.8 20.2 23.1 24.5 26.3 31.3 35.6 40.0	1.1 2.0 2.3 2.2 2.7 3.0 3.9 4.2 4.5 4.8 4.7 6.6 5.2 3.3 4.5	7.1 11.5 6.9 7.8 11.1 7.4 9.9 10.0 -2.4 5.2 16.7 -8.1 -21.9 -8.8 4.4 -4.4 -66.6
1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988	505.5 566.8 645.6 728.2 798.0 917.2 938.5 999.4 1,112.3.5 1,289.3 1,403.2 1,502.2 1,626.3	383.8 431.2 485.0 538.2 586.0 663.9 694.5 763.0 824.3 869.2 966.1 1,019.4 1,109.7	172.3 197.5 229.4 268.7 298.9 345.2 354.1 352.3 377.4 447.4 437.3 489.1 505.0 566.1	146.6 159.9 171.2 180.4 200.7 236.0 241.3 263.7 290.2 308.5 323.7 347.9 374.9 399.3	64.2 73.0 83.5 88.0 84.8 81.1 63.1 77.2 94.0 96.5 106.5 127.1 137.2 141.5	101.3 113.1 131.3 152.7 166.2 195.7 208.9 226.0 257.5 281.4 303.4 323.1 361.5 385.2	16.3 18.4 23.2 30.8 39.9 50.2 58.9 65.3 74.3 84.0 89.8 86.1 90.5 94.3	5.8 6.8 8.0 9.1 10.7 12.3 14.8 19.6 23.0 25.6 26.8 28.2 32.2	-1.8 -2.6 -1.9 -2.6 -4.8 -4.9 -4.0 -3.1 -1.9 8 1.3 1.2 2.5 4.9	549.9 597.7 653.4 726.5 842.8 962.9 1,072.6 1,167.5 1,256.6 1,366.1 1,459.1 1,535.8 1,618.7 1,735.6	316.6 346.6 376.5 412.3 465.9 520.6 568.2 610.6 657.0.2 776.1 815.2 852.8 901.4	181.9 193.3 207.9 232.6 278.0 314.2 350.5 378.4 390.9 415.7 441.9 459.7 488.8 533.1	46.3 50.8 60.2 72.9 89.1 116.7 138.9 156.9 187.3 208.8 216.3 230.8 247.7 274.0	5.1 7.1 8.9 8.5 9.8 11.5 15.0 21.2 21.0 21.3 24.8 30.2 29.4 27.2	-44.4 -31.0 -7.8 1.7 -44.8 -45.7 -134.1 -168.1 -144.1 -152.6 -169.9 -132.6 -116.6 -109.3
1990	1,707.8 1,758.8 1,843.7 1,945.8 2,089.0 2,212.6 2,376.1 2,551.9 2,724.2 2,895.0 3,125.9	1,161.9 1,180.3 1,240.2 1,318.2 1,426.1 1,517.2 1,642.0 1,780.5 1,911.7 2,036.2 2,206.8	592.8 586.7 610.6 646.6 690.7 744.1 832.1 926.3 1,027.0 1,107.5 1,235.7	425.5 457.5 483.8 503.4 545.6 558.2 581.1 612.0 639.8 674.0 708.9	140.6 133.6 143.1 165.4 186.7 211.0 223.6 237.1 239.2 248.8 255.0	410.1 430.2 455.0 477.7 508.2 532.8 555.2 587.2 624.2 661.4 702.7	98.7 98.1 90.5 87.6 86.6 92.1 100.2 103.7 102.4 106.8	35.6 44.6 50.5 55.1 59.5 59.1 66.0 67.9 75.5 80.6	1.6 5.7 7.6 7.2 8.6 11.4 12.7 12.6 10.3 10.1	1,872.6 1,976.7 2,140.4 2,218.4 2,290.8 2,397.6 2,492.1 2,568.6 2,633.4 2,741.0 2,886.5	964.4 1,014.1 1,047.8 1,072.2 1,104.1 1,136.5 1,171.1 1,216.6 1,256.0 1,334.0	586.1 622.5 749.5 796.3 831.2 872.5 921.4 947.8 969.6 1,005.5	295.3 312.7 313.2 313.6 323.4 354.6 365.3 371.4 372.4 357.3 362.8	26.8 27.3 29.9 36.4 32.2 34.0 34.3 32.9 35.4 44.2	-164.8 -217.9 -296.7 -272.6 -201.9 -184.9 -116.0 -16.7 90.8 154.0 239.4
2001 2002 2003 2004 2005 2006 2007	3,113.1 2,958.7 3,035.6 3,254.1 3,620.4 3,963.8 4,177.8	2,168.0 2,004.5 2,050.3 2,213.4 2,545.3 2,792.4 2,948.5	1,237.3 1,051.8 1,001.1 1,046.3 1,207.8 1,353.2 1,492.8	728.6 762.8 807.2 863.8 928.2 976.2 1,015.5	194.9 182.6 233.1 293.3 397.2 449.7 426.3	731.1 750.0 778.6 828.8 874.3 925.5 965.1	113.7 98.4 95.8 99.1 109.8 120.4 129.5	101.8 104.9 109.2 117.0 104.3 134.2 142.6	-1.4 .9 1.7 -4.2 -13.4 -8.6 -7.9	3,061.6 3,240.8 3,428.1 3,623.2 3,882.6 4,118.8 4,396.7	1,501.6 1,616.9 1,736.5 1,844.0 1,957.5 2,081.5 2,212.0	1,160.6 1,270.4 1,343.2 1,425.3 1,520.5 1,611.0 1,721.3	344.1 315.1 300.6 309.3 345.3 376.5 411.1	55.3 38.4 47.9 44.6 59.3 49.7 52.3	239.4 51.5 -282.1 -392.5 -369.1 -262.2 -155.0 -218.9
2005: 	3,553.0 3,614.3 3,571.3 3,742.8 3,881.1 3,944.1 3,989.3 4,040.8	2,470.9 2,523.1 2,543.4 2,643.9 2,726.0 2,781.7 2,815.7 2,846.4	1,163.8 1,192.7 1,222.3 1,252.5 1,316.0 1,341.1 1,356.2 1,399.6	904.5 924.0 937.4 946.8 962.7 973.6 980.1 988.3	391.2 396.0 370.2 431.4 436.5 456.0 467.7 438.4	859.6 866.9 881.1 889.5 917.1 918.9 925.5 940.4	105.2 109.5 111.4 113.2 115.9 118.9 121.6 125.1	124.3 124.0 61.3 107.7 130.0 133.0 135.6 138.0	-7.1 -9.3 -25.8 -11.4 -7.8 -8.3 -9.1 -9.2	3,790.4 3,845.5 3,916.8 3,977.5 4,031.5 4,106.0 4,175.5 4,162.2	1,917.3 1,934.4 1,985.2 1,993.0 2,046.7 2,069.3 2,098.0 2,111.8	1,496.5 1,509.9 1,526.9 1,548.9 1,571.5 1,605.5 1,632.2 1,635.1	322.1 342.6 344.0 372.4 359.1 381.3 397.2 368.5	54.5 58.6 60.7 63.3 54.2 49.8 48.2 46.8	-237.5 -231.2 -345.4 -234.7 -150.4 -161.8 -186.2 -121.4
IV 2007: IV 2008: 	4,117.4 4,181.1 4,194.4 4,218.1 4,215.6 4,049.9 4,157.5	2,901.1 2,959.7 2,959.7 2,959.7 2,973.7 2,951.8 2,779.2 2,899.2	1,459.5 1,489.4 1,501.6 1,520.5 1,535.0 1,346.1 1,473.5	1,002.7 1,012.3 1,019.2 1,027.7 1,025.8 1,039.4 1,042.5	438.4 426.4 445.2 426.0 407.7 375.8 378.9 368.2	940.4 959.8 959.1 966.0 975.3 992.2 995.4 998.7	126.9 128.8 130.9 131.3 132.7 135.6 136.4	140.4 142.0 143.3 144.5 145.9 147.4 131.2	-9.2 -10.8 -8.5 -5.5 -6.7 -7.1 -7.7 -8.0	4,319.3 4,356.8 4,434.0 4,476.7 4,598.7 4,766.3 4,802.5	2,111.8 2,151.2 2,195.5 2,234.4 2,266.8 2,324.3 2,380.9 2,440.1	1,714.1 1,696.6 1,723.1 1,751.2 1,793.5 1,930.2 1,867.1	406.5 408.7 422.9 406.4 430.3 404.4 444.8	46.8 47.5 55.9 53.5 52.3 50.6 50.8 50.4	-121.4 -202.0 -175.7 -239.5 -258.6 -383.1 -716.4 -645.0

 $^{^{\}rm 1}$ Includes taxes from the rest of the world, not shown separately. $^{\rm 2}$ Includes an item for the difference between wage accruals and disbursements, not shown separately.

Table B-84.—Federal Government current receipts and expenditures, national income and product accounts (NIPA), 1959-2008

				Cu	rrent recei	pts					Curre	nt expend	itures		
Year or quarter	Total	Total ¹	Per- sonal current taxes	Taxes on produc- tion and imports	Taxes on corpo- rate income	Contri- butions for govern- ment social insur- ance	Income re- ceipts on assets	Current trans- fer re- ceipts	Current surplus of govern- ment enter- prises	Total ²	Con- sump- tion expen- ditures	Current trans- fer pay- ments ³	Interest pay- ments	Sub- si- dies	Net Federal Govern- ment saving
1959	87.0	73.3	38.5	12.2	22.5	13.4	0.0	0.4	-0.1	83.6	50.0	26.2	6.3	1.1	3.3
1960 1961 1962 1963 1965 1966 1967 1968 1969	93.9 95.5 103.6 111.8 111.8 120.9 137.9 146.9 171.2 192.5	76.5 77.5 83.3 88.6 87.8 95.7 104.8 109.9 129.8 146.1	41.8 42.7 46.5 49.1 46.0 51.1 58.6 64.4 76.4 91.7	13.1 13.2 14.2 14.7 15.5 15.5 14.5 17.0 17.9	21.4 21.5 22.5 24.6 26.1 28.9 31.4 30.0 36.1 36.1	16.0 16.5 18.6 21.0 21.7 22.7 30.5 34.0 37.8 43.1	1.4 1.5 1.7 1.8 1.9 2.1 2.5 2.9 2.7	.4 .5 .6 .7 1.1 1.2 1.1 1.1	-3.5.5.3.3.6.6.6.3.5.5.5.5.5.5.5.5.5.5.5.	86.7 92.8 101.1 106.4 110.8 117.6 135.7 156.2 173.5 183.8	49.8 51.6 57.8 60.8 62.8 65.7 75.9 87.1 95.4 98.4	27.5 31.3 32.3 34.1 35.2 38.3 44.2 52.6 59.3 65.1	8.4 7.9 8.6 9.3 10.0 10.6 11.6 12.7 14.6 15.8	1.1 2.0 2.3 2.2 2.7 3.0 3.9 3.8 4.1 4.5	7.2 2.6 2.5 5.4 1.0 3.3 2.3 -9.4 -2.3 8.7
1970 1971 1972 1973 1975 1976 1977 1978 1979	186.0 191.7 220.1 250.4 279.5 277.2 322.5 363.4 423.5 486.2	138.0 138.7 158.4 173.1 192.2 187.0 218.1 247.4 286.9 326.2	88.9 85.8 102.8 109.6 126.5 120.7 141.2 162.2 188.9 224.6	18.2 19.1 18.6 19.9 20.2 22.2 21.6 22.9 25.6 26.0	30.6 33.5 36.6 43.3 45.1 43.6 54.6 61.6 71.4 74.4	45.3 50.0 57.9 74.0 83.5 87.5 99.1 110.3 127.9 148.9	3.1 3.5 3.6 3.8 4.2 4.9 5.9 6.7 8.5 10.7	1.1 1.3 1.3 1.4 1.5 1.6 1.9 2.4 2.8	-1.5 -1.6 -1.1 -1.8 -1.8 -3.6 -2.2 -2.9 -2.1 -2.3	201.1 220.0 244.4 261.7 293.3 346.2 374.3 407.5 450.0 497.5	98.6 102.0 107.7 108.9 118.0 129.6 137.2 150.7 163.3 179.0	80.0 95.5 111.9 124.9 145.7 183.5 198.5 212.9 232.7 254.6	17.7 17.9 18.8 22.8 26.0 28.9 33.8 37.1 45.3 55.7	4.8 4.6 5.1 3.2 4.3 4.9 6.9 8.7 8.2	-15.2 -28.4 -24.4 -11.3 -13.8 -69.0 -51.7 -44.1 -26.5 -11.3
1980 1981 1982 1983 1984 1986 1987 1988 1989	532.1 619.4 616.6 642.3 709.0 773.3 815.2 896.6 958.2 1,037.4	355.9 408.1 386.8 393.6 425.7 460.6 479.6 544.0 566.7 621.7	250.0 290.6 295.0 286.2 301.4 336.0 350.1 392.5 402.9 451.5	34.0 50.3 41.4 44.8 47.8 46.4 44.0 46.3 50.3 50.2	70.3 65.7 49.0 61.3 75.2 76.3 83.8 103.2 111.1 117.2	162.6 191.8 204.9 221.8 252.8 276.5 297.5 315.9 353.1 376.3	13.7 18.3 22.2 23.8 26.6 29.1 31.4 27.9 30.0 28.6	3.5 3.8 5.2 6.0 7.3 9.4 8.2 10.7 10.8 12.4	-3.6 -2.5 -2.4 -2.9 -3.4 -2.4 -1.5 -2.0 -2.3 -1.6	585.7 672.7 748.5 815.4 877.1 948.2 1,006.0 1,041.6 1,092.7 1,167.5	207.5 238.3 263.3 286.5 310.0 338.4 358.2 374.3 382.5 399.2	299.1 329.5 358.8 383.0 396.5 419.3 445.1 452.9 481.9 522.0	69.7 93.9 111.8 124.6 150.3 169.4 178.2 184.6 199.3 219.3	9.4 11.1 14.5 20.8 20.6 20.9 24.5 29.9 29.0 26.8	-53.6 -53.3 -131.9 -173.0 -168.1 -175.0 -190.8 -145.0 -134.5 -130.1
1990 1991 1992 1993 1994 1996 1997 1998	1,081.5 1,101.3 1,147.2 1,222.5 1,320.8 1,406.5 1,524.0 1,653.1 1,773.8 1,891.2	642.8 636.1 660.4 713.4 781.9 845.1 932.4 1,030.6 1,116.8 1,195.7	470.2 461.3 475.3 505.5 542.7 586.0 663.4 744.3 825.8 893.0	51.4 62.2 63.7 66.7 79.4 75.9 73.2 78.2 81.1 83.9	118.1 109.9 118.8 138.5 156.7 179.3 190.6 203.0 204.2 213.0	400.1 418.6 441.8 463.6 493.7 519.2 542.8 576.4 613.8 651.6	30.2 30.1 25.7 26.2 23.4 23.7 26.9 25.9 21.5 21.5	13.5 17.9 19.4 21.1 22.3 19.1 23.1 19.9 21.5 22.7	-5.1 -1.4 -1.8 4 6 -1.2 .3 .1	1,253.5 1,315.0 1,444.6 1,496.0 1,533.1 1,603.5 1,665.8 1,708.9 1,734.9 1,787.6	419.8 439.5 445.2 441.9 440.8 440.5 446.3 457.7 454.6 475.1	569.9 597.6 718.7 764.7 799.2 839.0 888.3 918.8 946.5 986.1	237.5 250.9 251.3 253.4 261.3 290.4 297.3 300.0 298.8 282.7	26.4 26.9 29.5 36.0 31.8 33.7 34.0 32.4 35.0 43.8	-172.0 -213.7 -297.4 -273.5 -212.3 -197.0 -141.8 -55.8 38.8 103.6
2000	2,053.8 2,016.2 1,853.2 1,879.9 2,008.9 2,266.9 2,510.4 2,651.2	1,313.6 1,252.2 1,075.5 1,070.8 1,152.3 1,383.0 1,550.2 1,644.5	999.1 994.5 830.5 774.5 797.4 930.7 1,049.9 1,167.3	87.8 85.8 87.3 89.7 94.6 99.2 98.0 97.7	219.4 164.7 150.5 197.8 250.3 341.0 388.9 365.4	691.7 717.5 734.3 758.9 805.2 850.0 902.4 942.3	25.2 24.9 20.2 22.9 23.8 24.0 25.7 29.2	25.7 27.1 24.8 25.0 28.8 15.0 35.7 37.5	-2.3 -5.5 -1.6 2.3 -1.2 -5.0 -3.6 -2.2	1,864.4 1,969.5 2,101.1 2,252.1 2,379.5 2,558.6 2,711.6 2,880.5	499.3 531.9 591.5 662.7 723.7 766.3 811.8 856.1	1,038.1 1,131.4 1,243.0 1,328.7 1,390.6 1,478.0 1,568.1 1,666.7	283.3 258.6 229.1 212.9 221.0 255.4 282.3 312.6	43.8 47.6 37.5 47.8 44.2 58.9 49.4 45.2	189.5 46.7 -247.9 -372.1 -370.6 -291.7 -201.1 -229.3
2005: I II III IV	2,225.7 2,264.1 2,214.5 2,363.3	1,338.8 1,369.2 1,375.8 1,448.0	894.9 917.8 944.2 965.8	97.1 101.2 100.0 98.5	335.4 339.8 318.0 370.6	835.0 842.5 857.0 865.7	24.1 25.0 23.8 23.1	31.0 31.8 -35.8 32.8	-3.2 -4.4 -6.4 -6.2	2,504.4 2,533.6 2,579.2 2,617.1	758.2 760.3 782.1 764.5	1,458.7 1,461.7 1,483.0 1,508.7	233.4 253.4 253.8 281.0	54.2 58.2 60.4 62.9	-278.7 -269.5 -364.7 -253.8
2006: I II III IV	2,453.6 2,487.6 2,531.9 2,568.6	1,504.7 1,535.1 1,570.9 1,590.2	1,018.8 1,031.6 1,056.0 1,093.2	97.8 98.2 98.6 97.4	377.3 394.4 404.6 379.5	893.6 895.7 902.6 917.7	23.7 24.9 26.0 28.2	34.7 35.5 36.0 36.5	-3.1 -3.5 -3.6 -4.0	2,661.5 2,712.5 2,750.4 2,721.8	805.9 809.2 816.2 816.0	1,535.4 1,566.5 1,584.6 1,586.0	266.4 287.4 301.9 273.3	53.8 49.4 47.8 46.5	-207.9 -225.0 -218.4 -153.2
2007: I II III IV	2,612.8 2,648.1 2,664.9 2,679.2	1,615.2 1,648.2 1,654.4 1,660.0	1,139.5 1,157.1 1,178.1 1,194.7	97.7 96.9 98.2 98.0	365.6 381.5 365.1 349.5	937.1 936.4 943.3 952.3	28.4 29.0 29.8 29.5	37.0 37.2 37.6 38.2	-5.1 -2.8 2 8	2,837.9 2,859.5 2,909.2 2,915.6	832.5 851.1 869.1 871.6	1,650.2 1,652.6 1,671.4 1,692.5	309.6 310.5 323.9 306.4	45.6 45.2 44.8 45.1	-225.2 -211.4 -244.3 -236.3
2008: p	2,672.5 2,478.8 2,597.0	1,634.9 1,436.0 1,567.6	1,201.2 999.8 1,141.6	95.8 96.9 95.2	322.5 324.4 315.9	968.9 971.8 974.8	29.9 31.7 32.4	39.4 40.0 22.4	5 6 1	3,003.2 3,128.4 3,140.2	898.0 918.2 954.1	1,729.2 1,860.1 1,795.3	329.4 302.3 342.6	46.6 47.8 48.3	-330.7 -649.6 -543.2

Includes taxes from the rest of the world, not shown separately.
 Includes an item for the difference between wage accruals and disbursements, not shown separately.
 Includes Federal grants-in-aid to State and local governments. See Table B–82 for data on Federal grants-in-aid.

Table B-85.—State and local government current receipts and expenditures, national income and product accounts (NIPA), 1959-2008

					rent recei	pts	,		,,			nt expend	itures		
Year or quarter	Total	Total	Personal current taxes	Taxes on produc- tion and imports	Taxes on corpo- rate income	Contri- butions for govern- ment social insur- ance	Income re- ceipts on assets	Current transfer re- ceipts ¹	Current surplus of govern- ment enter- prises	Total ²	Con- sump- tion expen- ditures	Govern- ment social benefit pay- ments to per- sons	Interest pay- ments	Sub- si- dies	Net State and local govern- ment saving
1959 1960 1961 1962 1963 1964 1965 1967 1968 1969	40.6 44.5 48.1 52.0 56.0 61.3 66.5 74.9 82.5 93.5 105.5	33.8 37.0 39.7 42.8 45.8 49.8 53.9 58.9 64.0 73.4 82.5 91.3	3.8 4.2 4.6 5.0 5.4 6.1 6.6 7.8 8.6 10.6 12.8	28.8 31.5 33.8 36.3 38.7 41.8 45.3 48.8 59.5 66.0 73.3 81.5	1.2 1.2 1.3 1.5 1.7 1.8 2.0 2.2 2.6 3.3 3.6	0.4 .5 .5 .6 .7 .8 .8 .9 .9	1.1 1.3 1.4 1.5 1.6 1.9 2.2 2.6 3.0 3.5 4.3 5.2	4.2 4.5 5.2 5.8 6.4 7.3 8.0 11.1 13.1 14.2 16.2 21.1	1.1 1.2 1.3 1.4 1.6 1.6 1.7 1.6 1.5 1.5	36.9 40.2 43.8 46.8 50.3 54.9 60.0 67.2 75.5 86.0 97.5	30.7 33.5 36.6 39.0 41.9 45.8 50.2 56.1 62.6 70.4 79.9 91.5	4.3 4.6 5.0 5.3 5.7 6.2 6.7 7.6 9.2 11.4 13.2	1.8 2.1 2.2 2.4 2.7 2.9 3.1 3.4 3.7 4.2 4.4	0.0 .0 .0 .0 .0 .0 .0	3.8 4.3 4.3 5.2 5.7 6.4 6.5 7.8 7.0 7.5 8.0
1971 1972 1973 1974 1975 1976 1977 1979 1980 1981 1982 1983	134.9 158.4 174.3 188.1 209.6 233.7 259.9 287.6 308.4 338.2 370.2 391.4 428.6	115.6 126.3 136.0 147.4 165.7 183.7 198.2 212.0 230.0 255.8 273.2 300.9	20.9 22.8 24.5 26.9 31.1 35.4 40.5 44.0 48.9 54.6 59.1 66.1	89.4 97.4 104.8 113.2 125.0 136.9 145.6 154.4 166.7 200.0 218.9	4.3 5.3 6.0 6.7 7.3 9.6 11.4 12.1 13.6 14.5 15.4 14.0	1.2 1.3 1.5 1.7 1.8 2.2 2.8 3.4 3.9 3.6 3.9 4.0 4.1	5.5 5.9 7.8 10.2 10.4 11.7 14.7 20.1 26.3 32.0 36.7 41.4	25.2 34.0 37.3 39.3 48.7 55.0 61.4 71.1 72.7 79.5 81.0 79.1 82.4	1.4 1.6 1.5 .9 .4 .4 .3 .3 3 -1.2 -2.4 -1.6 2	128.5 142.8 158.6 178.7 207.1 226.3 246.8 268.9 295.4 329.4 362.7 393.6 423.7	102.7 113.2 126.0 143.7 165.1 179.5 195.9 213.2 233.3 258.4 282.3 304.9 324.1	22.0 24.1 25.3 30.8 34.1 37.0 40.8 44.3 51.2 57.1 61.2	6.5 7.5 8.5 9.6 11.1 12.5 13.7 14.9 17.2 19.4 22.8 27.1 32.3	.0 .1 .1 .2 .2 .2 .2 .3 .4 .4 .5	6.5 15.6 15.7 9.3 2.5 7.4 13.1 18.7 13.0 8.8 7.6 -2.2 4.9
1984 1985 1986 1987 1989 1990 1991 1992 1993 1994 1995	480.2 521.1 561.6 590.6 635.5 687.3 737.8 789.2 845.7 886.9 942.9 990.2	337.3 363.7 389.5 422.1 452.8 488.0 519.1 544.3 579.8 604.7 644.2 672.1 709.6	76.0 81.4 87.2 96.6 102.1 114.6 125.3 135.3 135.3 141.1 148.0 158.1	242.5 262.1 279.7 301.6 324.6 349.1 374.1 395.3 420.1 436.8 466.3 482.4 507.9	18.8 20.2 22.7 23.9 26.0 24.2 22.5 23.6 24.4 26.9 30.0 31.7 33.0	4.7 4.9 6.0 7.2 8.4 9.0 10.0 11.6 13.1 14.1 14.5 13.6 12.5	47.7 54.9 58.4 58.1 60.5 65.7 68.4 68.0 64.8 61.4 63.2 68.4 73.3	89.0 94.5 105.0 100.0 109.0 118.1 133.5 158.2 180.3 197.7 211.9 224.1 234.1	2 1.5 3.2 2.8 3.1 4.8 6.5 6.7 7.1 7.7 9.0 9.0 12.0 13.9	456.2 498.7 540.7 578.1 617.6 666.5 730.5 793.3 845.0 886.0 932.4 978.2	347.7 381.8 417.9 440.9 470.4 502.1 544.6 602.7 630.3 663.3 696.1 724.8	66.9 71.2 77.3 84.3 90.7 98.5 109.3 127.7 156.5 180.0 195.2 206.7 217.6 224.3	37.0 39.4 38.2 46.2 48.4 54.6 57.9 61.7 61.9 60.2 62.0 64.2 68.1	.4 .3 .3 .4 .4 .4 .4 .4 .3 .3 .3 .4 .4	23.9 22.3 21.0 12.4 17.9 20.8 7.2 -4.2 .7 .9 10.5 12.0 25.8
1997 1998 2000 2001 2002 2003 2004 2005 2006 2007	1,097.4 1,163.2 1,236.7 1,319.5 1,373.0 1,410.1 1,494.2 1,594.3 1,714.4 1,811.4 1,902.8	749.9 794.9 840.4 893.2 915.8 929.0 979.4 1,061.2 1,162.3 1,242.2 1,304.1	182.0 201.2 214.5 236.6 242.7 221.3 226.6 249.0 277.1 303.3 325.4 268.9	533.8 558.8 590.2 621.1 642.8 675.5 717.5 769.2 829.0 878.2 917.8	34.1 34.9 35.8 35.5 30.2 32.2 35.3 43.0 56.3 60.7 60.9	10.8 10.4 9.8 11.0 13.6 15.8 19.8 23.6 24.2 23.1 22.8 24.6	77.8 80.9 85.3 92.2 88.8 78.2 72.9 75.4 85.9 94.7 100.3	246.6 266.8 290.8 315.4 350.8 384.7 422.7 437.2 450.3 456.5 481.3	10.2 10.4 7.7 4.0 2.5 6 -3.0 -8.3 -5.0 -5.7	1,058.3 1,111.2 1,186.3 1,269.5 1,368.2 1,444.3 1,514.5 1,592.8 1,684.9 1,765.3 1,892.4	758.9 801.4 858.9 917.8 969.8 1,025.3 1,073.8 1,120.3 1,191.2 1,269.6 1,355.9	227.6 235.8 252.4 271.7 305.2 332.0 353.0 383.8 403.5 401.0 430.8 396.3	71.4 73.6 74.6 79.5 85.5 86.0 87.7 88.4 89.9 94.3 98.5	.4 .4 .5 7.7 .9 .1 .4 .4 7.1	39.1 52.0 50.4 50.0 4.8 -34.2 -20.4 1.5 29.5 46.2 10.4
II IV 2006: I II IV	1,685.7 1,711.3 1,716.5 1,743.8 1,781.7 1,815.3 1,820.4 1,828.4	1,132.1 1,153.9 1,167.6 1,195.8 1,221.2 1,246.6 1,244.8 1,256.2	274.9 278.0 286.7 297.2 309.5 300.2 306.4	822.8 837.4 848.3 864.9 875.5 881.5 890.9	56.2 52.2 60.8 59.2 61.7 63.1 59.0	24.4 24.1 23.8 23.5 23.2 22.9 22.8	84.6 87.6 90.2 92.2 94.0 95.5 96.9	453.4 456.7 439.2 449.6 456.3 462.6 457.6	-3.9 -4.9 -19.5 -5.2 -4.7 -4.8 -5.5 -5.2	1,673.1 1,697.3 1,724.7 1,724.2 1,752.2 1,788.1 1,796.6	1,159.1 1,174.1 1,203.1 1,228.4 1,240.8 1,260.2 1,281.8 1,295.8	409.4 403.7 404.5 390.3 397.7 410.6 405.3	89.2 90.2 91.3 92.7 93.9 95.3 95.2	.4 .4 .4 .4 .4	41.2 38.3 19.3 19.1 57.5 63.1 32.2 31.8
2007: V 2008: P	1,877.5 1,909.8 1,905.5 1,918.4 1,922.9 1,955.4 1,947.0	1,285.9 1,311.5 1,305.3 1,313.7 1,317.0 1,343.3 1,331.6	320.0 332.3 323.5 325.8 333.7 346.4 331.9	905.0 915.4 921.0 929.7 929.9 942.4 947.3	60.8 63.7 60.9 58.2 53.3 54.5 52.3	22.7 22.7 22.8 22.9 23.3 23.6 23.9	98.5 99.8 101.1 101.8 102.9 103.9 104.0	476.3 481.5 481.6 485.9 486.4 491.8 495.4	-5.8 -5.7 -5.3 -5.9 -6.6 -7.1 -7.9	1,854.3 1,874.0 1,900.7 1,940.7 1,975.3 2,022.3 2,048.8	1,318.7 1,344.4 1,365.3 1,395.2 1,426.3 1,462.7 1,486.1	436.8 420.7 427.6 438.3 444.2 454.5 458.4	96.9 98.2 99.1 100.0 100.9 102.1 102.2	1.9 10.7 8.8 7.3 4.0 3.0 2.2	23.2 35.8 4.7 -22.3 -52.4 -66.9 -101.8

¹ Includes Federal grants-in-aid. See Table B–82 for data on Federal grants-in-aid.

² Includes an item for the difference between wage accruals and disbursements, not shown separately.

Table B–86.—State and local government revenues and expenditures, selected fiscal years, 1938–2006 [Millions of dollars]

	General revenues by source 2 General expenditures by function 2 Sales Corpora- Revenue											
Fiscal year ¹	Total	Property taxes	Sales and gross receipts taxes	Individual income taxes	Corpora- tion net income taxes	Revenue from Federal Govern- ment	All other ³	Total ⁴	Edu- cation	High- ways	Public welfare ⁴	All other ^{4, 5}
1938	9,228	4,440	1,794	218	165	800	1,811	8,757	2,491	1,650	1,069	3,547
1940	9,609	4,430	1,982	224	156	945	1,872	9,229	2,638	1,573	1,156	3,862
1942	10,418	4,537	2,351	276	272	858	2,123	9,190	2,586	1,490	1,225	3,889
1944	10,908	4,604	2,289	342	451	954	2,269	8,863	2,793	1,200	1,133	3,737
1946	12,356	4,986	2,986	422	447	855	2,661	11,028	3,356	1,672	1,409	4,591
1948	17,250	6,126	4,442	543	592	1,861	3,685	17,684	5,379	3,036	2,099	7,170
1950	20,911	7,349	5,154	788	593	2,486	4,541	22,787	7,177	3,803	2,940	8,867
1952	25,181	8,652	6,357	998	846	2,566	5,763	26,098	8,318	4,650	2,788	10,342
1953	27,307	9,375	6,927	1,065	817	2,870	6,252	27,910	9,390	4,987	2,914	10,619
1954	29,012	9,967	7,276	1,127	778	2,966	6,897	30,701	10,557	5,527	3,060	11,557
1955	31,073	10,735	7,643	1,237	744	3,131	7,584	33,724	11,907	6,452	3,168	12,197
1956	34,667	11,749	8,691	1,538	890	3,335	8,465	36,711	13,220	6,953	3,139	13,399
1957	38,164	12,864	9,467	1,754	984	3,843	9,252	40,375	14,134	7,816	3,485	14,940
1958	41,219	14,047	9,829	1,759	1,018	4,865	9,699	44,851	15,919	8,567	3,818	16,547
1959	45,306	14,983	10,437	1,994	1,001	6,377	10,516	48,887	17,283	9,592	4,136	17,876
1960	50,505	16,405	11,849	2,463	1,180	6,974	11,634	51,876	18,719	9,428	4,404	19,325
1961	54,037	18,002	12,463	2,613	1,266	7,131	12,563	56,201	20,574	9,844	4,720	21,063
1962	58,252	19,054	13,494	3,037	1,308	7,871	13,489	60,206	22,216	10,357	5,084	22,549
1963	62,890	20,089	14,456	3,269	1,505	8,722	14,850	64,816	23,776	11,136	5,481	24,423
1962–63 1963–64 1964–65 1965–66 1966–67 1967–68 1968–69	62,269 68,443 74,000 83,036 91,197 101,264 114,550 130,756	19,833 21,241 22,583 24,670 26,047 27,747 30,673 34,054	14,446 15,762 17,118 19,085 20,530 22,911 26,519 30,322	3,267 3,791 4,090 4,760 5,825 7,308 8,908 10,812	1,505 1,695 1,929 2,038 2,227 2,518 3,180 3,738	8,663 10,002 11,029 13,214 15,370 17,181 19,153 21,857	14,556 15,951 17,250 19,269 21,198 23,599 26,117 29,973	63,977 69,302 74,678 82,843 93,350 102,411 116,728 131,332	23,729 26,286 28,563 33,287 37,919 41,158 47,238 52,718	11,150 11,664 12,221 12,770 13,932 14,481 15,417 16,427	5,420 5,766 6,315 6,757 8,218 9,857 12,110 14,679	23,678 25,586 27,579 30,029 33,281 36,915 41,963 47,508
1970–71 1971–72 1972–73 1973–74 1974–75 1975–76 1976–77 1977–78 1978–79	144,927 167,535 190,222 207,670 228,171 256,176 285,157 315,960 343,236 382,322	37,852 42,877 45,283 47,705 51,491 57,001 62,527 66,422 64,944 68,499	33,233 37,518 42,047 46,098 49,815 54,547 60,641 67,596 74,247 79,927	11,900 15,227 17,994 19,491 21,454 24,575 29,246 33,176 36,932 42,080	3,424 4,416 5,425 6,015 6,642 7,273 9,174 10,738 12,128 13,321	26,146 31,342 39,264 41,820 47,034 55,589 62,444 69,592 75,164 83,029	32,372 36,156 40,210 46,542 51,735 57,191 61,125 68,435 79,822 95,467	150,674 168,549 181,357 198,959 230,722 256,731 274,215 296,984 327,517 369,086	59,413 65,813 69,713 75,833 87,858 97,216 102,780 110,758 119,448 133,211	18,095 19,021 18,615 19,946 22,528 23,907 23,058 24,609 28,440 33,311	18,226 21,117 23,582 25,085 28,156 32,604 35,906 39,140 41,898 47,288	54,940 62,598 69,447 78,095 92,180 103,004 112,472 122,478 137,731 155,276
1980-81	423,404	74,969	85,971	46,426	14,143	90,294	111,599	407,449	145,784	34,603	54,105	172,957
1981-82	457,654	82,067	93,613	50,738	15,028	87,282	128,925	436,733	154,282	34,520	57,996	189,935
1982-83	486,753	89,105	100,247	55,129	14,258	90,007	138,008	466,516	163,876	36,655	60,906	205,080
1983-84	542,730	96,457	114,097	64,529	17,141	96,935	153,571	505,008	176,108	39,419	66,414	223,068
1984-85	598,121	103,757	126,376	70,361	19,152	106,158	172,317	553,899	192,686	44,989	71,479	244,745
1985-86	641,486	111,709	135,005	74,365	19,994	113,099	187,314	605,623	210,819	49,368	75,868	269,568
1986-87	686,860	121,203	144,091	83,935	22,425	114,857	200,350	657,134	226,619	52,355	82,650	295,510
1987-88	726,762	132,212	156,452	88,350	23,663	117,602	208,482	704,921	242,683	55,621	89,090	317,527
1988-89	786,129	142,400	166,336	97,806	25,926	125,824	227,838	762,360	263,898	58,105	97,879	342,479
1988-99	849,502	155,613	177,885	105,640	23,566	136,802	249,996	834,818	288,148	61,057	110,518	375,094
1990-91	902,207	167,999	185,570	109,341	22,242	154,099	262,955	908,108	309,302	64,937	130,402	403,467
1991-92	979,137	180,337	197,731	115,638	23,880	179,174	282,376	981,253	324,652	67,351	158,723	430,526
1992-93	1,041,643	189,744	209,649	123,235	26,417	198,663	293,935	1,030,434	342,287	68,370	170,705	449,072
1993-94	1,100,490	197,141	223,628	128,810	28,320	215,492	307,099	1,077,665	353,287	72,067	183,394	468,916
1994-95	1,169,505	203,451	237,268	137,931	31,406	228,771	330,677	1,149,863	378,273	77,109	196,703	497,779
1995-96	1,222,821	209,440	248,993	146,844	32,009	234,891	350,645	1,193,276	398,859	79,092	197,354	517,971
1996-97	1,289,237	218,877	261,418	159,042	33,820	244,847	371,233	1,249,984	418,416	82,062	203,779	545,727
1997-98	1,365,762	230,150	274,883	175,630	34,412	255,048	395,639	1,318,042	450,365	87,214	208,120	572,343
1998-99	1,434,029	239,672	290,993	189,309	33,922	270,628	409,505	1,402,369	483,259	93,018	218,957	607,134
1999-2000	1,541,322	249,178	309,290	211,661	36,059	291,950	443,186	1,506,797	521,612	101,336	237,336	646,512
2000-01		263,689	320,217	226,334	35,296	324,033	477,592	1,626,066	563,575	107,235	261,622	693,634
2001-02		279,191	324,123	202,832	28,152	360,546	490,035	1,736,866	594,694	115,295	285,464	741,413
2002-03		296,683	337,787	199,407	31,369	389,264	508,702	1,821,917	621,335	117,696	310,783	772,102
2003-04		318,242	360,629	215,215	33,716	425,683	536,256	1,907,915	655,361	118,179	339,895	794,481
2004-05		335,981	384,383	242,273	43,138	438,432	582,517	2,017,039	689,057	124,602	367,488	835,892
2005-06		359,109	412,114	268,599	52,931	452,233	641,032	2,128,449	727,967	135,412	374,927	890,143

¹ Fiscal years not the same for all governments. See Note.

Data prior to 1952 are not available for intervening years.

Source: Department of Commerce (Bureau of the Census).

² Excludes revenues or expenditures of publicly owned utilities and liquor stores and of insurance-trust activities. Intergovernmental receipts and payments

² Excludes revenues of expenditures of publicly owned unities and injuri stores and or insurance-russ activities, intergovernments are also excluded.
³ Includes motor vehicle license taxes, other taxes, and charges and miscellaneous revenues.
⁴ Includes intergovernmental payments to the Federal Government.
⁵ Includes expenditures for libraries, hospitals, health, employment security administration, veterans' services, air transportation, water transport and terminals, parking facilities, transit subsidies, police protection, fire protection, protective inspection and regulation, sewerage, natural resources, parks and recreation, housing and community development, solid waste management, infancial administration, judicial and legal, general public buildings, other government administration, interest on general debt, and other general expenditures, not elsewhere classified.

Note.—Except for States listed, data for fiscal years listed from 1962–63 to 2005–06 are the aggregation of data for government fiscal years that ended in the 12-month period from July 1 to June 30 of those years; Texas used August and Alabama and Michigan used September as end dates. Data for 1963 and earlier years include data for government fiscal years ending during that particular calendar year.

Data prior to 1952 are not several to the prior to the

Table B-87.—U.S. Treasury securities outstanding by kind of obligation, 1969-2008 [Billions of dollars]

-	Total	ry Total Tot								N	onmarketal	ole	
End of year or month	Treasury secu- rities out- stand-	Total ²	Treasury bills	Treasury notes	Treasury bonds	infla	Treasury ation-prote securities	cted	Total	U.S. savings secu-	Foreign series ⁴	Govern- ment account	Other ⁵
	ing 1					Total	Notes	Bonds		rities ³		series	
Fiscal year: 1969	351.7	226.1	68.4	78.9	78.8				125.6	51.7	4.1	66.8	3.1
1970	369.0	232.6	76.2	93.5	63.0				136.4	51.3	4.8	76.3	4.1
1971 1972	396.3 425.4	245.5 257.2	86.7 94.6	104.8 113.4	54.0 49.1				150.8 168.2	53.0 55.9	9.3 19.0	82.8 89.6	5.8 3.7
1973 1974	456.4 473.2	263.0 266.6	100.1 105.0	117.8 128.4	45.1 33.1				193.4 206.7	59.4 61.9	28.5 25.0	101.7 115.4	3.7 4.3
1975 1976	532.1 619.3	315.6 392.6	128.6 161.2	150.3 191.8	36.8 39.6				216.5 226.7	65.5 69.7	23.2 21.5	124.2 130.6	3.6 4.9
1977 1978	697.6 767.0	443.5 485.2	156.1 160.9	241.7 267.9	45.7 56.4				254.1 281.8	75.4 79.8	21.8 21.7	140.1 153.3	16.8 27.1
1979	819.0	506.7	161.4	274.2	71.1				312.3	80.4	28.1	176.4	27.4
1980 1981	906.4 996.5	594.5 683.2	199.8 223.4	310.9 363.6	83.8 96.2				311.9 313.3	72.7 68.0	25.2 20.5	189.8 201.1	24.2 23.7
1982 1983	1,140.9 1,375.8	824.4 1.024.0	277.9 340.7	442.9 557.5	103.6 125.7				316.5 351.8	67.3 70.0	14.6 11.5	210.5 234.7	24.1 35.6
1984 1985	1,559.6 1,821.0	1,176.6 1,360.2	356.8 384.2	661.7 776.4	158.1 199.5				383.0 460.8	72.8 77.0	8.8 6.6	259.5 313.9	41.8 63.3
1986	2,122.7	1,564.3	410.7	896.9	241.7				558.4	85.6	4.1	365.9	102.8
1987 1988	2,347.8 2,599.9	1,676.0 1,802.9	378.3 398.5	1,005.1 1,089.6	277.6 299.9				671.8 797.0	97.0 106.2	4.4 6.3	440.7 536.5	129.8 148.0
1989 1990	2,836.3 3,210.9	1,892.8 2.092.8	406.6 482.5	1,133.2	338.0 377.2				943.5 1,118.2	114.0 122.2	6.8 36.0	663.7 779.4	159.0 180.6
1991 1992	3,662.8 4,061.8	2,390.7 2,677.5	564.6 634.3	1,218.1 1,387.7 1,566.3	423.4 461.8				1,272.1	133.5 148.3	41.6 37.0	908.4	188.5 188.0
1993	4,408.6	2,904.9 3.091.6	658.4	1,734.2	497.4 511.8				1,503.7	167.0	42.5 42.0	1,114.3	179.9
1994 1995	4,689.5 4,950.6	3,260.4	697.3 742.5	1,867.5 1,980.3	522.6				1,597.9 1,690.2	176.4 181.2	41.0	1,211.7 1,324.3	167.8 143.8
1996 1997	5,220.8 5,407.5	3,418.4 3,439.6	761.2 701.9	2,098.7 2,122.2	543.5 576.2	24.4	24.4		1,802.4 1,967.9	184.1 182.7	37.5 34.9	1,454.7 1,608.5	126.1 141.9
1998 1999	5,518.7 5,647.2	3,331.0 3,233.0	637.6 653.2	2,009.1 1,828.8	610.4 643.7	58.8 92.4	41.9 67.6	17.0 24.8	2,187.7 2,414.2	180.8 180.0	35.1 31.0	1,777.3 2,005.2	194.4 198.1
2000	5,622.1 5,807.5	2,992.8 2,930.7	616.2 734.9	1,611.3 1,433.0	635.3 613.0	115.0 134.9	81.6 95.1	33.4 39.7	2,629.3 2,876.7	177.7 186.5	25.4 18.3	2,242.9 2,492.1	183.3 179.9
ZUUZ	6,228.2 6,783.2	3,136.7 3,460.7	868.3 918.2	1,521.6 1,799.5	593.0 576.9	138.9 166.1	93.7 120.0	45.1 46.1	3,091.5 3.322.5	193.3 201.6	12.5 11.0	2,707.3 2,912.2	178.4 197.7
2003	7,379.1 7,932.7	3,846.1	961.5	2,109.6 2,328.8	552.0 520.7	223.0			3,533.0	204.2	5.9	3.130.0	192.9
2005 2006	8,507.0	4,084.9 4,303.0	914.3 911.5	2,447.2	534.7	307.1 395.6			3,847.8 4,203.9	203.6 203.7	5.9 3.1 3.0	3,380.6 3,722.7	260.5 274.5
2007 2008	9,007.7 10,024.7	4,448.1 5,236.0	958.1 1,489.8	2,458.0 2,624.8	561.1 582.9	456.9 524.5			4,559.5 4,788.7	197.1 194.3	3.0 3.0	4,026.8 4,297.7	332.6 293.8
2007: Jan Feb	8,707.6 8,778.1	4,347.4 4,408.6	932.1 982.1	2,459.7 2,460.5	530.7 540.5	411.0 411.5			4,360.1 4,369.6	201.4 200.9	3.0 3.0	3,853.8 3,859.4	302.0 306.3
Mar Apr	8,849.7 8.840.2	4,468.8 4,412.4	1,033.1 944.1	2,468.5 2,482.7	540.5 540.5	412.7 431.1			4,380.9 4,427.8	200.3 199.8	3.5 3.5	3,859.2 3,897.3	317.8 327.2 336.3
May	8,829.0	4,378.3	919.1	2,463.0	547.3	435.0			4,450.7	199.2	3.0	3,912.3	336.3
June July	8,867.7 8,932.4	4,339.1 4,403.4	869.1 892.1	2,471.0 2,494.1	547.3 547.3	437.8 456.0			4,528.6 4,529.0	198.6 198.1	3.0 3.0	3,989.3 3,994.2	337.7 333.7
Aug Sept	9,005.6 9,007.7	4,496.2 4,448.1	1,014.1 958.1	2,450.0 2,458.0	561.1 561.1	457.0 456.9			4,509.4 4,559.5	197.4 197.1	3.0 3.0 3.0	3,976.4 4,026.8	332.6 332.6
Oct Nov	9,079.1 9,149.3	4,464.7 4,543.3	938.1 1,035.0	2,458.0 2,482.1 2,465.0	561.1 558.5	469.4 470.7			4,614.4 4,606.1	196.9 196.6	3.0	4,081.4 4,073.7	333.1 332.8
Dec	9,229.2	4,536.6	1,003.9	2,488.5	558.5	471.7			4,692.6	196.5	3.0	4,164.3	328.9
2008: Jan Feb	9,238.0 9,358.1	4,532.9 4,661.4	984.4 1,125.4	2,503.9 2,478.4	558.5 571.8	472.0 471.8			4,705.1 4,696.7	195.7 195.6	5.9 5.3	4,181.7 4,175.6	321.8 320.2
Mar Apr	9,437.6 9,377.6	4,732.4 4,642.6	1,158.4 1,025.7	2,514.1 2,540.7	571.8 571.8	474.1 490.3			4,705.2 4,735.0	195.4 195.3	4.9 4.9	4,183.7 4,213.6	321.2 321.1
May June	9,388.8 9,492.0	4,685.2 4,696.4	1,119.2 1,060.5	2,476.6 2,543.4	581.1 581.1	494.3 497.5			4,703.6 4,795.6	195.2 195.0	3.3 3.1	4,190.8 4,288.1	314.3 309.4
July Aug	9,585.5 9,645.8	4,822.1 4,901.9	1,135.8 1,227.2	2,574.8 2,556.4	581.1 582.9	516.5 521.4			4,763.4 4,743.9	194.8 194.5	3.0 3.0	4,266.0 4,250.9	299.6 295.6
Sept Oct	10,024.7	5,236.0 5,729.4	1,489.8 1,909.7	2,624.8 2,686.6	582.9 582.9	524.5 536.2			4,788.7 4,844.7	194.3 194.2	3.0 4.0	4,297.7 4,358.4	293.8 288.1
Nov	10,661.2	5,822.7	2,003.7	2,674.9	594.6	535.4			4,838.5	194.2	4.0	4,353.7	286.6

Source: Department of the Treasury.

Data beginning with January 2001 are interest-bearing and non-interest-bearing securities; prior data are interest-bearing securities only.
 Data from 1986 to 2002 and 2005 to 2008 include Federal Financing Bank securities, not shown separately.
 Through 1996, series is U.S. savings bonds. Beginning 1997, includes U.S. retirement plan bonds, U.S. individual retirement bonds, and U.S. savings notes previously included in "other" normarketable securities.

⁴ Nonmarketable certificates of indebtedness, notes, bonds, and bills in the Treasury foreign series of dollar-denominated and foreign-currency-denominated

issues.

5 Includes depository bonds; retirement plan bonds; Bural Electrification Administration bonds; State and local bonds; special issues held only by U.S.

6 Government agencies and trust funds and the Federal home loan banks; for the period July 2003 through February 2004, depositary compensation securities; and beginning August 2008, Hope bonds for the HOPE For Homeowners Program.

Note.—Through fiscal year 1976, the fiscal year was on a July 1—June 30 basis; beginning with October 1976 (fiscal year 1977), the fiscal year is on an October 1—September 30 basis.

Table B-88.—Maturity distribution and average length of marketable interest-bearing public debt securities held by private investors, 1969-2008

	Amount	•	, <u>1</u>	Maturity class				
End of year or month	outstanding, privately held	Within 1 year	1 to 5 years	5 to 10 years	10 to 20 years	20 years and over	Average	e length ¹
			Millions	of dollars			Years	Months
Fiscal year: 1969	156,008 157,910 161,863 165,978 167,869	69,311 76,443 74,803 79,509 84,041	50,182 57,035 58,557 57,157 54,139	18,078 8,286 14,503 16,033 16,385	6,097 7,876 6,357 6,358 8,741	12,337 8,272 7,645 6,922 4,564	4 333332	2 8 6 3 1
1974	164,862 210,382 279,782 326,674 356,501 380,530	87,150 115,677 150,296 161,329 163,819 181,883	50,103 65,852 90,578 113,319 132,993 127,574	14,197 15,385 24,169 33,067 33,500 32,279	9,930 8,857 8,087 8,428 11,383 18,489	3,481 4,611 6,652 10,531 14,805 20,304	2 2 2 2 2 3 3	11 8 7 11 3
1980	463,717 549,863 682,043 862,631 1,017,488 1,185,675 1,354,275 1,445,366 1,555,208 1,654,660	220,084 256,187 314,436 379,579 437,941 472,661 506,903 483,582 524,201 546,751	156,244 182,237 221,783 294,955 332,808 402,766 467,348 526,746 552,993 578,333	38,809 48,743 75,749 99,174 130,417 159,383 189,995 209,160 232,453 247,428	25,901 32,569 33,017 40,826 49,664 62,853 70,664 72,862 74,186 80,616	22,679 30,127 37,058 48,097 66,658 88,012 119,365 153,016 171,375 201,532	3434445556	9 0 11 1 6 11 3 9 9
1990 1991 1992 1993 1994 1995 1996 1997 1998	1,841,903 2,113,799 2,363,802 2,562,336 2,719,861 2,870,781 3,011,185 2,998,846 2,856,637 2,728,011	626,297 713,778 808,705 858,135 877,932 1,002,875 1,058,558 1,017,913 940,572 915,145	630,144 761,243 866,329 978,714 1,128,322 1,157,492 1,212,258 1,206,993 1,105,175 962,644	267,573 280,574 295,921 306,663 289,998 290,111 306,643 321,622 319,331 378,163	82,713 84,900 84,706 94,345 88,208 87,297 111,360 154,205 157,347 149,703	235,176 273,304 308,141 324,479 335,401 333,006 322,366 298,113 334,212 322,356	000000000000000000000000000000000000000	1 0 11 10 8 4 3 5 10 0
2000	2,469,152 2,328,302 2,492,821 2,804,092 3,145,244 3,334,411 3,496,359 3,634,666 4,745,256	858,903 900,178 939,986 1,057,049 1,127,850 1,100,783 1,140,553 1,176,510 2,042,003	791,540 650,522 802,032 955,239 1,150,979 1,279,646 1,295,589 1,309,871 1,468,455	355,382 329,247 311,176 351,552 414,728 499,386 589,748 677,905 719,347	167,082 174,653 203,816 243,755 243,036 281,229 290,733 291,963 352,430	296,246 273,702 235,811 196,497 208,652 173,367 179,736 178,417 163,022	66555444444444444444444444444444444444	2 1 6 1 11 10 11 10
2007: Jan	3,554,471 3,613,660 3,649,732 3,611,093 3,573,898 3,514,691 3,598,529 3,702,458 3,634,666 3,671,046 3,749,458 3,749,458	1,124,464 1,171,311 1,220,193 1,128,525 1,123,310 1,075,672 1,102,053 1,215,692 1,176,510 1,171,587 1,272,770	1,335,480 1,332,822 1,324,286 1,357,728 1,305,310 1,296,936 1,349,349 1,333,432 1,309,871 1,332,632 1,309,028 1,309,028	634,734 640,611 636,049 655,774 682,977 679,143 677,402 682,935 677,905 696,633 692,196 700,562	290,298 298,399 298,554 298,188 286,028 286,376 292,887 291,975 291,857 310,684 310,814	169,494 170,517 170,648 170,878 176,272 176,564 176,838 178,425 178,417 178,337 164,780 164,878	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	10 10 9 10 11 11 11 10 10 9
2008: Jan	3,805,408 3,933,939 4,127,033 4,079,776 4,162,323 4,203,441 4,328,809 4,386,440 4,745,256 5,238,827 5,312,125	1,315,046 1,454,105 1,607,155 1,509,658 1,618,739 1,580,568 1,668,784 1,774,790 2,042,003 2,462,352 2,540,826	1,295,456 1,294,886 1,323,534 1,366,837 1,329,756 1,396,177 1,439,791 1,390,479 1,496,698 1,490,667	710,580 691,672 702,527 709,124 718,171 730,327 716,694 706,395 719,347 764,782 761,948	319,185 319,156 319,481 338,330 333,602 334,145 341,086 351,906 352,430 352,076 355,148	165,140 174,120 174,336 155,827 162,056 162,224 162,453 162,870 163,022 162,919 163,536	4 4 4 4 4 4 4 4 4 3 3	9 8 5 6 6 6 5 5 1 10

¹ Treasury inflation-protected securities—notes, first offered in 1997, and bonds, first offered in 1998—are included in the average length calculation from 1997 forward.

Source: Department of the Treasury.

Note.—Through fiscal year 1976, the fiscal year was on a July 1–June 30 basis; beginning with October 1976 (fiscal year 1977), the fiscal year is on an October 1–September 30 basis.

Data shown in this table are as of December 4, 2008.

Table B-89.—Estimated ownership of U.S. Treasury securities, 1994-2008

[Billions of dollars]

			Fodoral			TOIIIIGI C		Held by priv	ate investor	rs			
		T. 1	Federal Reserve and				Pensio	n funds			_		
E	nd of month	Total public debt ¹	Intragov- ernmen- tal hold- ings ²	Total privately held	De- pository institu- tions ³	U.S. savings bonds ⁴	Private ⁵	State and local govern- ments	Insur- ance compa- nies	Mutual funds ⁶	State and local govern- ments	Foreign and inter- national ⁷	Other inves- tors ⁸
1994:	Mar	4,575.9	1,476.0	3,099.9	397.4	175.0	120.1	224.3	233.4	212.8	443.4	661.1	632.3
	June	4,645.8	1,547.5	3,098.3	383.9	177.1	129.4	220.6	238.1	204.6	425.2	659.9	659.5
	Sept	4,692.8	1,562.8	3,130.0	364.0	178.6	136.4	217.4	243.7	201.5	398.2	682.0	708.1
	Dec	4,800.2	1,622.6	3,177.6	339.6	179.9	140.1	215.6	240.0	209.4	370.0	667.3	815.7
1995:	Mar	4,864.1	1,619.3	3,244.8	352.9	181.4	142.1	225.0	244.2	210.5	350.5	707.0	831.4
	June	4,951.4	1,690.1	3,261.3	339.9	182.6	142.9	217.2	245.0	202.4	313.7	762.5	855.1
	Sept	4,974.0	1,688.0	3,286.0	330.8	183.5	142.3	211.3	245.2	211.5	304.3	820.4	836.8
	Dec	4,988.7	1,681.0	3,307.7	315.4	185.0	143.0	208.2	241.5	224.9	289.8	835.2	864.8
1996:	Mar	5,117.8	1,731.1	3,386.7	322.1	185.8	144.7	213.5	239.4	240.8	283.6	908.1	848.8
	June	5,161.1	1,806.7	3,354.4	318.7	186.5	144.9	221.1	229.5	230.4	283.3	929.7	810.3
	Sept	5,224.8	1,831.6	3,393.2	310.9	186.8	141.6	213.4	226.8	226.4	263.7	993.4	830.1
	Dec	5,323.2	1,892.0	3,431.2	296.6	187.0	140.4	212.8	214.1	227.2	257.0	1,102.1	794.0
1997:	Mar	5,380.9	1,928.7	3,452.2	317.3	186.5	141.7	211.1	181.8	221.6	248.1	1,157.6	786.5
	June	5,376.2	1,998.9	3,377.3	300.2	186.3	142.1	214.9	183.1	216.4	243.3	1,182.7	708.2
	Sept	5,413.1	2,011.5	3,401.6	292.8	186.2	143.0	223.5	186.8	221.3	235.2	1,230.5	682.3
	Dec	5,502.4	2,087.8	3,414.6	300.3	186.5	144.1	219.0	176.6	232.3	239.3	1,241.6	674.9
1998:	Mar	5,542.4	2,104.9	3,437.5	308.3	186.2	141.3	212.1	169.5	234.6	238.1	1,250.5	696.9
	June	5,547.9	2,198.6	3,349.3	290.9	186.0	139.0	213.2	160.6	230.8	258.5	1,256.0	614.4
	Sept	5,526.2	2,213.0	3,313.2	244.5	185.9	135.5	207.8	151.4	231.7	271.8	1,224.2	660.3
	Dec	5,614.2	2,280.2	3,334.0	237.4	186.6	133.2	212.6	141.7	257.6	280.8	1,278.7	605.4
1999:	Mar	5,651.6	2,324.1	3,327.5	247.4	186.5	135.5	211.5	137.5	245.0	288.4	1,272.3	603.4
	June	5,638.8	2,439.6	3,199.2	240.6	186.5	142.9	213.8	133.6	228.1	298.6	1,258.8	496.3
	Sept	5,656.3	2,480.9	3,175.4	241.2	186.2	150.9	204.8	128.0	222.5	299.2	1,281.4	461.1
	Dec	5,776.1	2,542.2	3,233.9	248.7	186.4	153.0	198.8	123.4	228.7	304.5	1,268.7	521.7
2000:	Mar	5,773.4	2,590.6	3,182.8	237.7	185.3	150.2	196.9	120.0	222.3	306.3	1,106.9	657.2
	June	5,685.9	2,698.6	2,987.3	222.2	184.6	149.0	194.9	116.5	205.4	309.3	1,082.0	523.5
	Sept	5,674.2	2,737.9	2,936.3	220.5	184.3	147.9	185.5	113.7	207.8	307.9	1,057.9	510.8
	Dec	5,662.2	2,781.8	2,880.4	201.5	184.8	145.0	179.1	110.2	225.7	310.0	1,034.2	490.0
2001:	Mar	5,773.7	2,880.9	2,892.8	188.0	184.8	153.4	177.3	109.1	225.3	316.9	1,029.9	508.1
	June	5,726.8	3,004.2	2,722.6	188.1	185.5	148.5	183.1	108.1	221.0	324.8	1,000.5	363.1
	Sept	5,807.5	3,027.8	2,779.7	189.1	186.4	149.9	166.8	106.8	234.1	321.2	1,005.5	419.8
	Dec	5,943.4	3,123.9	2,819.5	181.5	190.3	144.6	155.1	105.7	261.9	328.4	1,051.2	400.8
2002:	Mar	6,006.0	3,156.8	2,849.2	187.6	191.9	150.6	163.3	114.0	266.1	327.6	1,067.1	381.0
	June	6,126.5	3,276.7	2,849.8	204.7	192.7	149.0	153.9	122.0	253.8	333.6	1,135.4	304.6
	Sept	6,228.2	3,303.5	2,924.8	209.3	193.3	151.4	156.3	130.4	256.8	338.6	1,200.8	287.9
	Dec	6,405.7	3,387.2	3,018.5	222.6	194.9	150.8	158.9	139.7	281.0	354.7	1,246.8	269.2
2003:	Mar	6,460.8	3,390.8	3,069.9	153.6	196.9	162.9	162.1	139.5	296.6	350.0	1,286.3	322.0
	June	6,670.1	3,505.4	3,164.7	145.4	199.1	167.3	161.3	138.7	302.3	347.9	1,382.8	320.0
	Sept	6,783.2	3,515.3	3,268.0	147.0	201.5	164.6	155.5	137.4	287.1	357.7	1,454.2	363.1
	Dec	6,998.0	3,620.1	3,377.9	153.3	203.8	169.2	148.6	136.5	280.8	364.2	1,533.0	388.4
2004:	Mar	7,131.1	3,628.3	3,502.8	162.9	204.4	167.0	143.6	141.0	280.8	374.1	1,677.1	351.9
	June	7,274.3	3,742.8	3,531.5	158.7	204.6	170.2	134.9	144.1	258.7	381.2	1,739.6	339.5
	Sept	7,379.1	3,772.0	3,607.0	138.5	204.1	170.6	140.8	147.4	255.0	381.7	1,798.7	370.1
	Dec	7,596.1	3,905.6	3,690.6	125.0	204.4	170.5	151.0	149.7	254.1	389.1	1,853.4	393.3
2005:	Mar	7,776.9	3,921.6	3,855.4	141.8	204.2	174.3	158.0	152.4	261.1	412.0	1,956.3	395.2
	June	7,836.5	4,033.5	3,803.0	127.0	204.2	177.5	171.3	155.0	248.7	444.0	1,879.6	395.8
	Sept	7,932.7	4,067.8	3,864.9	125.4	203.6	180.9	164.8	159.0	244.7	467.6	1,930.6	388.2
	Dec	8,170.4	4,199.8	3,970.6	117.2	205.1	181.2	153.8	160.4	251.3	481.4	2,036.0	384.1
	Mar	8,371.2	4,257.2	4,114.0	115.4	206.0	183.0	153.0	161.3	248.7	486.1	2,084.5	475.9
	June	8,420.0	4,389.2	4,030.8	117.4	205.2	188.4	150.9	161.2	244.2	499.4	1,979.8	484.2
	Sept	8,507.0	4,432.8	4,074.2	113.8	203.7	191.2	151.6	160.6	235.7	502.1	2,027.3	488.2
	Dec	8,680.2	4,558.1	4,122.1	115.1	202.4	193.2	153.0	159.0	250.7	516.9	2,105.0	426.8
2007:	Mar	8,849.7	4,576.6	4,273.1	119.9	200.3	198.5	155.1	150.8	264.2	535.0	2,196.7	452.5
	June	8,867.7	4,715.1	4,152.6	110.6	198.6	202.2	156.1	142.1	267.2	550.3	2,193.9	331.6
	Sept	9,007.7	4,738.0	4,269.7	119.8	197.1	205.9	161.4	133.4	306.7	541.4	2,237.2	366.7
	Dec	9,229.2	4,833.5	4,395.7	129.9	196.5	211.6	164.5	123.3	362.7	531.5	2,355.1	320.7
2008:	Mar June Sept	9,437.6 9,492.0 10,024.7	4,694.7 4,685.8 4,680.8	4,742.9 4,806.2 5,343.9	127.9 115.4	195.4 195.0 194.3	222.1 226.0	165.0 167.3	123.4 123.4	464.7 449.8	523.6 522.2	2,515.6 2,647.9 2,862.0	405.1 359.1

Source: Department of the Treasury.

Federal Reserve holdings exclude Treasury securities held under repurchase agreements.
 Includes commercial banks, savings institutions, and credit unions.

⁴ Current accrual value.

Sincludes Treasury securities held by the Federal Employees Retirement System Thrift Savings Plan "G Fund."
 Includes Treasury securities held by the Federal Employees Retirement System Thrift Savings Plan "G Fund."
 Includes money market mutual funds, mutual funds, and closed-end investment companies.
 Includes nonmarketable foreign series, Treasury securities, and Treasury deposit funds, Excludes Treasury securities held under repurchase agreements in custody accounts at the Federal Reserve Bank of New York. Estimates reflect benchmarks to this series at differing intervals; for further detail, see *Treasury*

⁸ Includes individuals, Government-sponsored enterprises, brokers and dealers, bank personal trusts and estates, corporate and noncorporate businesses, and other investors.

Note.—Data shown in this table are as of December 4, 2008.

Corporate Profits and Finance

Table B-90.—Corporate profits with inventory valuation and capital consumption adjustments,

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

	Corporate profits	Taxes	Corporate pr and ca	ofits after tax with invent apital consumption adjust	tory valuation tments
Year or quarter	with inventory valuation and capital consumption adjustments	on corporate income	Total	Net dividends	Undistributed profits with inventory valuation and capital consumption adjustments
1959	55.7	23.7	32.0	12.6	19.4
1960		22.8	31.0	13.4	17.6
1961 1962	54.9 63.3	22.9 24.1	32.0 39.2	13.9 15.0	18.1 24.1
1963	69.0	26.4	42.6	16.2	26.4
1964 1965	76.5 87.5	28.2 31.1	48.3 56.4	18.2 20.2	30.1 36.2
1966	93.2	33.9	59.3	20.7	38.7
1967 1968		32.9 39.6	58.4 59.2	21.5 23.5	36.9 35.6
1969	95.4	40.0	55.4	24.2	31.2
1970		34.8	48.9	24.3	24.6
1971 1972	98.0 112.1	38.2 42.3	59.9 69.7	25.0 26.8	34.8 42.9
1973	125.5	50.0	75.5	29.9	45.6
1974 1975		52.8 51.6	63.0 83.2	33.2 33.0	29.8 50.2
1976	163.3	65.3	98.1	39.0	59.0
1977 1978	192.4 216.6	74.4 84.9	118.0 131.8	44.8 50.8	73.2 81.0
1979	223.2	90.0	133.2	57.5	75.7
1980		87.2 84.3	113.9 141.8	64.1 73.8	49.9 68.0
1981 1982	209.7	66.5	143.2	77.7	65.4
1983 1984	264.2 318.6	80.6 97.5	183.6 221.1	83.5 90.8	100.1 130.3
1985	330.3	99.4	230.9	97.6	133.4
1986	319.5	109.7 130.4	209.8 238.4	106.2 112.3	103.7 126.1
1987 1988	432.6	141.6	291.0	129.9	161.1
1989	426.6	146.1	280.5	158.0	122.6
1990 1991		145.4 138.6	292.4 312.6	169.1 180.7	123.3 131.9
1992	479.3	148.7	330.6	187.9	142.7
1993 1994	541.9 600.3	171.0 193.7	370.9 406.5	202.8 234.7	168.1 171.8
1995	696.7	218.7	478.0	254.2	223.8
1996 1997		231.7 246.1	554.5 622.4	297.6 334.5	256.9 287.9
1998	801.6	248.3	553.3	351.6	201.7
1999		258.6 265.2	592.6	337.4 377.9	255.3
2000 2001		205.2	552.7 563.2	377.9 370.9	174.8 192.3
2002	886.3	192.6	693.7 749.9	399.2 424.7	294.5 325.1
2003 2004	1,231.2	243.3 307.4	923.9	539.5	384.4
2005	1,447.9	413.7	1,034.2	577.4	456.9 497.5
2006 2007	1,668.5 1,642.4	468.9 450.4	1,199.6 1,192.0	702.1 788.7	497.5
2005: I	1.438.2	407.2	1,031.0	553.0	478.0
 		412.0 386.4	1,060.4 956.2	561.6 581.4	498.8 374.8
IV		449.2	1,089.4	613.4	476.0
2006:		453.8	1,180.3	652.8	527.5
II		474.8 487.2	1,206.8 1,226.6	688.8 720.9	518.0 505.6
IV	1,644.5	459.8	1,184.8	745.8	439.0
2007:		448.5	1,169.3	761.5	407.8
	1,672.5 1,668.3	468.5 451.1	1,204.0 1,217.3	779.2 797.6	424.8 419.7
IV	1,611.1	433.5	1,1//.6	816.4	361.2
2008: I		402.9 406.8	1,190.6 1,126.5	832.5 846.4	358.1 280.0
<i>p</i>		396.9	1,120.5	840.4 841.4	280.u 280.4

Table B–91.—Corporate profits by industry, 1959–2008

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

			Corporat	e profits w	ith invent	ory valuati	on adjustr	ment and	without ca	pital cons	umption a	djustment		
							Domestic	industries						
Year or quarter	Total			Financial					Nonfir	nancial				Rest of
	TOTAL	Total	Total	Federal Reserve banks	Other	Total	Manu- factur- ing ¹	Trans- porta- tion ²	Utilities	Whole- sale trade	Retail trade	Infor- mation	Other	the world
SIC: 3 1959	53.5	50.8	7.6	0.7	6.9	43.2	26.5	7.1		2.9	3.3		3.4	2.7
1960	51.5 51.8	48.3 48.5	8.4 8.3	.9	7.5 7.6	39.9 40.2	23.8 23.4	7.5 7.9		2.5 2.5	2.8 3.0		3.3 3.4	3.1 3.3
1961 1962 1963	57.0 62.1	53.3 58.1	8.6 8.3	.0 .9 1.0	7.0 7.7 7.3	44.7 49.8	26.3 29.7	8.5 9.5		2.8 2.8 2.8	3.4 3.6		3.6 4.1	3.8 4.1
1964 1965	68.6 78.9	64.1 74.2	8.8 9.3	1.1	7.6 8.0	55.4 64.9	32.6 39.8	10.2 11.0		3.4 3.8	4.5 4.9		4.7 5.4	4.5 4.7
1966 1967	84.6 82.0	80.1 77.2	10.7 11.2	1.7 2.0	9.1 9.2	69.3 66.0	42.6 39.2	12.0 10.9		4.0 4.1	4.9 5.7		5.9 6.1	4.5 4.8
1968 1969	88.8 85.5	83.2 78.9	12.8 13.6	2.5 3.1	10.3 10.5	70.4 65.3	41.9 37.3	11.0 10.7		4.6 4.9	6.4 6.4		6.6 6.1	5.6 6.6
1970 1971	74.4 88.3	67.3 80.4	15.4 17.6	3.5 3.3	11.9 14.3	52.0 62.8	27.5 35.1	8.3 8.9		4.4 5.2	6.0 7.2		5.8 6.4	7.1 7.9
1972	101.2 115.3	91.7 100.4	19.1 20.5	3.3 4.5	15.8 16.0	72.6 79.9	41.9 47.2	9.5 9.1		6.9 8.2	7.4 6.6		7.0 8.7	9.5 14.9
1974 1975	109.5 135.0	92.1 120.4	20.2 20.2	5.7 5.6	14.5 14.6	71.9 100.2	41.4 55.2	7.6 11.0		11.5 13.8	2.3 8.2		9.1 12.0	17.5 14.6
1976 1977	165.6 194.7	149.0 175.6	25.0 31.9	5.9 6.1	19.1 25.8	124.1 143.7	71.3 79.3	15.3 18.6		12.9 15.6	10.5 12.4		14.0 17.8	16.5 19.1
1978 1979	222.4 231.8	199.6 197.2	39.5 40.3	7.6 9.4	31.9 30.9	160.0 156.8	90.5 89.6	21.8 17.0		15.6 18.8	12.3 9.8		19.8 21.6	22.9 34.6
1980 1981	211.4 219.1	175.9 189.4	34.0 29.1	11.8 14.4	22.2 14.7	141.9 160.3	78.3 91.1	18.4 20.3		17.2 22.4	6.2 9.9		21.8 16.7	35.5 29.7
1982	191.0 226.5	158.5 191.4	26.0 35.5	15.2 14.6	10.8	132.4 155.9	67.1 76.2	23.1 29.5		19.6 21.0	13.4 18.7		9.2	32.6 35.1
1984 1985	264.6 257.5	228.1 219.4	34.4 45.9	16.4 16.3	18.0 29.5	193.7 173.5	91.8 84.3	40.1 33.8		29.5 23.9	21.1 22.2		11.1	36.6 38.1
1986 1987	253.0 301.4	213.5 253.4	56.8 59.8	15.5 15.7	41.2 44.1	156.8 193.5	57.9 86.3	35.8 41.9		24.1 18.6	23.5 23.4		15.5 23.4	39.5 48.0
1988 1989	363.9 367.4	306.9 300.3	68.7 77.9	17.6 20.2	51.1 57.8	238.2 222.3	121.2 110.9	48.4 43.3		20.1 21.8	20.3 20.8		28.3 25.5	57.0 67.1
1990 1991	396.6 427.9	320.5 351.4	94.4 124.2	21.4 20.3	73.0 103.9	226.1 227.3	113.1 98.0	44.2 53.3		19.2 21.7	20.7 26.7		29.0 27.5	76.1 76.5
1992 1993	458.3 513.1	385.2 436.1	129.8 136.8	17.8 16.2	111.9 120.6	255.4 299.3	99.5 115.6	58.4 69.5		25.1 26.3	32.6 39.1		39.7 48.9	73.1 76.9
1994 1995	564.6 656.0	487.6 563.2	119.9 162.2	18.1 22.5	101.8 139.7	367.7 401.0	147.0 173.7	83.2 85.8		30.9 27.3	46.2 43.1		60.4 71.2	77.1 92.8
1996	736.1 812.3	634.2 701.4	172.6 193.0	22.1 23.8	150.5 169.2	461.6 508.4	188.8 209.0	91.3 84.2		39.8 47.6	51.9 64.2		89.7 103.4	101.9 110.9
1998 1999	738.5 776.8	635.5 655.3	165.9 196.4	25.2 26.3	140.7 170.1	469.6 458.9	173.5 175.2	78.9 56.8		52.3 52.6	73.4 74.6		91.5 99.7	103.0 121.5
2000 NAICS: 3	759.3	613.6	203.8	30.8	173.0	409.8	166.3	43.8		56.9	70.1		72.8	145.7
1998 1999	738.5 776.8	635.5 655.3	165.4 194.3	25.2 26.3	140.2 168.0	470.1 461.1	157.0 150.6	21.0 16.1	32.7 33.1	53.2 55.5	66.4 65.2	20.1 10.5	119.8 130.1	103.0 121.5
2000	759.3 719.2	613.6 549.5	200.2 227.6	30.8	169.4 199.3	413.4 322.0	144.3 52.6	14.9 1.3	24.4 24.7	59.7 52.1	59.6 71.0	-17.6 -25.6	128.2 145.9	145.7 169.7
2002	766.2 894.5	610.4 729.0	276.4 317.3	28.3 23.7 20.1	199.3 252.7 297.2	334.0 411.8	48.2 76.0	9 7.3	10.6	49.3 55.2	79.4 86.8	-8.5 3.2	155.8 171.7	169.7 155.8 165.5
2004	1,161.6 1,582.8	968.2 1,343.3	348.9 425.3	20.0 26.6	328.9 398.7	619.3 918.1	152.7 243.8	14.1 29.1	18.6 28.9	79.2 97.3	91.1 120.4	43.9 79.7	219.7 318.9	193.4 239.4
2006 2007	1,834.2 1,835.1	1,566.7 1,490.5	478.8 449.9	33.8 37.7	445.0 412.2	1,087.9 1,040.6	304.3 316.6	42.5 42.7	55.6 58.5	107.5 102.6	132.3 132.3	91.1 103.0	354.7 284.9	267.5 344.7
2006:	1,778.7 1,841.6	1,528.3 1,571.9	470.0 493.1	31.0 33.6	439.0 459.5	1,058.3 1,078.8	279.2 305.8	39.3 44.2	44.9 53.5	102.3 94.5	133.5 126.0	87.2 91.3	371.8 363.7	250.5 269.7
 	1,887.2	1,626.7 1,540.0	473.3 478.8	35.8 34.9	437.5 443.8	1,153.4 1,061.2	333.5 298.9	42.2 44.4	62.5 61.4	128.3 104.9	132.1 137.5	95.8 89.9	359.1 324.2	260.5 289.4
2007: I	1,794.7	1,496.6 1,556.7	454.1 492.7	38.2 38.5	415.9 454.2	1,042.5 1,064.0	317.0 350.8	40.7 45.4	57.2 54.7	108.2 112.7	132.8 145.9	100.8 85.0	285.8 269.4	298.1 302.9
 V	1,866.1 1,820.2	1,509.7 1,509.7 1,398.9	492.7 460.3 392.4	37.5 36.5	422.8 355.9	1,004.0 1,049.3 1,006.5	306.6 292.1	47.0 37.7	58.7 63.2	109.1 80.2	126.0 124.5	108.4 117.9	293.5 290.9	356.4 421.3
2008: I	1,641.5	1,243.1 1,222.5	412.8 383.2	35.8 31.0	377.1 352.2	830.2 839.3	240.5 214.9	24.4 24.8	46.2 56.7	49.2 59.4	112.0 92.7	106.0 115.0	252.0 275.8	398.5 373.5
 P	1,596.0 1,606.9	1,234.3	322.7	34.4	288.2	911.6	214.5	Z4.0	30.7	39.4	JZ./		2/0.0	373.5

See Table B–92 for industry detail.
 Data on Standard Industrial Classification (SIC) basis include transportation and public utilities. Those on North American Industry Classification System (NAICS) basis include transporation and warehousing. Utilities classified separately in NAICS (as shown beginning 1989).
 SIC-based industry data use the 1987 SIC for data beginning in 1987 and the 1972 SIC for prior data. NAICS-based data use 1997 NAICS.

Note.—Industry data on SIC basis and NAICS basis are not necessarily the same and are not strictly comparable.

Table B-92.—Corporate profits of manufacturing industries, 1959-2008

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

			Corporate	profits with	h inventory	valuation a	djustment a	and withou	t capital co	nsumption	adjustment		
				Du	urable good	S 2				Nor	idurable go	ods ²	
Year or quarter	Total manu- factur- ing	Total ¹	Fabri- cated metal products	Ma- chinery	Computer and electronic products	Electrical equipment, appliances, and components	Motor vehi- cles, bodies and trailers, and parts	Other	Total	Food and bever- age and tobacco products	Chem- ical products	Petro- leum and coal products	Other
SIC: ³ 1959	26.5	13.7	1.1	2.2		1.7	3.0	3.5	12.9	2.5	3.5	2.6	4.3
1960	23.8 23.4 26.3 29.7 32.6 39.8 42.6 39.2 41.9 37.3	11.6 11.3 14.1 16.4 18.1 23.3 24.1 21.3 22.5 19.2	.8 1.0 1.2 1.3 1.5 2.1 2.4 2.5 2.3 2.0	1.8 1.9 2.4 2.6 3.3 4.0 4.6 4.2 4.2 3.8		1.3 1.5 1.6 1.7 2.7 3.0 3.0 2.9 2.3	3.0 2.5 4.0 4.9 4.6 6.2 5.2 4.0 5.5 4.8	2.7 2.9 3.4 4.0 4.4 5.2 5.2 4.9 5.6 4.9	12.2 12.1 12.3 13.3 14.5 16.5 18.6 18.0 19.4 18.1	2.2 2.4 2.4 2.7 2.7 2.9 3.3 3.3 3.2 3.1	3.1 3.3 3.2 3.7 4.1 4.6 4.9 4.3 5.3 4.6	2.6 2.3 2.2 2.2 2.4 2.9 3.4 4.0 3.8 3.4	4.2 4.4 4.7 5.3 6.1 6.9 6.4 7.1
1970	27.5 35.1 41.9 47.2 41.4 55.2 71.3 79.3 89.6	10.5 16.6 22.7 25.1 15.3 20.6 31.4 37.9 45.4 37.1	1.1 1.5 2.2 2.7 1.8 3.3 3.9 4.5 5.0	3.1 4.5 4.9 3.3 5.1 6.9 8.6 10.7 9.5		1.3 2.0 2.9 3.2 .6 2.6 3.8 5.9 6.7 5.6	1.3 5.2 6.0 5.9 7.4 9.4 9.0 4.7	2.9 4.1 5.6 6.2 4.0 4.7 7.3 8.5 10.5	17.0 18.5 19.2 22.0 26.1 34.5 39.9 41.4 45.1 52.5	3.2 3.6 3.0 2.5 2.6 8.6 7.1 6.9 6.2 5.8	3.9 4.5 5.3 6.2 5.3 6.4 8.2 7.8 8.3 7.2	3.7 3.8 3.3 5.4 10.9 10.1 13.5 13.1 15.8 24.8	6.1 6.6 7.6 7.9 7.3 9.5 11.1 13.6 14.8
1980 1981 1982 1983 1984 1985 1986 1987 1988	78.3 91.1 67.1 76.2 91.8 84.3 57.9 86.3 121.2	18.9 19.5 5.0 19.5 39.3 29.7 26.3 40.7 54.1	4.4 4.5 2.7 3.1 4.7 4.9 5.2 5.5 6.5	8.0 9.0 3.1 4.0 6.0 5.7 .8 5.4 11.1		5.2 5.2 1.7 3.5 5.1 2.6 2.7 5.9 7.7 9.3	-4.3 .3 .0 5.3 9.2 7.4 4.6 3.7 6.2 2.7	2.7 -2.6 2.1 8.4 14.6 10.1 12.1 17.6 16.5	59.5 71.6 62.1 56.7 52.6 54.6 31.7 45.6 67.1 59.7	6.1 9.2 7.3 6.3 6.8 8.8 7.5 11.4 12.0	5.7 8.0 5.1 7.4 8.2 6.6 7.5 14.4 18.6	34.7 40.0 34.7 23.9 17.6 18.7 -4.7 -1.5 12.7 6.5	13.1 14.5 15.0 19.1 20.1 20.5 21.3 23.7 23.9
1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000	113.1 98.0 99.5 115.6 147.0 173.7 188.8 209.0 173.5 175.2	43.8 34.4 40.6 55.8 74.4 80.9 90.6 103.1 87.3 78.8 64.8	6.0 5.3 6.2 7.4 11.1 11.8 14.5 17.0 16.4 16.2	11.8 5.7 7.5 7.5 9.1 14.8 16.9 16.7 19.5 12.4		8.5 10.0 10.4 15.2 22.8 21.5 20.1 25.3 8.9 5.3	-1.9 -5.4 -1.0 6.0 7.8 .0 4.2 4.8 5.9 7.3 -1.5	15.9 17.3 17.4 19.4 21.3 25.8 29.2 33.0 30.1 35.3 28.8	69.2 63.6 59.0 59.7 72.6 92.8 98.2 105.9 86.2 96.4 101.5	14.3 18.1 18.2 16.4 19.9 27.1 22.1 24.6 21.9 28.1	16.8 16.2 16.0 15.9 23.2 27.9 26.4 32.3 26.5 25.2	16.4 7.3 9 2.7 1.2 7.1 15.0 17.3 6.7 4.3 29.1	21.7 22.0 25.6 24.7 28.3 30.6 34.7 31.7 31.1 38.9 30.7
NAICS:3 1998 1999 2000 2001 2001 2002 2003 2004 2005 2006 2007	157.0 150.6 144.3 52.6 48.2 76.0 152.7 243.8 304.3 316.6	83.4 72.3 60.0 -25.4 -9.9 -5.9 38.3 93.3 115.9 127.4	16.7 16.5 15.5 9.9 8.9 7.9 11.9 17.8 19.2 21.7	15.6 12.4 8.2 2.7 1.7 1.5 7.2 14.9 20.0 22.3	3.9 -6.5 4.0 -48.5 -35.3 -15.6 -4.9 7.9 14.1 13.5	6.1 6.3 5.6 1.9 1 2.1 .3 -1.6 8.4	6.4 7.3 -1.0 -9.2 -5.0 -12.3 -7.6 .1 -8.4 -5.9	34.6 36.4 27.7 17.8 20.0 10.5 31.3 54.2 62.6 64.9	73.6 78.3 84.3 78.0 58.1 81.9 114.5 150.5 188.4 189.3	21.8 30.7 25.4 28.0 24.9 23.6 24.2 26.2 33.8 38.5	25.1 23.0 14.2 12.6 18.4 19.5 25.4 25.8 53.8 66.4	4.9 1.8 26.9 29.6 1.6 23.3 48.9 78.9 77.5 66.9	21.8 22.7 17.8 7.8 13.2 15.5 16.0 19.6 23.4 17.5
2006:	279.2 305.8 333.5 298.9 317.0 350.8 306.6 292.1 240.5 214.9	110.8 99.8 127.0 126.1 127.2 123.1 130.9 128.3 85.5 54.2	20.8 17.8 17.6 20.7 21.5 20.0 22.5 22.8 18.9 15.1	19.6 19.8 19.7 20.8 22.7 22.4 22.2 22.0 19.2 14.8	10.5 15.1 17.6 13.3 16.4 9.0 13.2 15.4 14.4 6.6	4.1 7.6 10.2 11.8 11.6 9.6 10.7 11.5 6.9 5.9	-5.9 -9.1 -9.8 -9.0 -8.7 -2.7 -4.4 -7.7 -19.9 -27.4	61.7 48.5 71.7 68.5 63.7 64.8 66.8 64.3 46.1 39.3	168.4 206.0 206.4 172.9 189.8 227.8 175.7 163.8 155.0 160.7	28.1 31.5 36.9 38.7 33.5 42.7 39.2 38.7 34.8 40.9	46.3 59.0 61.4 48.4 62.1 64.6 65.1 73.8 60.2 78.5	75.4 91.5 88.1 54.8 71.7 106.7 55.6 33.6 48.8 36.6	18.6 24.1 20.0 30.9 22.5 13.8 15.9 17.8 11.1 4.7

For Standard Industrial Classification (SIC) data, includes primary metal industries, not shown separately.
 Industry groups shown in column headings reflect North American Industry Classification System (NAICS) classification for data beginning 1998. For data on SIC basis, the industry groups would be industrial machinery and equipment (now machinery), electronic and other electric equipment (now electrical equipment, appliances, and components), motor vehicles and equipment (now motor vehicles, bodies and trailers, and parts), food and kindred products (now food and beverage and tabacco products), and chemicals and allied products (now chemical products).

³ See footnote 3 and Note, Table B-91.

Table B-93.—Sales, profits, and stockholders' equity, all manufacturing corporations, 1965–2008 [Billions of dollars]

	ı IIA	manufacturii	ng corporati	ions	ı	Ourable goo	ds industrie	S	No	ndurable go	ods industr	ies
V		Pro	fits	0. 1		Pro	fits	0. 1		Prof	fits	0: 1
Year or quarter	Sales (net)	Before income taxes ¹	After income taxes	Stock- holders' equity ²	Sales (net)	Before income taxes ¹	After income taxes	Stock- holders' equity ²	Sales (net)	Before income taxes ¹	After income taxes	Stock- holders' equity ²
1965 1966 1967 1968	492.2 554.2 575.4 631.9	46.5 51.8 47.8 55.4	27.5 30.9 29.0 32.1	211.7 230.3 247.6 265.9	257.0 291.7 300.6 335.5	26.2 29.2 25.7 30.6	14.5 16.4 14.6 16.5	105.4 115.2 125.0 135.6	235.2 262.4 274.8 296.4	20.3 22.6 22.0 24.8	13.0 14.6 14.4 15.5	106.3 115.1 122.6 130.3
1969 1970 1971 1972 1973	694.6 708.8 751.1 849.5 1,017.2	58.1 48.1 52.9 63.2 81.4	33.2 28.6 31.0 36.5 48.1	289.9 306.8 320.8 343.4 374.1	366.5 363.1 381.8 435.8 527.3	31.5 23.0 26.5 33.6 43.6	16.9 12.9 14.5 18.4 24.8	147.6 155.1 160.4 171.4 188.7	328.1 345.7 369.3 413.7 489.9	26.6 25.2 26.5 29.6 37.8	16.4 15.7 16.5 18.0 23.3	142.3 151.7 160.5 172.0 185.4
1973: IV	275.1	21.4	13.0	386.4	140.1	10.8	6.3	194.7	135.0	10.6	6.7	191.7
New series: 1973: IV 1974 1975 1976 1976 1977 1978 1980 1981 1982 1983	236.6 1,060.6 1,065.2 1,203.2 1,328.1 1,496.4 1,741.8 1,912.8 2,144.7 2,039.4 2,114.3	20.6 92.1 79.9 104.9 115.1 132.5 154.2 145.8 158.6 108.2 133.1	13.2 58.7 49.1 64.5 70.4 81.1 98.7 92.6 101.3 70.9 85.8	368.0 395.0 423.4 462.7 496.7 540.5 600.5 668.1 743.4 770.2 812.8	122.7 529.0 521.1 589.6 657.3 760.7 865.7 889.1 979.5 913.1	10.1 41.1 35.3 50.7 57.9 69.6 72.4 57.4 57.4 48.7	6.2 24.7 21.4 30.8 34.8 41.8 45.2 35.6 21.7 30.0	185.8 196.0 208.1 224.3 239.9 262.6 292.5 317.7 350.4 355.5 372.4	113.9 531.6 544.1 613.7 670.8 735.7 876.1 1,023.7 1,165.2 1,126.4 1,140.8	10.5 51.0 44.6 54.3 57.2 62.9 81.8 88.4 91.3 73.6 84.4	7.0 34.1 27.7 33.7 35.5 39.3 53.5 56.9 59.6 49.3 55.8	182.1 199.0 215.3 238.4 256.8 277.9 308.0 350.4 393.0 414.7 440.4
1984 1985 1986 1987 1988 ³ 1989	2,335.0 2,331.4 2,220.9 2,378.2 2,596.2 2,745.1	165.6 137.0 129.3 173.0 215.3 187.6	107.6 87.6 83.1 115.6 153.8 135.1	864.2 866.2 874.7 900.9 957.6 999.0	1,107.6 1,142.6 1,125.5 1,178.0 1,284.7 1,356.6	75.5 61.5 52.1 78.0 91.6 75.1	48.9 38.6 32.6 53.0 66.9 55.5	395.6 420.9 436.3 444.3 468.7 501.3	1,227.5 1,188.8 1,095.4 1,200.3 1,311.5 1,388.5	90.0 75.6 77.2 95.1 123.7 112.6	58.8 49.1 50.5 62.6 86.8 79.6	468.5 445.3 438.4 456.6 488.9 497.7
1990 1991 1992 ⁴ 1993 1994 1995 1996 1997 1998 1999	2,810.7 2,761.1 2,890.2 3,015.1 3,255.8 3,528.3 3,757.6 3,920.0 3,949.4 4,148.9	158.1 98.7 31.4 117.9 243.5 274.5 306.6 331.4 314.7 355.3 381.1	110.1 66.4 22.1 83.2 174.9 198.2 224.9 244.5 234.4 257.8 275.3	1,043.8 1,064.1 1,034.7 1,039.7 1,110.1 1,240.6 1,348.0 1,462.7 1,482.9 1,569.3 1,823.1	1,357.2 1,304.0 1,389.8 1,490.2 1,657.6 1,807.7 1,941.6 2,075.8 2,168.8 2,314.2 2,457.4	57.3 13.9 -33.7 38.9 121.0 130.6 146.6 167.0 175.1 198.8 190.7	40.7 7.2 -24.0 27.4 87.1 94.3 106.1 121.4 127.8 140.3	515.0 506.8 473.9 482.7 533.3 613.7 673.9 743.4 779.9 869.6 1,054.3	1,453.5 1,457.1 1,500.4 1,524.9 1,598.2 1,720.6 1,816.0 1,844.2 1,780.7 1,834.6 2,090.8	100.8 84.8 65.1 79.0 122.5 143.9 160.0 164.4 139.6 156.5 190.5	69.4 59.3 46.0 55.7 87.8 103.9 118.8 123.1 106.5 117.5	528.9 557.4 560.8 557.1 576.8 627.0 674.2 719.3 703.0 699.7
2000: IV NAICS: ⁵	1,163.6	69.2	46.8	1,892.4	620.4	31.2	19.3	1,101.5	543.2	38.0	27.4	790.9
2000: IV	1,128.8 4,295.0 4,216.4 4,397.2 4,934.1 5,411.5 5,782.7 6,055.2	62.1 83.2 195.5 305.7 447.5 524.2 604.6 598.0	41.7 36.2 134.7 237.0 348.2 401.3 470.3 439.5	1,833.8 1,843.0 1,804.0 1,952.2 2,206.3 2,410.4 2,678.6 2,912.0	623.0 2,321.2 2,260.6 2,282.7 2,537.3 2,730.5 2,910.2 3,009.1	26.9 -69.0 45.9 117.6 200.0 211.3 249.1 245.3	15.4 -76.1 21.6 88.2 156.5 161.2 192.8 158.3	1,100.0 1,080.5 1,024.8 1,040.8 1,212.9 1,304.0 1,384.0 1,492.9	505.8 1,973.8 1,955.8 2,114.5 2,396.7 2,681.0 2,872.5 3,046.1	35.2 152.2 149.6 188.1 247.5 312.9 355.5 352.7	26.3 112.3 113.1 148.9 191.6 240.2 277.5 281.3	733.8 762.5 779.2 911.5 993.5 1,106.5 1,294.6 1,419.1
2006: 	1,397.4 1,485.6 1,467.1 1,432.5	149.1 159.8 164.4 131.4	119.8 122.4 126.3 101.8	2,606.1 2,674.4 2,738.8 2,695.1	702.1 748.0 729.4 730.6	63.9 64.5 66.6 54.1	51.7 49.5 50.8 40.8	1,351.7 1,389.7 1,409.5 1,385.1	695.3 737.6 737.8 701.9	85.2 95.3 97.8 77.3	68.1 72.9 75.5 61.0	1,254.4 1,284.6 1,329.3 1,310.0
2007: I II IV	1,405.8 1,526.5 1,540.0 1,582.9	149.2 172.8 146.3 129.7	117.3 136.3 79.3 106.7	2,775.4 2,900.1 2,950.2 3,022.3	715.8 760.8 766.5 766.1	61.4 75.4 56.7 51.8	47.7 61.0 8.4 41.2	1,441.4 1,490.8 1,503.1 1,536.2	690.0 765.7 773.5 816.9	87.8 97.4 89.6 77.9	69.6 75.3 70.9 65.4	1,334.0 1,409.2 1,447.0 1,486.1
2008: I	1,562.3 1,716.7	148.6 143.3	116.8 110.8	3,062.6 3,079.3	736.8 781.4	58.2 49.4	44.7 33.0	1,551.0 1,554.8	825.5 935.3	90.4 93.9	72.1 77.8	1,511.5 1,524.5

¹ In the old series, "income taxes" refers to Federal income taxes only, as State and local income taxes had already been deducted. In the new series, no income taxes have been deducted.

Source: Department of Commerce (Bureau of the Census).

Annual data are average equity for the year (using four end-of-quarter figures).
Beginning with 1988, profits before and after income taxes reflect inclusion of minority stockholders' interest in net income before and after income taxes.

Data for 1992 (most significantly 1992:1) reflect the early adoption of Financial Accounting Standards Board Statement 106 (Employer's Accounting for Post-Retirement Benefits Other Than Pensions) by a large number of companies during the fourth quarter of 1992. Data for 1993 (1993:1) also reflect adoption of Statement 106. Corporations must show the cumulative effect of a change in accounting principle in the first quarter of the year in which the change is adopted.

5 Data based on the North American Industry Classification System (NAICS). Other data shown are based on the Standard Industrial Classification (SIC).

Note.—Data are not necessarily comparable from one period to another due to changes in accounting principles, industry classifications, sampling procedures, etc. For explanatory notes concerning compilation of the series, see Quarterly Financial Report for Manufacturing, Mining, and Trade Corporations, Department of Commerce, Bureau of the Census

Table B-94.—Relation of profits after taxes to stockholders' equity and to sales, all manufacturing corporations, 1959–2008

	Ratio of profits to stock	after income taxes (nolders' equity—per	annual rate) cent ¹	Pro per	fits after income taxes dollar of sales—cent	S S
Year or quarter	All manufacturing corporations	Durable goods industries	Nondurable goods industries	All manufacturing corporations	Durable goods industries	Nondurable goods industries
1959	10.4	10.4	10.4	4.8	4.8	4.9
1960	9.2	8.5	9.8	4.4	4.0	4.8
1961	8.9	8.1	9.6	4.3	3.9	4.7
1962	9.8	9.6	9.9	4.5	4.4	4.7
1963	10.3	10.1	10.4	4.7	4.5	4.9
1964	11.6	11.7	11.5	5.2	5.1	5.4
1965	13.0	13.8	12.2	5.6	5.7	5.5
1966	13.4	14.2	12.7	5.6	5.6	5.6
967 968	11.7 12.1	11.7 12.2	11.8 11.9	5.0 5.1	4.8 4.9	5.3 5.2
969	11.5	11.4	11.5	4.8	4.6	5.0
970	9.3	8.3	10.3	4.0	3.5	4.5
1971	9.5	9.0	10.3	4.0	3.8	4.5
972	10.6	10.8	10.5	4.3	4.2	4.4
973	12.8	13.1	12.6	4.7	4.7	4.8
1973: IV	13.4	12.9	14.0	4.7	4.5	5.0
New series:	13.4	12.0	14.0	4.7	4.0	5.0
	110	10.0	45.0	F 0	F.0	0.1
1973: IV	14.3	13.3	15.3	5.6	5.0	6.1
1974	14.9	12.6	17.1	5.5	4.7	6.4
1975	11.6	10.3	12.9	4.6	4.1	5.1
1976 1977	13.9 14.2	13.7 14.5	14.2 13.8	5.4 5.3	5.2 5.3	5.5 5.3
1978	15.0	16.0	14.2	5.4	5.5	5.3
1979	16.4	15.4	17.4	5.7	5.5 5.2	6.1
1980	13.9	11.2	16.3	4.8	4.0	5.6
981	13.6	11.9	15.2	4.0	4.0	5.1
1982	9.2	6.1	11.9	3.5	2.4	4.4
1983	10.6	8.1	12.7	4.1	3.1	4.9
1984	12.5	12.4	12.5	4.6	4.4	4.8
985	10.1	9.2	11.0	3.8	3.4	4.1
1986	9.5 12.8	7.5	11.5	3.7 4.9	2.9	4.6
1987 1988 ²	16.1	11.9 14.3	13.7 17.8	5.9	4.5 5.2	5.2 6.6
1989	13.5	11.1	16.0	4.9	4.1	5.7
1990	10.6	7.9	13.1	3.9	3.0	4.8
1991	6.2	1.4	10.6	2.4	.5	4.0
1992 3	2.1	-5.1	8.2	2.7	-1.7	3.1
1993	8.0	5.7	10.0	2.8	1.8	3.7
1994	15.8	16.3	15.2	5.4	5.3	5.5
1995	16.0	15.4	16.6	5.6	5.2	6.0
1996	16.7	15.7	17.6	6.0	5.5	6.5 6.7
997	16.7 15.8	16.3 16.4	17.1 15.2	6.2 5.9	5.8 5.9	6.0
1999	16.4	16.1	16.8	6.2	6.1	6.4
2000	15.1	12.5	18.7	6.1	5.4	6.9
2000: IV	9.9	7.0	13.9	4.0	3.1	5.1
NAICS: 4	0.0	7.0	10.0	1.0	0.1	0.1
2000: IV	9.1	5.6	14.3	3.7	2.5	5.2
			-			
2001 2002	2.0 7.5	-7.0 2.1	14.7 14.5	.8 3.2	-3.3 1.0	5.7 5.8
2003	12.1	8.5	16.3	5.4	3.9	7.0
2004	15.8	12.9	19.3	7.1	6.2	8.0
2005	16.7	12.4	21.7	7.4	5.9	9.0
2006	17.6	13.9	21.4	8.1	6.6	9.7
2007	15.1	10.6	19.8	7.3	5.3	9.2
2006: 1	18.4	15.3	21.7	8.6	7.4	9.8
II	18.3	14.2	22.7	8.2	6.6	9.9
III	18.4	14.4	22.7	8.6	7.0	10.2
IV	15.1	11.8	18.6	7.1	5.6	8.7
2007:	16.9	13.2	20.9	8.3	6.7	10.1
	18.8	16.4	21.4	8.9	8.0	9.8
	10.7	2.2	19.6	5.1	1.1	9.2
IV	14.1	10.7	17.6	6.7	5.4	8.0
2008:	15.3	11.5	19.1	7.5	6.1	8.7
II	14.4	8.5	20.4	6.5	4.2	8.3

¹ Annual ratios based on average equity for the year (using four end-of-quarter figures). Quarterly ratios based on equity at end of quarter.
2 See footnote 3, Table B–93.
3 See footnote 4, Table B–93.
4 See footnote 5, Table B–93.

Note.—Based on data in millions of dollars.

See Note, Table B-93.

Source: Department of Commerce (Bureau of the Census).

Table B-95.—Historical stock prices and yields, 1949–2003

				Co	ommon stock	prices ¹				(Standard	stock yields d & Poor's) cent) ⁵
		New York	Stock Excha	inge (NYSE)	indexes ²						
Year	Composite		Dece	mber 31, 196	65=50		Dow Jones	Standard & Poor's	Nasdaq composite	Dividend-	Earnings-
	(Dec. 31, 2002= 5,000) ³	Com- posite	Industrial	Transpor- tation	Utility ⁴	Finance	industrial average ²	composite index (1941–43=10) ²	index (Feb. 5, 1971=100) ²	price ratio ⁶	price ratio ⁷
1949		9.02 10.87 13.08 13.81 13.67 16.19					179.48 216.31 257.64 270.76 275.97 333.94	15.23 18.40 22.34 24.50 24.73 29.69		6.59 6.57 6.13 5.80 5.80 4.95	15.48 13.99 11.82 9.47 10.26 8.57
1955 1956 1957 1958 1959		21.54 24.40 23.67 24.56 30.73					442.72 493.01 475.71 491.66 632.12	40.49 46.62 44.38 46.24 57.38		4.08 4.09 4.35 3.97 3.23	7.95 7.55 7.89 6.23 5.78
1960 1961 1962 1963 1964		30.01 35.37 33.49 37.51 43.76					618.04 691.55 639.76 714.81 834.05	55.85 66.27 62.38 69.87 81.37		3.47 2.98 3.37 3.17 3.01	5.90 4.62 5.82 5.50 5.32
1965 1966 1967 1968 1969	487.92 536.84 585.47 578.01	47.39 46.15 50.77 55.37 54.67	46.18 51.97 58.00 57.44	50.26 53.51 50.58 46.96	90.81 90.86 88.38 85.60	44.45 49.82 65.85 70.49	910.88 873.60 879.12 906.00 876.72	88.17 85.26 91.93 98.70 97.84		3.00 3.40 3.20 3.07 3.24	5.59 6.63 5.73 5.67 6.08
1970 1971 1972 1973 1974	483.39 573.33 637.52 607.11 463.54	45.72 54.22 60.29 57.42 43.84	48.03 57.92 65.73 63.08 48.08	32.14 44.35 50.17 37.74 31.89	74.47 79.05 76.95 75.38 59.58	60.00 70.38 78.35 70.12 49.67	753.19 884.76 950.71 923.88 759.37	83.22 98.29 109.20 107.43 82.85	107.44 128.52 109.90 76.29	3.83 3.14 2.84 3.06 4.47	6.45 5.41 5.50 7.12 11.59
1975 1976 1977 1978 1979	483.55 575.85 567.66 567.81 616.68	45.73 54.46 53.69 53.70 58.32	50.52 60.44 57.86 58.23 64.76	31.10 39.57 41.09 43.50 47.34	63.00 73.94 81.84 78.44 76.41	47.14 52.94 55.25 56.65 61.42	802.49 974.92 894.63 820.23 844.40	86.16 102.01 98.20 96.02 103.01	77.20 89.90 98.71 117.53 136.57	4.31 3.77 4.62 5.28 5.47	9.15 8.90 10.79 12.03 13.46
1980 1981 1982 1983 1984	720.15 782.62 728.84 979.52 977.33	68.10 74.02 68.93 92.63 92.46	78.70 85.44 78.18 107.45 108.01	60.61 72.61 60.41 89.36 85.63	74.69 77.81 79.49 93.99 92.89	64.25 73.52 71.99 95.34 89.28	891.41 932.92 884.36 1,190.34 1,178.48	118.78 128.05 119.71 160.41 160.46	168.61 203.18 188.97 285.43 248.88	5.26 5.20 5.81 4.40 4.64	12.66 11.96 11.60 8.03 10.02
1985 1986 1987 1988 1989	1,142.97 1,438.02 1,709.79 1,585.14 1,903.36	108.09 136.00 161.70 149.91 180.02	123.79 155.85 195.31 180.95 216.23	104.11 119.87 140.39 134.12 175.28	113.49 142.72 148.59 143.53 174.87	114.21 147.20 146.48 127.26 151.88	1,328.23 1,792.76 2,275.99 2,060.82 2,508.91	186.84 236.34 286.83 265.79 322.84	290.19 366.96 402.57 374.43 437.81	4.25 3.49 3.08 3.64 3.45	8.12 6.09 5.48 8.01 7.42
1990 1991 1992 1993 1994	1,939.47 2,181.72 2,421.51 2,638.96 2,687.02	183.46 206.33 229.01 249.58 254.12	225.78 258.14 284.62 299.99 315.25	158.62 173.99 201.09 242.49 247.29	181.20 185.32 198.91 228.90 209.06	133.26 150.82 179.26 216.42 209.73	2,678.94 2,929.33 3,284.29 3,522.06 3,793.77	334.59 376.18 415.74 451.41 460.42	409.17 491.69 599.26 715.16 751.65	3.61 3.24 2.99 2.78 2.82	6.47 4.79 4.22 4.46 5.83
1995 1996 1997 1998 1999	3,078.56 3,787.20 4,827.35 5,818.26 6,546.81	291.15 358.17 456.54 550.26 619.16	367.34 453.98 574.52 681.57 774.78	269.41 327.33 414.60 468.69 491.60	220.30 249.77 283.82 378.12 473.73	238.45 303.89 424.48 516.35 530.86	4,493.76 5,742.89 7,441.15 8,625.52 10,464.88	541.72 670.50 873.43 1,085.50 1,327.33	925.19 1,164.96 1,469.49 1,794.91 2,728.15	2.56 2.19 1.77 1.49 1.25	6.09 5.24 4.57 3.46 3.17
2000 2001 2002 2003 ³	6,805.89 6,397.85 5,578.89 5,447.46	643.66 605.07 527.62	810.63 748.26 657.37 633.18	413.60 443.59 431.10 436.51	477.65 377.30 260.85 237.77	553.13 595.61 555.27 565.75	10,734.90 10,189.13 9,226.43 8,993.59	1,427.22 1,194.18 993.94 965.23	3,783.67 2,035.00 1,539.73 1,647.17	1.15 1.32 1.61 1.77	3.63 2.95 2.92 3.84

Sources: New York Stock Exchange, Dow Jones & Co., Inc., Standard & Poor's, and Nasdaq Stock Market.

¹ Averages of daily closing prices.
² Includes stocks as follows: for NYSE, all stocks listed; for Dow Jones industrial average, 30 stocks; for Standard & Poor's (S&P) composite index, 500 stocks; and for Nasdaq composite index, over 5,000.
³ The NYSE relaunched the composite index on January 9, 2003, incorporating new definitions, methodology, and base value. (The composite index based on December 31, 1965–50 was discontinued.) Subset indexes on financial, energy, and health care were released by the NYSE on January 8, 2004 (see Table B–96). NYSE indexes shown in this table for industrials, utilities, transportation, and finance were discontinued.
⁴ Effective April 1993, the NYSE doubled the value of the utility index to facilitate trading of options and futures on the index. Annual indexes prior to 1993 reflect the doubling.
⁵ Based on 500 stocks in the S&P composite index.
⁶ Aggregate cash dividends (based on latest known annual rate) divided by aggregate market value based on Wednesday closing prices. Monthly data are averages of weekly figures; annual data are averages of monthly figures.
⁷ Quarterly data are ratio of earnings (after taxes) for four quarters ending with particular quarter-to-price index for last day of that quarter. Annual data are averages of quarterly ratios.

averages of quarterly ratios.

Table B-96.—Common stock prices and yields, 2000-2008

			Со	mmon stock pric	es ¹			Common s (Standard (perc	stock yield: 1 & Poor's) ent) ⁴
Year or month	New '	York Stock Excha (December 31	nge (NYSE) inde: , 2002=5,000)	xes ^{2, 3}	Dow Jones	Standard & Poor's composite	Nasdaq composite index	Dividend- price	Earnings price
	Composite	Financial	Energy	Health care	industrial average ²	index (1941–43=10) ²	(Feb. 5, 1971=100) ²	ratio 5	ratio ⁶
2000	6,805.89 6,397.85				10,734.90 10,189.13	1,427.22 1,194.18	3,783.67 2,035.00	1.15 1.32	3. 2.
2002 2003	5,578.89 5,447.46	5,583.00	5,273.90	5,288.67	9,226.43 8,993.59	993.94 965.23	1,539.73 1,647.17	1.61 1.77	2. 3.
2004 2005	6,612.62 7,349.00	6,822.18 7,383.70	6,952.36 9,377.84	5,924.80 6,283.96	10,317.39 10,547.67	1,130.65 1,207.23	1,986.53 2,099.32	1.72 1.83	4. 5.
	8,357.99	8,654.40	11,206.94	6,685.06	11,408.67 13,169.98	1,310.46	2.263.41	1.87	5
007	9,648.82	9,321.39	13,339.99	7,191.79		1,477.19	2,578.47	1.86	5
004: Jan Feb	6,569.76 6,661.38	6,827.35 6,978.62	6,323.29 6,337.87	6,000.57 6,134.16	10,540.05 10,601.50	1,132.52 1,143.36	2,098.00 2,048.36	1.62 1.63	
Mar	6,574.75	6,914.60 6,792.05	6,455.53	5,908.76	10,323.73 10,418.40	1,123.98 1,133.08	1,979.48 2,021.32	1.68	4
Apr May	6,600.77 6,371.44	6,792.05 6,495.19	6,638.65 6,572.79	6,028.53 6,022.12	10,418.40 10,083.81	1,133.08 1,102.78	2,021.32 1,930.09	1.68 1.74	
June	6,548.06	6,683.10	6,780.86	6,063.65	10,364.90	1,132.76	2,000.98	1.70	4
July Aug	6,443.45 6,352.83	6,569.52 6,566.19	6,971.57 6,866.75	5,823.34 5,733.68	10,152.09 10,032.80	1,105.85 1,088.94	1,912.42 1,821.54	1.77 1.81	
Sept	6,551.90	6,773.95	7,270.08 7,593.71	5,890.05	10,032.80 10,204.67	1,117.66	1.884.73	1.78	5
Oct Nov	6,608.98 6,933.75	6,792.44 7,118.40	7,593.71 7,773.26	5,668.02 5,818.20	10,001.60 10,411.76	1,118.07 1,168.94	1,938.25 2,062.87	1.79 1.74	
Dec	7,134.42	7,354.73	7,843.99	6,006.46	10,673.38	1,199.21	2,149.53	1.72	4
005: Jan	7,056.85 7,241.89	7,282.65 7,377.10	7,841.24	5,970.34	10,539.51 10,723.82	1,181.41	2,071.87	1.77	
Feb Mar	7,241.89 7,275.51	7,377.10 7,274.12	8,646.71 9,077.38	6,052.78 6,148.03	10,723.82 10,682.09	1,199.63 1,194.90	2,065.74 2,030.43	1.76 1.79	5
Apr	7,077.97	7.014.98	8,793.74	6,253.05 6,432.30	10,283.19	1,164.42	1,957.49	1.86	
May	7,094.02 7,238.96	7,092.20 7,199.86	8,513.39 9,122.87	6,432.30 6,408.88	10,377.18 10,486.68	1,178.28 1,202.26	2,005.22 2,074.02	1.86 1.83	5
June July	7.389.23	7,373.25 7,374.01	9,607.53	6,342.76	10,545.38 10,554.27	1,222.24 1,224.27	2,145.14 2,157.85	1.82	
Aug	7,482.93 7,584.49	7,374.01 7,435.85	10,034.26 10,672.51	6,383.81 6,412.24	10,554.27 10,532.54	1,224.27 1,225.91	2,157.85 2,144.61	1.82 1.84	5
Sept Oct	7,373.23	7,433.63	9.915.63	6,270.83	10.324.31	1.191.96	2,144.01	1.04	
Nov Dec	7,585.75 7,787.22	7,800.01 8,011.76	9,998.62 10,310.18	6,297.57 6,434.97	10,695.25 10,827.79	1,237.37 1,262.07	2,202.84 2,246.09	1.85 1.84	5
006: Jan	8,007.35	8,187.86	10,965.30	6,604.09	10,872.48	1,278.72	2,240.03	1.83	
Feb	8,044.86	8,280.82	10,741.43	6,566.87	10,971.19 11,144.45	1,276.65	2,273.67	1.86	5
Mar Apr	8,174.34 8,351.28	8,459.04 8,572.54	10,702.23 11,467.85	6,653.63 6,519.78	11,144.45	1,293.74 1,302.18	2,300.26 2,338.68	1.85 1.85	5
May	8,353.45 7,985.59	8,608.10 8,225.13	11.380.52	6.488.14	11,234.68 11,333.88 10,997.97 11,032.53	1,290.00 1,253.12	2,245.28 2,137.41	1.90	
June July	7,985.59 8,103.97	8,225.13 8,340.25	10,690.86 11,360.86	6,395.87 6,566.19	10,997.97	1,253.12 1,260.24	2,137.41 2,086.21	1.96 1.94	
Aug	8,294.89	8,574.68 8,789.30	11,610.65	6,/63.81	11,257.35 11,533.60	1,287.15	2,117.77	1.92	
Sept Oct	8,383.29 8,651.02	8,789.30 9,101.77	10,807.75 11,020.11	6,910.95 6,975.17	11,533.60 11,963.12	1,317.81 1,363.38	2,221.94 2,330.17	1.87 1.83	
Nov	8,856.30	9,251.53 9,461.77	11,657.36	6,845.16	12,185.15 12,377.62	1,388.63	2.408.70	1.80	
Dec	9,089.55	1	12,078.39	6,931.01		1,416.42	2,431.91	1.79	5
007: Jan Feb	9,132.04 9,345.98	9,575.21 9,732.63	11,381.56 11,658.11	7,083.45 7,174.03	12,512.89 12,631.48	1,424.16 1,444.79	2,453.19 2,479.86	1.81 1.82	
Mar	9,120.57	9,342.66	11,503.16 12,441.16	6,997.30 7,332.01	12,268.53 12,754.80	1,406.95	2,401.49 2,499.57	1.89	5
Apr May	9,555.98 9,822.99	9,658.88 9,864.01	12,441.16 13,031.00	7,332.01 7,474.48	12,754.80 13,407.76	1,463.65 1,511.14	2,499.57 2,562.14	1.84 1.81	
June	9,896.98	9,754.29	13,639.81	7,268.42	13,480.21	1,514.49	2,595.40	1.81	
July Aug	9,985.42 9,440.44	9,543.66 8,963.67	14,318.49 13,250.28	7,210.07 6,957.87	13,677.89 13,239.71	1,520.70 1,454.62	2,655.08 2,539.50	1.80 1.92	
Sept	9,777.59	9,060.63	14,300.99 14,976.30	7 138 20	13,557.69 13,901.28	1.497.12	2,634.47 2,780.42	1.88	
Oct Nov	10,159.33 9,741.15	9,390.30 8,522.71	14,976.30 14,622.23	7,231.60 7,127.40	13,901.28 13,200.58	1,539.66 1,463.39	2,780.42 2,662.80	1.84 1.95	
Dec	9,807.36	8,447.99	14,956.77	7,306.60	13,406.99	1,479.23	2,661.55	1.93	1
008: Jan	9,165.10	7,776.77	14,222.14 13,931.92	7,068.98	12,538.12	1,378.76 1,354.87	2,418.09	2.06 2.10	
Feb Mar	9,041.52 8,776.21	7,577.54 7,155.51	13,931.92 14,000.91	6,674.75 6,318.44	12,538.12 12,419.57 12,193.88	1,354.87 1,316.94	2,325.83 2,254.82	2.10 2.17	4
Apr	9,174.10	7,579.73	15,159.35	6,381.98	12,656.63	1,370.47	2,368.10	2.09	
May June	9,429.04 8,996.98	7,593.63 6,798.20	16,365.23 16,272.67	6,405.40 6,243.42	12,812.48 12,056.67	1,403.22 1,341.25	2,483.24 2,427.45	2.07 2.15	
July	8,427.37	6,207.89 6,304.58	14,899.86 13,772.04	6,412.48	11,322.38 11,530.75	1,257.33 1,281.47	2,278.14 2,389.27	2.27 2.23	
Aug Sept	8,362.20 7,886.29	6,304.58 6,159.18	13,772.04 12,562.82	6,618.92 6,316.05	11,530.75 11,114.08	1,281.47 1,217.01	2,389.27 2,205.20	2.23 2.36	p (
Oct	6,130.39	4,733.74	9,515.71	5,434.03	9,176.71	968.80	1,730.32	2.83	Р ;
Nov	5,527.63	3,779.86	9,262.07	5,088.99	8,614.55	873.28	1,501.11	3.11	

Sources: New York Stock Exchange, Dow Jones & Co., Inc., Standard & Poor's, and Nasdaq Stock Market.

Averages of daily closing prices.
 Includes stocks as follows: for NYSE, all stocks listed (in September 2008, about 2,500); for Dow Jones industrial average, 30 stocks; for Standard & Poor's (S&P) composite index, 500 stocks; and for Nasdaq composite index, in November 2008, about 3,000.
 The NYSE relaunched the composite index on January 9, 2003, incorporating new definitions, methodology, and base value. Subset indexes on financial, energy, and health care were released by the NYSE on January 8, 2004.
 Based on 500 stocks in the S&P composite index.

^{*} Based on 900 stocks in the 5xer composite index.
5 Aggregate cash dividends (based on latest known annual rate) divided by aggregate market value based on Wednesday closing prices. Monthly data are averages of weekly figures, annual data are averages of monthly figures.
6 Quarterly data are ratio of earnings (after taxes) for four quarters ending with particular quarter-to-price index for last day of that quarter. Annual data are averages of quarterly ratios.

AGRICULTURE

Table B-97.—Farm income, 1945-2008

[Billions of dollars]

			In	come of farm ope	rators from farmir	ng		
			Gross farr	n income				
Year		Cas	h marketing recei	pts	Value of	Discret	Production	Net
	Total ¹	Total	Livestock and products	Crops ²	Value of inventory changes ³	Direct Government payments ⁴	expenses	farm income
1945 1946 1947 1948 1949 1950 1951 1952 1955 1955 1957 1958 1959 1960 1960 1961 1962 1963 1964 1965 1965 1966 1967 1968 1968 1970 1971 1972 1973 1974 1975 1976 1977 1977 1977 1977 1978 1978 1979 1979 1979 1979 1980 1979 1978 1978 1979 1979 1978 1979 1979 1978 1978 1979 1979 1978 1979 1978 1979 1979 1978 1979 1979 1978 1979 1979 1978 1979 1978 1978 1979 1978 1979 1978 1979 1978 1979 1978 1978 1979 1978 1978 1979 1978 1978 1979 1978 1979 1978 1978 1979 1978 1978 1979 1979 1978 1978 1979 1978 1978 1979 1978 1978 1978 1979 1978 1978 1978 1979 1978	Total 1 25.4 29.6 32.4 36.5 30.8 33.1 38.3 37.7 34.4 34.2 33.4 34.8 39.0 39.0 38.6 40.5 50.5 51.8 56.4 42.3 46.5 50.5 51.8 62.1 77.1 98.9 98.2 100.6 102.9 108.8 128.4 150.7 149.3 166.3 166.3 166.3	21.7 24.8 29.6 30.2 27.8 32.8 32.5 31.0 29.8 29.5 30.4 29.7 33.5 33.6 34.0 35.2 36.5 37.5 37.5 37.5 37.5 37.5 37.5 37.5 37	and products 12.0 13.8 16.5 17.1 15.4 16.1 19.6 16.3 16.0 16.4 17.4 19.2 18.9 20.2 20.0 19.9 25.0 24.4 25.5 28.6 29.5 35.6 29.5 35.6 41.3 43.1 43.1 43.1 43.1 43.1 43.1 43.1	9.7 11.0 13.1 13.1 12.4 13.2 14.3 14.1 13.6 12.3 14.2 14.7 15.0 15.7 15.7 15.7 15.7 15.1 14.7 15.1 14.7 15.1 15.1 14.1 17.4 17.5 18.4 18.7 19.6 22.3 25.5 18.4 18.7 19.6 22.3 25.5 26.3 71.7 72.5 72.3 67.2 69.9	-0.4 -0.8 -1.8 -6.5 -5.5 -2.5 -6.6 -8.8 -8.8 -1.0 -1.1 -1.7 -1.3 -1.4 -1.6 -1.5 -1.4 -1.5 -1.5 -1.4 -1.5 -1.5 -1.6 -1.6 -1.6 -1.6 -1.6 -1.6 -1.6 -1.7 -1.7 -1.1 -1.6 -1.6 -1.6 -1.6 -1.6 -1.6 -1.6	0.7	13.1 14.5 17.0 18.8 18.0 19.5 22.3 22.8 21.5 21.8 22.2 22.7 23.7 25.8 30.3 31.6 33.6 33.5 33.6 33.5 42.1 44.5 47.1 51.7 51.7 54.6 67.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 7	12.3 15.1 15.4 17.7 12.8 13.6 15.9 14.9 13.0 12.4 11.3 10.7 11.2 12.0 12.1 11.1 11.8 11.2 10.5 12.9 14.0 12.3 12.3 14.3 14.3 15.9 14.9 15.9 16.0 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17
1985 1986 1987 1988 1989 1990 1991 1991 1992 1993 1994 1996 1997 1998 2000 2000 2002 2003 2004 2005 2006	161.1 156.1 168.4 177.9 191.6 192.0 200.6 205.0 216.1 210.8 238.0 232.6 234.9 243.6 251.8 232.6 260.0 295.6 301.1 292.4 343.4	144.0 135.4 141.8 151.3 160.5 168.0 171.5 178.3 181.4 188.2 199.4 207.8 196.5 187.8 196.5 200.0 194.9 215.6 237.2 240.9 240.8 284.8	70.1 71.6 76.0 79.6 83.6 89.1 85.8 85.8 90.5 88.3 87.2 92.9 96.5 94.2 95.7 94.0 105.6 123.6 124.9 118.2 137.9	73.9 63.8 65.8 71.6 76.9 80.2 82.2 85.7 87.8 93.1 101.0 106.5 111.3 102.2 92.1 92.4 93.3 101.0 110.0 110.0 113.6 116.0 122.6 124.0	-2.3 -2.2 -2.3 -4.1 3.8 3.3 -2 4.2 4.2 4.2 8.3 -5.0 -6 6 -6 1.1 1.2 1.2 1.2 1.2 1.2 1.3 1.3 3.3 3.3 -2.0 1.6 1.1 1.1 1.1 1.2 3.3 3.3 3.3 4.2 4.2 4.2 4.2 4.2 1.2 1.2 3.3 3.3 3.3 5.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6	7.7 11.8 16.7 14.5 10.9 9.3 8.2 9.2 13.4 7.9 7.3 7.5 12.4 21.5 23.2 22.4 16.5 13.0 24.4 15.8	132.6 125.0 130.4 138.3 145.1 151.5 151.8 150.4 158.3 163.5 171.1 176.9 186.7 193.1 196.9 193.1 196.9 209.8 221.8 233.9 254.4	28.5 31.1 38.0 39.6 46.3 40.2 50.2 50.2 50.2 50.2 50.2 50.2 50.2 5

¹ Cash marketing receipts, Government payments, value of changes in inventories, other farm-related cash income, and nonmoney income produced by farms including imputed rent of operator residences.
2 Crop receipts include proceeds received from commodities placed under Commodity Credit Corporation loans.
3 Physical changes in beginning and ending year inventories of crop and livestock commodities valued at weighted average market prices during the year.
4 Includes only Government payments made directly to farmers.

Note.—Data for 2008 are forecasts.

Table B-98.—Farm business balance sheet, 1950-2008

[Billions of dollars]

					Assets						Cla	ims	
			Ph	ysical asse	ets		Fir	nancial ass	ets				
End of year	Total assets	Real estate	Live- stock and poultry 1	Ma- chinery and motor vehi- cles	Crops ²	Pur- chased inputs ³	Total ⁴	Invest- ments in coopera- tives	Other ⁴	Total claims	Real estate debt ⁵	Non- real estate debt ⁶	Proprietors' equity
1950	121.6	75.4	17.1	12.3	7.1		9.7	2.7	7.0	121.6	5.2	5.7	110.7
1951	136.0	83.8	19.5	14.3	8.2		10.2	2.9	7.3	136.0	5.7	6.9	123.4
1952	133.1	85.1	14.8	15.0	7.9		10.3	3.2	7.1	133.1	6.2	7.1	119.8
1953	128.7	84.3	11.7	15.6	6.8		10.3	3.3	7.0	128.7	6.6	6.3	115.8
1954	132.6	87.8	11.2	15.7	7.5		10.4	3.5	6.9	132.6	7.1	6.7	118.8
1955	137.0	93.0	10.6	16.3	6.5		10.6	3.7	6.9	137.0	7.8	7.3	121.9
1956	145.7	100.3	11.0	16.9	6.8		10.7	4.0	6.7	145.7	8.5	7.4	129.8
1957	154.5	106.4	13.9	17.0	6.4		10.8	4.2	6.6	154.5	9.0	8.2	137.3
1958	168.7	114.6	17.7	18.1	6.9		11.4	4.5	6.9	168.7	9.7	9.4	149.6
1959	172.9	121.2	15.2	19.3	6.2		11.0	4.8	6.2	172.9	10.6	10.7	151.6
1960	174.4	123.3	15.6	19.1	6.4		10.0	4.2	5.8	174.4	11.3	11.1	151.9
1961	181.6	129.1	16.4	19.3	6.5		10.4	4.5	5.9	181.6	12.3	11.8	157.5
1962	188.9	134.6	17.3	19.9	6.5		10.5	4.6	5.9	188.9	13.5	13.2	162.2
1963	196.7	142.4	15.9	20.4	7.4		10.7	5.0	5.7	196.7	15.0	14.6	167.1
1964	204.2	150.5	14.5	21.2	7.0		11.0	5.2	5.8	204.2	16.9	15.3	172.1
1965	220.8 234.0 246.1 257.2 267.8	161.5 171.2 180.9 189.4 195.3	17.6 19.0 18.8 20.2 22.8	22.4 24.1 26.3 27.7 28.6	7.9 8.1 8.0 7.4 8.3		11.4 11.6 12.0 12.4 12.8	5.4 5.7 5.8 6.1 6.4	6.0 6.0 6.1 6.3 6.4	220.8 234.0 246.1 257.2 267.8	18.9 20.7 22.6 24.7 26.4	16.9 18.5 19.6 19.2 20.0	185.0 194.8 203.9 213.2 221.4
1970	278.8	202.4	23.7	30.4	8.7		13.7	7.2	6.5	278.8	27.2	21.3	230.3
1971	301.8	217.6	27.3	32.4	10.0		14.5	7.9	6.7	301.8	28.8	24.0	248.9
1972	339.9	243.0	33.7	34.6	12.9		15.7	8.7	6.9	339.9	31.4	26.7	281.8
1973	418.5	298.3	42.4	39.7	21.4		16.8	9.7	7.1	418.5	35.2	31.6	351.7
1974 ⁷	449.2	335.6	24.6	48.5	22.5		18.1	11.2	6.9	449.2	39.6	35.1	374.5
1975	510.8	383.6	29.4	57.4	20.5		19.9	13.0	6.9	510.8	43.8	39.8	427.3
1976	590.7	456.5	29.0	63.3	20.6		21.3	14.3	6.9	590.7	48.5	45.7	496.5
1977	651.5	509.3	31.9	69.3	20.4		20.5	13.5	7.0	651.5	55.8	52.6	543.1
1978	777.7	601.8	50.1	78.8	23.8		23.2	16.1	7.1	777.7	63.4	60.4	653.9
1979	914.7	706.1	61.4	91.9	29.9		25.4	18.1	7.3	914.7	75.8	71.7	767.2
1980	1,000.4 997.9 962.5 959.3 897.8	782.8 785.6 750.0 753.4 661.8	60.6 53.5 53.0 49.5 49.5	97.5 101.1 103.9 101.7 125.8	32.8 29.5 25.9 23.7 26.1	2.0	26.7 28.2 29.7 30.9 32.6	19.3 20.6 21.9 22.8 24.3	7.4 7.6 7.8 8.1 8.3	1,000.4 997.9 962.5 959.3 897.8	85.3 93.9 96.8 98.1 101.4	77.2 83.8 87.2 88.1 87.4	838.0 820.2 778.5 773.1 709.0
1985	775.9	586.2	46.3	86.1	22.9	1.2	33.3	24.3	9.0	775.9	94.1	78.1	603.8
1986	722.0	542.4	47.8	79.0	16.3	2.1	34.4	24.4	10.0	722.0	84.1	67.2	570.7
1987	756.5	563.7	58.0	78.7	17.8	3.2	35.2	25.3	9.9	756.5	75.8	62.7	618.0
1988	788.5	582.3	62.2	81.0	23.7	3.5	35.9	25.6	10.4	788.5	70.8	62.3	655.4
1989	813.7	600.1	66.2	84.1	23.9	2.6	36.7	26.3	10.4	813.7	68.8	62.3	682.7
1990	840.6	619.1	70.9	86.3	23.2	2.8	38.3	27.5	10.9	840.6	67.6	63.5	709.5
1991	844.2	624.8	68.1	85.9	22.2	2.6	40.5	28.7	11.8	844.2	67.4	64.4	712.3
1992	867.8	640.8	71.0	84.8	24.2	3.9	43.0	29.4	13.6	867.8	67.9	63.7	736.2
1993	909.2	677.6	72.8	85.4	23.3	3.8	46.3	31.0	15.3	909.2	68.4	65.9	774.9
1994	934.7	704.1	67.9	86.8	23.3	5.0	47.6	32.1	15.5	934.7	69.9	69.0	795.8
1995	965.7	740.5	57.8	87.6	27.4	3.4	49.1	34.1	15.0	965.7	71.7	71.3	822.8
1996	1,002.9	769.5	60.3	88.0	31.7	4.4	49.0	34.9	14.1	1,002.9	74.4	74.2	854.3
1997	1,051.3	808.2	67.1	88.7	32.7	4.9	49.6	35.7	13.9	1,051.3	78.5	78.4	894.4
1998	1,083.4	840.4	63.4	89.8	29.9	5.0	54.7	40.5	14.2	1,083.4	83.1	81.5	918.7
1999	1,138.8	887.0	73.2	89.8	28.3	4.0	56.5	41.9	14.6	1,138.8	87.2	80.5	971.1
2000 2001 2002 2003 2004	1,203.2 1,255.9 1,304.0 1,378.8 1,617.6	946.4 996.2 1,045.7 1,111.8 1,340.6	76.8 78.5 75.6 78.5 79.4	90.1 92.8 93.6 95.9 101.9	27.9 25.2 23.1 24.4 24.4	4.9 4.2 5.6 5.6 5.7	57.1 58.9 60.4 62.4 65.5	43.0 43.6 44.7 45.6	14.1 15.3 15.8 16.9	1,203.2 1,255.9 1,304.0 1,378.8 1,617.6	84.7 88.5 95.4 94.1 96.9	79.2 82.1 81.8 81.0 86.1	1,039.3 1,085.3 1,126.8 1,203.6 1,434.6
2005	1,835.5 2,047.4 2,209.9 2,349.7	1,549.2 1,755.8 1,912.2 2,042.2	81.1 80.7 80.7 80.6	106.9 108.1 108.5 109.6	24.3 22.7 22.7 27.6	6.5 6.5 7.0 7.3	67.5 73.7 78.8 82.3			1,835.5 2,047.4 2,209.9 2,349.7	101.5 101.5 107.8 111.1	91.7 94.9 103.7 104.0	1,642.2 1,851.0 1,998.4 2,134.5

¹ Excludes commercial broilers; excludes horses and mules beginning with 1959 data; excludes turkeys beginning with 1986 data.
² Non-Commodity Credit Corporation (CCC) crops held on farms plus value above loan rate for crops held under CCC.

Data for 2008 are forecasts.

Find the Commonly region Corporation (CCC) gross near on Tarins pins value above loan rate for crops field under CCC.

A Beginning with 2004, data available only for total financial assets. Data through 2003 for other financial assets are currency and demand deposits.

Includes CCC storage and drying facilities loans.

Boes not include CCC crop loans.

Beginning with 1974 data, farms are defined as places with sales of \$1,000 or more annually.

Note.—Data exclude operator households. Beginning with 1959, data include Alaska and Hawaii.

Table B-99.—Farm output and productivity indexes, 1948-2006 [1996=100]

		Farm o	output		Productivity	/ indicators
Year	Total	Livestock and products	Crops	Farm-related output	Farm output per unit of total factor input	Farm output per unit of labor input
1948	44	49	42	29	49	14
1949	44 43	50 52	41 39	27 28	46 45	14 14
1950 1951	45	54	41	28	46	15
1952 1953	46 47	54 55 55	42 42	26 26	47 48	16 17
1954	47	58	42	26	49	17
1955 1956	49 49	60 61	43 43	27 29	49 49	18 20
1957 1958	48 51	60 62	42 46	31 35	49 51	21 24
1959	53	64	47	42	52	24
1960 1961	54 55	65 68	49 49	44 43	54 56	27 28
1962 1963	56 58	69 70	50 52	42 44	55 57	28 30
1964	57	71	50	40	57	30 32
1965 1966	59 59	71 72	53 52	39 37	59 58	33 36 39 40
1967 1968	61	74 74	54 56	36 35	60	39 40
1969	63	74	58	33	60	42
1970 1971	62 67	76 79	55 62	31 31	60 64	43 47
1972 1973	68 70	81 81	62 66	32 35	64 65	48 50
1974	65	78	60	36	61	47
1975 1976	70 71	75 79	68 68	35 35	68 66	51 52
1977 1978	75 76	80	74 76	35 37	70 67	57 59
1979	80	81	83	38	69	61
1980 1981	77 82	82 83	75 86	38 34	67 75	60 65
1982 1983	84 73	83 84	87 67	70 71	77 68	71 63
1984	83	84	84	66	79	74
1985 1986	87 84	85 86	88 83	84 81	85 84	83 79 79
1987 1988	85 81	87 88	83 73	89 102	85 81	79 74
1989	86	88	84	104 98	88 91	81 91
1990 1991	91	92	89 89	102	91	91
1992 1993	96 91	95 96	97 88	96 96	98 92	99 98
1994	102	101	104	93	100	95
1995 1996	100	102 100	92 100	106 100	92 100	90 100
1997 1998	105 105	103 105	105 104	113 132	102 101	106 112
1999	108	108	105	143	103	116
2000	108 109	108 107	106 106	132 140	108 109	128 130
2002	106 108	108 107	102 106	134 137	107 110	126 134
2004	113	108	115	144 140	118	144 149
2005	113 111	110 112	113 107	140	117 116	149 153

Note.—Farm output includes primary agricultural activities and certain secondary activities that are closely linked to agricultural production for which information on production and input use cannot be separately observed. Secondary output (alternatively, farm-related output) includes recreation activities, the imputed value of employer-provided housing, land rentals under the Conservation Reserve, and services such as custom machine work and custom livestock

See Table B-100 for farm inputs.

Table B-100.—Farm input use, selected inputs, 1948-2007

	Far (m employn thousands	nent					Select	ed indexe	es of inpu	t use (19	96=100)			
		Self-		Crops har-		Capita	l input	L	abor inpu	ıt		Inte	rmediate	input	
Year	Total	em- ployed and unpaid family work- ers ²	Hired work- ers ³	vested (mil- lions of acres) 4	Total farm input	Total	Dur- able equip- ment	Total	Hired labor	Self- em- ployed and unpaid family labor	Total	Feed and seed	Energy and lubri- cants ⁵	Agri- cul- tural chemi- cals	Pur- chased serv- ices
1948	9,759	7,433	2,326	356	91	110	66	325	277	349	46	55	65	20	44
1949	9,633	7,392	2,241	360	95	113	77	317	257	347	52	58	72	21	43
1950	9,283	6,965	2,318	345	96	116	90	305	268	324	53	59	73	24	44
1951	8,653	6,464	2,189	344	98	118	100	293	259	311	56	61	76	25	48
1952	8,441	6,301	2,140	349	98	120	109	287	253	304	56	60	80	26	52
1953	7,904	5,817	2,087	348	98	121	114	275	246	289	56	61	81	26	49
1954	7,893	5,782	2,111	346	96	122	120	269	232	288	54	58	81	27	47
1955	7,719	5,675	2,044	340	99	122	122	263	228	281	58	65	83	28	49
1956	7,367	5,451	1,916	324	99	122	124	247	208	267	61	68	83	30	51
1957	6,966	5,046	1,920	324	99	121	122	229	199	244	63	71	82	29	52
1958	6,667	4,705	1,962	324	100	120	121	218	201	227	66	76	80	30	54
1959	6,565	4,621	1,944	324	102	120	121	217	196	227	69	77	81	34	73
1960 1961 1962 1963 1964	6,155 5,994 5,841 5,500 5,206	4,260 4,135 3,997 3,700 3,585	1,895 1,859 1,844 1,800 1,621	324 302 295 298 298	101 100 102 102 101	120 120 120 120 120 121	123 121 119 119 121	205 200 200 192 180	196 195 195 195 175	208 201 202 190 182	69 69 71 73 73	77 76 79 82 79	82 84 85 86 88	34 37 41 45 49	71 70 70 69 67
1965	4,964	3,465	1,499	298	100	121	123	176	165	181	73	79	89	50	68
	4,574	3,224	1,350	294	102	122	126	163	149	170	77	85	91	55	69
	4,303	3,036	1,267	306	102	122	131	154	138	161	79	86	90	62	72
	4,207	2,974	1,233	300	103	124	136	153	134	162	80	87	90	66	70
	4,050	2,843	1,207	290	104	124	139	150	135	158	83	91	92	74	68
1970	3,951	2,727	1,224	293	104	123	140	144	136	147	84	92	92	79	66
1971	3,868	2,665	1,203	305	104	123	142	142	134	145	86	94	90	86	67
1972	3,870	2,664	1,206	294	106	122	142	141	134	144	90	98	89	94	67
1973	3,947	2,702	1,245	321	107	122	145	140	136	141	91	97	90	110	71
1974	3,919	2,588	1,331	328	106	123	153	139	145	136	89	94	86	115	69
1975	3,818	2,481	1,337	336	103	125	159	137	147	131	84	91	102	79	76
1976	3,741	2,369	1,372	337	106	126	163	135	149	128	89	94	114	89	77
1977	3,660	2,347	1,313	345	106	128	169	131	145	124	89	94	120	88	77
1978	3,682	2,410	1,272	338	113	130	173	129	136	125	100	105	126	92	90
1979	3,549	2,320	1,229	348	115	131	179	131	141	126	103	109	115	100	93
1980	3,605	2,302	1,303	352	114	135	186	128	140	121	101	109	112	100	84
1981	3,497	2,241	1,256	366	110	134	187	127	140	121	95	103	108	94	80
1982	3,335	2,142	1,193	362	110	133	184	118	125	114	97	106	101	83	90
1983	3,282	1,991	1,291	306	109	131	176	117	138	106	96	106	98	77	90
1984	3,091	1,930	1,161	348	105	122	168	113	129	105	93	99	102	90	86
1985	2,760	1,753	1,007	342	102	120	159	105	117	98	91	99	91	83	88
1986	2,693	1,740	953	325	100	116	149	106	112	103	90	100	85	81	80
1987	2,681	1,717	964	302	100	112	138	108	115	105	90	99	95	78	82
1988	2,727	1,725	1,002	297	99	110	130	110	118	105	91	99	95	78	82
1989	2,637	1,709	928	318	98	108	125	106	111	103	90	95	94	84	88
1990 1991 1992 1993 1994	2,568 2,591 2,505 2,367 2,613	1,649 1,682 1,640 1,510 1,774	919 909 865 857 839	322 318 319 308 321	99 99 98 99 102	106 106 104 103 102	121 118 114 110 106	99 100 97 93 107	111 110 104 104 101	93 94 94 88 111	94 96 94 99 100	101 101 101 103 103	94 94 92 93 95	88 93 93 95 94	84 88 84 94
1995	2,597	1,730	867	314	105	101	103	108	105	110	105	109	100	94	103
	2,433	1,602	831	326	100	100	100	100	100	100	100	100	100	100	100
	2,432	1,557	875	333	102	100	98	99	105	96	105	105	102	103	106
	2,284	1,405	879	326	104	99	98	94	107	87	110	111	103	105	112
	2,239	1,326	913	327	105	99	98	93	112	84	113	116	105	104	114
2000	2,142	1,249	893	325	101	98	98	85	96	79	109	114	100	103	107
	2,081	1,211	870	321	100	98	98	84	94	78	108	111	98	100	111
	2,113	1,243	870	316	99	98	99	84	94	79	107	110	106	100	103
	2,067	1,181	886	324	98	97	100	81	90	76	106	114	89	93	102
	2,013	1,188	825	321	96	97	103	78	85	75	104	112	96	95	100
2005 2006 2007	1,988 1,900 1,829	1,208 1,148 1,082	780 752 747	321 312 321	97 96	98 98	107 109	76 72	79 78	74 69	107 106	113 113	89 84	96 95	106 109

Persons involved in farmwork. Total farm employment is the sum of self-employed and unpaid family workers and hired workers shown here.
 Data from Current Population Survey (CPS) conducted by the Department of Commerce, Census Bureau, for the Department of Labor, Bureau of Labor Statistics.
 The Across Bureau of Economic Analysis.
 Acreage harvested plus acreages in fruits, tree nuts, and vegetables and minor crops. Includes double-cropping.
 Consists of petroleum fuels, natural gas, electricity, hydraulic fluids, and lubricants.

Table B-101.—Agricultural price indexes and farm real estate value, 1975–2008 [1990-92=100, except as noted]

	Pric	es receive farmers	d by	Prices paid by farmers										Adden-	
Year or month	All farm prod- ucts	Crops	Live- stock and prod- ucts	All com- modities, serv- ices, interest, taxes, and wage rates 1	Total ²	Feed	Live- stock and poul- try	Prod Fertil- izer	Agri- cul- tural chemi- cals	ems Fuels	Farm ma- chin- ery	Farm serv- ices	Rent	Wage rates	dum: Average farm real estate value per acre (dollars) 3
1975 1976 1977 1978 1980 1981 1982 1983 1984 1985 1986 1987 1989 1999 1990 1991 1992 1995 1999 2000 2011 2002 2003 2004 2005 2006 2007: Jan Feb Mar Apr May June July Aug Sept Oct Oct Oct Oct Oct Oct Oct Oct Oct Oc	73 75 73 83 94 98 100 94 98 101 101 100 98 101 100 102 112 107 102 112 107 102 112 115 136 123 134 136 137 139 139 140 141 141 144 1445	88 87 83 89 98 107 1111 98 87 86 86 104 109 103 101 101 102 105 112 127 115 107 115 117 115 117 111 111 111 11	62 64 64 78 90 89 89 90 88 91 100 105 97 100 95 97 100 95 97 100 103 113 111 130 113 113 113 113 113	47 50 533 588 666 755 822 868 889 886 887 991 100 1014 1066 1099 1155 115 115 115 115 115 115 115 115	55 59 61 61 677 76 85 922 94 92 92 94 100 101 104 106 115 120 120 154 160 160 160 160 160 160 160 160 160 160	83 83 82 80 98 99 107 112 95 88 83 104 110 103 104 105 107 107 107 108 109 109 112 114 117 121 148 148 148 147 147 147 147 147 147 147 147 147 147	399 47 48 88 88 85 76 73 38 57 61 73 91 93 102 96 104 82 75 110 102 111 112 123 134 131 134 132 127 123 135 133 130 127 123 123 123 123 123	87 74 72 72 72 72 77 96 104 105 100 103 88 99 99 97 97 103 109 105 121 112 121 112 121 112 121 112 121 121 121 121 121 122 123 124 125 126 127 128 128 128 128 128 128 128 128 128 128	72 78 78 71 66 67 71 77 78 83 87 90 89 93 30 95 101 112 112 112 120 121 121 122 121 122 121 122 123 128 129 129 129 129 129 129 129 129	40 43 46 48 48 61 86 98 97 94 4 93 76 76 77 83 3 100 104 93 89 102 105 115 115 115 216 229 264 219 222 240 258 263 272 283 308 307 307 308 308 307 308 308 308 308 308 308 308 308 308 308	38 43 47 51 56 63 70 76 81 85 83 88 94 94 96 100 104 113 120 125 128 132 128 132 128 132 148 151 162 173 185 185 185 185 185 185 185 185 185 185	5 5 6 6 6 8 8 8 8 8 8 8 8 8 8 8 9 9 8 9 9 9 9	96 1000 104 104 105 105 105 105 105 105 105 105 105 105	44 48 51 55 60 65 70 74 76 77 78 81 81 85 87 95 96 100 105 111 114 117 123 129 135 140 146 151 171 171 173 173 173 173 173 173 173 17	340 397 474 531 628 737 819 823 788 801 713 640 599 632 668 683 703 713 736 798 844 887 926 974 91,030 1,150 1,210
Mar Apr May June July Aug Sept Oct Nov P	146 145 150 158 159 156 154 151	166 168 170 183 182 177 174 168 152	129 127 134 137 138 137 133 127 125	177 181 185 188 191 192 191 187 183	180 187 193 196 201 203 201 194 189	183 186 196 198 208 205 201 185 170	125 127 127 124 123 128 125 118 120	315 344 363 390 423 467 468 459 450	134 135 136 140 141 147 146 150 154	349 369 400 423 426 390 368 316 254	199 202 207 207 208 209 210 212 213	152 153 153 156 156 157 156 156 155	163 163 163 163 163 163 163 163	187 183 183 179 179 179 185 185	

Source: Department of Agriculture (National Agricultural Statistics Service).

Includes items used for family living, not shown separately.
 Includes other production items, not shown separately.
 Average for 48 States. Annual data are: March 1 for 1975, February 1 for 1976–81, April 1 for 1982–85, February 1 for 1986–89, and January 1 for 1990–2007.

Table B-102.—U.S. exports and imports of agricultural commodities, 1950-2008 [Billions of dollars]

	Exports Imports												
Year	Total ¹	Feed grains	Food grains ²	Oilseeds and prod- ucts	Cotton	Tobacco	Animals and prod- ucts	Total ¹	Fruits, nuts, and veg- etables ³	Animals and prod- ucts	Coffee	Cocoa beans and prod- ucts	Agri- cultural trade balance
1950 1951 1952 1953	2.9 4.0 3.4 2.8 3.1	0.2 .3 .3 .3	0.6 1.1 1.1 .7 .5	0.2 .3 .2 .2	1.0 1.1 .9 .5	0.3 .3 .2 .3	0.3 .5 .3 .4 .5	4.0 5.2 4.5 4.2 4.0	0.2 .2 .2 .2 .2	0.7 1.1 .7 .6 .5	1.1 1.4 1.4 1.5	0.2 .2 .2 .2 .3	-1.1 -1.1 -1.1 -1.3 9
1955 1956 1957 1958 1959	3.2 4.2 4.5 3.9 4.0	.3 .4 .3 .5	.6 1.0 1.0 .8 .9	.4 .5 .5 .4	.5 .7 1.0 .7 .4	.4 .3 .4 .4	.6 .7 .7 .5	4.0 4.0 4.0 3.9 4.1	.2 .2 .2 .2	.5 .4 .5 .7	1.4 1.4 1.4 1.2 1.1	.2 .2 .2 .2 .2	8 .2 .6 *
1960 1961 1962 1963 1964	4.8 5.0 5.0 5.6 6.3	.5 .5 .8 .8	1.2 1.4 1.3 1.5 1.7	.6 .6 .7 .8 1.0	1.0 .9 .5 .6	.4 .4 .4 .4	.6 .6 .6 .7	3.8 3.7 3.9 4.0 4.1	.2 .2 .2 .3	.6 .7 .9 .9	1.0 1.0 1.0 1.0 1.2	.2 .2 .2 .2 .2	1.0 1.3 1.2 1.6 2.3
1965 1966 1967 1968 1969	6.2 6.9 6.4 6.3 6.0	1.1 1.3 1.1 .9	1.4 1.8 1.5 1.4 1.2	1.2 1.2 1.3 1.3 1.3	.5 .4 .5 .5	.4 .5 .5 .5	.8 .7 .7 .7	4.1 4.5 4.5 5.0 5.0	.3 .4 .4 .5	.9 1.2 1.1 1.3 1.4	1.1 1.0 1.2 .9	.1 .2 .2 .2	2.1 2.4 1.9 1.3 1.1
1970 1971 1972 1973 1974	7.3 7.7 9.4 17.7 21.9	1.1 1.0 1.5 3.5 4.6	1.4 1.3 1.8 4.7 5.4	1.9 2.2 2.4 4.3 5.7	.4 .6 .5 .9 1.3	.5 .5 .7 .7	.9 1.0 1.1 1.6 1.8	5.8 5.8 6.5 8.4 10.2	.5 .6 .7 .8	1.6 1.5 1.8 2.6 2.2	1.2 1.2 1.3 1.7 1.6	.3 .2 .2 .3	1.5 1.9 2.9 9.3 11.7
1975 1976 1977 1978 1979	21.9 23.0 23.6 29.4 34.7	5.2 6.0 4.9 5.9 7.7	6.2 4.7 3.6 5.5 6.3	4.5 5.1 6.6 8.2 8.9	1.0 1.0 1.5 1.7 2.2	.9 .9 1.1 1.4 1.2	1.7 2.4 2.7 3.0 3.8	9.3 11.0 13.4 14.8 16.7	.8 .9 1.2 1.5 1.7	1.8 2.3 2.3 3.1 3.9	1.7 2.9 4.2 4.0 4.2	.5 .6 1.0 1.4 1.2	12.6 12.0 10.2 14.6 18.0
1980 1981 1982 1983 1984	41.2 43.3 36.6 36.1 37.8	9.8 9.4 6.4 7.3 8.1	7.9 9.6 7.9 7.4 7.5	9.4 9.6 9.1 8.7 8.4	2.9 2.3 2.0 1.8 2.4	1.3 1.5 1.5 1.5 1.5	3.8 4.2 3.9 3.8 4.2	17.4 16.9 15.3 16.5 19.3	1.7 2.0 2.3 2.3 3.1	3.8 3.5 3.7 3.8 4.1	4.2 2.9 2.9 2.8 3.3	.9 .7 .8 1.1	23.8 26.4 21.3 19.6 18.5
1985 1986 1987 1988 1989	29.0 26.2 28.7 37.1 40.1	6.0 3.1 3.8 5.9 7.7	4.5 3.8 3.8 5.9 7.1	5.8 6.5 6.4 7.7 6.4	1.6 .8 1.6 2.0 2.2	1.5 1.2 1.1 1.3 1.3	4.1 4.5 5.2 6.4 6.4	20.0 21.5 20.4 21.0 21.9	3.5 3.6 3.6 3.8 4.4	4.2 4.5 4.9 5.2 5.0	3.3 4.6 2.9 2.5 2.4	1.4 1.1 1.2 1.0 1.0	9.1 4.7 8.3 16.1 18.2
1990 1991 1992 1993 1994	39.5 39.3 43.1 42.9 46.2	7.0 5.7 5.7 5.0 4.7	4.8 4.2 5.4 5.6 5.3	5.7 6.4 7.2 7.3 7.2	2.8 2.5 2.0 1.5 2.7	1.4 1.4 1.7 1.3 1.3	6.6 7.1 8.0 8.0 9.2	22.9 22.9 24.8 25.1 27.0	4.6 4.6 4.7 5.0 5.3	5.6 5.5 5.7 5.9 5.7	1.9 1.9 1.7 1.5 2.5	1.1 1.1 1.1 1.0 1.0	16.6 16.5 18.3 17.7 19.2
1995	56.3 60.3 57.2 51.8 48.4	8.2 9.4 6.0 5.0 5.5	6.7 7.4 5.2 5.0 4.7	9.0 10.8 12.1 9.5 8.1	3.7 2.7 2.7 2.6 1.0	1.4 1.4 1.6 1.5 1.3	10.9 11.1 11.3 10.6 10.4	30.3 33.5 36.1 36.9 37.7	5.9 6.6 6.9 7.7 8.5	6.0 6.1 6.5 6.9 7.3	3.3 2.8 3.9 3.4 2.9	1.1 1.4 1.5 1.7 1.5	26.0 26.8 21.0 14.9 10.7
2000 2001 2002 2003 2004	51.3 53.7 53.1 59.4 61.4	5.2 5.2 5.5 5.4 6.4	4.3 4.2 4.5 5.0 6.3	8.6 9.2 9.6 11.7 10.4	1.9 2.2 2.0 3.4 4.3	1.2 1.3 1.0 1.0 1.0	11.6 12.4 11.1 12.2 10.4	39.0 39.4 41.9 47.4 54.0	8.6 9.0 9.7 10.8 12.2	8.4 9.2 9.0 8.9 10.6	2.7 1.7 1.7 2.0 2.3	1.4 1.5 1.8 2.4 2.5	12.3 14.3 11.2 12.0 7.4
2005 2006 2007	63.2 70.9 89.9	5.4 7.7 10.9	5.7 5.5 9.8	10.2 11.3 15.6	3.9 4.5 4.6	1.0 1.1 1.2	12.2 13.5 17.2	59.3 65.3 71.9	13.4 14.6 16.3	11.5 11.5 12.4	3.0 3.3 3.8	2.8 2.7 2.7	3.9 5.6 18.0
Jan-Sept: 2007 2008	61.8 87.3	7.4 12.2	6.5 11.2	9.4 16.6	3.7 3.9	.7 .8	12.2 16.7	53.2 60.6	12.4 13.4	8.0 8.9	2.8 3.4	1.9 2.4	8.6 26.7

^{*} Less than \$50 million.

Source: Department of Agriculture (Economic Research Service).

¹ Total includes items not shown separately.

² Rice, wheat, and wheat flour.
3 Includes fruit, nut, and vegetable preparations. Beginning with 1989, data include bananas but exclude yeasts, starches, and other minor horticultural products.

Note.—Data derived from official estimates released by the Bureau of the Census, Department of Commerce. Agricultural commodities are defined as (1) nonmarine food products and (2) other products of agriculture that have not passed through complex processes of manufacture. Export value, at U.S. port of exportation, is based on the selling price and includes inland freight, insurance, and other charges to the port. Import value, defined generally as the market value in the foreign country, excludes import duties, ocean freight, and marine insurance.

International Statistics

Table B-103.—U.S. international transactions, 1946-2008

[Millions of dollars; quarterly data seasonally adjusted. Credits (+), debits (-)]

		Goods ¹			Services			Income re	eceipts and	payments	11.21.4	
Year or quarter	Exports	Imports	Balance on goods	Net military trans- actions ²	Net travel and trans- por- tation	Other services, net	Balance on goods and services	Receipts	Payments	Balance on income	Unilat- eral current trans- fers, net ²	Balance on current account
1946	11,764	-5,067	6,697	-424	733	310	7,316	772	-212	560	-2,991	4,885
1947	16,097	-5,973	10,124	-358	946	145	10,857	1,102	-245	857	-2,722	8,992
1948	13,265	-7,557	5,708	-351	374	175	5,906	1,921	-437	1,484	-4,973	2,417
1949	12,213	-6,874	5,339	-410	230	208	5,367	1,831	-476	1,355	-5,849	873
1950 1951 1952 1953 1954 1955 1956 1957 1958	10,203 14,243 13,449 12,412 12,929 14,424 17,556 19,562 16,414 16,458	-9,081 -11,176 -10,838 -10,975 -10,353 -11,527 -12,803 -13,291 -12,952 -15,310	1,122 3,067 2,611 1,437 2,576 2,897 4,753 6,271 3,462 1,148	-56 169 528 1,753 902 -113 -221 -423 -849 -831	-120 298 83 -238 -269 -297 -361 -189 -633 -821	242 254 309 307 305 299 447 482 486 573	1,188 3,788 3,531 3,259 3,514 2,786 4,618 6,141 2,466 69	2,068 2,633 2,751 2,736 2,929 3,406 3,837 4,180 3,790 4,132	-559 -583 -555 -624 -582 -676 -735 -796 -825 -1,061	1,509 2,050 2,196 2,112 2,347 2,730 3,102 3,384 2,965 3,071	-4,537 -4,954 -5,113 -6,657 -5,642 -5,086 -4,990 -4,763 -4,647 -4,422	-1,840 884 614 -1,286 219 430 2,730 4,762 784 -1,282
1960 1961 1962 1963 1964 1965 1966 1967 1967	19,650 20,108 20,781 22,272 25,501 26,461 29,310 30,666 33,626 36,414	-14,758 -14,537 -16,260 -17,048 -18,700 -21,510 -25,493 -26,866 -32,991 -35,807	4,892 5,571 4,521 5,224 6,801 4,951 3,817 3,800 635 607	-1,057 -1,131 -912 -742 -794 -487 -1,043 -1,187 -596 -718	-964 -978 -1,152 -1,309 -1,146 -1,280 -1,331 -1,750 -1,548 -1,763	639 732 912 1,036 1,161 1,480 1,497 1,742 1,759 1,964	3,508 4,195 3,370 4,210 6,022 4,664 2,940 2,604 250 91	4,616 4,999 5,618 6,157 6,824 7,437 7,528 8,021 9,367 10,913	-1,238 -1,245 -1,324 -1,560 -1,783 -2,088 -2,481 -2,747 -3,378 -4,869	3,379 3,755 4,294 4,596 5,041 5,350 5,047 5,274 5,990 6,044	-4,062 -4,127 -4,277 -4,392 -4,240 -4,583 -4,955 -5,294 -5,629 -5,735	2,824 3,822 3,387 4,414 6,823 5,431 3,031 2,583 611 399
1970	42,469	-39,866	2,603	-641	-2,038	2,330	2,254	11,748	-5,515	6,233	-6,156	2,331
	43,319	-45,579	-2,260	653	-2,345	2,649	-1,303	12,707	-5,435	7,272	-7,402	-1,433
	49,381	-55,797	-6,416	1,072	-3,063	2,965	-5,443	14,765	-6,572	8,192	-8,544	-5,795
	71,410	-70,499	911	740	-3,158	3,406	1,900	21,808	-9,655	12,153	-6,913	7,140
	98,306	-103,811	-5,505	165	-3,184	4,231	-4,292	27,587	-12,084	15,503	-9,249	1,962
	107,088	-98,185	8,903	1,461	-2,812	4,854	12,404	25,351	-12,564	12,787	-7,075	18,116
	114,745	-124,228	-9,483	931	-2,558	5,027	-6,082	29,375	-13,311	16,063	-5,686	4,295
	120,816	-151,907	-31,091	1,731	-3,565	5,680	-27,246	32,354	-14,217	18,137	-5,226	-14,335
	142,075	-176,002	-33,927	857	-3,573	6,879	-29,763	42,088	-21,680	20,408	-5,788	-15,143
	184,439	-212,007	-27,568	-1,313	-2,935	7,251	-24,565	63,834	-32,961	30,873	-6,593	-285
1980	224,250	-249,750	-25,500	-1,822	-997	8,912	-19,407	72,606	-42,532	30,073	-8,349	2,317
1981	237,044	-265,067	-28,023	-844	144	12,552	-16,172	86,529	-53,626	32,903	-11,702	5,030
1982	211,157	-247,642	-36,485	112	-992	13,209	-24,156	91,747	-56,583	35,164	-16,544	-5,536
1983	201,799	-268,901	-67,102	-563	-4,227	14,124	-57,767	90,000	-53,614	36,386	-17,310	-38,691
1984	219,926	-332,418	-112,492	-2,547	-8,438	14,404	-109,073	108,819	-73,756	35,063	-20,335	-94,344
1985	215,915	-338,088	-122,173	-4,390	-9,798	14,483	-121,880	98,542	-72,819	25,723	-21,998	-118,155
1986	223,344	-368,425	-145,081	-5,181	-8,779	20,502	-138,538	97,064	-81,571	15,494	-24,132	-147,177
1987	250,208	-409,765	-159,557	-3,844	-8,010	19,728	-151,684	108,184	-93,891	14,293	-23,265	-160,655
1988	320,230	-447,189	-126,959	-6,320	-3,013	21,725	-114,566	136,713	-118,026	18,687	-25,274	-121,153
1989	359,916	-477,665	-117,749	-6,749	3,551	27,805	-93,142	161,287	-141,463	19,824	-26,169	-99,486
1990 1991 1992 1993 1994 1995 1996 1997 1997	387,401 414,083 439,631 456,943 502,859 575,204 612,113 678,366 670,416 683,965	-498,438 -491,020 -536,528 -589,394 -668,690 -749,374 -803,113 -876,794 -918,637 -1,031,784	-111,037 -76,937 -96,897 -132,451 -165,831 -174,170 -191,000 -198,428 -248,221 -347,819	-7,599 -5,275 -1,448 1,383 2,570 4,600 5,385 4,968 5,220 2,593	7,501 16,560 19,969 19,714 16,305 21,772 25,015 22,152 10,210 7,085	30,270 34,516 39,163 41,040 48,463 51,414 56,535 63,035 66,651 73,051	-80,864 -31,136 -39,212 -70,311 -98,493 -96,384 -104,065 -108,273 -166,140 -265,090	171,742 149,214 133,767 136,057 166,521 210,244 226,129 256,804 261,819 293,925	-143,192 -125,085 -109,532 -110,741 -149,375 -189,353 -203,811 -244,195 -257,554 -280,037	28,550 24,131 24,235 25,316 17,146 20,891 22,318 12,609 4,265 13,888	-26,654 9,904 -35,100 -39,811 -40,265 -38,074 -43,017 -45,062 -53,187 -50,428	-78,968 2,897 -50,078 -84,805 -121,612 -113,567 -124,764 -140,726 -215,062 -301,630
2000	771,994	-1,226,684	-454,690	317	2,486	72,052	-379,835	350,918	-329,864	21,054	-58,645	-417,426
2001	718,712	-1,148,231	-429,519	-2,296	-3,254	69,943	-365,126	290,797	-259,075	31,722	-51,295	-384,699
2002	682,422	-1,167,377	-484,955	-7,158	-4,245	72,633	-423,725	280,942	-253,544	27,398	-64,948	-461,275
2003	713,415	-1,264,307	-550,892	-11,981	-11,475	77,433	-496,915	320,456	-275,147	45,309	-71,794	-523,400
2004	807,516	-1,477,094	-669,578	-13,518	-14,275	89,640	-607,730	413,739	-346,519	67,219	-84,482	-624,993
2005	894,631	-1,681,780	-787,149	-10,536	-13,006	99,124	-711,567	535,263	-462,905	72,358	-89,784	-728,993
2006	1,023,109	-1,861,380	-838,270	-13,602	-10,788	109,377	-753,283	685,150	-627,956	57,194	-92,027	-788,116
2007	1,148,481	-1,967,853	-819,373	-16,768	2,181	133,702	-700,258	817,779	-736,030	81,749	-112,705	-731,214
2007:	270,318	-473,681	-203,363	-3,286	-1,587	28,692	-179,543	186,746	-173,959	12,787	-30,174	-196,930
	279,488	-485,375	-205,887	-4,085	-806	31,960	-178,819	202,171	-192,492	9,679	-24,953	-194,093
	295,494	-496,698	-201,204	-4,251	1,064	36,276	-168,114	213,520	-190,562	22,958	-27,796	-172,952
	303,180	-512,099	-208,919	-5,146	3,509	36,773	-173,783	215,343	-179,016	36,327	-29,784	-167,241
	317,813	-528,845	-211,032	-4,398	3,115	35,205	-177,110	199,827	-166,615	33,212	-31,742	-175,640
	337,312	-553,641	-216,328	-5,340	4,471	36,646	-180,551	194,873	-167,529	27,344	-29,941	-183,147

Adjusted from Census data for differences in valuation, coverage, and timing; excludes military.
Includes transfers of goods and services under U.S. military grant programs.

See next page for continuation of table.

Table B-103.—U.S. international transactions, 1946-2008—Continued

[Millions of dollars; quarterly data seasonally adjusted. Credits (+), debits (-)]

						Hillandia	l account				Statistical	discrepancy
Voor	or quarter	Capital account	ex	J.Sowned a cluding finan crease/finand	cial derivativ	es	excludin	vned assets i g financial de e/financial in	rivatives	Financial	Total (sum of	Of
real u	or quarter	trans- actions, net	Total	U.S. official reserve assets ³	Other U.S. Govern- ment assets	U.S. private assets	Total	Foreign official assets	Other foreign assets	Financial derivatives, net	the items with sign reversed)	which: Seasonal adjustment discrepancy
1946				-623								
1947				-3,315								
1948				-1,736								
1949				-266								
				1,758								
				-33 -415								
1052				1,256								
1954				480								
1955				182								
1956				-869								
				-1,165								
1958				2,292 1,035								
					4 400		0.004	4 470			4.040	
			-4,099 -5,538	2,145 607	-1,100 -910	-5,144 -5,235	2,294 2,705	1,473 765	821 1,939		-1,019 -989	
			-3,336 -4,174	1,535	-1,085	-3,233 -4,623	1,911	1,270	641		-1,124	
			-7,270	378	-1,662	-5.986	3,217	1,986	1.231		-360	
1964			-9,560	171	-1,680	-8,050	3,643	1,660	1,983		-907	
			-5,716	1,225	-1,605	-5,336	742	134	607		-457	
			-7,321	570	-1,543	-6,347	3,661	-672	4,333		629	
			-9,757 -10,977	53 –870	-2,423 -2,274	-7,386 -7,833	7,379 9,928	3,451 -774	3,928 10,703		-205 438	
1969			-11,585	-1,179	-2,200	-8,206	12,702	-1,301	14,002		-1,516	
			-8,470	3.348	-1.589	-10.229	6,359	6,908	-550		-219	
1971			-11,758	3,066	-1,884	-12,940	22,970	26,879	-3,909		-9,779	
1972			-13,787	706	-1,568	-12,925	21,461	10,475	10,986		-1,879	
1973			-22,874	158	-2,644	-20,388	18,388	6,026	12,362		-2,654	
1974			-34,745	-1,467	366	-33,643	35,227	10,546	24,682		-2,444	
19/5			-39,703	-849 2 550	-3,474 -4,214	-35,380 -44,498	16,870 37.839	7,027	9,843 20,147		4,717 9,134	
1970			-51,269 -34,785	-2,558 -375	-4,214 -3,693	-44,496 -30,717	52,770	17,693 36,816	15,954		-3,650	
1978			-61,130	732	-4,660	-57,202	66,275	33,678	32,597		9,997	
1979			-64,915	6	-3,746	-61,176	39,554	-13,665	53,218		25,647	
1980			-85,815	-7,003	-5,162	-73,651	60,885	15,497	45,388		22,613	
1981			-113,054	-4,082	-5,097	-103,875	84,591	4,960	79,631		23,433	
1982		199	-127,882	-4,965	-6,131	-116,786	95,056	3,593	91,464		38,163	
		209	-66,373	-1,196	-5,006	-60,172	87,399	5,845	81,554		17,457	
1984		235 315	-40,376 -44,752	-3,131 -3,858	-5,489 -2,821	-31,757 -38,074	116,048 144,231	3,140 -1,119	112,908 145,349		18,437 18,362	
1986		301	-111,723	312	-2,022	-110,014	228,330	35,648	192,681		30,269	
1987		365	-79,296	9,149	1,006	-89,450	247,100	45,387	201,713		-7,514	
1988		493	-106,573	-3,912	2,967	-105,628	244,833	39,758	205,075		-17,600	
1989		336	-175,383	-25,293	1,233	-151,323	222,777	8,503	214,274		51,756	
		-6,579	-81,234	-2,158	2,317	-81,393	139,357	33,910	105,447		27,425	
1991		-4,479	-64,389	5,763	2,923	-73,075	108,221	17,388	90,833		-42,252	
1992		-557 -1,299	-74,410 -200,551	3,901 -1,379	-1,667 -351	-76,644 -198,823	168,349 279,758	40,476 71,753	127,872 208,005		-43,304 6,898	
		-1,723	-178,937	5,346	-390	-183,893	303,174	39,583	263,591		-902	
		-927	-352,264	-9,742	-984	-341,538	435,102	109,880	325,222		31,656	
1996		-735	-413,409	6,668	-989	-419,088	547,885	126,724	421,161		-8,977	
		-1,027	-485,475	-1,010	68	-484,533	704,452	19,036	685,416		-77,224	
		-766 4 020	-353,829	-6,783	-422 2.750	-346,624	420,794	-19,903	440,697		148,863 68,421	
		-4,939	-504,062	8,747	2,750	-515,559	742,210	43,543	698,667		,	
		-1,010	-560,523	-290	-941	-559,292	1,038,224	42,758	995,466		-59,265	
2001 2002		-1,270 -1,470	-382,616 -294,646	-4,911 -3,681	-486 345	-377,219 -291,310	782,870 795,161	28,059 115,945	754,811 679,216		-14,285 -37,770	
		-3.480	-325,424	1,523	537	-327,484	858,303	278 069	580,234		-6.000	
2004		-2,369	-1,000,870	2,805	1.710	-1.005.385	1.533.201	397,755 259,268 487,939	1.135.446		95.030	
2005		-4,036	-546,631	14,096	5,539 5,346	-566,266 -1,259,469	1,247,347 2,061,113	259,268	988,079 1,573,174		32,313 -47,078	
		-3,880	-1,251,749	2,374	5,346	1,259,469	2,061,113	487,939	1,5/3,1/4	29,710	-4/,U/8	
		-1,843	-1,289,854	-122	-22,273	-1,267,459	2,057,703	411,058	1,646,645	6,496	-41,287	
	ļ	-543	-442,065	-72	445	-442,438	692,713	163,270	529,443	14,795	-67,970	12,192
	 	-112 -617	-523,556 -170,476	26 -54	-596 623	-522,985 -171,045	718,112 266,476	88,822 13,469	629,290 253,007	-1,007 5,942	656 71,627	722 -21,805
	IV	-571	-153,757	-22	-22,744	-171,043 -130,990	380,402	145,497	234,905	-13,234	-45,600	8,892
	l	-600	-260,644	-276	3,265	-263,634	459,017	173,533	285,484	-8,001	-14,131	9,271
2000.	P	-652	110,431	-1,267	-41,265	152,963	26,301	144,417	-118,116	-0,001	47,067	-3,464

³ Consists of gold, special drawing rights, foreign currencies, and the U.S. reserve position in the International Monetary Fund (IMF). Source: Department of Commerce (Bureau of Economic Analysis).

Table B-104.—U.S. international trade in goods by principal end-use category, 1965–2008 [Billions of dollars; quarterly data seasonally adjusted]

		Exports									Imports			
				Nonagr	icultural p	roducts					Nonpet	troleum pro	oducts	
Year or quarter	Total	Agri- cultural prod- ucts	Total	Indus- trial sup- plies and materi- als	Capital goods except auto- motive	Auto- motive	Other	Total	Petro- leum and prod- ucts	Total	Indus- trial sup- plies and materi- als	Capital goods except auto- motive	Auto- motive	Other
1965 1966 1967 1968 1969	26.5 29.3 30.7 33.6 36.4	6.3 6.5 6.3 6.1	20.2 22.4 24.2 27.3 30.3	7.6 8.2 8.5 9.6 10.3	8.1 8.9 9.9 11.1 12.4	1.9 2.4 2.8 3.5 3.9	2.6 2.9 3.0 3.2 3.7	21.5 25.5 26.9 33.0 35.8	2.0 2.1 2.1 2.4 2.6	19.5 23.4 24.8 30.6 33.2	9.1 10.2 10.0 12.0 11.8	1.5 2.2 2.5 2.8 3.4	0.9 1.8 2.4 4.0 4.9	8.0 9.2 9.9 11.8 13.0
1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980	42.5 43.3 49.4 71.4 98.3 107.1 114.7 120.8 142.1 184.4 224.3	7.4 7.8 9.5 18.0 22.4 22.2 23.4 24.3 29.9 35.5 42.0	35.1 35.5 39.9 53.4 75.9 84.8 91.4 96.5 112.2 149.0	12.3 10.9 11.9 17.0 26.3 26.8 28.4 29.8 34.2 52.2 65.1	14.7 15.4 16.9 22.0 30.9 36.6 39.1 39.8 47.5 60.2 76.3	3.9 4.7 5.5 6.9 8.6 10.6 12.1 13.4 15.2 17.9	4.3 4.5 5.6 7.6 10.0 10.8 11.7 13.5 15.3 18.7 23.4	39.9 45.6 55.8 70.5 103.8 98.2 124.2 151.9 176.0 212.0 249.8	2.9 3.7 4.7 8.4 26.6 27.0 34.6 45.0 42.6 60.4 79.5	36.9 41.9 51.1 62.1 77.2 71.2 89.7 106.9 133.4 151.6	12.4 13.8 16.3 19.6 27.8 24.0 29.8 35.7 40.7 47.5 53.0	4.0 4.3 5.9 8.3 9.8 10.2 12.3 14.0 19.3 24.6 31.6	5.5 7.4 8.7 10.3 12.0 11.7 16.2 18.6 25.0 26.6 28.3	15.0 16.4 20.2 23.9 27.5 25.3 31.4 38.6 48.4 52.8
1981 1982 1983 1984 1985 1986 1987 1988	237.0 211.2 201.8 219.9 215.9 223.3 250.2 320.2 359.9	44.1 37.3 37.1 38.4 29.6 27.2 29.8 38.8 41.1	193.0 173.9 164.7 181.5 186.3 196.2 220.4 281.4 318.8	63.6 57.7 52.7 56.8 54.8 59.4 63.7 82.6 90.5	84.2 76.5 71.7 77.0 79.3 82.8 92.7 119.1 136.9	19.7 17.2 18.5 22.4 24.9 25.1 27.6 33.4 35.1	25.5 22.4 21.8 25.3 27.2 28.9 36.4 46.3 56.3	265.1 247.6 268.9 332.4 338.1 368.4 409.8 447.2 477.7	78.4 62.0 55.1 58.1 51.4 34.3 42.9 39.6 50.9	186.7 185.7 213.8 274.4 286.7 334.1 366.8 407.6 426.8	56.1 48.6 53.7 66.1 62.6 69.9 70.8 83.1 84.6	37.1 38.4 43.7 60.4 61.3 72.0 85.1 102.2 112.3	31.0 34.3 43.0 56.5 64.9 78.1 85.2 87.9 87.4	62.4 64.3 73.3 91.4 97.9 114.2 125.7 134.4 142.5
1990 1991 1992 1993 1994 1995 1996 1997 1998	387.4 414.1 439.6 456.9 502.9 575.2 612.1 678.4 670.4 684.0	40.2 40.1 43.6 47.1 57.2 61.5 58.5 53.2 49.7	347.2 374.0 395.6 413.3 455.8 518.0 550.6 619.9 617.3 634.3	97.0 101.6 101.7 105.1 112.7 135.6 138.7 148.6 139.4 140.3	153.0 166.6 176.4 182.7 205.7 234.4 254.0 295.8 299.8 311.2	36.2 39.9 46.9 51.6 57.5 61.4 64.4 73.4 72.5 75.3	61.0 65.9 70.6 74.0 79.9 86.5 93.6 102.0 105.5 107.5	498.4 491.0 536.5 589.4 668.7 749.4 803.1 876.8 918.6 1,031.8	62.3 51.7 51.6 51.5 56.0 72.7 71.8 50.9 67.8	436.1 439.3 484.9 537.9 617.4 693.3 730.4 805.0 867.7 964.0	83.0 81.3 89.1 100.8 113.6 128.5 136.1 144.9 151.6 156.3	116.4 121.1 134.8 153.2 185.0 222.1 228.4 253.6 269.8 295.7	88.2 85.5 91.5 102.1 118.1 123.7 128.7 139.4 148.6 179.0	148.5 151.4 169.6 182.0 200.6 219.0 237.1 267.1 297.7 333.0
2000	772.0 718.7 682.4 713.4 807.5 894.6 1,023.1 1,148.5	52.8 54.9 54.5 60.9 62.9 64.9 72.9 92.1	719.2 663.8 627.9 652.5 744.6 829.7 950.2 1,056.4	163.9 150.5 147.6 162.5 192.2 221.5 263.2 302.3	357.0 321.7 290.4 293.7 331.4 363.3 415.0 447.4	80.4 75.4 78.9 80.6 89.2 98.4 107.0 121.0	117.9 116.2 110.9 115.7 131.7 146.6 165.1 185.6	1,226.7 1,148.2 1,167.4 1,264.3 1,477.1 1,681.8 1,861.4 1,967.9	120.3 103.6 103.5 133.1 180.5 251.9 302.4 331.0	1,106.4 1,044.6 1,063.9 1,131.2 1,296.6 1,429.9 1,559.0 1,636.9	181.9 172.5 164.6 181.4 232.5 272.7 300.1 308.4	347.0 298.0 283.3 295.9 343.6 379.3 418.3 444.5	195.9 189.8 203.7 210.1 228.2 239.4 256.6 258.9	381.6 384.3 412.2 443.8 492.4 538.5 584.0 625.1
2005: I II III IV	214.9 223.7 223.6 232.4	15.8 16.5 16.0 16.6	199.1 207.2 207.6 215.9	53.7 56.3 55.4 56.0	86.2 90.8 90.6 95.7	23.7 23.9 24.7 26.1	35.4 36.3 36.9 38.0	399.9 412.4 422.8 446.8	53.5 57.5 66.7 74.1	346.3 354.9 356.1 372.7	65.0 65.7 66.4 75.6	90.8 95.3 95.4 97.8	57.9 58.6 60.0 62.8	132.6 135.3 134.3 136.4
2006: I II III IV	244.7 253.3 259.3 265.8	17.5 18.1 18.5 18.8	227.2 235.2 240.8 247.0	60.8 65.8 67.8 68.8	100.3 103.0 104.0 107.8	26.4 26.2 27.1 27.3	39.8 40.3 41.8 43.1	453.3 465.0 477.9 465.2	73.3 78.4 83.3 67.4	380.0 386.6 394.6 397.8	73.7 74.6 77.4 74.4	101.0 103.9 106.6 106.9	64.5 64.5 62.9 64.7	140.8 143.7 147.7 151.8
2007: 	270.3 279.5 295.5 303.2	19.9 21.5 25.0 25.7	250.4 258.0 270.5 277.5	69.5 74.8 77.4 80.6	107.5 108.3 114.4 117.2	28.4 29.6 31.6 31.4	45.0 45.2 47.2 48.2	473.7 485.4 496.7 512.1	70.8 78.1 83.0 99.0	402.9 407.2 413.7 413.1	74.3 78.7 79.1 76.3	108.9 109.9 112.4 113.3	64.2 63.5 66.2 65.0	155.5 155.1 156.0 158.6
2008:	317.8 337.3	29.5 32.5	288.4 304.9	89.3 99.5	116.5 120.1	30.6 31.0	51.9 54.1	528.8 553.6	112.2 123.6	416.7 430.0	80.5 86.0	113.6 117.3	64.3 62.5	158.3 164.2

¹ End-use commodity classifications beginning 1978 and 1989 are not strictly comparable with data for earlier periods. See *Survey of Current Business*, June 1988 and July 2001.

Source: Department of Commerce (Bureau of Economic Analysis).

Note.—Data are on a balance of payments basis and exclude military. In June 1990, end-use categories for goods exports were redefined to include reexports (exports of foreign goods); beginning with data for 1978, reexports are assigned to detailed end-use categories in the same manner as exports of domestic goods.

Table B-105.—U.S. international trade in goods by area, 2000–2008

[Millions of dollars]

		[IVIIIIVI	is or dorial:	2]					
ltem	2000	2001	2002	2003	2004	2005	2006	2007	2008 first 2 quarters at annual rate ¹
EXPORTS									
Total, all countries	771,994	718,712	682,422	713,415	807,516	894,631	1,023,109	1.148.481	1,310,250
Éurope Euro area ²	184,657	178,229	160,045	168,314	189,416	207,895	241,274	280,845	335,766
Euro area ²	114,930	111,026	103,837	109,898	124,762	135,685	153,696	178,328	205,932
France Germany	20,161 28,921	19,693 29,363	18,871 26,027	16,849	21,083	22,228 33,585	23,990 40,743	27,133 49,025	29,598 55,264
Italy	10,951	9,715	9,810	28,290 10,286	10,420	11,245	12,272	13,893	16,372
United Kingdom	40,725	39,701	32,085	32,871	35,124	37,569	44,215	48,733	57,312
Canada Latin America and Other Western Hemisphere Brazil	178,877	163,259	160,916	169,930	189,981	212,192	230,983	249,712	272,124
Latin America and Other Western Hemisphere	170,267	158,969	148,158	148,955	171,887	192,382	222,298	243,063	281,100
Mexico	15,257 111,172	15,790 101,181	12,267 97,242	11,125 97,224	13,727 110,697	15,173 120,264	19,088 133,892	24,497 135,962	29,524 147.910
Venezuela	5,509	5,600	3,967	2,782	4,743	6,411	8,977	10,193	10,964
Asia and Pacific	211.043	188.731	185.665	198.047	221.860	237.511	274.532	308.248	344.376
China	16,141	19,108	22,040	28,287	34,638	41,800	55,038	65,073	73,044
India	3,668	3,754	4,097	4,977	6,091	7,973	9,990	17,516	17,554
Japan Korea Republic of	63,473 27,150	55,879 21 203	49,670 21,756	50,252 23,481	52,288 25,730	53,265 27,136	57,593 31,418	60,898 33,646	67,032 36,240
Korea, Republic of Singapore Taiwan	17,620	21,203 17,337	15,977	16,147	19,252	20,259	24,255	25,874	31,128
Taiwan	23,832	17,394	17,886	16,987	21,296	21,454	22,645	25,961	27,926
Middle East	16,984	18,141	17,867	18,047	21,594	29,765	35,795	43,646	50,382
Africa Memorandum: Members of OPEC ³	10,165 17,625	11,383 19,503	9,771 17,808	10,122 16,554	12,778 21,579	14,886 31,305	18,228 39,108	22,966 48,659	26,504 58,308
	17,023	10,000	17,000	10,334	21,373	31,303	33,100	40,000	30,300
IMPORTS									
Total, all countries	1,226,684	1,148,231	1,167,377	1,264,307	1,477,094	1,681,780	1,861,380	1,967,853	2,164,972
Éurope Euro_area ²	259,848 163,636	255,988 166,508	261,340 172,762	285,270 187,937	321,486 209,746	355,404 229,206	383,812 246,862	411,179 268,772	456,832 290,828
France	29,809	30,421	28,289	1 29.244	31,609	33,848	37,037	41,544	44.930
Germany	58,588	59.141	62.540	68,188 25,398	77,349 28,096	84.967	89,237	94,280	103,366 37,740
Italy United Kingdom	25,034 43,379	23,768 41,185	24,209 40,597	25,398	28,096 46,087	30,975 50,800	32,660 53,187	35,027 56,367	37,740 58,652
Canada	234.084	219.243	212,225	42,610 224,955	259.871	294.080	306.066	320.323	359.764
Latin America and Other Western Hemisphere	210,186	199,660	205,193	218.526	256,746	295,914	334.876	348.378	389,190
Brazil	13,854	14,467	15,782	17,917	21,164	24,441	26,373	25,650	30,152
Mexico	136,829	132,279	135,701	139,695	158,096	173,034	201,195	213,552	226,480
Venezuela	18,623	15,251	15,093	17,136	24,921	33,978	37,134	39,910	52,168
Asia and Pacific	455,941 100,112	411,473 102,403	432,214 125,316	462,063 152,671	542,072 196,973	608,703 243,886	684,298 288,126	718,562 321,685	721,148 314,428
India	10.691	9,755	11.821	13.068	15.577	18.819	21.845	24,102	26,184
Japan	146,711	126,685	121,617	118,264	130,094	138,375	148,560	146,037	150,498
Korea, Republic ofSingapore	40,309 19,273	35,207 15,080	35,606 14,821	37,238 15,161	46,177 15,406	43,791 15,131	45,811 17,712	47,547 18,423	49,652 17,274
Taiwan	40,980	33,642	32,611	32,118	34,986	35,103	38,414	38,489	37,026
Middle East	38.977	36,424	34,304	41,469	51,283	62,467	71.907	77,405	114,722
Africa	27,648	25,443	22,101	32,024	45,636	65,211	80,420	92,005	123,314
Memorandum: Members of OPEC3	67,094	59,755	53,246	68,346	94,109	124,942	145,367	174,340	253,724
BALANCE (excess of exports +)									
Total, all countries	-454,690	-429,519	-484,955	-550,892	-669,578	-787,149	-838,270	-819,373	-854,720
Europe Euro_area ²	-75,191	-77,759	-101,295	-116,956	-132,070	-147,509	-142,538	-130,334	-121,066
Euro area ²	-48,706 -9.648	-55,482	-68,925 -9,418	-78,039 -12,395	-84,984 -10.526	-93,521	-93,166 -13,047	-90,445	-84,894 15,222
FranceGermany	-29.667	-10,728 -29,778	-36,513	-39,898	-46,507	-11,620 -51,382	-48,494	-14,411 -45,255	-15,332 -48,102
Italy	-14,083	-14,053	-14,399	-15,112	-17,676	-19,730	-20,388	-21,134	-21,368
United Kingdom	-2,654	-1,484	-8,512	-9,739	-10,963	-13,231	-8,971	-7,634	-1,338
Canada Latin America and Other Western Hemisphere	-55,207	-55,984	-51,309	-55,025	-69,890	-81,888	-75,083	-70,611	-87,640
Brazil	-39,919 1,403	-40,691 1,323	-57,035 -3,515	-69,571 -6,792	-84,859 -7,437	-103,532	-112,579 -7,285	-105,316 -1,153	-108,092 -628
Mexico	-25,657	-31.098	-38,459	-42,471	-47,399	-9,268 -52,770	-67.302	-77.589	-78.570
Venezuela	-13,114	-9,651	-11,126	-14,354	-20,178	-27,568	-28,157	-29,717	-41,204
Asia and Pacific	-244,898	-222,742	-246,549	-264,016	-320,212	-371,192	-409,766	-410,314	-376,774
ChinaIndia	-83,971 -7.023	-83,295 -6.001	-103,276 -7,724	-124,384 -8.091	-162,335 -9,486	-202,085 -10.846	-233,087 -11,854	-256,611 -6.586	-241,382 -8.630
.lanan	-7,023 -83,238	-70.806	-7,724 -71,947	-68,012	-9,486 -77,806	-10,846 -85,110	-90.967	-6,586 -85,139	-83,466
Korea, Republic of	-13,159	-14,004	-13,850	-13,757	-20,447	-16,655	-14,393	-13,901	-13,412
Korea, Republic of Singapore Taiwan	-1,653	2.25/	1,156	986	3,846	5,127	6,543	7,451	13,854
	-17,148	-16,248	-14,725	-15,131	-13,690	-13,650	-15,769	-12,528	-9,098
Middle East	-21,993 -17,483	-18,283 -14,060	-16,437 -12,330	-23,422 -21,902	-29,689 -32,858	-32,702 -50,325	-36,112 -62,192	-33,759 -69,039	-64,342 -96,808
Africa Memorandum: Members of OPEC ³	-49,469	-40,252	-35,438	-51,792	-72,530	-93,637	-106,259	-125,681	-30,606 -195,416
	,		,				,		

Preliminary; seasonally adjusted.
 Euro area consists of: Austria, Belgium, Cyprus (beginning in 2008), Finland, France, Germany, Greece (beginning in 2001), Ireland, Italy, Luxembourg, Malta (beginning in 2008), Netherlands, Portugal, Slovenia (beginning in 2007), and Spain.
 Organization of Petroleum Exporting Countries, consisting of Algeria, Angola (beginning in 2007), Ecuador (beginning in 2007), Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela.

Note.—Data are on a balance of payments basis and exclude military. For further details, and additional data by country, see *Survey of Current Business*, July 2008.

Source: Department of Commerce (Bureau of Economic Analysis).

Table B-106.—U.S. international trade in goods on balance of payments (BOP) and Census basis, and trade in services on BOP basis, 1981-2008

[Billions of dollars; monthly data seasonally adjusted]

			Goo (f.a.s	ds: Expor s. value) ¹	ts 1, 2					Go (cus	ods: Impo toms valu	rts ie) ⁵			Ser (BOP	vices basis)
			Census ba	asis (by e	nd-use c	ategory)				Census I	asis (by e	end-use o	category)			
Year or month	Total, BOP basis ³	Total, Census basis ^{3, 4}	Foods, feeds, and bev- erages	Indus- trial sup- plies and mate- rials	Capi- tal goods except auto- mo- tive	Auto- motive vehi- cles, parts, and en- gines	Con- sumer goods (non- food) except auto- motive	Total, BOP basis	Total, Census basis ⁴	Foods, feeds, and bev- erages	Indus- trial sup- plies and mate- rials	Capi- tal goods except auto- mo- tive	Auto- motive vehi- cles, parts, and en- gines	Con- sumer goods (non- food) except auto- motive	Ex- ports	lm- ports
1981 1982 1983 1984 1985 1986 1987 1988	237.0 211.2 201.8 219.9 215.9 223.3 250.2 320.2 359.9	238.7 216.4 205.6 224.0 7218.8 7227.2 254.1 322.4 363.8	31.3 30.9 31.5 24.0 22.3 24.3 32.3 37.2	61.7 56.7 61.7 58.5 57.3 66.7 85.1 99.3	72.7 67.2 72.0 73.9 75.8 86.2 109.2 138.8	15.7 16.8 20.6 22.9 21.7 24.6 29.3 34.8	14.3 13.4 13.3 12.6 14.2 17.7 23.1 36.4	265.1 247.6 268.9 332.4 338.1 368.4 409.8 447.2 477.7	261.0 244.0 258.0 6330.7 6336.5 365.4 406.2 441.0 473.2	17.1 18.2 21.0 21.9 24.4 24.8 24.8 25.1	112.0 107.0 123.7 113.9 101.3 111.0 118.3 132.3	35.4 40.9 59.8 65.1 71.8 84.5 101.4 113.3	33.3 40.8 53.5 66.8 78.2 85.2 87.7 86.1	39.7 44.9 60.0 68.3 79.4 88.7 95.9 102.9	57.4 64.1 64.3 71.2 73.2 86.7 98.7 110.9 127.1	45.5 51.7 55.0 67.7 72.9 80.1 90.8 98.5 102.5
1990	387.4 414.1 439.6 456.9 502.9 575.2 612.1 678.4 670.4 684.0	393.6 421.7 448.2 465.1 512.6 584.7 625.1 689.2 682.1 695.8	35.1 35.7 40.3 40.6 42.0 50.5 55.5 51.5 46.4 46.0	104.4 109.7 109.1 111.8 121.4 146.2 147.7 158.2 148.3 147.5	152.7 166.7 175.9 181.7 205.0 233.0 253.0 294.5 299.4 310.8	37.4 40.0 47.0 52.4 57.8 61.8 65.0 74.0 72.4 75.3	43.3 45.9 51.4 54.7 60.0 64.4 70.1 77.4 80.3 80.9	498.4 491.0 536.5 589.4 668.7 749.4 803.1 876.8 918.6 1,031.8	495.3 488.5 532.7 580.7 663.3 743.5 795.3 869.7 911.9 1,024.6	26.6 26.5 27.6 27.9 31.0 33.2 35.7 39.7 41.2 43.6	143.2 131.6 138.6 145.6 162.1 181.8 204.5 213.8 200.1 221.4	116.4 120.7 134.3 152.4 184.4 221.4 228.1 253.3 269.5 295.7	87.3 85.7 91.8 102.4 118.3 123.8 128.9 139.8 148.7 179.0	105.7 108.0 122.7 134.0 146.3 159.9 172.0 193.8 217.0 241.9	147.8 164.3 177.3 185.9 200.4 219.2 239.5 256.1 262.8 281.9	117.7 118.5 119.6 123.8 133.1 141.4 152.6 165.9 180.7 199.2
2000	772.0 718.7 682.4 713.4 807.5 894.6 1,023.1 1,148.5	781.9 729.1 693.1 724.8 818.8 906.0 1,036.6 1,162.5	47.9 49.4 49.6 55.0 56.6 59.0 66.0 84.3	172.6 160.1 156.8 173.0 203.9 233.0 276.0 316.3	356.9 321.7 290.4 293.7 331.4 363.3 415.0 447.4	80.4 75.4 78.9 80.6 89.2 98.4 107.0 121.0	89.4 88.3 84.4 89.9 103.2 115.3 129.1 146.1	1,226.7 1,148.2 1,167.4 1,264.3 1,477.1 1,681.8 1,861.4 1,967.9	1,218.0 1,141.0 1,161.4 1,257.1 1,469.7 1,673.5 1,853.9 1,957.0	46.0 46.6 49.7 55.8 62.1 68.1 74.9 81.7	299.0 273.9 267.7 313.8 412.8 523.8 602.0 634.7	347.0 298.0 283.3 295.9 343.6 379.3 418.3 444.5	195.9 189.8 203.7 210.1 228.2 239.4 256.6 258.9	281.8 284.3 307.8 333.9 372.9 407.2 442.6 474.9	298.6 286.2 292.3 304.3 353.1 389.1 433.9 497.2	223.7 221.8 231.1 250.4 291.2 313.5 348.9 378.1
2007: Jan Feb Apr Apr June July Aug Sept Oct Nov Dec	90.3 89.0 91.1 91.2 93.4 94.9 97.5 98.5 99.5 100.4 101.0	91.5 90.0 92.4 92.5 94.7 96.0 98.7 99.6 100.4 101.4 102.4	6.1 6.3 6.1 6.5 6.7 6.9 7.5 8.1 7.7 8.0 8.0	23.8 24.9 25.4 25.9 27.0 26.5 27.4 27.6 28.0 28.7	36.8 35.2 35.5 35.0 36.7 36.7 38.2 38.1 39.0 38.8 39.4	9.2 9.4 9.8 9.8 9.9 10.9 10.3 10.4 10.5 10.8	11.7 11.5 11.9 11.9 12.1 11.8 12.3 12.4 12.6 12.5 12.3	156.5 155.5 161.8 160.0 161.9 163.5 165.2 166.2 168.1 172.7 171.4	155.9 155.0 160.3 158.8 160.8 162.9 164.2 165.1 167.2 172.0 170.5	6.5 6.6 6.8 6.6 6.7 6.8 6.9 7.0 6.9 7.1 6.9	48.7 45.6 49.8 50.5 52.0 52.8 53.5 53.5 55.1 59.2 60.3	36.1 36.5 36.3 36.1 36.7 37.2 37.2 37.3 37.9 37.7 37.9	21.1 21.2 21.9 21.3 20.7 21.4 22.2 21.9 22.1 22.2 22.1 20.7	38.5 40.0 40.5 39.2 39.4 39.5 39.1 39.2 39.4 40.0 40.3 39.7	38.1 38.0 39.1 39.3 40.3 40.9 42.5 43.6 43.3 43.7 44.2 44.3	30.3 30.3 30.7 30.8 31.2 31.3 32.0 32.3 32.0 32.4 32.4 32.4
2008: Jan Feb Mar Apr June June July Aug Sept. p	104.7 108.1 105.0 110.1 111.0 116.3 120.8 117.9 108.1	105.5 109.0 105.5 110.8 111.5 117.0 121.7 119.0 108.5	8.6 9.1 9.6 9.9 9.7 10.4 10.4 10.2 9.1	29.7 31.8 31.5 32.7 34.2 36.7 38.3 37.4 33.3	39.4 39.3 37.8 40.1 39.4 40.6 41.5 42.3 38.1	10.3 10.8 9.4 10.0 10.2 10.8 12.2 10.5 10.3	13.3 13.4 12.6 13.4 13.4 14.1 14.9 14.0 13.5	174.8 180.6 173.4 183.0 183.1 187.5 194.9 188.9 177.7	174.0 178.9 171.8 181.4 182.4 186.8 193.9 188.3 176.2	7.1 7.2 7.1 7.4 7.6 7.5 7.5 7.8 7.6	64.0 64.5 61.5 67.5 67.1 73.4 79.9 73.8 65.7	37.4 38.3 37.9 39.1 39.8 38.4 39.0 38.3 38.8	21.2 22.8 20.3 21.5 20.5 20.5 20.4 19.3 18.6	39.1 41.0 39.5 40.2 41.8 41.3 41.1 43.6 40.1	44.7 44.5 44.7 45.0 45.9 46.5 47.3 47.4 47.3	33.3 33.4 33.2 33.6 34.0 34.1 34.4 35.4 34.2

Department of Defense shipments of grant-aid military supplies and equipment under the Military Assistance Program are excluded from total exports through 1985 and included beginning 1986.

 Fa.s. (free alongside ship) value basis at U.S. port of exportation for exports.

 Beginning with 1989 data, exports have been adjusted for undocumented exports to Canada and are included in the appropriate end-use categories. For

Note.—Goods on a Census basis are adjusted to a BOP basis by the Bureau of Economic Analysis, in line with concepts and definitions used to prepare international and national accounts. The adjustments are necessary to supplement coverage of Census data, to eliminate duplication of transactions recorded elsewhere in international accounts, and to value transactions according to a standard definition.

Data include international trade of the U.S. Virgin Islands, Puerto Rico, and U.S. Foreign Trade Zones.

Source: Department of Commerce (Bureau of the Census and Bureau of Economic Analysis).

prior years, only total exports include this adjustment.

⁴ Total includes "other" exports or imports, not shown separately.

⁵ Total arrivals of imported goods other than in-transit shipments.

⁶ Total includes revisions not reflected in detail.

⁷ Total exports are on a revised statistical month basis; end-use categories are on a statistical month basis.

Table B-107.—International investment position of the United States at year-end, 2000–2007 [Millions of dollars]

	E.		onaroj					
Type of investment	2000	2001	2002	2003	2004	2005	2006	2007 P
NET INTERNATIONAL INVESTMENT POSITION OF THE UNITED STATES	-1.330.630	-1.868.875	-2.037.970	-2.086.513	-2.245.417	-1,925,146	-2,225,804	-2,441,829
Financial derivatives, net ¹	-1,550,650	,,.	,,.	,,.		57,915	59,836	83,529
Net international investment position, excluding						37,313	33,030	03,323
financial derivatives	-1,330,630	-1,868,875	-2,037,970	-2,086,513	-2,245,417	-1,983,061	-2,285,640	-2,525,358
U.SOWNED ASSETS ABROADFinancial derivatives, gross positive fair value 1	6,238,785	6,308,681	6,649,079	7,638,086	9,340,634	11,961,552 1,190,029	14,381,297 1,238,995	17,639,954 2,284,581
U.Sowned assets abroad, excluding financial derivatives	6,238,785	6,308,681	6,649,079	7,638,086	9,340,634	10,771,523	13,142,302	15,355,373
U.S. official reserve assets	128,400 71,799	129,961 72,328	158,602 90.806	183,577 108.866	189,591 113.947	188,043 134,175	219,853 165,267	277,211 218.025
Special drawing rights Reserve position in the International	10,539	10,783	12,166	12,638	13,628	8,210	8,870	9,476
Monetary Fund	14,824	17,869	21,979	22,535	19,544	8,036	5,040	4,244
Foreign currencies	31,238	28,981	33,651	39,538	42,472	37,622	40,676	45,466
U.S. Government assets, other than official reserve assets	85,168	85.654	85,309	84,772	83.062	77,523	72,189	94.471
U.S. credits and other long-term assets 3	82,574	83,132	82,682	81,980	80,308	76,960	71,635	70,015
Repayable in dollars Other ⁴	82,293 281	82,854 278	82,406 276	81,706 274	80,035 273	76,687 273	71,362 273	69,742 273
U.S. foreign currency holdings and U.S. short-	201	2/0	2/0	2/4	2/3	2/3	2/3	2/3
term assets	2,594	2,522	2,627	2,792	2,754	563	554	24,456
U.S. private assets	6,025,217	6,093,066	6,405,168	7,369,737	9,067,981	10,505,957	12,850,260	14,983,691
Direct investment at current cost Foreign securities	1,531,607 2,425,534	1,693,131 2,169,735	1,867,043 2,076,722	2,054,464 2,948,370	2,498,494 3,545,396	2,651,721 4,329,259	2,935,977 5,604,475	3,332,828 6,648,686
Bonds	572,692	557,062	702,742	868,948	984,978	1,011,554	1,275,515	1,478,087
Corporate stocks	1,852,842	1,612,673	1,373,980	2,079,422	2,560,418	3,317,705	4,328,960	5,170,599
U.S. claims on unaffiliated foreigners reported by U.S. nonbanking concerns 5	026 550	020 202	901,946	E04 004	702 556	1 010 462	1 100 100	1 170 007
U.S. claims reported by U.S. banks, not	836,559	839,303	901,940	594,004	793,556	1,018,462	1,163,102	1,176,027
included elsewhere ⁶	1,231,517	1,390,897	1,559,457	1,772,899	2,230,535	2,506,515	3,146,706	3,826,150
FOREIGN-OWNED ASSETS IN THE UNITED	7,569,415	8,177,556	8,687,049	9,724,599	11,586,051	13,886,698	16,607,101	20,081,783
STATESFinancial derivatives, gross negative fair value 1	7,309,413	0,1//,000	0,007,049	9,724,099	11,300,031	1,132,114	1,179,159	2,201,052
Foreign-owned assets in the United States,							.,,	
excluding financial derivatives	7,569,415	8,177,556	8,687,049	9,724,599	11,586,051	12,754,584	15,427,942	17,880,731
Foreign official assets in the United States	1,030,708	1,109,072	1,250,977	1,562,564	2,011,899	2,306,292	2,825,628	3,337,030
U.S. Government securities U.S. Treasury securities	756,155 639,796	847,005 720.149	970,359 811.995	1,186,500 986.301	1,509,986 1,251,943	1,725,193 1.340.598	2,167,112 1,558,317	2,502,831 1.697.365
Other	116,359	126,856	158,364	200,199	258,043	384,595	608,795	805,466
Other U.S. Government liabilities 7	19,316	17,007	17,144	16,421	16,287	15,866	18,682	24,024
U.S. liabilities reported by U.S. banks, not	153.403	134.655	155.876	201.054	270 207	296.647	297.012	405.707
included elsewhere Other foreign official assets	101,834	110,405	107,598	201,054 158,589	270,387 215,239	268,586	342,822	403,707
Other foreign assets	6,538,707	7,068,484	7,436,072	8,162,035	9.574.152	10,448,292	12,602,314	14,543,701
Direct investment at current cost	1,421,017	1,518,473	1,499,952	1,580,994	1,742,716	1,905,979	2,151,616	2,422,796
U.S. Treasury securities	381,630	375,059	473,503	527,223	561,610	643,793	567,885	734,776
U.S. securities other than U.S. Treasury securities	2,623,014	2,821,372	2,779,067	3,422,856	3,995,506	4,352,998	5,372,361	6,132,438
Corporate and other bonds	1.068.566	1.343.071	1.530.982	1.710.787	2.035,149	2.243.135	2.824.879	3.299.325
Corporate stocks	1,554,448	1,478,301	1,248,085	1,712,069	1,960,357	2,109,863	2,547,482	2,833,113
U.S. currency	205,406	229,200	248,061	258,652	271,953	280,400	282,627	271,952
U.S. liabilities to unaffiliated foreigners reported by U.S. nonbanking concerns 8	738.904	798,314	897,335	450.884	600,161	658,177	797,495	959,544
U.S. liabilities reported by U.S. banks, not	,			,				
included elsewhere 9	1,168,736	1,326,066	1,538,154	1,921,426	2,402,206	2,606,945	3,430,330	4,022,195
Memoranda:	0.004.01.	0.044.004	0.000 500	0.700.400	0.000.700	0.007.000	4 45 4 005	E 4 47 0E0
Direct investment abroad at market value Direct investment in the United States at market value	2,694,014 2,783,235	2,314,934 2,560,294	2,022,588 2.021.817	2,729,126 2,454,877	3,362,796 2,717,383	3,637,996 2.817.970	4,454,635 3,293,739	5,147,952 3,523,600
	2,700,200	2,000,234	2,021,017	2,707,077	2,111,000	2,017,070	0,200,700	0,020,000

¹ A break in series in 2005 reflects the introduction of U.S. Department of the Treasury data on financial derivatives. ² U.S. official gold stock is valued at market prices.

Note.—For details regarding these data, see Survey of Current Business, July 2008.

Source: Department of Commerce (Bureau of Economic Analysis).

^{- 0.3.} Unlikel grave a construction of the construction of the

⁴ Includes indebtedness that the borrower may contractually, or at its option, repay with its currency, with a third country's currency, or by delivery of materials or transfer of services

or transfer of services.

§ A break in series in 2003 reflects the reclassification of assets reported by U.S. securities brokers from nonbank-reported assets to bank-reported assets, and a reduction in counterparty balances to eliminate double counting. A break in series in 2005 reflects the addition of previously unreported claims of U.S. financial intermediaries on their foreign parents associated with the issuance of asset-backed commercial paper in the U.S.

§ A break in series in 2003 reflects the reclassification of assets reported by U.S. securities brokers from nonbank-reported assets to bank-reported assets.

§ A break in series in 2003 reflects the reclassification of liabilities reported by U.S. securities brokers from nonbank-reported liabilities to bank-reported liabilities reported by U.S. securities brokers from nonbank-reported liabilities reported by U.S. securities brokers f

liabilities and a reduction in counterparty balances to eliminate double counting

⁹ A break in series in 2003 reflects the reclassification of liabilities reported by U.S. securities brokers from nonbank-reported liabilities to bank-reported

Table B-108.—Industrial production and consumer prices, major industrial countries, 1980-2008

Year or quarter	United States ¹	Canada	Japan	France	Germany ²	Italy	United Kingdom
			Industrial	production (Index, 2	2002=100)3		
1980	56.3 57.0 54.1 55.6 60.5	57.3 57.6 53.2 56.1 63.1	73.5 74.3 74.5 76.7 84.0	75.9 75.1 74.5 74.5 75.8	75.9 74.5 72.1 72.5 74.7	78.6 76.8 74.5 72.7 75.1	73.7 71.4 72.7 75.4 75.4
1985 1986 1987 1988	61.3 61.9 65.1 68.4 69.1	66.3 65.8 68.5 73.1 72.9	87.1 86.9 89.8 98.5 104.3	76.3 78.3 79.6 82.5 85.3	78.3 79.7 80.1 82.9 87.0	75.2 78.3 80.3 85.9 89.2	75.4 79.5 81.5 84.8 88.9 90.8
1990 1991 1992 1993	69.7 68.7 70.6 72.9 76.8	70.9 68.3 69.2 72.5 77.1	108.5 110.4 103.6 99.7 100.5	86.6 86.3 85.1 81.7 85.2	91.5 94.1 92.0 85.0 87.5	88.7 87.9 86.9 84.9 90.0	90.5 87.4 87.7 89.7 94.4
1995	80.4 84.0 90.1 95.4 99.5	80.6 81.6 86.2 89.2 94.4	103.8 106.1 110.1 102.5 102.7	86.8 86.6 90.3 93.8 96.0	88.1 88.3 91.0 94.4 95.5	95.3 93.7 97.4 98.5 98.4	96.1 97.4 98.8 99.8 101.4
2000 2001 2002 2003 2004 2005 2006 2007	103.7 100.1 100.0 101.2 103.8 107.2 109.6 111.4	102.6 98.4 100.0 100.1 101.7 103.3 103.3	108.5 101.2 100.0 103.0 108.0 114.3 117.5	100.0 101.3 100.0 99.7 102.0 102.3 102.8 104.3	100.9 101.1 100.0 100.4 103.4 106.9 113.2 120.1	102.6 101.4 100.0 99.5 99.1 98.4 100.7 100.5	103.2 101.6 100.0 99.3 100.2 99.1 99.8
2007: I II III IV	110.2 111.1 112.1 112.2	103.4 103.8 103.5 102.0	115.8 116.4 118.4 119.5	103.4 103.7 105.0 105.1	117.8 118.9 121.5 122.3	101.7 101.2 101.8 99.7	99.5 100.5 100.4 100.6
2008: <i>P</i>	112.3 111.3 109.1	99.9 99.3 100.0	118.6 117.6 116.1	105.2 103.5 102.8	123.8 122.8 121.2	100.2 99.5 97.8	100.1 99.4 98.3
			Consume	r prices (Index, 198	2-84=100)		
1980	82.4 90.9 96.5 99.6 103.9 107.6 109.6 118.3 124.0 130.7 136.2 140.3	76.1 85.6 94.9 100.4 100.4 109.0 113.5 118.4 123.2 129.3 135.5 143.1 145.3 147.9	91.0 95.3 98.1 99.8 102.1 104.2 104.9 105.6 108.0 111.4 115.0 117.0 118.5	72.2 81.8 91.7 100.3 108.0 114.3 117.2 121.1 124.3 128.7 132.9 137.2 140.4 143.4	86.7 92.2 97.0 100.3 102.7 104.9 104.7 105.0 106.3 109.2 112.2 116.7 122.7 128.1	63.9 75.5 87.8 100.8 111.4 121.7 128.9 135.1 141.9 150.7 160.4 170.5 179.5	78.5 87.9 95.4 99.8 104.8 111.1 114.9 119.7 125.6 135.4 148.2 156.9 162.7 165.3
994 995 996 997 998	148.2 152.4 156.9 160.5 163.0 166.6	148.2 151.4 153.8 156.2 157.8 160.5	110.3 119.2 119.3 121.5 122.2 121.8	145.4 148.4 151.4 153.2 154.2 155.0	131.6 133.9 135.8 138.4 139.7 140.5	195.7 195.8 205.6 213.8 218.2 222.5 226.2	169.3 175.2 179.4 185.1 191.4 194.3
2000 2001 2002 2003 2004 2005 2006	172.2 177.1 179.9 184.0 188.9 195.3 201.6 207.342	164.9 169.0 172.8 177.6 180.9 184.9 188.5	121.0 120.1 119.0 118.7 118.7 118.7 118.7	157.6 160.2 163.3 166.7 170.3 173.2 176.2 178.8	142.5 145.3 147.4 148.9 151.4 153.7 156.2 159.7	231.9 238.3 244.3 250.9 256.4 261.3 266.9 271.8	200.1 203.6 207.0 213.0 219.4 225.6 232.8 242.7
2007: I II IV	203.756 207.662 208.235 209.716	190.5 193.3 193.3 193.3	118.0 118.6 118.8 119.3	176.8 178.6 179.0 180.7	158.0 159.3 160.1 161.5	269.2 270.9 272.5 274.4	238.6 242.4 243.4 246.5
2008: I	212.100 216.757 219.278	193.9 197.9 199.9	119.2 120.2 121.4	182.0 184.5 184.8	162.7 163.9 165.1	277.5 280.6 283.3	248.0 253.0 255.4

See Note, Table B-51 for information on U.S. industrial production series.
 Prior to 1991 data are for West Germany only.
 All data exclude construction. Quarterly data are seasonally adjusted.

Note.—National sources data have been rebased for industrial production and consumer prices.

Sources: National sources as reported by each country, Department of Labor (Bureau of Labor Statistics), and Board of Governors of the Federal Reserve System.

Table B-109.—Civilian unemployment rate, and hourly compensation, major industrial countries, 1980-2008

[Quarterly data seasonally adjusted]

Year or quarter	United States	Canada	Japan	France	Germany ¹	Italy	United Kingdom
			Civilian u	nemployment rate	(Percent) ²		
1980 1981 1982 1983 1984 1985 1985 1986 1987	7.1 7.6 9.7 9.6 7.5 7.2 7.0 6.2 5.5 5.3	7.3 7.3 10.7 11.6 10.9 10.2 9.3 8.4 7.1	2.0 2.2 2.4 2.7 2.8 2.9 2.5 2.3	6.5 7.6 38.3 8.6 10.0 10.5 10.6 10.8 10.3	2.8 4.0 5.6 36.9 7.1 7.2 6.6 6.3 6.3 5.7	4.4 4.9 5.4 5.9 5.9 6.0 ³ 7.5 7.9 7.8	6.9 9.7 10.8 11.5 11.8 11.4 10.5 8.6 7.3
1990 1991 1992 1993 1994 1995 1995 1997 1998	35.6 6.8 7.5 6.9 36.1 5.6 5.4 4.9 4.5	7.7 9.8 10.6 10.8 *9.6 8.6 8.8 8.4 7.7	2.1 2.1 2.2 2.5 2.9 3.2 3.4 3.4 4.1	38.6 9.1 10.0 11.3 11.9 11.3 11.8 11.7 11.2	5.0 35.6 6.7 8.0 8.5 8.2 9.0 9.9 9.3 38.5	7.0 36.9 7.3 39.8 10.7 11.3 11.4 11.5 11.0	7.1 9.5 10.2 10.4 9.5 8.7 8.1 7.0 6.3
2000	4.0 4.7 5.8 6.0 5.5 5.1 4.6 4.6	6.1 6.5 7.0 6.9 6.4 6.0 5.5 5.3	4.8 5.1 5.4 5.3 4.8 4.5 4.2 3.9	9.1 8.4 8.8 9.2 9.6 9.6 9.5 8.6	7.8 7.9 8.6 9.3 10.3 311.2 10.4 8.7 9.3	10.2 9.2 8.7 8.5 8.1 7.8 6.9 6.2	5.5 5.1 5.2 5.0 4.8 4.9 5.5 5.4
2008:	4.5 4.7 4.8 4.9 5.3 6.0	5.3 5.2 5.2 5.2 5.3 5.3	3.8 3.8 3.9 3.9 4.0 4.1	8.7 8.5 8.2 8.0 8.0 8.3	8.9 8.5 8.1 7.8 7.6 7.5	6.1 6.2 6.4 6.7 6.8	5.5 5.4 5.3 5.2 5.3 5.4
		Manuf	acturing hourly cor	npensation in U.S.	dollars (Index, 1996	•	
1980 1981 1982 1983 1984 1985 1986 1987 1988 1988	51.2 56.3 61.5 63.3 66.5 68.8 72.1 74.4 76.9	51.1 56.1 62.7 67.1 67.8 67.7 77.6 81.8 89.1	25.8 28.3 26.3 28.4 29.2 30.3 44.9 53.6 61.6	41.9 37.7 36.9 35.6 34.1 36.1 49.1 58.9 61.5	35.9 30.6 30.2 30.1 28.2 28.9 40.8 51.4 54.8 53.8	40.6 36.6 35.9 37.5 37.6 38.8 53.0 65.7 70.3 73.6	49.8 50.3 47.7 44.3 42.0 44.7 54.9 68.1 79.0
1990 1991 1992 1993 1993 1995 1996 1997 1998	82.7 87.4 91.5 93.3 96.3 98.1 100.0 102.6 108.6	96.3 105.0 104.3 98.9 96.0 97.9 100.0 100.9	62.3 71.4 78.6 92.2 102.2 114.9 100.0 92.8 87.9	74.1 75.7 84.9 82.9 87.9 100.7 100.0 90.2 89.9 88.9	67.3 67.6 78.6 78.8 84.1 100.3 100.0 88.4 88.4	90.8 95.3 102.2 83.4 85.8 89.8 100.0 94.8 91.3	94.7 105.6 105.6 92.5 96.8 101.5 100.0 109.6 119.3
2000 2001 2002 2003 2004 2005 2006 2007	123.2 126.1 135.2 144.7 150.5 156.7 162.2	104.3 102.8 104.7 122.1 135.3 152.4 165.9 182.0	106.1 95.3 93.1 98.4 106.5 105.5 98.5	81.2 80.9 90.6 111.0 125.8 130.5 138.1	79.0 79.0 85.5 104.7 115.7 117.3 123.3 136.8	79.5 79.7 86.6 107.6 122.3 126.4 130.0 144.9	122.6 121.6 133.9 153.0 180.5 186.3 202.0 224.8

¹ Prior to 1991 data are for West Germany only.

Source: Department of Labor (Bureau of Labor Statistics).

² Civilian unemployment rates, approximating U.S. concepts. Quarterly data for France, Germany, and Italy should be viewed as less precise indicators of unemployment under U.S. concepts than the annual data.

³ There are breaks in the series for Canada (1994), France (1982 and 1990), Germany (1983, 1991, 1999, and 2005), Italy (1986, 1991, and 1993), and United States (1990 and 1994). For details on break in series in 1990 and 1994 for United States, see footnote 5, Table B–35. For details on break in series for other countries, see U.S. Department of Labor International Comparisons of Annual Labor Force Statistics, 10 Countries, 1960–2007, October 21, 2008, ⁴ Hourly compensation in manufacturing, U.S. dollar basis; data relate to all employed persons (employees and self-employed workers). For details on manufacturing hourly compensation, see U.S. Department of Labor International Comparisons of Manufacturing Productivity and Unit Labor Cost Trends, 2007, September 26, 2008.

Table B-110.—Foreign exchange rates, 1985-2008

[Foreign currency units per U.S. dollar, except as noted; certified noon buying rates in New York]

Period	Australia (dollar) ¹	Canada (dollar)	China, P.R. (yuan)	EMU Members (euro) 1, 2	Germany (mark) ²	Japan (yen)	Mexico (peso)	South Korea (won)	Sweden (krona)	Switzer- land (franc)	United Kingdom (pound) 1
March 1973	1.2716	0.9967	2.2401		2.8132	261.90	0.013	398.85	4.4294	3.2171	2.4724
1985	0.7003 .6709 .7014 .7841 .7919	1.3659 1.3896 1.3259 1.2306 1.1842	2.9434 3.4616 3.7314 3.7314 3.7673		2.9420 2.1705 1.7981 1.7570 1.8808	238.47 168.35 144.60 128.17 138.07	0.257 .612 1.378 2.273 2.461	872.45 884.60 826.16 734.52 674.13	8.6032 7.1273 6.3469 6.1370 6.4559	2.4552 1.7979 1.4918 1.4643 1.6369	1.2974 1.4677 1.6398 1.7813 1.6382
1990 1991 1992 1993 1994 1995 1996 1997 1998	.7807 .7787 .7352 .6799 .7316 .7407 .7828 .7437 .6291	1.1668 1.1460 1.2085 1.2902 1.3664 1.3725 1.3638 1.3849 1.4836 1.4858	4.7921 5.3337 5.5206 5.7795 8.6397 8.3700 8.3389 8.3193 8.3008 8.2783	1.0653	1.6166 1.6610 1.5618 1.6545 1.6216 1.4321 1.5049 1.7348 1.7597	145.00 134.59 126.78 111.08 102.18 93.96 108.78 121.06 130.99 113.73	2.813 3.018 3.095 3.116 3.385 6.447 7.600 7.918 9.152 9.553	710.64 736.73 784.66 805.75 806.93 772.69 805.00 953.19 1,400.40 1,189.84	5.9231 6.0521 5.8258 7.7956 7.7161 7.1406 6.7082 7.6446 7.9522 8.2740	1.3901 1.4356 1.4064 1.4781 1.3667 1.1812 1.2361 1.4514 1.4506	1.7841 1.7674 1.7663 1.5016 1.5319 1.5785 1.5607 1.6376 1.6573 1.6172
2000	.5815 .5169 .5437 .6524 .7365 .7627 .7535 .8391	1.4855 1.5487 1.5704 1.4008 1.3017 1.2115 1.1340 1.0734	8.2784 8.2770 8.2771 8.2772 8.2768 8.1936 7.9723 7.6058	.9232 .8952 .9454 1.1321 1.2438 1.2449 1.2563 1.3711		107.80 121.57 125.22 115.94 108.15 110.11 116.31 117.76	9.459 9.337 9.663 10.793 11.290 10.894 10.906 10.928	1,130.90 1,292.02 1,250.31 1,192.08 1,145.24 1,023.75 954.32 928.97	9.1735 10.3425 9.7233 8.0787 7.3480 7.4710 7.3718 6.7550	1.6904 1.6891 1.5567 1.3450 1.2428 1.2459 1.2532 1.1999	1.5156 1.4396 1.5025 1.6347 1.8330 1.8204 1.8434 2.0020
2007: 	.7865 .8316 .8471 .8898	1.1718 1.0983 1.0456 .9811	7.7582 7.6784 7.5578 7.4336	1.3109 1.3484 1.3748 1.4482		119.33 120.80 117.74 113.23	11.024 10.878 10.965 10.849	938.98 928.69 927.27 921.26	7.0089 6.8641 6.7402 6.4148	1.2330 1.2221 1.1986 1.1468	1.9548 1.9862 2.0213 2.0442
2008: I II	.9058 .9435 .8879	1.0039 1.0099 1.0411	7.1590 6.9578 6.8375	1.5007 1.5625 1.5030		105.17 104.62 107.58	10.803 10.428 10.328	956.12 1,017.02 1,064.56	6.2668 5.9862 6.3175	1.0670 1.0316 1.0734	1.9790 1.9712 1.8924

T 1 1 1 1		6.1		1 11	
Trade-weigh	ited value	of the	U.S.	dollar	

		Non	ninal	Real ⁷					
	G-10 index (March 1973=100) ³	Broad index (January 1997=100) ⁴	Major currencies index (March 1973=100) ⁵	OITP index (January 1997=100) ⁶	Broad index (March 1973=100) ⁴	Major currencies index (March 1973=100) ⁵	OITP index (March 1973=100) ⁶		
1985 1986 1987 1988 1989	143.0 112.2 96.9 92.7 98.6	67.16 62.35 60.42 60.92 66.90	133.55 109.77 97.16 90.43 94.29	13.14 16.49 19.92 24.07 29.61	123.04 107.65 98.89 92.29 94.04	122.05 99.71 89.21 84.19 88.52	125.80 130.46 127.73 116.60 111.08		
1990 1991 1992 1993 1994 1995 1996 1997 1998	89.1 89.8 86.6 93.2 91.3 84.2 87.3 96.4 98.8	71.41 74.35 76.91 83.78 90.87 92.65 97.46 104.43 115.89 116.04	89.91 88.59 87.00 89.90 88.43 83.41 87.25 93.93 98.45 96.89	40.10 46.69 53.13 63.37 80.54 92.51 98.24 104.64 125.89 129.20	91.50 89.97 88.08 89.43 89.25 86.80 88.81 93.54 101.54	85.15 83.48 82.35 85.59 85.24 81.37 86.28 93.56 98.64	110.73 109.82 106.17 103.52 103.52 103.59 100.55 101.61 114.92 113.63		
2000 2001 2002 2002 2003 2004 2005 2006 2007		119.45 125.93 126.67 119.11 113.63 110.71 108.52 103.40	101.58 107.67 105.99 92.99 85.37 83.71 82.46 77.84	129.84 135.91 140.36 143.52 143.38 138.89 135.38 130.28	104.79 110.82 110.97 104.24 99.61 97.98 96.87 92.28	105.04 112.50 110.88 97.81 90.63 90.63 90.55 86.40	113.81 118.38 120.86 122.48 121.11 117.40 114.69 109.06		
2007: 		107.17 104.61 102.68 99.15	81.87 79.33 77.01 73.29	132.92 130.78 129.98 127.46	94.96 94.12 91.88 88.14	89.95 88.35 85.73 81.57	110.93 110.96 108.96 105.41		
2008: 		97.31 95.80 97.88	71.97 70.87 73.46	124.96 123.01 123.79	86.25 85.90 87.87	80.47 80.17 83.26	102.29 101.85 102.61		

Source: Board of Governors of the Federal Reserve System.

¹ U.S. dollars per foreign currency unit.
2 European Economic and Monetary Union (EMU) members consists of Austria, Belgium, Finland, France, Germany, Greece (beginning in 2001), Ireland, Italy, Luxembourg, Netherlands, Portugal, Slovenia (beginning in 2007), and Spain.
3 G-10 index discontinued after December 1998.
4 Weighted average of the foreign exchange value of the dollar against the currencies of a broad group of U.S. trading partners.
5 Subset of the broad index. Consists of currencies of the Euro area, Australia, Canada, Japan, Sweden, Switzerland, and the United Kingdom.
6 Subset of the broad index. Consists of other important U.S. trading partners (01TP) whose currencies are not heavily traded outside their home markets.
7 Adjusted for changes in consumer price indexes for the United States and other countries.

Table B-111.—International reserves, selected years, 1972-2008

[Millions of special drawing rights (SDRs); end of period]

						5007	2008		
Area and country	1972	1982	1992	2002	2006	2007	September	October	
All countries	146,658	361,166	753,847	1,890,032	3,414,407	4,110,936	4,493,540	4,599,773	
Industrial countries 1	113,362	214,025	426,440	766,645	983,906	997,557	1,012,144	1,046,329	
United States	12,112	29.918	52,995	59.160	45.615	46.820	48.192	48.608	
Canada	5,572	3,439	8,662	27,225	23,265	25,944	27,542	27,768	
Euro area (incl. ECB) 1				195,771	143,735	148,786	153,485	160,499	
Austria	2,505	5,544	9,703	7,480	4,985	7,079	6,657	6,443	
Belgium Cyprus	3,564 294	4,757 490	10,914 764	9,010 2,239	6,095 3,770	6,827 3.888	5,667 634	5,185 431	
Finland	664	1,420	3,862	6,885	4,372	4,525	4,506	4,587	
France	9,224	17,850	22,522	24,268	31,412	31,855	29,490	30,632	
Germany	21,908 950	43,909 916	69,489 3,606	41,516 6.083	31,561 502	31,896 526	32,431 324	33,635 258	
Greece Ireland	1.038	2.390	2,514	3,989	485	499	324 495	528	
Italy	5,605	15,108	22,438	23,798	19,817	20,721	24,909	26,542	
Luxembourg			66	114	148	93	424	209	
Malta Netherlands	4.407	10.723	927 17.492	1,625 7.993	1,979 7.902	2,396 7,198	317 8.171	229 7.872	
Portugal	2,130	1,179	14,474	8,889	1.802	1.226	1.335	1,423	
Slovenia			520	5,143	4,683	624	596	570	
Spain	4,567	7,450	33,640	25,992	7,663	7,582	7,781	7,890	
Australia	5,656	6,053	8,429	15,307	35,618	15,764	17,136	18,974	
Japan New Zealand	16,916 767	22,001 577	52,937 2,239	340,088 3.650	585,600 9,352	603,794 10.914	626,418 9,411	645,720	
Denmark	787	2.111	8,090	19.924	19.833	20.663	19.001		
Iceland	78	133	364	326	1,532	1,634	2,348		
Norway	1,220	6,272	8,725	23,579	37,784	38,500	28,428	29,758	
San Marino Sweden	1.453	3.397	16.667	135 12.807	318 16.649	410 17,281	21,995	22.373	
Switzerland	6,961	16,930	27.100	31,693	26,773	29.432	30,083	30,696	
United Kingdom	5,201	11,904	27,300	27,973	27,402	31,330	27,567	29,247	
Developing countries: Total 2	33,295	145,652	327,408	1,123,387	2,430,501	3,113,379	3,481,395	3,553,444	
By area:	2.002	7 707	10.000	E2 000	1 47 070	100 700	222 750	220 201	
Africa Asia ²	3,962 7,935	7,737 44,490	13,069 191.041	53,996 720,104	147,879 1,512,284	183,729 1,892,995	222,759 2.089.031	230,201 2,136,206	
China, P.R. (Mainland)	7,555	10.733	15.441	214.815	710,920	969.055	2,000,001	2,130,200	
India	1,087	4,213	4,584	50,174	113,895	169,356	178,778	164,684	
Korea	485	2,556	12,463	89,272	158,804	165,908	153,878	142,577 628,426	
Europe Russia	2,680	5,359	13,798	131,942 32.840	398,138 196,921	537,382 295.320	612,363 348.674	028,420	
Middle East	9,407	64,039	44,397	98,645	165,287	216,916	225,366	230,247	
Western Hemisphere	9,089	25,563	65,102	118,700	206,913	282,358	331,876	328,363	
Brazil	3,853 1.072	3,566 828	16,457 13,800	27,593 37,223	56,643 50,702	113,585 55,128	132,029 63,415	132,027 57.035	
Mexico	1,0/2	020	13,600	31,223	30,702	33,128	03,415	37,035	
Memoranda: Oil-exporting countries	9.927	67,108	46,392	110.079	236,971	313,284	341.689	349,433	
Non-oil developing countries 2	23.339	78,544	281.015	1,013,309	2.193.530	2.800.095	3.139.706	3,204,011	
z zz. sioping dodnardo	20,000	70,011	_01,010	.,=10,000	,.00,000	_,_00,000			

 $^{^{\}rm I}$ Includes data for European Central Bank (ECB) beginning 1999. Detail does not add to totals shown. $^{\rm I}$ Includes data for Taiwan Province of China.

Source: International Monetary Fund, International Financial Statistics.

Note.—International reserves consists of monetary authorities' holdings of gold (at SDR 35 per ounce), SDRs, reserve positions in the International Monetary

Fund, and foreign exchange.

U.S. dollars per SDR (end of period) are: 1.08570 in 1972; 1.10310 in 1982; 1.37500 in 1992; 1.35952 in 2002; 1.50440 in 2006; 1.58025 in 2007; 1.55722 in September 2008; and 1.48830 in October 2008.

Table B-112.—Growth rates in real gross domestic product, 1990-2009 [Percent change]

Area and country	1990–99 annual average	2000	2001	2002	2003	2004	2005	2006	2007	2008 ¹	2009 1
World	2.9	4.7	2.2	2.8	3.6	4.9	4.5	5.1	5.0	3.7	2.2
Advanced economies	2.7	4.0	1.2	1.6	1.9	3.2	2.6	3.0	2.6	1.4	3
Of which: United States Japan United Kingdom Canada	3.1 1.5 2.2 2.4	3.7 2.9 3.9 5.2	.8 .2 2.5 1.8	1.6 .3 2.1 2.9	2.5 1.4 2.8 1.9	3.6 2.7 2.8 3.1	2.9 1.9 2.1 2.9	2.8 2.4 2.8 3.1	2.0 2.1 3.0 2.7	1.4 .5 .8	7 2 -1.3
Euro area ² Germany France Italy Spain	2.3 1.9 1.4 2.8	3.8 3.2 3.9 3.7 5.1	1.9 1.2 1.9 1.8 3.6	.9 * 1.0 .5 2.7	.8 2 1.1 * 3.1	2.1 1.2 2.5 1.5 3.3	1.6 .8 1.9 .6 3.6	2.8 3.0 2.2 1.8 3.9	2.6 2.5 2.2 1.5 3.7	1.2 1.7 .8 2 1.4	5 8 5 6 7
Memorandum: Newly industrialized Asian economies 3	6.1	7.7	1.2	5.5	3.2	5.9	4.8	5.6	5.6	3.9	2.1
Emerging and developing economies	3.2	5.9	3.8	4.8	6.3	7.5	7.1	7.9	8.0	6.6	5.1
Regional groups: Africa Central and eastern Europe Commonwealth of Independent States 4 Russia Developing Asia China India Middle East Western Hemisphere Brazil Mexico	2.3 1.2 7.2 9.9 5.6 4.3 2.9 1.7 3.3	3.5 4.9 9.1 10.0 7.0 8.4 5.7 5.5 4.1 4.3 6.6	4.9 .4 6.1 5.1 5.8 8.3 3.9 2.6 .7 1.3 2	6.2 4.2 5.2 4.7 6.9 9.1 4.6 3.8 .5 2.7	5.4 4.8 7.8 7.3 8.2 10.0 6.9 7.1 2.2 1.1	6.5 6.9 8.2 7.2 8.6 10.1 7.9 5.8 6.1 5.7 4.0	5.8 6.1 6.8 6.4 9.0 10.4 9.1 5.7 4.7 3.2 3.1	6.1 6.7 8.2 7.4 9.8 11.6 9.8 5.7 5.5 3.8 4.9	6.1 5.7 8.6 8.1 10.0 11.9 9.3 6.0 5.6 5.4 3.2	5.2 4.2 6.9 6.8 8.3 9.7 7.8 6.1 4.5 5.2	4.7 2.5 3.2 3.5 7.1 8.5 6.3 5.3 2.5 3.0

^{*} Figure is zero or negligible.

Sources: Department of Commerce (Bureau of Economic Analysis) and International Monetary Fund.

¹ All figures are forecasts as published by the International Monetary Fund. ² Euro area consists of: Austria, Belgium, Cyprus, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, Malta, Netherlands, Portugal, Slovenia, and

Spain.

Spain.

Consists of Hong Kong SAR (Special Administrative Region of China), Korea, Singapore, and Taiwan Province of China.

Consists of Hong Kong SAR (Special Administrative Region of China), Korea, Singapore, and Taiwan Province of China.

Includes Mongolia, which is not a member of the Commonwealth of Independent States but is included for reasons of geography and similarities in economic structure.

Note.—For details on data shown in this table, see World Economic Outlook and World Economic Outlook Update published by the International Monetary Fund.