ECONOMIC REPORT

OF THE

PRESIDENT



TRANSMITTED TO THE CONGRESS MARCH 2013

TOGETHER WITH

THE ANNUAL REPORT

OF THE

COUNCIL OF ECONOMIC ADVISERS

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ECONOMIC REPORT OF THE PRESIDENT

ECONOMIC REPORT OF THE PRESIDENT

To the Congress of the United States:

This year's Economic Report of the President describes the progress we have made recovering from the worst economic crisis since the Great Depression. After years of grueling recession, our businesses have created over six million new jobs. As a nation, we now buy more American cars than we have in 5 years, and less foreign oil than we have in 20 years. Our housing market is healing, and consumers, patients, and homeowners enjoy stronger protections than ever before.

But there are still millions of Americans whose hard work and dedication have not yet been rewarded. Our economy is adding jobs, but too many of our fellow citizens still can't find full-time employment. Corporate profits have reached all-time highs, but for more than a decade, wages and incomes for working Americans have barely budged.

Our top priority must be to do everything we can to grow our economy and create good, middle-class jobs. That has to be our North Star. That has to drive every decision we make in Washington. Every day, we should ask ourselves three questions: How do we attract more jobs to our shores? How do we equip our people with the skills needed to do those jobs? And how do we make sure that hard work leads to a decent living?

We can begin by making America a magnet for new jobs and manufacturing. After shedding jobs for more than a decade, our manufacturers have added about half a million new jobs over the past 3 years. We need to accelerate that trend, by launching more manufacturing hubs that transform hard-hit regions of the country into global centers of high-tech jobs and manufacturing. We need to make our tax code more competitive, by ending tax breaks for companies that ship jobs overseas, and rewarding companies that create jobs here at home. And we need to invest in the research and technology that will allow us to harness more of our own energy and put more people back to work repairing our crumbling roads and bridges.

These steps will help entrepreneurs and small business owners expand and create new jobs. But we also need to provide every American with the skills and training they need to fill those jobs. We should start in the earliest years by offering high-quality preschool to every child in America, because we know kids in programs like these do better throughout their academic lives. We should redesign America's high schools to better prepare our students with skills that employers are looking for right now. And because taxpayers can't continue subsidizing the soaring cost of higher education, we should take affordability and value into account when determining which colleges receive certain types of Federal aid.

We also need to reward hard work and declare that no one who works full-time should have to live in poverty by raising the minimum wage so that it's a wage you can live on. And it's time to harness the talents and ingenuity of hardworking immigrants by finally passing commonsense immigration reform—continuing to strengthen border security, holding employers accountable, establishing a responsible path to earned citizenship, reuniting families, and attracting the highly-skilled entrepreneurs, engineers, and scientists that will help create jobs.

As we continue to grow our economy, we must also take further action to shrink our deficits. We don't have to choose between these two important priorities—we just have to make smart choices.

Over the last few years, both parties have worked together to reduce the deficit by more than \$2.5 trillion, which puts us more than halfway towards the goal of \$4 trillion in deficit reduction that economists say we need to stabilize our finances. Now we need to finish the job. But we shouldn't do it by making harsh and arbitrary cuts that jeopardize our military readiness, devastate priorities like education and energy, and cost jobs. That's not how you grow the economy. We shouldn't ask senior citizens and working families to pay down the rest of our deficit while the wealthiest are asked for nothing more. That doesn't grow our middle class.

Most Americans—Democrats, Republicans, and Independents understand that we can't just cut our way to prosperity. That's why I have put forward a balanced approach to deficit reduction that makes responsible reforms to bring down the cost of health care for an aging generation—the single biggest driver of our long-term debt—and saves hundreds of billions of dollars by getting rid of tax loopholes and deductions for the well-off and well-connected. And we should finally pursue bipartisan, comprehensive tax reform that encourages job creation and helps bring down the deficit.

The American people don't expect their government to solve every problem. They don't expect those of us in Washington to agree on every issue. But they do expect us to put the Nation's interests before party interests. They do expect us to forge reasonable compromise where we can. Our work will not be easy. But America only moves forward when we do so together—when we accept certain obligations to one another and to future generations. That's the American story. And that's how we will write the next great chapter—together.

THE WHITE HOUSE

MARCH 2013



THE ANNUAL REPORT $\qquad \qquad \text{of the} \\ \text{COUNCIL OF ECONOMIC ADVISERS}$

LETTER OF TRANSMITTAL

Council of Economic Advisers Washington, D.C., March 15, 2013

Mr. President:

The Council of Economic Advisers herewith submits its 2013 Annual Report in accordance of the Employment Act of 1946 as amended by the Full Employment and Balanced Growth Act of 1978.

Sincerely yours,

Alan B. Krueger

Chairman

Katharine G. Abraham

Member

James H. Stock

Member



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CHAPTER 1

RECOVERING FROM THE PAST AND PREPARING FOR THE FUTURE

Although economics has long been called "the dismal science," it is more appropriately viewed as a "hopeful science." The right mix of economic policies and leadership can help a country to recover from a deep recession and point to the investments and reforms that will build a stronger, more stable, and more prosperous economy that works for the middle class. Conversely, government dysfunction or misguided fiscal policy can cause self-inflicted wounds to the economy. This year's *Economic Report of the President* highlights the progress that has been made in recovering from the deepest recession since the Great Depression, together with the policies that the Obama Administration is advancing to address the fundamental imbalances and threats that have built up for decades and that have created severe stress on the middle class and those striving to get into the middle class.

As President Obama embarks on a second term, the U.S. economy unquestionably stands on firmer ground than when he first took office, but more work remains to be done. Our Nation's economic recovery continued to make progress in 2012: payroll employment rose by more than 2 million, the unemployment rate fell to its lowest level in four years, new cars sold at the fastest rate since 2007, and the housing sector showed clear signs of turning a corner for the first time in more than five years. In the near term, sustaining and building upon this progress must be a priority. At the same time, the Obama Administration also remains focused on addressing a number of underlying, structural problems, many of which developed over the course of decades. Some of these problems—like stagnant middle-class incomes and excessive risk-taking in the financial sector—played a role in bringing our economy to the brink of collapse in late 2008 and early 2009. Other challenges—like the dangers of climate change and rising health care

costs—could jeopardize our prosperity and security in the years ahead. Another theme that runs throughout this *Report* is that demographic changes associated with an aging population are having a profound effect on economic performance in a number of domains, from labor force participation to household consumption, as well as placing increasing pressure on the Federal budget. The Obama Administration is committed to addressing these issues, while also supporting the ongoing recovery, and in turn building an economy that is stronger, fairer and more resilient.

This *Report* reviews the progress of the ongoing economic recovery during 2012 and highlights the main goals of the President's economic agenda. These goals include strengthening the foundations of economic growth by investing in education, research, and infrastructure, and by fixing a broken immigration system through commonsense immigration reform; ensuring fairness for the middle class by reforming the tax code and health insurance system; and bolstering the economy's resilience to future challenges by addressing the dangers of climate change, moving toward energy independence, pursuing a balanced approach to deficit reduction, adding safeguards to the financial system, opening up new markets for U.S. exports, and equipping American workers to compete in the global economy.

TRACKING THE PROGRESS OF THE RECOVERY

When President Obama first entered office on January 20, 2009, the U.S. economy was in the midst of the worst downturn since the Great Depression. Real gross domestic product (GDP), the total amount of goods and services produced in the country adjusted for inflation, had just contracted at the sharpest rate in any quarter in more than 50 years, shrinking by 8.9 percent at an annual rate. This severe decline in economic output was accompanied by devastating job losses. In the year before President Obama's first inauguration, the U.S. economy lost 4.6 million private sector jobs, including 821,000 in January 2009. As bad as things were at the time, a dark cloud of uncertainty hovered over the economy, and the risk of even further deterioration was still very real. At the end of 2008, the financial system teetered on the brink of collapse and credit for businesses and households had seized up. Home prices were steadily declining, with no bottom in sight, and the fate of the American auto industry hung in the balance, as auto sales in early 2009 plunged to their lowest level in 27 years. A total of \$16 trillion in wealth was erased by the financial and housing crisis, causing families to pull back on spending plans, reduce personal debt and increase savings, in turn leading companies to cut back hiring, lay off valued employees, and halt investment plans. In short, the economy was caught in a downward spiral,

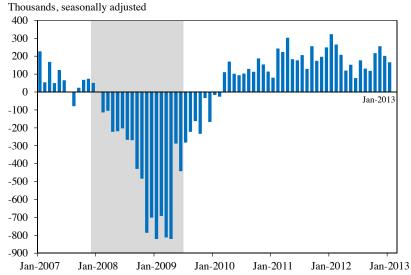
where consumers were pulling back because they had less income and feared iob loss, businesses pulled back and reduced employment even further, and around this vicious cycle went.

Against this backdrop, the Obama Administration acted quickly and decisively to raise aggregate demand, stem the job losses, restore the flow of credit, and put the economy in a position to begin growing once again. The American Recovery and Reinvestment Act of 2009 (the Recovery Act) was the boldest measure of countercyclical fiscal stimulus in U.S. history. The Recovery Act's mix of tax cuts for individuals and businesses, aid to State and local governments, and infrastructure investment was designed to provide the economy with an immediate boost. In addition to the Recovery Act, the Obama Administration worked to stabilize the financial sector through a series of measures including stress tests for banks and rigorous requirements for banks to raise private capital and repay the government for assistance from the Troubled Asset Relief Program. The Making Home Affordable program put in place a number of initiatives that have helped millions of Americans modify or refinance their mortgages and stay in their homes. The Administration also rescued and reformed the auto industry by guiding the successful restructuring of two of America's largest automakers and preserving the critical supply network.

Soon after these steps were taken, the economy reversed course. The contraction in economic output eased in 2009 and GDP began to grow again in the third quarter of that year. The economy has now expanded for 14 consecutive quarters. Similarly, the pace of job losses slowed over the course of 2009, and the monthly change in private employment turned positive in March 2010. In recent recoveries following the end of recessions, job growth has lagged economic growth, as employers either managed to implement ways to raise labor productivity to meet demand or delayed hiring out of caution that demand would not recover. During the current recovery, sustained job growth started 9 months after GDP growth resumed, which is sooner than in the 1991 and 2001 recoveries. As shown in Figure 1-1, private employers have now increased payrolls for 35 consecutive months. The 6.1 million jobs added over this time constitute the best 35-month period of job creation since 1998-2001, more than a decade ago. In addition, some \$13.5 trillion of the \$16 trillion in lost wealth has been restored due to the rebounding of the equity markets and firming of house prices, although the gains in wealth have not been uniformly shared.

In 2012, the recovery continued to make progress, and the economy and American people showed their resilience in the face of several headwinds. Total nonfarm payroll employment grew by 2.2 million during the year, or roughly 181,000 jobs per month, a bit above the forecast of 167,000

Figure 1-1
Monthly Change in Private Nonfarm Payrolls, 2007–2013



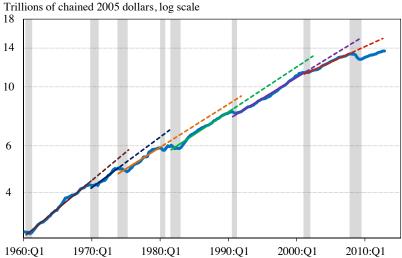
Note: Shading denotes recession.

Source: Bureau of Labor Statistics, Current Employment Statistics.

jobs per month that appeared in last year's *Economic Report of the President*. The unemployment rate fell 0.7 percentage point over the course of the year and reached its lowest level since January 2009. Almost the entire drop in the unemployment rate resulted from increased employment rather than labor force withdrawal. GDP expanded by 1.6 percent during the four quarters of 2012.

Although 2012 was a year of progress, it was not without challenges. A severe drought in the Midwest subtracted from GDP growth in the second and third quarters. Hurricane Sandy struck in late October, and based on the latest estimates of private property damage, it was the second costliest natural disaster in the United States during the last 40 years, behind only Hurricane Katrina. In addition, the euro area slipped back into recession, reflecting continued uncertainty in financial markets, further deleveraging by households and companies, and sizable fiscal austerity measures undertaken by many European governments. The slowdown among our trading partners in Europe and also in Asia reduced overseas demand for U.S. goods and services. And here in the United States, the threat of scheduled tax increases and automatic spending cuts known as the "fiscal cliff" lingered for most of the year. The economy's performance in 2012 is reviewed in greater detail in Chapter 2. Despite the economy's resilience during the past year, the unemployment rate remains elevated, and more work remains to be

Figure 1-2 Real Gross Domestic Product and Trends, 1960–2012



Note: Shading denotes recession. Trend lines represent the average growth rate between successive business-cycle peaks.

Source: Bureau of Economic Analysis, National Income and Product Accounts; National Bureau of Economic Research: CEA calculations.

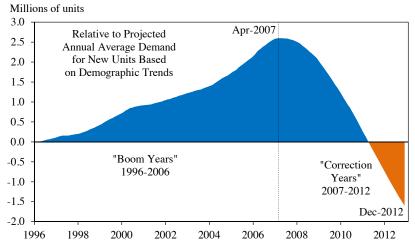
done to boost growth and job creation. In 2013, the Administration remains focused on the need to keep moving forward, while once again avoiding the threat of self-inflicted wounds.

Placing the Recovery in Historical Context

Chapter 2 also places the recovery in broader historical context. The pattern in recoveries over the last 50 years has been that more recent recoveries tend to be marked by slower growth than the recoveries that preceded them. This tendency is documented in Figure 1-2, which shows real GDP along with trend lines based on the average growth rate between successive business-cycle peaks. The current recovery, so far, is no exception to this pattern. The single largest cause of slower trend GDP growth in recent years is changing demographics, as the rate of overall population growth moderates, the baby boomers move into retirement, and the share of the population that is of prime working age begins to decline. Productivity growth also appears to have slowed down after the 1990s, although it is unclear if the slowdown will continue.

At the same time, however, several of the factors that have restrained growth in recent years are temporary constraints that are unique to the current situation and will likely subside in the years ahead. For instance,

Figure 1-3 Cumulative Over- and Under-Building of Residential and Manufactured Homes, 1996–2012



Note: The 1998 *Economic Report of the President* projected that 1.6 million new housing units per year would be needed from 1996–2006 to keep pace with demographics. Cumulative over- and under-building is measured relative to this projection.

Source: Census Bureau, New Residential Construction (completions) and Manufactured Homes Survey (placements); CEA (1998); CEA calculations.

a growing body of research has shown that recoveries following financial crises tend to be slower, because of delays in the reemergence of credit and reductions in consumer spending as households pay down debt or rebuild their savings. The Administration expects growth to quicken after households repair their balance sheets and consumers have more money to spend on goods and services. In addition, the housing sector is just now emerging from several depressed years, and much of the overbuilding that took place during the boom years has been offset by underbuilding since 2007. As Figure 1-3 shows, by the Council of Economic Advisers' (CEA) calculations, the U.S. housing market has likely worked off the nationwide cumulative total of excess building that took place in the housing boom years. Consequently, activity in the housing sector is likely to return to more normal levels in the years ahead, although some regions are further ahead in this process than others.

Furthermore, despite the Administration's efforts to support State and local governments through the Recovery Act and other measures, employment in this sector has undergone an unprecedented decline. The Obama Administration will continue to look for ways to boost the hiring of teachers, police officers and firefighters, and these efforts should be helped by a broadly improving economy that eases the strain on State and local

government finances. Thus, while some of the slower growth experienced in recent years is likely the unavoidable consequence of changing demography, there are still strong reasons to believe that the pace of economic growth will nonetheless pick up.

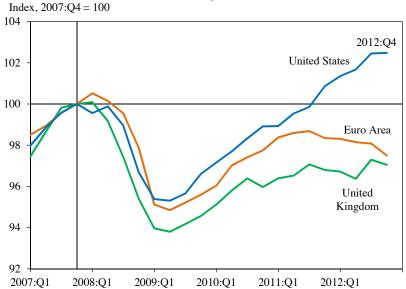
Making Progress Toward a Sustainable Fiscal Path

During 2012, the Obama Administration continued to pursue a balanced approach to fiscal policy that supports the recovery in the near term while looking to reduce the deficit and stabilize the debt over the medium and long term. The Recovery Act provided substantial support for growth in 2009 and 2010, and the economy benefited in 2011 and 2012 from extended unemployment insurance benefits and a 2 percentage point reduction in the employee contribution to the payroll tax, among other measures. At the same time, the Administration agreed to and Congress enacted \$1.4 trillion in discretionary spending cuts, spread over the next decade to ease the impact on an economy that is still healing. Together with the additional revenue from the American Taxpayer Relief Act (ATRA) and interest savings, the deficit has been reduced by more than \$2.5 trillion over the next 10 years. Thanks to these actions and steady economic growth, the Federal budget deficit has declined from 10.1 percent of GDP in 2009 to 7.0 percent of GDP in 2012, the largest three-year drop since 1949. The Congressional Budget Office (CBO 2013) projects that the deficit will fall to 5.3 percent of GDP in 2013. The Obama Administration has repeatedly proposed policies to bring the deficit down to below 3 percent of GDP and stabilize the national debt relative to the size of the economy in the 10-year budget window. A further discussion of the Federal budget outlook can be found in Chapter 3.

A comparison of recent economic performance in the United States with that of countries undertaking more abrupt fiscal consolidation underscores the importance of a balanced and responsible approach to return over time to a sustainable Federal budget. Figure 1-4 shows that while GDP in the United States has expanded for 14 consecutive quarters and surpassed its pre-recession peak, the recovery has faltered in places where austerity has been implemented more rapidly. President Obama has put it succinctly: "We cannot just cut our way to prosperity."

The American Taxpayer Relief Act, enacted January 2, 2013, represents an important component of the Obama Administration's approach to reducing the deficit and returning more fairness to the tax code. Before the enactment of ATRA, the Congressional Budget Office (CBO 2012a, 2012b) estimated that if the massive tax hikes and spending cuts originally scheduled to take place in 2013 had been allowed to occur, the full force of

Figure 1-4 Real GDP, 2007–2012



Source: U.S. Bureau of Economic Analysis, National Income and Product Accounts; U.K. Office for National Statistics; Statistical Office of the European Communities.

these austerity measures, equivalent in dollar terms to roughly 4 percent of GDP, would have caused the unemployment rate to rise by more than one percentage point and likely driven the economy into another recession. The Council of Economic Advisers (CEA 2012) projected that if tax rates rose for middle-class families earning less than \$250,000 a year as was planned under then-current law, U.S. consumers would have reined in their spending by nearly \$200 billion in 2013. To put this in perspective, this reduction of \$200 billion is approximately four times larger than the total amount that 226 million shoppers spent on the post-Thanksgiving "Black Friday" weekend in 2011, or roughly the same amount Americans spent on all the new cars and trucks sold in the United States that year. This would have been a deeply damaging self-inflicted wound to the economy.

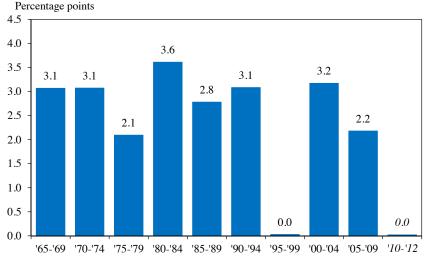
ATRA avoided this massive fiscal retrenchment, securing permanent income tax relief for 98 percent of Americans and 97 percent of small businesses, while also asking wealthier Americans to contribute a bit more to deficit reduction. ATRA reduces the deficit by more than \$700 billion over the next 10 years, largely by restoring the top marginal tax rate on upperincome households to the levels that prevailed in the 1990s and taxing these households' capital income at a 20 percent rate instead of 15 percent. At the same time, it locks in lower tax rates for the middle class permanently and

extends President Obama's expansions of key tax credits that help working families pay the bills and send their children to college. Other tax credits for business investment and R&D were also extended, as was unemployment insurance for 2 million Americans who are still searching for a job. By avoiding the bulk of the tax increases that would have jeopardized the recovery while also making substantial progress on reducing the deficit, ATRA was a positive step that is representative of the balanced approach that the Administration will continue to pursue.

As this Report goes to press, the U.S. economy is once again confronted with the risk of a self-inflicted wound, in the form of automatic, across-the-board spending cuts known as the sequester. When originally put into place with the Budget Control Act of 2011 (BCA), these cuts were never intended to be policy, but rather to force Congress to reach agreement on a broad, long-term deficit reduction package. In the absence of such an agreement, the cuts went into effect on March 1, 2013, and threaten to slow the economy and cause hundreds of thousands of job losses if not replaced. Private economists suggest the cuts could reduce GDP growth in 2013 by around half a percentage point. This potential reduction in output is sizable, considering that most analysts expect the economy to grow around 2 to 3 percent during the year. Moreover, in the weeks and months ahead, sequestration will begin to disrupt basic functions of government on which Americans depend, from education to emergency first-response to airport security. Already, the Navy has been forced to delay the deployment of an aircraft carrier to the Persian Gulf because of the threat of the cuts. The Administration will continue to call on Congress to replace the across-theboard, indiscriminate BCA sequester with a balanced alternative that closes unfair tax loopholes, reforms entitlements, and cuts unnecessary spending. This type of approach is the best way to support the recovery in the short run, while also making progress toward returning to a sustainable budget in the long run.

While the immediate budgetary concern in 2013 is the need to replace the sequester, it is also important to remain focused on the main driver of our long-term budget challenge: the cost of health care for an aging population. One positive development, with significant implications for the economy and Federal budget if it persists, is the recent slowdown in the growth of health care spending. The rate of growth in nationwide real per capita health care expenditures has been on a downward trend since 2002, with a particularly marked slowdown over the past three years. Since 2010, health care expenditures per capita grew at essentially the same rate as GDP per capita. As shown in Figure 1-5, this development is unusual, because growth in health spending has tended to outpace overall economic growth

Figure 1-5
Average Annual Difference Between Growth in Real GDP Per Capita and Growth in Real Health Expenditures Per Capita, 1965–2012



Note: Health expenditures per capita are deflated by the GDP price index. Source: Bureau of Economic Analysis, National Income and Product Accounts; Centers for Medicare and Medicaid Services, National Health Expenditure Accounts; CEA calculations.

for most of the last five decades. Although some of the narrowing of this gap can be attributed to the effects of the recession, Chapter 5 presents evidence that structural shifts in the health care sector are underway, spurred on in part by the 2010 Patient Protection and Affordable Care Act (Affordable Care Act). If the recent trends can be sustained, the resulting lower health care costs will have a tremendously positive impact on employers, middle-class families, and importantly, the Federal budget. Indeed, if the growth rate of Medicare spending per beneficiary over the last five years persists into the future, then after 75 years Medicare spending would account for only 3.8 percent of GDP, little changed from its share today, and substantially less than what the Medicare Trustees estimate. This should not be interpreted as a forecast but rather an indication of how sensitive long-term projections are to the assumed rate of growth of Medicare spending per beneficiary.

In sum, the U.S. economy has come a long way over the last four years, though more work remains. A staggering total of 8.8 million private sector jobs were destroyed as a result of the Great Recession, but 6.1 million jobs have been gained back. Similarly, \$16 trillion in household wealth was lost when the housing bubble burst and the economy went into recession, but now more than \$13 trillion—over 80 percent—has been regained. And of the estimated \$4 trillion in deficit reduction that many budget experts

agree is needed over the next 10 years to place the economy on a sustainable fiscal path, more than \$2.5 trillion has been achieved. House prices and residential construction are on the rise, the domestic manufacturing sector is showing signs of resurgence after a decade of shedding jobs, and the U.S. auto industry is back on track, selling new cars at an increasing rate. More work remains to be done, but our Nation has come too far now to turn back.

BUILDING A STRONGER, FAIRER, More Resilient Economy

While continuing to build on the progress in recovering from the recession and increasing job creation in the near term, the Obama Administration has also kept a careful focus on preparing the U.S. economy for a stronger, fairer, more resilient future. Many of the problems that caused the financial crisis and recession built up over decades, and our Nation will not have a durable economy that works for the middle class until these underlying, fundamental issues are addressed. For instance, middleclass incomes stagnated in the 2000s, and many economists have argued that households turned to credit to make up for this weak income growth. Lightly regulated—or unregulated—financial companies were all too willing to provide easy credit at nontransparent terms to meet this demand. The borrowing was unsustainable, as evidenced by the bursting of the housing bubble and the fact that outstanding household debt burdens have restrained consumer spending during the course of the recovery.

Part of the weak income growth for middle-class families can be traced to rising health care costs. By one estimate, if health care costs during the 2000s had risen at the same rate as general consumer price inflation—rather than exceeding it—the median family of four would have had an additional \$5,400 in 2009 to spend on other expenses (Auerbach and Kellermann 2011). Slowing the rise in health care costs is therefore a critical part of ensuring that middle-class families can see their take-home pay start to grow consistently again.

This mix of underlying problems—stagnant middle-class incomes, excessive reliance on borrowing, and rising health care costs—motivated two of the Administration's key initiatives during the first term: the Affordable Care Act and the Dodd-Frank Wall Street Reform and Consumer Protection Act. The Affordable Care Act expands insurance coverage and puts in place meaningful reforms that will reduce the cost of medical care, ensuring that families will not be forced into bankruptcy because of an unexpected illness. The Dodd-Frank law puts an end to taxpayer-financed bailouts for big banks, restricts many of the riskiest financial practices that developed in the run-up to the crisis, and creates a new consumer watchdog to increase transparency and fairness for American families.

Strengthening the Foundations of Growth

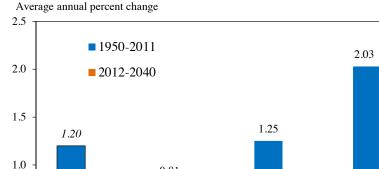
The economy's long-run growth potential fundamentally depends on the number of workers and the productivity of those workers, which, of course, depends on the productivity of American businesses and the creativity and risk-taking of American entrepreneurs. During the second half of the 20th century, the U.S. economy benefited substantially from favorable demographics. The baby boomers were in their prime working years, and women entered the labor force in record numbers. As the size of the labor force grew more quickly during these years, so too did the economy's potential output. However, as discussed previously, population growth is expected to slow in the years ahead, and the United States is expected to undergo a dramatic demographic transition. Figure 1-6 displays the latest projections from the Census Bureau, showing that overall population growth is estimated to decline from an average of 1.2 percent per year since 1950, to just 0.7 percent per year over the next three decades. Notably, as the baby boomers move into retirement, the only major age group that will grow faster over the next 30 years than it did during the last 60 is persons aged 65 and up. As a result, the share of the population that is of prime working age will fall steadily, and the number of retirees per worker will rise. Consequently, one of the major challenges facing the U.S. economy in the decades ahead is the slowdown in potential output growth that will result from a more slowly growing population and labor force.1

Although the recession caused a decline in the labor force participation rate, it is important to recall that even well before the recession, the labor force participation rate showed signs that it had reached its peak in the late 1990s. This fact largely reflected the aging of the population discussed above and the plateauing of female labor force participation following four decades during which American society was transformed by an increasing number of women in the workforce. So while some discouraged workers are likely to reenter the labor force in the near term as the economy continues to heal, the long-term trend for the labor force participation rate is still likely

¹ Although the changing demographics of the United States are likely to have a large effect on the economy and the Federal budget in the years ahead, the challenges are even greater in other advanced countries. According to United Nations projections (UN 2011), in 2040, the ratio of persons aged 65 and older to persons aged 20–64 will be even higher in Canada, France, Germany, Italy, Japan, Korea, and the United Kingdom than it will be in the United States. The Organisation for Economic Co-operation and Development (OECD 2012) has said that the aging of populations across developed countries will be the main contributor to slower potential output growth in OECD countries in the decades ahead.

Figure 1-6 Population Growth by Age Group, 1950–2040

2.29



0.81

0.69

0.5

0.0

Ages 20-64 **Total** Ages 0-19 Ages 65+ Source: Census Bureau, Annual Estimates of the Resident Population and 2012 National Population Projections; CEA calculations.

0.37

0.36

to be downward. This likelihood was acknowledged in the 2004 Economic Report of the President, which noted, "the long-term trend of rising participation appears to have come to an end. . . . The decline [in the labor force participation rate] may be greater, however, after 2008, which is the year that the first baby boomers (those born in 1946) reach the early-retirement age of 62."

In the face of the demographic challenges of an aging population and a more slowly growing workforce, the Administration believes it is imperative to boost the productivity of American workers by investing in education, innovation, research, and infrastructure. One way in particular to enhance the productivity of the workforce is to have a more educated workforce. As discussed in Chapter 4, the value of a college degree—as measured by the premium paid to college-educated workers—is significant. Shortly after taking office in 2009, President Obama set the goal that America would once again have the highest proportion of college-educated young people in the world by 2020. Chapter 4 details the steps the Obama Administration has taken to meet that goal, including expanding Pell Grants, establishing the American Opportunity Tax Credit, and reforming the student loan system to help make repayment more manageable for 1.6 million responsible borrowers. More recently, President Obama has called for a new Federal-State partnership that would provide all low- and moderate-income four-yearolds with high-quality preschool.

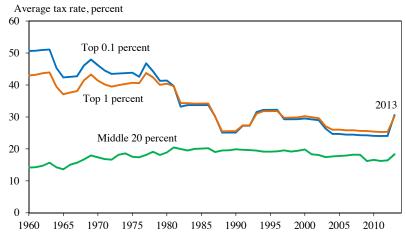
Commonsense immigration reform is another key aspect of the Administration's efforts to enhance the productivity of the American workforce, create more jobs for workers and more customers for businesses, and ease the looming demographic challenges. With a more slowly growing population and more retirees to support, the time is ripe for America to once again renew its long tradition of welcoming immigrants to our shores. Chapter 4 summarizes the economic case for reforming our immigration system to make the American economy more dynamic. Indeed, immigrants founded more than one in four new businesses in the United States in 2011 (Fairlie 2012). Moreover, commonsense immigration reform that gives undocumented immigrants a pathway to earned citizenship is needed to bring these workers out of the shadows and ensure that employers who hire only legally authorized workers and pay a decent wage are not put at a disadvantage. This type of commonsense reform strengthens the economy as a whole by maintaining competition on a level playing field. Immigrants own more than 2 million American businesses of all sizes and were critical to the creation of many of our largest companies like Yahoo! and Google. To make sure that America has a dynamic, competitive workforce and is the home of the next major innovation, it is essential to move toward an immigration system that is geared to help us grow our economy and strengthen the middle class.

Ensuring Fairness for the Middle Class

As discussed above, the American Taxpayer Relief Act was significant not just because it averted the massive tax increases and automatic spending cuts that were slated to occur at the beginning of 2013, but also because it reversed a decades-long trend of declining tax rates for the wealthiest American households. Figure 1-7 shows the average Federal (individual income plus payroll) tax rate for the top 0.1 percent of earners, as well as for the top 1 percent and the middle 20 percent. Since the mid-1990s, the average tax rate on income earned by the wealthiest Americans has trended down and was close to its historical low for most of the 2000s. Beginning in 2013, however, top earners will contribute a bit more to deficit reduction, reducing pressure to cut key investments in education, research, and infrastructure. Even with the tax changes beginning this year, the average tax rate on these high earners is still well within the lower end of its historical range.

The move toward greater fairness in the tax code is motivated by President Obama's belief that the best way to grow an economy is from the middle out, not from the top down. Over the last 30 years, the wealthiest

Figure 1-7 Average Tax Rates for Selected Income Groups Under a Fixed Income Distribution. 1960–2013



Note: Average Federal (individual income plus payroll) tax rates for a 2005 sample of taxpayers after adjusting for growth in the National Average Wage Index.

Source: Internal Revenue Service, Statistics of Income Public Use File; National Bureau of Economic Research, TAXSIM (preliminary for 2012 and 2013); CEA calculations.

Americans have seen their share of the nation's income increase substantially. America celebrates success, but Americans also recognize that when the middle class is squeezed and working families struggle to afford the goods and services that businesses are selling, the prosperity of the nation as a whole is jeopardized. ATRA rolls back some of the inequality that has built up since the 1980s and marks the beginning of the return to a tax code that reflects basic principles of fairness and the critical importance of the middle class to the nation's overall economic health. The Administration has proposed to raise additional revenue by closing loopholes for investment fund managers and cutting tax preferences that benefit only high-income households, as well as by making changes to the corporate tax code that would eliminate special breaks for oil and gas companies and corporate jet owners. Chapter 3 provides further detail on how the President's tax and budget policies are informed by the goal of ensuring fairness for the middle class.

In his 2013 State of the Union Address, President Obama emphasized that "our economy is stronger when we reward an honest day's work with honest wages. But today, a full-time worker making the minimum wage earns \$14,500 a year. Even with the tax relief we've put in place, a family with two kids that earns the minimum wage still lives below the poverty line." For these reasons, the President proposed raising the Federal minimum wage to \$9.00 an hour and indexing it to inflation thereafter. While economists have long debated the effects of the minimum wage on employment, the available evidence suggests that modest increases in the minimum wage raise the incomes of low-wage workers as a group and have little, if any, effect on employment. Doucouliagos and Stanley's (2009) careful meta-analysis of the literature concludes, "with 64 studies containing approximately 1,500 estimates, we have reason to believe that if there is some adverse employment effect from minimum-wage raises, it must be of a small and policyirrelevant magnitude." Similarly, another literature review by Schmitt (2013) considered the most recent research published since 2000 and found, "The weight of that evidence points to little or no employment response to modest increases in the minimum wage."

In addition to being paid a wage they can live on, working families should also have some protection from the tremendous hardship that could arise in the event of an unforeseen illness or medical condition. There is a fundamental economic rationale for providing this sort of protection. As President Obama said in his second inaugural address, "The commitments we make to each other through Medicare and Medicaid and Social Security, these things do not sap our initiative, they strengthen us. They do not make us a nation of takers; they free us to take the risks that make this country great." The insurance coverage expansion and cost reduction measures contained in the Affordable Care Act are the next major steps toward ensuring that American workers have a fair shot at realizing their full potential. Already, the number of uninsured young people is falling, due to the law's requirement that health insurance plans offer dependent children coverage until age 26. In addition, millions of Americans are now receiving rebates from their health insurers as a result of the law's requirement that insurers use no more than 20 percent of premiums for profits, administrative costs, and marketing. Chapter 5 details these and other important steps that are being taken to improve our Nation's health care system, as well as the major benefits that will result for middle-class workers and families.

The President's top priority remains to make America a magnet for jobs and manufacturing in order to strengthen the middle class and promote economic growth. As discussed in Chapter 7, manufacturing has historically provided Americans with a path to the middle class, especially for less educated Americans. But as foreign competition from companies in China and elsewhere began to emerge, manufacturing work increasingly moved overseas, and millions of American jobs were lost. Manufacturing employment in the United States had been fairly stable at around 18 million jobs from 1965 to 2000, but from 2000 to 2007—before the Great Recession manufacturing employment dropped precipitously, falling by 3.5 million jobs. Another 2.3 million manufacturing jobs were lost in the recession and

its aftermath. Chapter 7 details the Administration's efforts to reverse this trend and bring manufacturing jobs back to the United States. These efforts include supporting new skills training programs for workers, investing in advanced manufacturing R&D to replenish the technology pipeline and strengthen engineering capabilities, providing tax credits for manufacturers that hire more employees in the United States, and encouraging fair trade by expanding America's global market access and leveling the playing field across nations. Many of these initiatives began during President Obama's first term and contributed to the nearly 500,000 manufacturing jobs that have been added over the last 3 years, the best period of job creation in manufacturing since the 1990s. This turnaround in manufacturing would have been inconceivable even just a few years ago, and sustaining this momentum is a key part of the Obama Administration's second-term agenda for the middle class.

Making the Economy More Resilient to Future Challenges

While the Administration works to repair the damage of the Great Recession and build an economy that works for middle-class families, it is critical that we also take steps to ensure that the economy is resilient in the face of gathering challenges. For example, although much progress has been made in moving America toward a clean energy future that does not depend on foreign oil, more work remains to be done. Chapter 6 details the scientific consensus around climate change and the dangerous consequences that could result if greenhouse gas emissions are not reduced. In addition, Chapter 6 discusses the preparatory steps being taken to avoid these harmful outcomes and ensure the economy's resiliency in the face of these risks. The Administration has increased fuel efficiency standards, launched an array of programs to encourage more efficient household energy use, and provided tax credits to companies developing renewable energy sources—all actions that will reduce greenhouse gas emissions. In 2012, net imports of petroleum products were at a 20-year low, domestic natural gas production was at an all-time high, and the use of renewable sources like wind and solar had more than doubled from 2008. These are positive steps in the right direction, and the Administration aims to continue this progress in the second term.

Chapter 8 presents the challenges and opportunities in the U.S. agricultural sector, as well as the lessons learned from the rapid productivity advances in agriculture that can be built on to raise job creation and output in other areas of the economy. In 2012, America's farmers faced the most severe drought since the 1950s but showed their resilience as net farm income for the year as a whole is estimated to have fallen just 4 percent from the record high level reached in 2011. In the years ahead, America's farmers

have an especially important role to play in helping to feed a growing global population. From 2010 to 2050, the world's population is projected to rise by more than 2 billion people, and most of this increase is expected to occur in developing countries. A growing, increasingly urbanized world population will present unique challenges to the agricultural sector, as urban areas rely heavily on a stable and efficient worldwide food chain to provide nutrient-dense and diverse foods. At the same time, trade in agricultural commodities will continue to be a global endeavor in which prices respond to supply and demand conditions around the world. Chapter 8 outlines the steps the Administration is taking to build on our Nation's trade surplus in agricultural products and help farmers manage the risk of volatile prices.

Conclusion

As President Obama begins his second term, the U.S. economy is undoubtedly in a far stronger position and headed in a much better direction than it was when he first took office in January 2009, but more work remains to be done. 2012 was a year of progress, with private employers adding more than 2 million jobs and the unemployment rate falling to its lowest level in four years. While the worst of the recession is now behind us, many of its aftereffects still linger, as do a number of underlying, structural issues that built up for decades and could threaten our economy's prosperity in the years ahead. As such, the Administration's efforts in the second term will proceed along two critically important and related tracks: recovering from the past and preparing for the future.

The goals of the President's economic agenda described above strengthening the foundations of growth, ensuring fairness for the middle class, and making the economy more resilient to future challenges—are all mutually reinforcing. America built the most prosperous economy on Earth because we recognized that investments in our individual success were inextricably linked to our success as a nation. Today, investments in research and innovation can lead to new technologies that allow for more effective, less expensive health care or cleaner sources of energy. To facilitate these new technological innovations, it is critical to have a vibrant manufacturing sector with advanced engineering capabilities. A growing manufacturing sector can also provide a path to the middle class for many American workers. And when middle-class families see their incomes rise, their increased spending on goods and services supports broad-based, sustainable economic growth—in other words, an economy that is built to last. This is just one set of examples of the synergies across the various aspects of the President's economic agenda—many more can be found in the chapters of this Report. These synergies underlie the economic recovery that began during President Obama's first term and will drive the Administration's work during his second term to continue moving our economy forward.



CHAPTER 2

THE YEAR IN REVIEW AND THE YEARS AHEAD

Pollowing the recession that began in December 2007, the most severe since the Great Depression, the economy is healing and moving in the right direction. By the fourth quarter of 2012, real output was 2.5 percent above the level at its previous business-cycle peak in the fourth quarter of 2007. The economy has added 6.1 million private sector jobs, and 5.5 million jobs overall, since the level of employment hit bottom in February 2010. During the four quarters of 2012, real gross domestic product (GDP) increased at a moderate 1.6 percent rate. Over the 12 months of the year, 2.2 million jobs were added, and the unemployment rate, while still elevated, dropped 0.7 percentage point to 7.8 percent.

The near-term outlook is for further expansion. Consumer spending is rising moderately, as the gradual healing in the labor market lifts income and as households continue to pay off debt and rebuild wealth. A wide array of indicators suggests the housing sector is finally recovering, and the long contraction in the State and local sector appears to be coming to an end. Financial conditions continue to become more supportive; for example, senior loan officers report that banks have become more willing to lend to both small and large businesses.

Although many of the headwinds that have buffeted growth are receding, some remain. Long-term fiscal sustainability requires a path of declining government spending and rising revenue that will exert fiscal drag on the economy. In addition, ongoing congressional deliberations over the appropriate means through which long-term fiscal sustainability will be achieved foster uncertainty that could weigh on consumer and business confidence. Moreover, tepid growth across the global economy—particularly in Europe and Asia—may reduce growth in U.S. exports and slow the rebound in domestic manufacturing activity.

This chapter provides an overview of the economic recovery so far, beginning with a review of notable macroeconomic events of 2012. The

chapter then turns to a broader discussion of the recovery in historical context. Although the recovery has been slow by historical standards, much perhaps two-thirds, according to a recent study by the Congressional Budget Office (CBO 2012d)—of the slower growth relative to previous postwar recoveries reflects the long-term demographic shifts discussed in Chapter 4 as well as other long-term structural factors. The remaining one-third reflects unique cyclical factors largely related to the financial crisis, including limitations on the ability of households and small businesses to borrow, which led to associated reductions in consumption and investment; the slow recovery of the housing sector as it works off excess inventories of foreclosed and distressed properties; the contraction of State and local government budgets arising, in part, from the drop in assessed house values and property taxes; softening export demand resulting from slower growth in Asia and Europe; and limitations on conventional monetary policy due to the Federal Reserve's lowering of its main policy rate to zero percent (the "zero lower bound").

As severe as the recent recession was, the drop in real GDP in the United States as a result of the financial crisis of 2007-08 was smaller than both the average decline in other global financial crises over the past 40 years and the contraction in the aftermath of the 1929 stock market crash here in the United States. Furthermore, the recovery since June 2009 has been stronger than in most other developed economies. Active government policies helped the economy avoid an even deeper recession and have played an important role in supporting the recovery. These active policies include the American Recovery and Reinvestment Act (the Recovery Act), the temporary payroll tax cut, the extension of unemployment insurance benefits, and both standard and nonstandard monetary policy conducted by the Federal Reserve.

AN ECONOMY IN RECOVERY: KEY EVENTS OF 2012

The past year was another challenging one for an economy in the midst of a recovery from a global financial crisis. Concern over European sovereign debt and the ongoing fiscal consolidation in Europe contributed to a contraction in the European economy during the year, and growth among several of our Asian trading partners also slowed. Natural disasters such as the severe drought in the Midwest and Hurricane Sandy in the Northeast impaired economic output over much of the year. Although the economic sanctions against Iran do not appear responsible (Box 2-1), retail gasoline prices fluctuated widely over the course of 2012, which may have intermittently dampened economic activity. The possibility of tax increases

and mandatory spending cuts that had been scheduled to take place at the beginning of 2013 loomed large as the year closed and may have hampered consumer and business sentiment.

Real GDP rose 1.6 percent over the four quarters of 2012, a bit below the pace in 2011 (quarterly figures are shown in Figure 2-1). Growth was uneven (but no more than usual) throughout the course of the year, reflecting, in part, the impact of the drought and Hurricane Sandy, as well as outsized swings in Federal defense outlays and inventory investment. Outside of these factors, business fixed investment and exports slowed notably from 2011. In contrast, personal consumption spending continued to post moderate gains, rising 1.9 percent over the four quarters of 2012, matching the rate of growth recorded in 2011. The fiscal contraction among State and local governments appears to be easing somewhat, and the residential construction sector, which turned a corner in 2011, strengthened further in 2012, growing for seven consecutive quarters for the first time since 2004–05.

The recovery in payroll employment, like that in real output, was uneven. Payrolls expanded briskly at the beginning of the year, but job growth slowed in the spring and early summer before picking up again in the late summer and fall. The fact that the worst months of the crisis occurred during the winter raises the question of whether normal seasonal adjustment procedures contributed volatility to higher frequency indicators, but that

Percent change (annual rate) 4.1 40 4 3.1 2 1.3 0 2012:Q4 -0.3 -2 -1.8 -4 -3.7 -6 -5.3 -8 -10 2007:Q1 2008:Q1 2009:Q1 2010:Q1 2011:Q1 2012:Q1

Figure 2-1 Real GDP Growth, 2007-2012

Note: Shading denotes recession.

Source: Bureau of Economic Analysis, National Income and Product Accounts.

Box 2-1: Effectiveness of Iran Sanctions

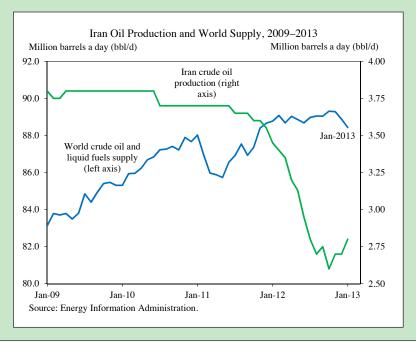
In cooperation with an international coalition, the United States has established strict economic sanctions against the Islamic Republic of Iran, sanctions described by this Administration and others as "comprehensive and biting." The goal of these sanctions is to persuade the Iranian government to abandon its nuclear weapons program. Since President Obama took office, he has steadily increased unilateral and multilateral pressure on Iran because of its inability to meet its international obligations. As a part of that effort, Congress passed and the President signed the Comprehensive Iran Sanctions, Accountability, and Divestment Act of 2010, the National Defense Authorization Act for Fiscal Year 2012, and the Iran Threat Reduction and Syria Human Rights Act of 2012. These laws increased our ability to target the Iranian Central Bank, private banks supporting the Iranian regime, and—importantly the Iranian petroleum sector. In addition to these efforts with Congress, the President has signed Executive Orders imposing additional sanctions against the Iranian energy and petrochemical sectors. These actions received support from members of the international community, including the European Union and our allies in the Middle East. The United States has also worked to establish multilateral sanctions. For example, the United States collaborated with other members of the United Nations Security Council to adopt Resolution 1929, which called on Iran to end its nuclear program and imposed the broadest multilateral sanctions ever faced by the regime.

For Iran, the consequences of the sanctions have been severe. Iranian President Mahmoud Ahmadinejad called these sanctions "the most severe and strictest sanctions ever imposed on a country." The value of Iran's currency, the rial, has dropped substantially in 2012. Governments and private firms from around the world have ended business with, and divested from, Iran, as these actions now carry a heavy price. And perhaps most importantly, oil production in Iran has nosedived (see the figure below). According to the U.S. Energy Information Administration (EIA), Iran's crude oil production, which averaged 3.7 million barrels a day in 2011, dropped to approximately 2.7 million barrels a day by the end of 2012, a decline of about 30 percent. That amounts to billions of dollars in lost revenues for the regime.

The effect of these sanctions on the U.S. economy has been minimal. The sanctions do not appear to have increased the price of oil. As shown in the figure above, while Iranian oil production has dropped, world supply has not. The effects of the sanctions are reviewed regularly; for example, Federal agencies, such as the EIA, watch closely for developments in international energy markets. The President and Congress have structured the implementation of the sanctions to minimize any impact on global energy markets and, by extension, the U.S. economy, and the authorities granted to the executive branch allow us to continue to monitor those effects going forward.

Sanctions do not always prevent or replace war. Indeed, sanctions have sometimes led to war, as shown by Lektzian and Sprecher (2007). Moreover, the fact that Iran's currency has depreciated, its oil production and exports have plunged, and its economy has slowed does not, by itself, fully answer the question: "Are the sanctions working?" The sanctions will have succeeded if and when Iran ends its nuclear program.

Evidence on the effectiveness of sanctions in other settings is mixed. In a widely-cited study, Hufbauer, Shott, and Elliott (1990) find that the rate of success of economic sanctions is low—about 35 percent. Some argue that even 35 percent is an overestimate (Pape 1997). However, Morgan, Bapat, and Krustev (2009) find that adjusting the sample of sanctions to include threats of sanctions in addition to sanctions actually imposed, and limiting the focus to more recent events, increases the success rate from 35 percent to 45 percent. The success rate is even higher when costs borne by the target are severe or when sanctions are multilateral, both of which are the case with Iran. Moreover, Marinov (2005) finds economic sanctions do tend to destabilize the governments they target, that is, they increase the probability of leadership or regime change.



does not seem to be the case, as discussed in Data Watch 2-1. The unemployment rate, which fell 0.8 percentage point during 2011, fell another 0.7 percentage point during 2012, reaching 7.8 percent by the end of the year. The drop in the jobless rate during 2012 was concentrated in the first and third quarters of the year, with most—roughly 90 percent—of this decline accounted for by employment growth rather than withdrawal from the labor force.

European Crisis and the Slowdown in Global Growth

In 2012, the consequences of the European debt crisis continued to affect the world economy. In many advanced economies, fiscal consolidation, vulnerable financial systems, and market uncertainty have suppressed demand, and world economic growth has suffered as a consequence. While these adverse shocks are, for the most part, external to the United States, the globalized nature of world trade and financial markets means that the United States cannot escape their impact. Likewise, the turmoil in European financial markets led U.S. branches of foreign banks to tighten credit standards for commercial and industrial loans.

Hurricane Sandy and the Drought

Natural disasters cause human suffering and physical destruction. From the perspective of economic activity, their widespread disruptions also lead to lost work and output. Historical experience suggests, however, that over time much of this lost production is recouped. After storms, some of the missed work is made up and sizable additional expenditures are required for cleanup, repairs, and rebuilding. Thus, while hurricanes can have a major impact on regional economies, national trends in economic activity typically have not been affected by calamities such as hurricanes and droughts.

Hurricane Sandy is now estimated to have resulted in \$35.8 billion in damages to private fixed assets according to the Commerce Department, which would rank it as the second costliest natural disaster in recent U.S. history after adjusting for inflation, though still well behind Hurricane Katrina in 2005. In addition, power outages that affected 8.2 million customers on October 30, and left 930,000 without power a week later, rendered many workers unable to perform their jobs. The storm also disrupted transportation centers such as seaports, airports, and rail lines, as well as refineries and factories, many of which were restored only gradually.

All told, analysts currently estimate that Hurricane Sandy lowered real GDP growth in the fourth quarter by around 0.2 to 0.5 percentage point at an annual rate. Although indicators such as industrial production, vehicle sales, and jobless claims were adversely affected in October or early

November, they subsequently improved and rebuilding activity is likely to provide some support to economic growth going forward. The region hit by Sandy has ample spare capacity available to be mobilized for storm recovery efforts: in October 2012, just before the storm hit, the unemployment rate was 0.6 percentage point higher in the five states most directly affected by Hurricane Sandy than in the rest of the country. Construction employment, in particular, had declined in the first 10 months of 2012 across these five states while seeming to have stabilized or expanded elsewhere. Supplemental Federal relief for reconstruction after Sandy, which was enacted in January 2013, should provide needed repairs and reconstruction and thereby support short-term economic growth in the region.

As a result of the severe drought in the Midwest that damaged corn and soybean harvests, farm inventory investment subtracted an average of one-fourth of a percentage point from real GDP growth in the second and third quarters of 2012 (for additional discussion, see Chapter 8). In 2013, the initial estimates of quarterly farm output will be based on the Agriculture Department's initial projection of annual farm output, which in turn will be based on an assumption of normal growing conditions. As a result, farm production, as measured in the National Income and Product Accounts, will probably jump up beginning in first quarter of 2013, bringing with it an associated bump up in estimated GDP growth.

Monetary Policy

In 2012, the Federal Open Market Committee (FOMC) continued to provide substantial policy accommodation and announced several new steps, including for the first time linking its forward guidance for the main policy interest rate to a specific level of the unemployment rate.

Between September 2011 and June 2012, the FOMC conducted the first installment of its Maturity Extension Program, widely known as Operation Twist. As first announced, the Fed said it would purchase "by the end of June 2012, \$400 billion of Treasury securities with remaining maturities of 6 years to 30 years and...sell an equal amount of Treasury securities with remaining maturities of 3 years or less." According to the FOMC, the objective of this program was to "put downward pressure on longerterm interest rates" and thus provide an additional stimulus for the overall economy. In June 2012, the Committee decided to continue this program at a pace of approximately \$45 billion a month, which corresponded to an additional "face value of about \$267 billion by the end of December 2012," according to the minutes of the June meeting. Then, in September 2012, the FOMC announced it would further "increase policy accommodation by

Data Watch 2-1: Seasonal Adjustment in Light of the Great Recession

For the purposes of economic analysis, researchers are primarily interested in the longer-term direction of a time series and any deviations from that trend. Seasonal fluctuations in the data arising from summer holidays, seasonal shopping, and so forth can obscure these trends and deviations. As a result, most public sources of economic data endeavor to remove normal seasonal patterns from their high-frequency indicators. Unfortunately, this process of seasonally adjusting economic data is fraught with complexity. Seasonal factors cannot be directly observed and must be estimated using various statistical techniques. Moreover, the seasonal patterns for a particular series may not be constant over time. Thus, the accurate estimation of seasonal patterns is a challenge of great importance to the economics community and policymakers.

A number of analysts have argued that the severity of the Great Recession may have distorted several high-frequency economic indicators. The Great Recession, which lasted from December 2007 through June 2009, was particularly acute during the fall of 2008 and the winter of 2009. Real GDP fell more than 7 percent at an annual rate over the fourth quarter of 2008 and the first quarter of 2009, and total nonfarm payroll employment plunged by more than 4 million jobs from September 2008 to March 2009. Given the severity of the downturn during this period, some commentators have hypothesized that the outsized decline in economic activity may have been inadvertently incorporated into the seasonal factors for several key economic indicators. And as a consequence of this statistical bias in the seasonal adjustment process, these observers have raised concerns that the pace of the current recovery has exhibited an abnormal seasonal pattern in which economic activity has appeared not only substantially stronger than it really is during the fall and winter but also correspondingly weaker during the spring and summer.

A few providers of economic data have acknowledged this concern and noted that unusually sharp swings in certain indicators may not be properly accounted for by standard seasonal adjustment techniques. The Federal Reserve reported that the application of default seasonal adjustment procedures to its monthly industrial production data would have artificially raised output in many industries during the first halves of the years 2008 through 2010, if these distortions not been identified in advance and corrected (Federal Reserve Board of Governors 2011). And the Institute for Supply Management concluded that its typical seasonal adjustment procedures did not adequately identify outlier observations during the recent recession. As a result, it introduced more precise criteria for the detection of outliers as part of the seasonal adjustment of its purchasing manager survey data (Institute for Supply Management

2012). Nevertheless, it is important to emphasize that these particular issues pertain to the use of default seasonal adjustment techniques. In general, statistical agencies approach the seasonal adjustment of economic data idiosyncratically based upon the unique characteristics of each individual time series.

Indeed, detailed studies of a wide range of principal economic indicators suggest that the seasonal adjustment techniques that had already been employed by the Bureau of Labor Statistics (BLS) adequately accounted for the effects of the Great Recession. BLS analysts calculated alternative seasonal factors for total nonfarm payroll employment after manually excluding the sharp declines that were recorded during the downturn (Kropf and Hudson 2012). This counterfactual experiment failed to generate meaningful revisions to the actual published estimates of total nonfarm payroll employment since January 2010. In fact, the BLS analysts concluded that the implementation of these counterfactual seasonal factors would have revised total nonfarm payroll employment upward by a mere 24,000 jobs over the second and third quarters of 2011 (in other words, an average of 4,000 jobs a month) and downward by just 19,000 jobs over the fourth quarter of 2011 and the first quarter of 2012 (or an average of roughly 3,000 jobs a month). BLS analysts also thoroughly investigated the seasonal adjustment of the Current Population Survey data over the course of the recovery (Evans and Tiller 2012). This inquiry showed that alternative assumptions regarding seasonal adjustment did not meaningfully affect estimates of the unemployment rate since 2007.

Macroeconomic Advisers (2012) tested the stability of seasonally adjusted nominal GDP by comparing the official estimates to a proxy series that had been constructed using the source data for the national accounts. Contrary to the hypothesis that inaccuracies in the seasonal adjustment process have been artificially suppressing economic activity during the spring and summer months of the current recovery, this analysis found that seasonal factors had not been subtracting as much from GDP growth during the second and third quarters of each calendar year as they had before the downturn. All told, these analyses provide little evidence to support serious concerns over the soundness of seasonally adjusted high-frequency economic variables.

purchasing additional agency mortgage-backed securities at a pace of \$40 billion per month."

The September and June actions together, the Committee said, were intended to increase the Federal Reserve's "holdings of longer-term securities by about \$85 billion each month through the end of the year." In December

2012, the Committee announced that it would replace the expiring Maturity Extension Program with a program of purchases of longer-dated Treasuries at a pace of \$45 billion a month, thereby further expanding its balance sheet, rather than funding these purchases with the sale of shorter-dated securities, as was the practice under Operation Twist. These purchases, combined with its September 2012 decision to purchase \$40 billion a month in agency mortgage-backed securities, kept total purchases of longer-term securities at \$85 billion a month.

The nature of the Fed's forward guidance also evolved over the year. The FOMC announced in September 2012 that it would explicitly condition future policy decisions on progress in the labor market and issued additional forward guidance that the Fed's main policy interest rate would likely remain low through mid-2015, an extension from late 2014 as previously announced. In December 2012, the Committee went a step further and announced that it would maintain the "exceptionally low range for the federal funds rate...at least as long as the unemployment rate remains above 6½ percent, inflation between one and two years ahead is projected to be no more than a half percentage point above the Committee's 2 percent longer-run goal, and longer-term inflation expectations continue to be well anchored." The explicit link to numerical values of economic variables replaced the previous reference to a "mid-2015" reference date that had been introduced in September.

In August 2012, during a speech at the annual Federal Reserve Bank of Kansas City Economic Symposium, Federal Reserve Chairman Ben Bernanke assessed the effectiveness of the balance sheet and forward guidance policies that had been implemented in response to the recession. Bernanke (2012a) surveyed research finding that large-scale asset purchases (LSAPs) had significantly lowered yields on long-term Treasury notes, corporate bonds, and mortgage-backed securities; reduced retail mortgage rates; and also boosted stock prices (see for example, Krishnamurthy and Vissing-Jorgenson 2011). One study by Chung and others (2012) used the Federal Reserve Board's FRB/US model of the economy and found that the early phase of the Fed's LSAPs may have raised the level of real GDP by almost 3 percent and increased private payroll employment by more than 2 million jobs, relative to what otherwise would have occurred. Although Chairman Bernanke cautioned against putting too much weight on the estimates of any particular study, he concluded that "a balanced reading of the evidence supports the conclusion that central bank securities purchases have provided meaningful support to the economic recovery while mitigating deflationary risks."

Fiscal Policy

After months of negotiations, in February 2012 Congress extended both the 2 percentage point cut in the payroll tax and the Emergency Unemployment Compensation program through the end of the year. These temporary measures, which were among the Administration's key economic priorities for 2012, had originally been put in place with the passage of the 2010 Tax Relief, Unemployment Insurance Reauthorization, and Job Creation Act. The extension through December 2012 provided critical support to American families trying to weather the various headwinds that threatened the recovery over the course of the year.

The economy faced great uncertainty as the end of calendar year 2012 approached. As a result of the confluence of various policies that had been passed in previous years, the economy faced a "fiscal cliff" of across-theboard tax hikes as the Bush-era tax cuts expired, a sharp reduction of the Alternative Minimum Tax (AMT) exemption amounts to the levels that had been in effect in 2001, the imposition of substantial spending cuts through budget sequestration, and the expiration of a number of other tax provisions. In addition, temporary measures to support the economy, including the extension of unemployment insurance benefits and the payroll tax reduction, were also set to expire. As the end-of-year deadline approached, uncertainty in financial markets ticked up, although not as much as during the August 2011 debt ceiling debate. This uncertainty was partly resolved by the passage of the American Taxpayer Relief Act by the House on January 1, 2013, averting what could have been sharply contractionary policies.¹

Looking ahead, the American Taxpayer Relief Act—which permanently extends the middle-class tax cuts, indexes the AMT to inflation, and raises rates on the highest-income taxpayers in order to reduce the deficit relative to the previous policy baseline (see Chapter 3)—has removed much of the uncertainty about taxes facing the economy.

¹ Several studies suggested that going over the full fiscal cliff would likely result in a recession and substantial job losses; see for example CBO (2012a). These studies, including the CBO report, focused on cash flow effects of the fiscal cliff (revenues and spending). A growing body of literature suggests that the uncertainty created by going over the cliff would have further hurt economic activity and employment, although those channels are more difficult to quantify; see for example Bloom (2009).

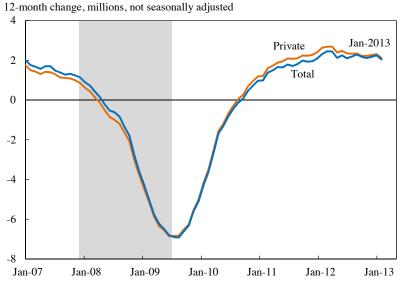
DEVELOPMENTS IN 2012 AND THE NEAR-TERM OUTLOOK

Labor Market Trends

The labor market continued to heal in 2012. The private sector added 2.2 million jobs, although State and local government employment fell by 32,000, after falling by 286,000 in 2011. Private sector payroll employment has grown in each month since February 2010. Focusing on 12-month changes to abstract from monthly and seasonal volatility, the 12-month change in total nonfarm payroll employment excluding Census hiring has been smooth, hovering around 2 million jobs since the fall of 2011, as shown in Figure 2-2.

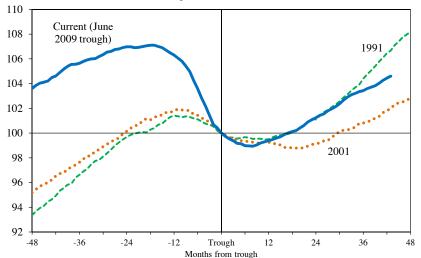
Private-sector job growth during the current recovery has been roughly comparable with that in the 1991 recovery and noticeably faster than in the 2001 recovery, as illustrated in Figure 2-3. As is typical, the recovery in hiring since 2009 lagged the recovery in output. Private nonfarm payrolls in the current recovery began growing 9 months after the business-cycle trough. By comparison, payrolls first began expanding consistently 12 months into the 1990–91 recovery, and sustained private-sector job growth in the 2001 recovery did not begin until 21 months after the official end date of the recession. Thus, although the 2007–09 recession lasted longer and led

Figure 2-2 Nonfarm Payroll Employment, 2007–2013



Note: Shading denotes recession. Total excludes temporary decennial Census workers. Source: Bureau of Labor Statistics, Current Employment Statistics.

Figure 2-3
Private Nonfarm Employment During Recent Recoveries
Indexed to 100 at NBER-defined trough



Source: Bureau of Labor Statistics, Current Employment Statistics; National Bureau of Economic Research; CEA calculations.

to deeper job losses than did the recessions of 1990–91 and 2001, recovery in the labor market began somewhat sooner.

Despite continuing improvements in hiring, the unemployment rate remains elevated, reflecting both the deep losses during the recession and the steady but moderate pace of hiring during the recovery. The unemployment rate has receded from its peak of 10.0 percent in October 2009 to 7.8 percent in December 2012, with 0.7 percentage point of that decline during the 12 months of 2012 (Figure 2-4). Layoffs—as measured by the four-week average of initial claims for unemployment insurance—fell in 2012 (Figure 2-5), and other indicators of labor market adjustment such as the workweek continued to show improvement. By December 2012, the workweek had increased to 34.4 hours, recovering most of the 0.8 hour lost during the recession.²

Almost all of the decline in the unemployment rate in 2012 reflects growth in employment rather than labor force withdrawal.³ Nevertheless, the recession coincided with a sharp drop in the labor force participation

² A lengthening of the workweek by 0.1 hour is roughly equivalent, in terms of labor input, to an increase in employment of more than 300,000 jobs.

³ This calculation reflects an adjustment for updated Census Bureau population estimates that were incorporated into the January 2012 Current Population Survey by the Bureau of Labor Statistics (BLS). In accordance with usual practice, the BLS does not revise the official Current Population Survey estimates for earlier months to reflect the updated population values.

Figure 2-4 Unemployment Rate, 1979–2013



Note: Shading denotes recession.

Source: Bureau of Labor Statistics, Current Population Survey.

Figure 2-5
Initial Unemployment Insurance Claims, 2004–2013



2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2 Note: Shading denotes recession. Four-week moving average.

Source: Department of Labor, Employment and Training Administration.

rate, which fell from 66.0 percent in December 2007 to 64.9 percent in February 2010—a period when the economy shed jobs at an average rate of 320,000 a month. Since then, labor force participation has continued to decline, reaching 63.6 percent by December 2012.

To what extent can this sharp drop in the labor force participation rate be attributed to the prolonged slack in the labor market? Answering this question requires distinguishing between cyclical movements arising from the prolonged downturn and the demographic trends of an aging, and thus retiring, workforce. To this end, Table 2-1 provides a decomposition of the labor force participation rate into a trend component and a cyclical component over the current business cycle. The trend, or demographic, component from 2007-12 is estimated by extrapolating a linear trend in the labor force participation rate from the 10 years preceding 2007, and the cyclical component is computed as the difference between the actual labor force participation rate and this trend.

As can be seen in the bottom half of Table 2-1, the labor force participation rate fell by 2.2 percentage points from 2007–12. Of that drop, 1.2 percentage points are attributed to a declining trend caused primarily by the aging of the workforce, while 1.0 percentage point is cyclical. An analogous calculation for 1980-85—the only other postwar period that includes a double-digit unemployment rate—shows that the labor force participation rate rose by 1.0 percentage point over the twin recessions of the early 1980s. But at that time, trend labor force participation was rising by 2.0 percentage points—a consequence primarily of the rising participation of women during that period—so the cyclical component during the early 1980s declined by 0.9 percentage point. Thus, the cyclical component of the change in the labor force participation rate during 2007-12 is close to its value over 1980-85, and so, by this measure, the recession-induced rate of labor force decline differs little from the early 1980s.

Consumption and Saving

Consumer spending, which accounts for approximately 70 percent of GDP, rose moderately in 2012, as credit conditions continued to ease, household liabilities fell relative to income, and the labor market improved. Real household consumption grew 1.9 percent during the four quarters of the year and was supported by an extension of the payroll tax cut, which first went into effect in January 2011 as part of the Tax Relief, Unemployment Insurance Reauthorization, and Job Creation Act.

⁴ Specifically, for each gender and age group, labor force participation rates are projected using the previous 10-year trend, and the trend in the overall participation rate over the subsequent period is computed using actual population weights for each group.

Table 2-1 Labor Force Participation Rates, 1980-1985 and 2007-2012

	Labor Force Participation Rate, Percent				
Years	Year of cycle peak (actual)	Projection for five years ahead	After five years (actual)		
1980-1985	63.8	65.7	64.8		
2007-2012	65.9	64.6	63.7		
	Decomposition of Five-Year Change, Percentage Points				
	Total	Trend	Cycle		
1980-1985	1.0	2.0	-0.9		
2007-2012	-2.2	-1.2	-1.0		

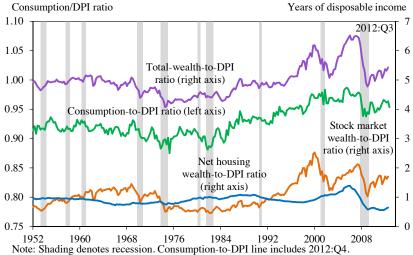
Note: Numbers may not sum due to rounding. Based on annual averages and historically adjusted by the CEA for population controls. The projections for five years ahead are estimated by extrapolating a linear trend in age/gender-specific labor force participation rates from the 10 years preceding 1980 and 2007, respectively. Source: Bureau of Labor Statistics, Current Population Survey; CEA calculations.

Several key developments in 2012 shaped the contours of consumer spending.

Household Income in 2012. Nominal personal income grew 5.0 percent during the four quarters of 2012, a somewhat faster pace of growth than in 2011. Growth in nominal personal income over the course of the year was largely attributable to gains in employee wages, salaries, and benefits. Real disposable personal income, which is personal income less personal taxes and adjusted for price inflation, rose 3.2 percent over the four quarters of 2012, a substantial improvement over the 2011 increase of 0.3 percent. The pattern partly reflects a moderation in inflation mostly due to a drop in energy price inflation. The expiration of the temporary payroll tax cut will subtract about \$120 billion from disposable income in 2013.

Household Wealth and Saving in 2012. Households continued to rebuild their balance sheets in the aftermath of the worst economic downturn since the Great Depression. On balance, the wealth-to-income ratio, depicted in Figure 2-6, rose over the first three quarters of 2012 and has improved considerably since the beginning of 2009. Consumption as a share of disposable income tends to fluctuate with the wealth-to-income ratio. As a rule of thumb, a one dollar drop in wealth reduces annual consumer spending by two to five cents. The decline in the wealth-to-income ratio from the first quarter of 2007 to its low point in the first quarter of 2009 was equivalent to roughly 1.7 years of disposable income. Through the third quarter of 2012, this measure regained the equivalent of nearly 0.7 year of disposable income. This simple framework suggests that the household wealth lost during the recession has not yet been recovered and that this loss of wealth has left the level of consumption roughly 2 to 6 percent below

Figure 2-6 Consumption and Wealth Relative to Disposable Personal Income (DPI), 1952–2012



Source: Bureau of Economic Analysis, National Income and Product Accounts; Federal

Reserve Board, Z.1; CEA calculations.

what it would have been otherwise. Much of that loss of wealth resulted from the bursting of the housing bubble, and the wealth-to-income ratio now is where it was in the mid-1990s (before the information technology stock price bubble) and early 2000s (before the housing bubble).

The personal saving rate—expressed in the National Income and Product Accounts as personal saving as a share of disposable personal income—averaged 3.9 percent in 2012, a bit lower than the rate observed in 2011. The rate of personal saving jumped during the recession as households sharply curtailed spending in response to the crisis, but overall, the saving rate fell modestly over the course of the recovery and is now at the level it was in the early 2000s.

Household Credit and Deleveraging in 2012. Lending standards for consumers, as reported in the Federal Reserve's Senior Loan Officer Opinion Survey, eased for the third consecutive year. Moreover, driven by a surge in nonrevolving lending categories (such as auto and student loans), consumer credit expanded 5.7 percent at an annual rate over the four quarters of 2012. However, because mortgage credit continued to decline, the overall level of household debt decreased 0.6 percent at an annual rate over the first three quarters of 2012. Household debt has declined every year since 2007, as households continue to deleverage.

Although household debt increased in the period before the financial crisis, the extent to which household leverage has restrained consumer spending during the recovery remains unsettled. Traditional models of consumption imply that, absent borrowing constraints, households consume a fraction of their expected lifetime wealth, which implies that the consumption-wealth ratio fluctuates around its mean (Campbell 1987; Lettau and Ludvigson 2003). This theory and its extensions imply that consumption and saving will adjust to maintain appropriate lifetime savings, so for example a loss in housing wealth will cause consumers to increase saving, as they did during and shortly after the recession, to pay down debts and rebuild retirement savings. But consumers, of course, face borrowing constraints and can be locked into mortgage or debt payment streams that might impose additional, direct limitations on consumption. Dynan (2012) and Mian, Rao, and Sufi (2012) provide evidence that these additional effects of the so-called debt overhang from the collapse in housing have further suppressed consumption during the recovery.

Whether one looks at wealth or leverage, household finances have improved substantially in recent years. From the third quarter of 2007 to the first quarter of 2009, household net worth fell by an estimated \$16.1 trillion. By the third quarter of 2012, however, households had added \$13.5 trillion, recovering more than 80 percent of wealth lost. Households have also made progress in reducing debt burdens. Total household debt stood at 81.4 percent of GDP in the third quarter of 2012, the lowest since 2003 and down from a peak of nearly 98 percent in 2009. Moreover, payments on mortgage and consumer debt took up about 10.6 percent of household disposable income in the third quarter of 2012, the lowest household debt service ratio since 1993.

Effect of Rising Inequality on Consumption. Some of the recent patterns in aggregate consumption behavior—including the sluggish growth in consumer spending relative to previous recoveries—may reflect the sharp rise in income inequality over the past 30 years. According to CBO (2012c), after-tax incomes of the top 1 percent of households rose by more than 155 percent from 1979 to 2009, while those of median households increased by less than 33 percent. About one-fifth of this increase in inequality is due to the declining share of income that goes to labor (Box 2-2). As discussed in the 2012 Economic Report of the President, some research suggests that this rise in inequality may have reduced aggregate demand, because the highest income earners typically spend a lower share of their income—at least over intermediate time horizons—than do other income groups.

Business Fixed Investment

Real business fixed investment grew 4.6 percent during the four quarters of 2012, after rising 10.2 percent in the four quarters of 2011. Both of its principal components-equipment and software investment and nonresidential structures investment—contributed to this slower growth. Investment in equipment and software slowed to 4.6 percent over the four quarters of 2012, down from robust growth of 11.4 percent in 2011. Investment in nonresidential structures increased 4.7 percent, following a 6.9 percent increase in 2011.

Within equipment and software investment, major components such as industrial equipment, transportation equipment, and informationprocessing equipment all posted notably slower growth in 2012 than in 2011. The relatively stable pace of GDP growth during 2011 and 2012 provided little overall stimulus to equipment investment. The slowing pattern of equipment investment growth may also partially reflect the reduced pace of bonus depreciation, which had been available at a 100 percent rate during 2011 but fell to 50 percent in 2012. (Bonus depreciation encourages investment by allowing firms to write-off equipment purchases immediately, rather than over an extended period). The American Taxpayer Relief Act (ATRA) extended the 50 percent rate through 2013.

Real investment in nonresidential structures grew 4.7 percent during the four quarters of 2012, down from 6.9 percent during 2011. Solid growth in office buildings and electric power plants was partially offset by a decline in petroleum and natural gas drilling, which followed strong growth during the preceding two years.

Despite the slower growth of business investment in 2012, the sector is poised to grow rapidly if demand accelerates because corporations have ample internal funds (Figure 2-7). Corporate profits continued to rise through the first three quarters of 2012, exceeding their pre-recession level, even as a percent of GDP, while corporate dividends remained at roughly pre-recession levels through the first three quarters of the year before spiking in the fourth quarter, before ATRA was passed. As a consequence, corporate cash flow, the sum of undistributed profits and depreciation that represents the internal funds that corporations have available for investment, has remained elevated during the recovery. Cash flow now exceeds investment, an unusual situation insofar as corporations usually have to borrow funds to finance their capital spending plans. A large portion of these investable funds has been channeled to financial investments rather than to new physical capital, as can be seen by the rising level of liquid assets held by nonfinancial corporations. Indeed, as of the third quarter of 2012, nonfinancial corporations held \$1.7 trillion of liquid financial assets.

Box 2-2: Why Is the Labor Share Declining?

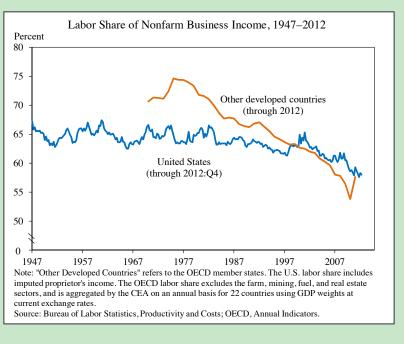
The "labor share" is the fraction of income that is paid to workers in wages, bonuses, and other compensation. Income of self-employed workers is also included in some definitions of labor income, as it is in the figure below. The labor share in the United States was remarkably stable in the post-war period until the early 2000s. Since then, it has dropped 5 percentage points. Because capital income is distributed more unequally than labor income, the decline in the labor share accounts for some, but not all, of the rise in inequality. CBO (2011) has estimated that 21 percent of the increase in inequality from 1979 to 2007 was accounted for by shifts between labor and other sources of income, with the remaining 79 percent accounted for by rising inequality within capital, business, or labor income. Nevertheless, the decline in the labor share has adverse implications for government revenues because wages and salaries are taxed at a higher rate than other major income sources.

The decline in the labor share is widespread across industries and across countries. An examination of the United States shows that the labor share has declined since 2000 in every major private industry except construction, although about half of the decline is attributable to manufacturing. Moreover, for 22 other developed economies (weighted by their GDP converted to dollars at current exchange rates), the labor share fell from 72 percent in 1980 to 60 percent in 2005.

Proposed explanations for the declining labor share in the United States and abroad include changes in technology, increasing globalization, changes in market structure, and the declining negotiating power of labor. Changes in technology can affect the share of income going to labor by changing the nature of the labor needed for production. More specifically, much of the investment made by firms over the past two decades has been in information technology, and some economists have suggested that information technology reduces the need for traditional types of skilled labor (Bound and Johnson 1992; Autor, Katz, and Krueger 1998). According to this argument, the labor share has fallen because traditional middle-skill work is being supplanted by computers, and the marginal product of labor has declined.

Increasing globalization also puts pressure on wages, especially wages in the production of tradable goods that can be produced in emerging market countries and some less-developed countries. These pressures on wages can lead to reductions in the labor share. Changes in market structure and in the negotiating power of labor could also lead to a declining labor share. One such change is the decline in unions and collective bargaining agreements in the United States.

These explanations are neither exhaustive nor mutually exclusive (OECD 2012). Overall, these changes have moved the distribution of income towards a winner-take-all society.



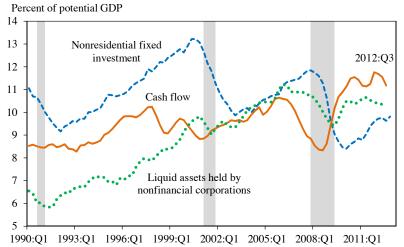
Business Inventories

Inventory investment—measured as the change in inventories from one quarter to the next—is typically an important contributor to the changes in real GDP during recessions and the early stages of recoveries. During the recession, inventories fell but by less than sales, so the ratio of inventories to sales rose; through the first two years of the recovery, inventories rose less rapidly than sales, and by the end of 2011, the inventory-sales ratio had returned to its level of the mid-2000s. With this inventory cycle behind us, real private nonfarm inventory accumulation in 2012 made only a small, slightly positive contribution to real GDP growth. Looking ahead, inventory investment is expected to make only a minor contribution to growth during 2013.

Government Outlays, Consumption, and Investment

The Federal budget deficit during fiscal year (FY) 2012—which ended on September 30, 2012—was \$1.1 trillion, about \$200 billion less than the

Figure 2-7
Business Fixed Investment and Cash Flow, 1990–2012



Note: Shading denotes recession. Potential GDP is a CBO estimate. Cash flow, from the National Income and Product Accounts, and liquid assets held by nonfinancial corporations are plotted using three-quarter moving averages. Nonresidential fixed investment line includes 2012;Q4.

Source: Bureau of Economic Analysis, National Income and Product Accounts; Federal Reserve Board, Z.1; Congressional Budget Office.

preceding year. As a share of GDP, the deficit fell to 7.0 percent in FY 2012, down from 8.7 percent in FY 2011.

As measured in the Federal unified budget, Federal receipts rose 6.4 percent in FY 2012 compared with the previous year, reflecting a 3.7 percent increase in individual income tax receipts, a 33.8 percent increase in corporate tax receipts, and a 3.2 percent increase in receipts for social insurance. The \$61 billion increase in corporate tax receipts accounted for 42 percent of the rise in overall revenues. Current dollar values of individual income taxes and social insurance and retirement receipts have each risen to 97 percent of their FY 2007 levels, while corporate tax receipts were just 65 percent of their previous high.

Federal outlays declined 1.7 percent in nominal dollars in FY 2012 from FY 2011, falling from 24.1 percent of GDP to 22.8 percent of GDP. The decline in spending during the fiscal year reflected several factors, including reduced outlays on unemployment insurance, Medicaid, and defense. Specifically, fewer individuals received unemployment benefits, a temporary increase in Federal aid to states for Medicaid expired, and the number of U.S. Army personnel stationed in Afghanistan and Iraq was reduced.

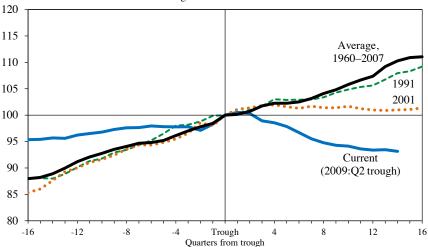
During the four quarters of calendar year 2012, the National Income and Product Accounts measure of real Federal expenditures on consumption and gross investment (which does not include Federal transfers to States and individuals) declined 2.8 percent, as a 4.9 percent decline in real defense spending more than offset a 1.5 percent increase in real nondefense spending.

The Federal deficit as a share of GDP fell for the third consecutive fiscal year in 2012. The change in this ratio is one measure of the drag on the economy imposed by fiscal consolidation, and in FY 2012, this drag was 1.7 percentage points (the difference between the deficit-GDP ratio of 8.7 percent in FY 2011 and 7.0 percent in FY 2012). Moreover, the drop in the deficit-to-GDP ratio from 10.1 percent in 2009 to 7.0 percent in 2012 is the largest 3-year decrease since 1949. Looking further ahead, policy changes to be recommended in the FY 2014 Budget will put debt as a share of the economy on a stable path and place the budget in a fiscally sustainable position in the 10-year budget window.

State and Local Governments

Although State and local governments continued to experience fiscal pressure in 2012, the long contraction in the sector finally appears to be coming to an end. State and local consumption and investment (purchases) have shown unprecedented weakness compared with previous recoveries (Figure 2-8). From the end of the recession in mid-2009 to the fourth quarter of 2012, real State and local purchases declined 6.8 percent. By contrast, during the comparable period of each of the six previous recoveries, real State

Figure 2-8
Real State and Local Government Purchases During Recoveries
Indexed to 100 at NBER-defined trough



Note: The 1960-2007 average excludes the 1980 recession due to overlap with the 1981-82 recession.

Source: Bureau of Economic Analysis, National Income and Product Accounts; National Bureau of Economic Research; CEA calculations.

and local purchases posted positive growth, averaging an increase of 10.3 percent over the first three and a half years of the recovery. Nominal State and local government tax receipts increased during the first three quarters of 2012. Federal support from the Recovery Act—which helped support State and local governments during 2009 and 2010—phased out during 2011 and 2012. And while the pace of State and local government job losses eased in 2012, employment in this sector remained 724,000 jobs below its previous peak as of the end of the year, with more than 40 percent of the loss in educational services jobs.

On the revenue side, State and local tax receipts rose at an annual rate of 2.6 percent during the first three quarters of 2012, a bit below the pace during 2011. The slow recovery in State and local tax revenue reflects in part the effect of lower house prices on property tax collections. Historically, property taxes have accounted for about 30 percent of State and local government tax receipts and are critical to local governments, but property tax receipts have edged up slowly in the years after the housing bubble burst. Nationwide, property tax receipts have grown just 11.4 percent over the past five years, only slightly faster than inflation, compared with 36.0 percent growth during the preceding five year period from 2002-07. Moreover, State and local governments are still feeling the effect of the drop in house prices: because property value assessments lag behind market valuations, the effect of house prices on property tax receipts operates with a delay of about three years (Lutz 2008). Although policymakers in some states have increased the tax rate on assessed property values to partially offset declines in those values (Lutz, Molloy, and Shan 2011), local governments have still needed to adjust spending to make up for the lost revenue. Despite these difficulties, the recent upturn in house prices suggests that improvement in State and local government finances is on the horizon. In addition, revenues from sales and income taxes—which make up about 50 to 60 percent of State and local tax receipts—have also continued to recover, with income tax collections up 7.6 percent during the four quarters of 2012, and sales taxes growing 2.2 percent.

Another factor weighing on State and local government revenues has been the phase-out of the Recovery Act. After rising notably in 2009 and 2010, Federal grants-in-aid to State and local governments plunged \$82.1 billion in 2011 before stabilizing during 2012. Both the earlier increase and the recent return to a lower level were largely attributable to the Recovery Act, which was designed to offer temporary support to State and local governments. The portion of Federal grants-in-aid to the States from Recovery Act programs stood at just \$17.9 billion in 2012, down from a peak of more than \$100 billion in 2010.

Current State and local government expenditures—which include transfers to individuals as well as government consumption—rose 2.8 percent over the four quarters of 2012, following a 0.2 percent increase in the previous year. A recent CBO report (CBO 2012b) noted that the weakness in State and local government spending relative to previous recoveries could be attributed roughly equally to three different areas: hiring of employees, purchases of goods and services, and construction spending. Despite continued spending restraint across these major components, the operating position of State and local governments deteriorated to an aggregate deficit of \$140 billion by the third quarter of 2012, on pace for a fifth consecutive year of operating deficits for the sector.

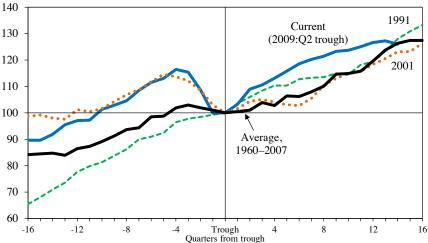
State and local government employment fell 32,000 during the 12 months of 2012, a much shallower decline than the 286,000 jobs lost in 2011. Nevertheless, employment in the sector remains well below its peak in 2008. To date, the Administration has taken important steps to help State and local governments maintain critical services in public safety and education. In addition to the grants-in-aid components of the Recovery Act, the Administration established a new fund to support teaching jobs and extended the enhanced Federal matching formula for certain social services and medical insurance expenditures. In 2011, the President proposed additional resources for the teacher job fund as part of the American Jobs Act, which also would have supported the modernization of more than 35,000 schools. Although Congress did not enact this proposal, the President remains committed to supporting educators and first responders in his second term.

Real Exports and Imports

Compared with previous recessions, real exports experienced a sharper-than-usual contraction and rebound during 2007-10. This sharp cyclical decline was partly attributable to the synchronized nature of the 2007-09 contraction and recovery across nearly all countries, a collapse and rebound in commodity prices, and foreign consumers' postponement of purchases of U.S. durable goods, which account for a large share of tradable goods (Baldwin 2009). Now, with the recent slowing of world growth, real exports appear to be reverting to their historical trend (Figure 2-9), growing 1.8 percent during the four quarters of 2012, after rising 4.3 percent in 2011 and 8.8 percent in 2010. As discussed in Chapter 7, the recent slowing in export growth appears to have restrained the pace of U.S. manufacturing activity. Continued export growth will depend, in part, on healthy growth of the world economy and on exchange rates. The value of the dollar has been generally increasing since July 2011, in part reflecting increased

Figure 2-9
Real Exports During Recoveries

Indexed to 100 at NBER-defined trough



Note: The 1960-2007 average excludes the 1980 recession due to overlap with the 1981-82 recession.

Source: Bureau of Economic Analysis, National Income and Product Accounts; National Bureau of Economic Research: CEA calculations.

international demand for U.S. Treasury bonds in a time of global financial turmoil and rapidly deteriorating global growth. Changes in the terms of trade have contributed to the weakening demand for U.S. goods abroad.

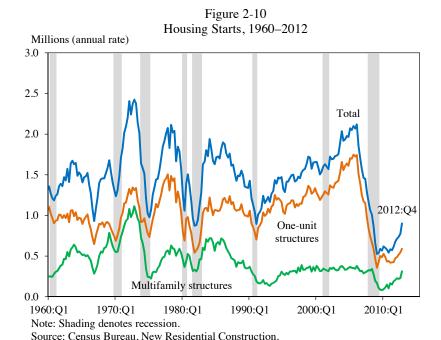
Real imports grew 0.1 percent during the four quarters of 2012, down from 10.9 percent and 3.5 percent in 2010 and 2011, respectively. A decline in imports of petroleum products offset a moderate rise in imports of nonpetroleum goods. Consistent with Houthakker and Magee (1969), the pattern in real imports parallels, but is sharper than, the general shape of the contraction and rebound in overall U.S. personal consumption spending. Because imports tend to be concentrated more in goods than is overall consumer spending, real imports move more closely with goods consumption—which is cyclically sensitive—than with total consumption. In addition, because business equipment investment includes imported capital goods, real imports track this cyclical series as well.

Shrinking exports subtracted from real GDP growth in each quarter of the worst period of the recession from the third quarter of 2008 to the first quarter of 2009, but real exports have added to real GDP in every quarter since, except for in the fourth quarter of 2012.

Housing Markets

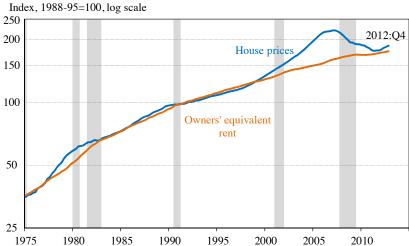
Housing activity firmed markedly in 2012 and, although the level of activity remains low by historical standards, the recovery in the sector finally appears to be gaining momentum. On the production side, new housing starts increased to an annual rate of 900,000 units by the fourth quarter of 2012, up from an annual low of 550,000 units in 2009, and 610,000 units in 2011 (Figure 2-10). Demand for housing has also increased, with new and existing home sales reaching their highest levels of the recovery period during 2012. Similarly, inventories of unsold new homes have fallen to their lowest ever recorded level.

Following large declines from 2007 through 2011, housing prices bottomed out in early 2012, and rose 8.3 percent over the 12 months of the year, according to the CoreLogic home price index. Private sector housing experts expect house prices to appreciate at a 3.0 to 3.5 percent annual pace for the next several years. Because households have a choice between renting and owning a home, the price of new homes should increase in tandem with rental costs, at least over long periods of time. As seen in Figure 2-11, house prices increased to a level above parity with rents during the mid-2000s but descended to a level consistent with rents by the end of 2011.



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Figure 2-11 Home Prices and Owners' Equivalent Rent, 1975–2012



Note: Shading denotes recession. House prices are measured by the Federal Housing Finance Agency's price index (total index before 1991, purchase-only index after 1991). Owners' equivalent rent is measured by the Personal Consumption Expenditures price index for imputed rent of owner-occupied nonfarm housing (before 1983) and the Consumer Price Index for owners' equivalent rent of residence (1983-present).

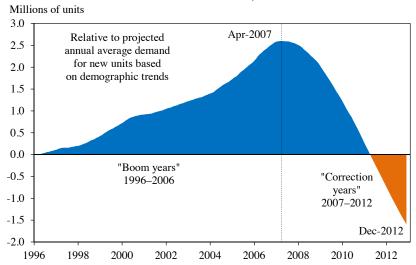
Source: Federal Housing Finance Agency, House Price Index; Bureau of Economic Analysis, National Income and Product Accounts; Bureau of Labor Statistics, Consumer Price Index; CEA calculations.

In 1998, the Council of Economic Advisers estimated that the pace of construction of new housing units and mobile homes that would be consistent with projected rates of population and household formation would be 1.64 million units a year over the 10 years from 1996 to 2006. Relative to this 1996 estimate, the subsequent 10 years through 2006 saw a period of tremendous overbuilding that led to an excess supply of 2.6 million housing units by 2007 (Figure 2-12). Since then, the very low levels of new construction effectively allowed the underlying demographics of household formation to catch up to the supply of constructed and manufactured homes nationwide by 2011, with some possible overshooting in 2012.

Although construction, sales, and prices are finally rising, progress has been impaired by the substantial stock of vacant homes and homes still in the foreclosure process; therefore, a recovery in housing starts to the annual pace of roughly 1.76 million units suggested by the demographics of household formation will likely still take several years to achieve (Masnick, McCue, and Belsky 2010). Nevertheless, sustained increases in homebuilding should provide a major impetus to economic growth over the medium term.

Several other factors also appear to be restraining the housing recovery. First, although mortgage rates are at historically low levels, approximately 22 percent of current mortgage holders were underwater (that is, the

Figure 2-12 Cumulative Over- and Under-Building of Residential and Manufactured Homes, 1996–2012



Source: Census Bureau, New Residential Construction (completions) and Manufactured Homes Survey (placements); CEA (1998); CEA calculations.

amount owed on their mortgage exceeded the market value of their home) through the third quarter of 2012, impeding their ability to refinance or sell.

Second, although some tightening of lending standards was inevitable in the aftermath of the financial crisis, these standards have not eased by as much as expected this far into the recovery. According to the Federal Reserve Senior Loan Officer Opinion Survey, the net percentage of responding banks that have eased their standards for approving prime residential mortgage loans has been flat since the beginning of 2011, even though demand for prime residential mortgages has increased sharply. According to the April 2012 survey, which included special questions on real estate lending, more than half the lenders reported they were less likely to originate a mortgage to a borrower with a credit score of 680 today than in 2006. All told, the origination of first-lien mortgages to homebuyers now stands at its lowest level since 1995.

As the President emphasized in the State of the Union, moving forward with programs to help homeowners with strong payment histories refinance their homes will provide them with additional liquidity and will spur consumption. In addition, streamlining regulations associated with issuing new mortgages will provide creditworthy potential borrowers the opportunity to purchase homes and will further the recovery of the housing sector.

Financial Markets

Financial market conditions in the United States continued to improve, on net, in 2012, reflecting the ongoing economic recovery and the highly accommodative monetary policies undertaken by the Federal Reserve. The broad, overall improvement in financial conditions is consistent with the performance of the Standard and Poor's (S&P) 500 Composite Index, a measure of U.S. equity prices, which rose 14.4 percent over the 12 months of 2012. Measures of market volatility, such as the Chicago Board Options Exchange Market Volatility Index (also known as the VIX), were also more subdued in 2012 than they were in 2011.

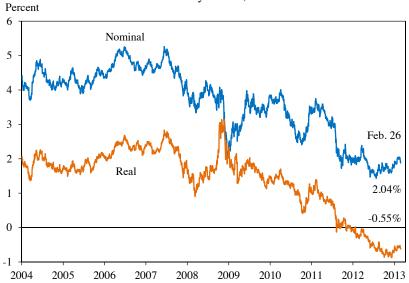
Yields on 10-year Treasury notes averaged 1.7 percent in December 2012, down slightly from 2.0 percent in December 2011. For the year as a whole, the 10-year yield averaged 1.8 percent, the lowest since at least 1953 when the Federal Reserve's constant-maturity series began. Long-term interest rates in the United States were driven even lower than in 2011 by the relative safety of U.S. issues in the presence of concern over sovereign debt issues abroad and by the Federal Reserve System's program to lengthen the maturity of its holdings of U.S. government securities. With these nominal yields falling to historic lows, long-term real interest rates (that is, the nominal yield less expected inflation) also fell. Yields on Treasury Inflation-Protected Securities, an indicator of real rates, averaged negative 0.5 percent in 2012 (Figure 2-13).

Credit standards for commercial and industrial loans, as measured by the Federal Reserve Board's Senior Loan Officer Opinion Survey, have eased since the financial crisis for firms of all sizes, including small firms. Data from the Federal Deposit Insurance Corporation also suggest that the number of loans to small businesses increased in 2012, after having remained depressed through 2011. Nevertheless, the value of small-business commercial and industrial loans remains below its pre-recession level.

Wage and Price Inflation

Core consumer price inflation (the consumer price index excluding the volatile components of food and energy) was stable from 2011 to 2012, rising 1.9 percent in 2012, and down slightly from a 2.2 percent year-earlier increase (Figure 2-14). Twelve-month increases in core consumer prices have fluctuated in the fairly narrow range of 0.6 to 2.3 percent during the past three years. This relative stability is striking, given that standard Phillips curve models of inflation would predict sustained disinflationary pressure over this period because of the considerable slack in labor and product markets.

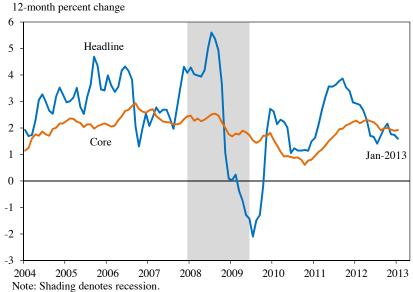
Figure 2-13 10-Year Treasury Yields, 2004–2013



Note: Real yield based on 10-year inflation-indexed securities.

Source: Federal Reserve Board, H.15.

Figure 2-14 Consumer Price Inflation, 2004–2012



Source: Bureau of Labor Statistics, Consumer Price Index.

As is usually the case, the overall, or headline, consumer price index, including food and energy prices, fluctuated more in 2012 than did core inflation. Inflation as measured by the overall consumer price index fell from 3.0 percent during the 12 months of 2011 to 1.7 percent in 2012, with the decline stemming from lower rates of food and energy inflation. Energy prices edged up only 0.5 percent during 2012, more than 6 percentage points below their 2011 pace, and food price inflation dropped 2.9 percentage points. Data Watch 2-2 discusses one of the challenges faced by statistical agencies when constructing price indexes based on statistical samples.

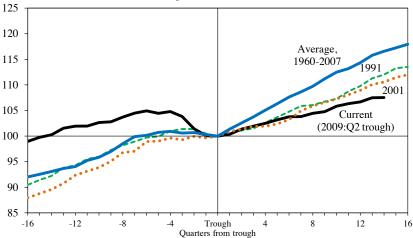
THE RECOVERY IN HISTORICAL PERSPECTIVE

Following the worst recession since the Great Depression, the recovery that began in the third quarter of 2009 has been a long and difficult one for many Americans. During the recession, 7.5 million jobs were lost, and real GDP fell by 4.7 percent. To date during the subsequent recovery, 4.2 million jobs have been added since June 2009, and real GDP has grown by 7.5 percent. Since the trough in employment in February 2010, the private sector has grown for 35 straight months and added over 6.1 million jobs. Real GDP growth in the United States has exceeded the cumulative growth in the euro area and the United Kingdom (Figure 1-4) as well as in Japan since the fourth quarter of 2007. Nevertheless, U.S. real GDP growth since the end of the recession has been less than the average increase in previous postwar recoveries.

From 1960 to 2007, the U.S. economy had seven recessions, and the average annual rate of growth of real GDP during the 12 quarters following those recessions was 4.2 percent. In contrast, during the 12 quarters following the trough in the second quarter of 2009, the average annual rate of growth of real GDP was 2.2 percent. After three years of recovery, the cumulative growth of real GDP was 6.3 percentage points lower than its average value for the earlier post-1960 recessions. This shortfall is depicted in Figure 2-15, which shows the paths of real GDP for the three most recent business cycles (with cyclical troughs in the first quarter of 1991, the fourth quarter of 2001, and the second quarter of 2009), along with the average path for U.S. business-cycle recoveries from 1960 through 2007. For each of the three most recent cycles, the recovery in real GDP has been slower than the 1960–2007 average. It is worth noting that the most recent recovery has been stronger than the post-2001 recovery if only private demand is considered (that is, excluding government purchases). Still, the fact remains that these three recoveries have been slower than the pre-2007 average.

Figure 2-15 Real GDP During Recoveries

Indexed to 100 at NBER-defined trough



Note: The 1960-2007 average excludes the 1980 recession due to overlap with the

1981-82 recession.

Source: Bureau of Economic Analysis, National Income and Product Accounts; National

Bureau of Economic Research: CEA calculations.

The reasons underlying the relatively slow pace of the current recovery have been the subject of considerable research. This research, discussed in more detail below, reaches three main conclusions. First, most—perhaps two-thirds, using a central estimate across studies—of the gap between the 12-quarter growth of GDP after the second quarter of 2009 and the average 12-quarter growth following previous troughs is accounted for primarily by changes in the long-term dynamics of the U.S. labor force and economy, mainly long-term demographic shifts. These demographic changes also help explain why the 1991 and 2001 recoveries were slower than the post-1960 average. Second, much of the remaining one-third of the gap can be attributed to the financial crisis dynamics discussed by Reinhart and Rogoff (2009), Reinhart and Reinhart (2010), Hall (2010), Woodford (2010), and others. This research finds that recoveries following financial crises tend to be slow because of delays in the reemergence of credit and reductions in consumer spending as households pay down debt or rebuild their savings, a process referred to as "deleveraging." Third, some unique factors proved to be particularly important impediments to this recovery, as discussed previously: the limited effectiveness of standard monetary policy caused by the zero lower bound on nominal interest rates; the presence of millions of underwater and foreclosed properties, which has impaired the recovery of the housing market; and the contraction in State and local government

Data Watch 2-2: The Effect of Statistical Sampling on Laspeyres Indexes

The purpose of a price index is to provide a single measure of the overall rate of change in prices for some set of goods and services, for example, all purchases made by consumers. If data on all prices were readily available, the true rate of price increase could be calculated by weighting the relative increases in the prices for every item in the bundle using weights that reflect spending on the items, then combining those weighted price increases to form a price index. Because it is not possible to collect all prices, however, statistical agencies collect a sample of prices and use the sample to construct the price index.

The consequences of using a sample of prices, instead of all prices, can be significant. To be concrete, consider a Laspeyres price index, in which inflation is measured as an arithmetic weighted average of price increases for individual categories of items and the weights are spending shares measured at the beginning of the interval. In practice, each item (for example, apples or a haircut) is sold in an area (such as the Seattle metropolitan region), so the price increase of interest is an item-area price (the increase in the price of apples in Seattle from one month to the next). In reality, there are many item-area prices (one can purchase apples or haircuts at many shops in Seattle), so a sample of item-area prices is taken, and the sampled price increases (the increase in the price of apples at a given store, relative to last month's price at that store) are averaged. Since 1999, the Bureau of Labor Statistics (BLS) has computed this average of the sample of price increases within an item-area using the geometric mean.1

If the number of sampled prices for an item-area is large, the geometric mean of sample price changes will be close to the true item-area price. But collecting many item-area prices is expensive, so in many cases only a small number of item-area prices are collected. When computed using a small sample, the sample geometric mean tends to overstate the true geometric mean. The extent of this overstatement—the statistical bias arising from using a small sample—decreases as the number of prices sampled for an item-area increases.

How large is this finite sample bias? As an example, consider a

¹ The geometric mean of two numbers is the square root of their product. Suppose apple prices are sampled at two stores, one of which held prices constant and the other increased apple prices by 20 percent. Then the arithmetic mean relative price is (1 + 1.2)/2 = 1.10(an increase of 10 percent), and the geometric mean is $(1\times1.2)^{1/2} = 1.095$ (an increase of 9.5) percent). The BLS adopted the geometric mean in part because its slightly lower increase captures the effect of shoppers migrating to the store at which apple prices remain constant, so that from the shopper's perspective the overall price increase is in fact less than 10 percent.

Laspeyres price index constructed using equal weights (that is, an index for which all item-areas have the same consumption shares), with many item-areas and with 10 prices randomly sampled per item-area. Suppose that the true item-area price increase is zero and the standard deviation of the price changes (a measure of the dispersion of the price changes) for sampled goods within each item-area is 10 percentage points. Then the bias is small: The geometric mean index for each item-area overstates the price change by only 0.05 percentage point per period, and under the assumptions made here, this translates into an upward bias of 0.05 percentage point in the overall Laspeyres index. But if only 5 items are sampled per item-area, and the standard deviation of the price changes across stores is a bit larger, say, 15 percentage points, then the bias is larger, and the price change is overstated by 0.23 percentage point per period. If this bias can be calculated (as has been done in the simple example laid out here), a technical correction can be made to the Laspeyres index to eliminate the bias. At a technical level, this bias arises because the Laspeyres index is an arithmetic weighted average of the item-area geometric means. Interestingly, if the geometric means for each item-area are aggregated to a national index using a weighted geometric mean, as with a Törnqvist price index, rather than a weighted arithmetic mean, as with the Laspeyres, the small-sample bias is eliminated, and there is no need for a technical bias correction. For further reading on small-sample bias in index numbers, see McClelland and Reinsdorf (1999) and Bradley (2005).

hiring due to sharply eroded property and sales tax bases. Given the deep and prolonged effects of financial crises, the cyclical component of the current recovery would have lagged even further behind the postwar average were it not for Federal fiscal stimulus—notably through the Recovery Act (Box 2-3), the temporary payroll tax cut, and extended unemployment insurance benefits—and for the nonstandard monetary stimulus provided by the Federal Reserve.

Demographics, Productivity, and Long-Term Economic Growth

A useful starting point for analyzing long-term trends in output is to note that GDP is the product of two terms: real GDP per worker times the number of workers. In turn, GDP per worker is the product of real GDP per hour of labor input—that is, labor productivity—times average hours per worker. Although average hours per worker have been declining, the rate of this decline since the mid-1980s has been relatively small. Thus, variation in the long-run growth rate of GDP is, to a first approximation, determined by

Box 2-3: Economic Impacts of the American **Recovery and Reinvestment Act**

To counter the contraction of aggregate demand in the Great Recession, Congress passed and President Obama signed into law the American Recovery and Reinvestment Act (the Recovery Act) in February 2009. The Recovery Act was a major part of the Federal government's efforts to reinvigorate the economy through direct fiscal stimulus. The Recovery Act authorized an estimated \$787 billion for purchases of goods and services by the Federal government, transfers to State and local governments, payments to individuals, and temporary tax reductions for individuals and businesses (based on actual outcomes, the final total exceeded \$800 billion).

Numerous studies have examined the success of the Recovery Act in raising employment and stimulating growth. As is the case with policy evaluation generally, the methodological challenge is to compare outcomes from an event that actually happened (implementation of the Recovery Act) to outcomes from a counterfactual event that did not (no Recovery Act). One approach is to use a large macroeconometric model or other statistical techniques to estimate a baseline, non-stimulus forecast that excludes Recovery Act provisions and a stimulus forecast that includes them, and then either compare the two forecasts or compare the actual data to the non-stimulus forecast. Of the studies employing this method, most estimate that the Recovery Act stimulated growth. A Congressional Budget Office study (CBO 2012b) estimated that the Recovery Act boosted the level of GDP by 0.4-1.8 percent in 2009, 0.7-4.1 percent in 2010, 0.4-2.3 percent in 2011, and 0.1-0.8 percent in 2012, with more than 90 percent of the Recovery Act's budgetary impact realized by the end of September 2012. The most recent review by the Council of Economic Advisers (CEA 2013) estimated that the Recovery Act raised the level of GDP as of the third quarter of 2010 by 2.7 percent, which is roughly in the same range estimated by CBO. A report by Blinder and Zandi (2010) estimated that the stimulus raised GDP in 2010 by 3.4 percent. Additional reports by IHS Global Insight and Macroeconomic Advisers provide estimates consistent with these ranges (as reported in CEA 2013). Estimates based on macroeconometric models typically do not include the additional benefits of avoiding very high levels of unemployment, which could be particularly persistent and exhibit so-called hysteresis; see DeLong and Summers (2012) for additional discussion.

A different approach to evaluating the Recovery Act is to use crossstate variation in Recovery Act spending levels to estimate the effects of the spending, and then to extrapolate these effects to the full economy.

Wilson (2012) studied state-level variation in Recovery Act spending to determine its employment effect; he estimated that Recovery Act spending created 2 million jobs in its first year and 3.4 million by March 2011, with substantial gains in the construction, manufacturing, education, and health industries. Conley and Dupor (2012) estimated that the spending components of the Act created between 82,000 and 1.5 million jobs. Other papers that use state-level variation to estimate Recovery Act effects on employment include Chodorow-Reich and others (2012), who investigated the employment effects of the Recovery Act's aid to states through increased Federal Medicaid matching funds, and Feyrer and Sacerdote (2011), who considered both total spending and type of spending; both papers found positive employment effects.

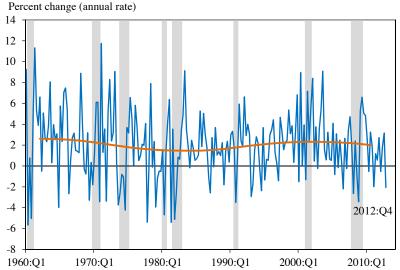
The range of estimates of the effect of the Recovery Act is large, and research on this topic is ongoing. Surveying the literature, however, the evidence suggests that the Recovery Act substantially lessened the impact of the Great Recession by increasing employment and output in the years immediately following the crisis.

the long-run growth rate of both productivity and the number of workers.⁵ The discussion here focuses on the growth of productivity for nonfarm businesses and the growth of overall payroll employment.

Figure 2-16 shows quarterly growth of nonfarm business productivity and its cyclically adjusted long-term mean at an annual rate.⁶ According to this mean, annual trend productivity growth fell from 2.6 percent in 1965 to 1.5 percent in 1985, recovered to 2.3 percent in 2005, and then fell to 2.0 percent as of 2010. Despite the considerable uncertainty and difficulty in distinguishing the trend from cyclical components given the severity of the recent recession, this pattern is in line with others in the academic literature. Gordon (2010) found that trend productivity growth declined from 2.75 percent in 1962 to 1.25 percent in 1979, then rebounded to 2.45 percent by 2002. Fernald (2012) divided the period since 1973 into three regimes of average labor productivity growth: 1.5 percent from 1973 to 1997, 3.6 percent from 1997 to 2003, and 1.6 percent from 2003 to 2012. The very strong

⁵ Because labor productivity is conventionally measured for the nonfarm business sector, there are additional terms that account for the difference between the growth of GDP per hour and nonfarm business output per hour and between nonfarm business hours and total hours. ⁶ The cyclically adjusted long-term mean, or trend, is estimated using regression methods with a cyclical component, specifically two leads and lags of the CBO's unemployment gap, and a flexible trend component. The flexible trend component is estimated by a smooth weighted average using a two-sided 15-year moving window, which is truncated at the ends of the sample.

Figure 2-16
Productivity Growth and Estimated Trend, 1960–2012



Note: Shading denotes recession. Trend productivity growth was estimated by a smoothed weighted

average over a 15-year moving window.

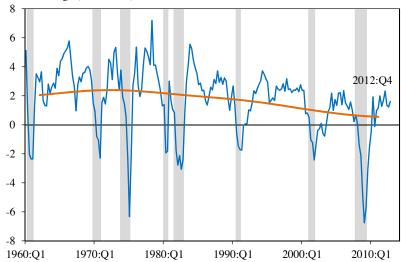
Source: Bureau of Labor Statistics, Productivity and Costs; CEA calculations.

productivity growth of the late 1990s and early 2000s evident in Figure 2-16 appears, in part, to have been transitory.

Figure 2-17 plots the quarterly growth of total payroll employment and its cyclically adjusted long-term mean at an annual rate, and Figure 2-18 plots the quarterly change in employment, measured by the number of jobs; the method for computing the trends in both figures is the same as that used to calculate the trend shown in Figure 2-16. The smoothed mean growth of employment rose from 2.2 percent annually in 1965 to 2.4 percent in 1975 but then declined steadily to 2.0 percent in 1985 and just 0.8 percent in 2005. The trend in the number of jobs added remained high through the 1990s, and in fact more jobs were added in the 1990s than in the 1980s.

The high growth rate of employment in the 1970s reflected the historic surge of women into the U.S. labor force. The trend decline in employment growth since the late 1990s has been largely associated with demographics, in particular the plateauing of female labor force participation during the late-1990s, the steady multi-decade trend decline in male labor force participation, the downward trend in youth labor force participation, and, starting in the 2000s, the entry of the baby-boom generation into retirement. Demographic trends are discussed in more detail in Chapter 4. Indeed, the implications of demographic trends extend beyond the labor

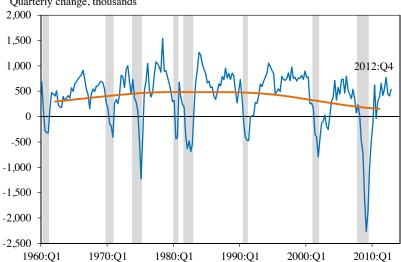
Figure 2-17
Employment Percent Growth and Estimated Trend, 1960–2012
Percent change (annual rate)



Note: Shading denotes recession. Trend employment growth was estimated by a smoothed weighted average over a 15-year moving window.

Source: Bureau of Labor Statistics, Current Employment Statistics; CEA calculations.

Figure 2-18
Quarterly Change in Employment and Estimated Trend, 1960–2012
Quarterly change, thousands



Note: Shading denotes recession. Trend employment growth was estimated by a smoothed weighted average over a 15-year moving window.

Source: Bureau of Labor Statistics, Current Employment Statistics; CEA calculations.

force to include, for example, changes in the patterns of consumption as the population ages (Box 2-4).

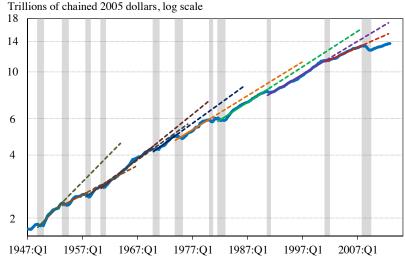
The net effect of the declines in the long-term trends for productivity and employment has been a fairly steady decline in the long-run mean growth rate of GDP over the past 50 years. Indeed, the cyclically adjusted long-term mean growth rate of real GDP fell from 3.7 percent in 1965 to 2.9 percent in 1985 and 2.4 percent in 2005. This steady slowdown is evident in Figure 2-19, in which real GDP is plotted along with trend lines estimated using the quarterly data spanning a full business cycle as dated by the National Bureau of Economic Research (NBER), measured from one business-cycle peak to the next. The slopes of these trend lines are less steep over time; in other words, the trend growth of real GDP has been slowing over this period. Indeed, trend growth has slowed enough that, after every post-1960 recession, real GDP has never attained the previous trend growth line that is implied using data from the preceding business cycle. From this perspective, the slower pace of the current recovery is not unusual or unexpected.

In a November 2012 study of the current recovery, CBO decomposed the growth of real GDP in the 12 quarters following a NBER-dated trough into trend growth plus a cyclical component. It attributed about two-thirds of the difference between the growth in real GDP in the current recovery and the average for other recoveries to slow growth in potential GDP. The CBO study estimated potential real GDP growth—that is, the maximum sustainable rate of growth of real GDP—using a presumed economy-wide production function in which potential GDP varied with the capital stock.

For comparison purposes, the long-term mean growth rate of GDP is computed here using the methodology of Figures 2-16 and 2-17. The results from this analysis are summarized in Table 2-2. As reported earlier, during the first 12 quarters of recoveries from 1960 through 2007, real GDP grew, on average, at an annual rate of 4.2 percent, whereas during the 12 quarters following the trough in the second quarter of 2009, the annual rate of GDP growth was 2.2 percent, or 2.1 percentage points below the 1960-2007 average. The estimated trend growth rate of real GDP since the second quarter of 2009, however, was 2.1 percent, or 1.1 percentage points below the average trend growth during the 1960-2007 recoveries (3.2 percent). Thus, of the 2.1 percentage points of slower-than-average growth in this recovery, fully

⁷ The cycle starting with the peak in the first quarter of 1980 lasted only six quarters. Because it is not meaningful to estimate trends using only six quarterly observations, the cycles for the first quarter of 1980 and the third quarter of 1981 are merged for the trend estimates in Figure 2-19.

Figure 2-19 Real Gross Domestic Product and Trends, 1947–2012



Note: Shading denotes recession. Trend lines represent the average growth rate between successive business-cycle peaks.

Source: Bureau of Economic Analysis, National Income and Product Accounts; National Bureau of Economic Research; CEA calculations.

1.1 percentage points, or 53 percent, can be attributed to the overall trend slowdown in real GDP growth over the past 50 years.8

The 1991 and 2001 recoveries also exhibited slower than average growth in real GDP (Kliesen 2003; Berger 2011; Bachmann 2011). As can be seen in Table 2-2, the slowdown in trend growth accounted for less than one-fifth of the relatively slower growth in real GDP following the 1991 recession (-0.2 percentage point of the gap of -1.1 percentage points). In contrast, slightly more than one-third of the relatively slower growth following the 2001 recession was attributable to the slowing of long-term real GDP growth (-0.5 percentage point of the gap of -1.3 percentage points).

Stock and Watson (2012) also examined reasons why the current expansion has been slower than previous postwar recoveries. They focused on the first eight quarters of the recovery and estimated that 80 percent of the slower growth in real GDP, relative to the post-1960 average for recoveries, reflected a slowdown in the long-term trend growth rate rather than cyclical factors.

⁸ This calculation includes the 12 quarters after all troughs, so that the 1980 and 1982 recoveries overlap. Alternatively, if the 12 quarters following the trough in the fourth quarter of 1982 are dropped, 63 percent of the slower than average growth in real GDP is attributable to a slowdown in trend growth. If instead the 12 quarters following the trough in the third quarter of 1980 are dropped, 47 percent of the slower growth in real GDP is attributable to a slowdown in trend growth.

Box 2-4: Implications of Demographic Trends for Household Consumption

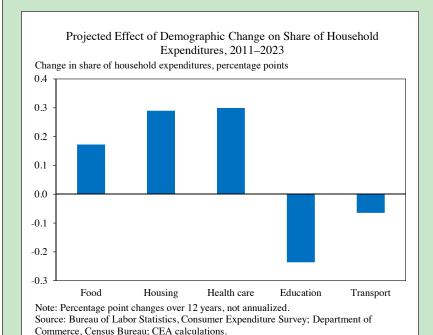
The aging of the U.S. population has two implications for patterns of consumption. First, people purchase different things at different ages; for example, younger households spend more on child care services and clothing, while older households spend relatively more on health care. Second, empirical research suggests that families' total amount of spending changes over time as priorities evolve. Because the age distribution of the population will change over the coming decade as the baby boom generation moves into retirement, these changes in household-level consumption will lead to aggregate changes in the types of goods consumed and, potentially, to changes in the fraction of income spent.

One way to forecast how demographic changes will affect consumption is to use data on a sample of households today to estimate average household consumption within spending categories (clothing, health care, and so on), for each subset of the population defined by age, race, sex, and ethnicity of the household head. Then, one can aggregate these averages using the projected future population for each subset to produce an overall estimate for all households. The Council of Economic Advisers undertook this exercise using consumption data from the Consumer Expenditure Survey and demographic projections from the Census Bureau. As the figure below indicates, demographic changes suggest that a greater share of household income will be spent on health care and housing, and a reduced share on education. In percentage terms, however, these changes are likely to be small.

Households' total consumption also varies over their lifetime. In Milton Friedman's (1957) permanent income hypothesis model of consumption, individuals smooth consumption to match their lifetime income, but doing so requires the ability to borrow against future income, as well as considerable planning and discipline. As an empirical matter, on average, household consumption rises as children grow up and then declines as parents enter into retirement (Attanasio et al 1999; Fernandez-Villaverde and Krueger 2007; Bullard and Feigenbaum 2007). Consistent with this research, CEA projects that the aging population will lead average household consumption to decline over the next decade, with an implied reduction in the growth rate of consumer spending of perhaps 0.1 percentage point a year, relative to a benchmark in which demographics are held constant.

¹ One reason for the decline in consumption upon retirement, at least for some households, is reduced work-related spending such as commuting costs and uniforms, which are counted as consumption expenditures, but such declining work-related expenses do not fully account for this drop.

Many factors other than demographics will also influence future consumer spending. These factors include technological improvements, changes in income and wealth, and changes in the composition of households within demographic groups. In addition, changes in relative prices will affect the composition of spending. For example, if the price of health care increases relative to other areas, and if the demand for health care is insensitive to its price, then the share of spending on health care might be larger than these projections suggest.



In summary, these estimates of the share of the relatively slower growth in real GDP during this recovery which is attributable to a slowdown in long-term trends range from 53 percent, shown in Table 2-2, to 80 percent according to Stock and Watson (2012). This fairly wide range of estimates reflects both inherent difficulties in calculating trend growth rates and conceptual differences among these approaches. ⁹ Taken together, however, these studies suggest that most of the relatively slower growth in real GDP during the current recovery—two-thirds, using the CBO (2012d) estimate, which is also the midpoint of these estimates—has been attributable to the slowdown in long-term trend growth, which, in turn, has been driven largely by demographic changes in the U.S. workforce.

Reasons for the Slower Cyclical Component

If two-thirds of the slower growth in real GDP during the current recovery relative to growth in previous postwar recessions is attributable to the slowdown in underlying long-term trends, then the remaining one-third can be attributed to cyclical factors that are specific to this recovery. This section summarizes four complementary attempts to quantify those cyclical factors: the 2012 CBO study discussed above, an analysis undertaken here of the sources of forecast errors during the recovery, work done on this question by the Federal Reserve as reported by Bernanke (2012b) and Yellen (2013), and the study by Stock and Watson (2012).

The CBO (2012d) study approaches the question of why the cyclical part of this recovery has been relatively slow by identifying those components of GDP that have exhibited unusually slow growth relative to their cyclical pattern. In decreasing order of importance, CBO found that the cyclical contributions to GDP of State and local government purchases, Federal government purchases (primarily defense spending), residential investment, and consumer spending were all weaker than their respective historical averages during the first 12 quarters of this recovery. In turn, CBO attributed the weakness in these components to several underlying factors. For instance, the CBO study highlighted the extraordinary weakness in housing markets during the current recovery. CBO associated the sharp

⁹ In CBO's framework, the increase in long-term unemployment associated with the recession could result in skill deterioration and thereby a decline in potential GDP growth; this general point is also made by Federal Reserve Chairman Ben Bernanke (Bernanke 2012b). Because such declines in potential GDP are an indirect result of the recession, they may be better understood as cyclical rather than long-term trends. The trend estimates in Table 2-2 and in Stock and Watson (2012) are instead based on long-term weighted moving averages; because the resulting estimates are comparable with CBO's, one can infer that this further distinction of a cyclical change in the growth rate of potential GDP is secondary to the long-term demographic and technological trends that drive the growth slowdown.

Table 2-2 Real GDP Growth During Three Years Following Business Cycle Trough

Design on Cools Trough	(percent change at an annual rate)			
Business Cycle Trough	Total	Trend	Cycle	
1991:Q1	3.2	3.0	0.2	
2001:Q4	2.9	2.7	0.2	
2009:Q2	2.2	2.1	0.1	
Average of 7 recoveries, 1960-2007	4.2	3.2	1.1	
Difference from Average	Total	Trend	Cycle	
1991:Q1	-1.1	-0.2	-0.9	
2001:Q4	-1.3	-0.5	-0.8	
2009:Q2	-2.1	-1.1	-1.0	

Note: Trend growth is based on the 15-year moving average smoothed cyclically adjusted growth rate of real

Source: Bureau of Economic Analysis, National Income and Product Accounts; National Bureau of Economic Research; CEA calculations.

fall in house prices with reductions in State and local property tax revenues and the persistent glut of vacant and foreclosed homes with the weakness in residential construction. Similarly, CBO noted that, in contrast to previous postwar recoveries, the ability of monetary policy to spur economic activity has been constrained by the zero lower bound on the Federal Reserve's main policy interest rate during this expansion. The CBO analysis also pointed to low consumer confidence and heightened uncertainty as additional factors that have restrained aggregate demand since the second quarter of 2009.

A second approach to the question of why the cyclical component of this recovery has been slower than that of the postwar average is to examine whether the expansion has been hindered by unexpected events and forces. Specifically, this approach contrasts the actual, realized values for each component of GDP from the corresponding estimates that were forecast at the start of the recovery. Whereas CBO's approach identifies which components of GDP grew more slowly than their historical average, the approach used here is to identify the components that grew either more slowly or more rapidly than was forecast, thereby identifying the unexpected, or unforecast, sources of the slow growth.

Implementing this method of forecast error analysis requires a quantitative model of the U.S. economy. The one used here is developed and maintained by Macroeconomic Advisers (MA). This model is used to decompose the Administration's economic forecast for the FY 2011 Budget, which was made in November 2009. The MA model uses quarterly data to forecast hundreds of macroeconomic variables. By partitioning the variables into groups, it is possible to see how the forecast errors for each group contributed to the forecast errors for GDP. The variables were divided into five categories: international (foreign GDP, exchange rates, oil prices), fiscal (both Federal and State and local), financial and monetary (financial prices, house prices, monetary indicators, credit flows), housing activity, and other.

That Administration forecast overpredicted output growth by a small amount in 2010 and by larger amounts in 2011 and the first half of 2012; in this sense, the recovery was slower than expected. The forecast error decomposition sheds light on the sources of this unexpectedly slow recovery. During the first part of the recovery, the housing sector was weaker than anticipated, and this unexpected weakness more than accounts for the total GDP forecast error in 2010. Early in the recovery, financial and monetary factors buoyed economic activity relative to the forecast, presumably because the forecast did not fully capture the stimulative effect of nonstandard monetary policy, which was unprecedented and thus difficult to incorporate quantitatively into the forecast. Moving farther out in the forecast, however, the outlook for consumption turned overly optimistic, possibly reflecting an underestimation of the degree of deleveraging as households reduced the amount of new debt they took on and paid down existing debt. This shift in the consumption outlook explains a substantial part of the overall forecast error for both 2011 as well as the first half of 2012. Finally, deteriorating international conditions, largely owing to events unfolding in Europe, added further unanticipated drag in 2011 and especially in the first half of 2012.

These results complement Chairman Bernanke's (2012b) and Vice Chair Yellen's (2013) analyses of the relatively slow growth in the cyclical component of GDP during this recovery. In particular, Chairman Bernanke pointed to unexpected headwinds from the prolonged recovery of the housing sector, the lingering effects of the financial crisis, and the fiscal and financial problems in Europe. Yellen also noted the restraint on consumer spending from the large loss of wealth during the recession. Both emphasized the unexpectedly large declines in the State and local government sector. Indeed, Yellen estimates that, once the drag from the State and local government sector is included, the net fiscal stimulus to the economy was less in the current recovery than it was on average for prior postwar recoveries.

Stock and Watson (2012) also addressed the question of why the cyclical component of the recovery has been slower than the postwar average. In contrast to the two approaches discussed above, Stock and Watson focused on the forecasts of eight-quarter GDP growth from the vantage point of the trough. They found that these forecasts predicted slower-than-average cyclical growth during this expansion. These slow growth forecasts stem from the shocks that produced the recession, which they identify as primarily financial factors (such as borrowing constraints) and uncertainty. Thus, the Stock and Watson analysis is consistent with the Reinhart and Rogoff (2009) view that recoveries following financial recessions typically exhibit slower growth than those following other kinds of recessions. In contrast to Stock and Watson's approach, Hall (2012) used a stylized macroeconomic model to distinguish between the deleveraging effect of cutting back on consumption to rebuild wealth and the liquidity effect of higher borrowing costs, which would arise from tightened lending standards. He concluded that both effects were important during the recession, but that the deleveraging effect was short-lived, whereas the liquidity effect has been more persistent and continues to restrain investment and to contribute to the slow cyclical component of GDP.

Although the CBO analysis, the forecast error decomposition, the analyses by Bernanke and by Yellen, the study by Stock and Watson, and the study by Hall produced different numerical estimates of the causes of the relatively slow recovery, these analyses point to a common understanding of why the cyclical component of the current expansion was slow relative to previous recessions: a financial crisis that led to reductions in the ability of households and small businesses to borrow, spend, and invest; a weak recovery of the housing sector as a result of the excess inventory of vacant, foreclosed, and distressed properties; a decline in State and local spending and employment; monetary policy restrained by the zero lower bound on the Federal Reserve's main policy interest rate; and in more recent stages of the recovery, the detrimental effects of a global slowdown on U.S. economic activity. Against all of these headwinds, the stimulus from Federal fiscal policy actions and aggressive unconventional monetary policy contributed positively to the cyclical component of the recovery.

OUTLOOK FOR 2013 AND BEYOND

The Administration's economic forecast was finalized in mid-November 2012, a schedule that is dictated by its role in supporting the Administration's outlook for the FY 2014 Budget, and will be released later this year in conjunction with the Budget.

Consensus-based forecasts—that is, forecasts that combine multiple, survey-based individual forecasts (e.g., the mean or median)—typically outperform the constituent individual private forecasters' forecasts of macroeconomic variables such as GDP and the unemployment rate (Clemen 1989; Aiolfi, Capistrán, and Timmerman 2011). Consensus forecasts are thus worth following. In February 2013 the Blue Chip consensus of professional forecasters projected that real GDP would increase 2.4 percent over the four quarters of 2013, faster than the 1.6 percent gain recorded in 2012. The Philadelphia Federal Reserve Bank's Survey of Professional Forecasters (SPF) also projected a 2.4 percent increase in 2013. For 2014, the Blue Chip consensus and the SPF consensus forecast that the economy will continue to strengthen and that year-over-year real GDP growth will increase to a 2.8 percent pace.

Looking further ahead, the Survey of Professional Forecasters expects year-over-year growth will pick up to a 2.9 percent pace in 2015 and a 3.0 percent pace in 2016. With these rates of growth, the unemployment rate, which was 7.8 percent during the fourth quarter of 2012, is projected to edge down slowly to 6.3 percent in 2016.

Importantly, most private sector forecasts reflected in the consensus forecast have not incorporated an effect for the across-the-board budget cuts, known as sequestration, which took effect on March 1.10 These cuts will severely reduce both Federal defense and nondefense discretionary spending, with ripple effects throughout the economy. The Congressional Budget Office (2013) and Macroeconomic Advisers (2013) have estimated that, if sequestration were to remain in effect for the rest of the calendar year, it would reduce real GDP growth by 0.6 percentage point during the four quarters of 2013, relative to its path without the sequester. Moody's Analytics (2013) has estimated a reduction in real GDP growth by 0.5 percentage point.

Additionally, CBO (2013) has estimated that sequestration would lead to the loss of 750,000 lost jobs due to the sequester by the end of 2013 compared with a path without sequestration.¹¹ From this perspective, by the end of this year sequestration would set back the recovery by four to five months at a time when the unemployment rate remains unacceptably high. As President Obama has stated, "The longer these cuts remain in place, the greater the damage to our economy—a slow grind that will intensify with every passing day."

Conclusion

While much work remains, the economy is healing and moving in the right direction. The permanent extension of middle-class tax cuts and the increase in rates on the highest-income taxpayers through the enactment of the American Taxpayer Relief Act resolved the uncertainty about future tax rates that overshadowed the economy in 2012 and helped move the U.S. budget toward a more sustainable course. Some of the other headwinds that have restrained the economy during the recovery are also easing, most

¹⁰ In February, 77 percent of Blue Chip panelists reported that their forecasts did not reflect the effects of full sequestration.

¹¹ The Bipartisan Policy Center (2012) estimates that over two years the effect would be 1 million jobs lost compared with the no-sequestration alternative.

notably in the housing sector. While risks remain, these indicators suggest a continued strengthening of the recovery, which in turn provides an increasingly resilient framework for continued progress toward fiscal sustainability and a more durable economy that works for the broad middle class.



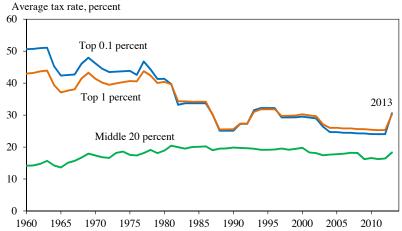
CHAPTER 3

FISCAL POLICY

The American Taxpayer Relief Act of 2012 (ATRA), which was enacted ▲ on January 2, 2013, permanently extended the 2001 and 2003 Federal income tax cuts for 98 percent of taxpayers. The tax relief act reflects the approach supported by the President to reduce the Federal budget deficit an approach that balances responsible reductions in government spending with new revenues and increased progressivity of the tax code. The new law extended the expansions of several tax credits enacted in the American Recovery and Reinvestment Act of 2009 (the Recovery Act) that have provided economic opportunities through tax relief and college expense assistance to 25 million low- and middle-income students and working families each year. In addition, the new law prevented a substantial cut in Medicare physician payment rates, extended emergency unemployment insurance benefits to protect 2 million workers from losing their benefits in January 2013, and permanently indexed to inflation the exemption amounts for the Alternative Minimum Tax (AMT) to provide tax certainty to tens of millions of middle-class families. The permanent fix to the AMT will protect middleclass families from being subject to a tax designed to ensure that wealthy taxpayers pay their fair share in taxes.

Together with the additional Medicare and investment income taxes for high-income taxpayers in the Affordable Care Act (ACA), ATRA has made the Federal tax system more progressive. Figure 3-1 shows the trends in average Federal individual income and employment tax rates by income class. These average tax rates, defined as the share of taxpayer income paid in taxes, are measured by holding the distribution of taxpayer income constant over time (using the 2005 distribution with incomes adjusted for growth in the National Average Wage Index) to isolate the effects of tax law changes. The tax law changes in 2013 increased the average tax rate for taxpayers in the top 1 percent and the top 0.1 percent of the income distribution by 4.9 and 6.5 percentage points, respectively, while leaving individual income tax rates unchanged for 98 percent of Americans.

Figure 3-1 Average Tax Rates for Selected Income Groups Under a Fixed Income Distribution, 1960–2013



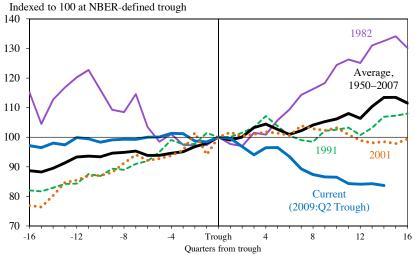
Note: Average Federal (individual income plus payroll) tax rates for a 2005 sample of taxpayers after adjusting for growth in the National Average Wage Index.

Source: Internal Revenue Service, Statistics of Income Public Use File; National Bureau of Economic Research, TAXSIM (preliminary for 2012 and 2013); CEA calculations.

Another recent development in government finance is that the fiscal outlook for State and local governments has improved, although expenditures remain below pre-recession levels and State and local investment spending remains notably low. As shown in Figure 3-2, the continued decline in State and local investment is atypical. In other recoveries, State and local governments' gross real investment was typically flat for several quarters following a business-cycle trough and then increased, but, in this recovery, gross investment has failed to rebound.

This chapter highlights the declining Federal budget deficit since 2009 and the additional work needed to achieve medium- and long-term fiscal health. It then outlines the principles for Federal income tax reform set forth by President Obama in September 2011 and describes specific plans proposed by the Administration to meet these goals. The enactment of ATRA is a step toward achieving these goals, but substantial work remains to make the tax code more equitable and efficient. The chapter also reviews the State and local budget outlook and the Federal Government's role in mitigating the recent recession's effect on government finances at these levels. Finally, the chapter discusses the long-term financial challenge facing State and local governments from the underfunding of pension plans.

Figure 3-2 Real State and Local Government Gross Investment **During Recoveries**



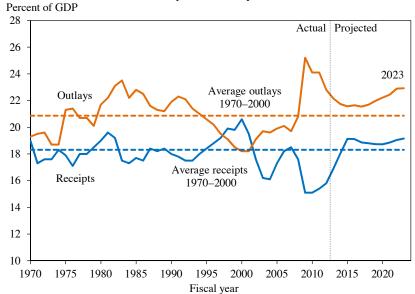
Source: Bureau of Economic Analysis, National Income and Product Accounts; National Bureau of Economic Research; CEA calculations.

THE FEDERAL BUDGET OUTLOOK

The Obama Administration has taken significant steps to restore the country's fiscal health without disrupting the continuing economic recovery. In fiscal year (FY) 2009, the Federal budget deficit was 10.1 percent of gross domestic product (GDP). This ratio fell 3.1 percentage points to 7.0 percent in 2012, the largest three-year reduction in the deficit since 1949. Under current law, the deficit is projected to fall to 5.3 percent in 2013 (CBO 2013). This decline in the deficit largely reflects the wind-down of Recovery Act spending, the reductions in spending set forth in the Budget Control Act of 2011, new revenues as a result of ATRA, and the improved performance of the economy.

The Congressional Budget Office (CBO) projects that Federal receipts will grow by 11 percent to \$2.7 trillion, or 16.9 percent of GDP, in 2013 (Figure 3-3). This is the highest receipts-to-GDP ratio since 2008, but still below the average of 18.3 percent of GDP recorded between 1970 and 2000. As a percent of GDP, outlays are projected to fall from 22.2 percent in 2013 to 21.5 percent in 2017 due in large part to the spending caps put in place by the Budget Control Act as well as reductions in certain mandatory spending as the economy continues to improve. After 2017, outlays will rise, relative to GDP, as interest payments on the national debt increase and as mandatory

Figure 3-3 Federal Receipts and Outlays, 1970–2023



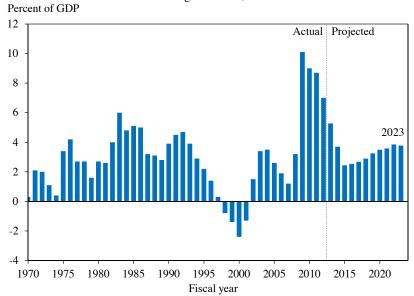
Source: OMB (2012b); CBO (2013).

health and retirement spending grows in accordance with the cost of health care and an aging population. Over the long term, these factors—rising health costs and changing demographics—are the primary drivers of fiscal imbalance (CBO 2012).

The Administration's goal of stabilizing the debt-to-GDP ratio requires reducing the deficit to 3 percent of GDP or lower. Increases in revenues and decreases in outlays in recent years have brought the Federal budget deficit—the gap between outlays and receipts—closer to that target (Figure 3-4). CBO projects that, under current law, deficits will continue to shrink over the next few years, falling below 3 percent of GDP by 2015, but will then increase steadily to 3.8 percent of GDP by 2022. Under current law, publicly held Federal debt is projected to reach 77 percent of GDP in 2023 (Figure 3-5).

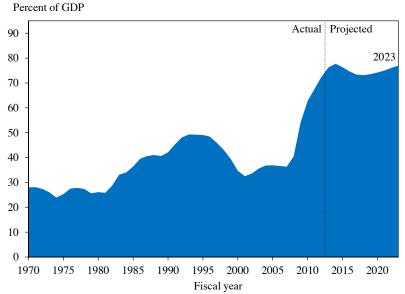
Although enacted legislation and overall economic improvements will help reduce the budget deficit, other structural changes will be needed to achieve fiscal sustainability. The President has put forward a balanced deficit-reduction plan to achieve approximately \$1.8 trillion in savings through a combination of reductions in discretionary spending, savings in entitlement programs, and new revenue raised by reforming tax expenditures and closing tax loopholes. When added to the more than \$2.5 trillion in deficit reduction the President already signed into law, the total deficit

Figure 3-4 Federal Budget Deficit, 1970-2023



Source: OMB (2012b); CBO (2013).

Figure 3-5 Federal Debt Held by the Public, 1970–2023



Source: OMB (2012b); CBO (2013).

reduction would amount to more than \$4 trillion over ten years, a goal set by the President to stabilize the debt-to-GDP ratio and to put the country on a sustainable fiscal path over the next decade.

FEDERAL INCOME TAX REFORM

A fair, simple, and efficient tax code lays the foundation for job creation, economic growth, and an equitable society. Recognizing the crucial role tax reform can play in deficit reduction and economic growth, President Obama set forth a list of principles in September 2011 for comprehensive tax reform. These principles include lowering tax rates, cutting inefficient and unfair tax breaks, observing the "Buffett Rule" to enhance tax fairness, reducing the deficit, and increasing job creation and growth in the United States (OMB 2011).

Because revenue must be raised to finance essential services provided by the government, sound tax policy attempts to raise revenue fairly and efficiently. A number of notions of fairness can help guide tax policy: "horizontal equity" demands equal treatment of equals; the ability-to-pay principle prescribes that a taxpayer's burden should be related to her ability to pay; the benefit principle suggests that a taxpayer's burden should be related to the benefits she receives from government services. Such notions of fairness are often incomplete, and sometimes they are in conflict with each other. Still, these principles can serve as useful guides.

Fairness, however, must be balanced with efficiency. High tax rates, combined with a complex tax system and a narrow tax base (that is, with many deductions, exclusions, or exemptions), provide incentives for tax-payers to shift income between the individual and corporate tax bases, retime income, and alter behavior in other ways to reduce tax liability (Saez, Slemrod, and Giertz 2012). In addition, although tax subsidies could encourage socially beneficial activity or correct market failures, when there are no externalities or other market failures, tax provisions that favor one activity over another can lead to an inefficient allocation of resources.

A key feature of the tax code is the schedule of statutory tax rates on marginal income. To achieve myriad tax, economic, and social policy goals, the tax code also contains a dizzying web of deductions, exemptions, exclusions, credits, and special treatment of certain income. The fact that taxpayers modify their behavior to reap the benefits of special tax provisions is bittersweet. On one hand, it means that well-thought-out tax provisions that are designed to encourage a particular activity are working. On the other hand, a taxpayer determined to avoid liability can engage in tax avoidance

and thereby expend socially unproductive resources navigating the jungle of tax provisions.1

Tax Expenditures

The tax code contains numerous special tax provisions, referred to as "tax expenditures," which lead the tax system to deviate from taxing economic income (Box 3-1). Economic income generally follows the Haig-Simons definition of comprehensive income as consumption plus changes in net worth. Relative to a tax structure built on a comprehensive income measure, tax expenditures erode the tax base, causing the government to forgo revenue, but they provide important tax benefits to individuals and families. How such benefits are distributed over the income distribution varies widely across tax provisions. To assess the distributional effects of a given tax expenditure, the Treasury Department estimated the tax benefits of each major individual income tax expenditure under 2013 income tax law for taxpayers in different income classes.

As illustrated in Figure 3-6, the Earned Income Tax Credit (EITC) and the Child Tax Credit (including the refundable portion) provide substantial benefits to taxpayers in the lowest income quintile but have little impact on the after-tax income of taxpayers in the top three income quintiles. By contrast, the bottom two income quintiles receive almost no benefits from tax expenditures like the charitable giving deduction and deductions for State and local taxes. Almost all of those tax benefits accrue to taxpayers in the top two income quintiles. Middle and upper-middle income taxpayers benefit the most from the exclusion of employer-provided health insurance, whereas taxpayers in the bottom quintile and those in the top percentile of the income distribution receive relatively little benefit from the exclusion.

Because the tax value of deductions and exclusions increases with taxpayers' marginal tax rates, these tax expenditures provide larger benefits to high-income taxpayers than to low- and middle-income taxpayers for a given amount of deductions or exclusions. (For various measures of tax rates, see Economics Application Box 3-1.) In particular, an additional dollar of deductions or exclusions reduces taxable income by \$1 and consequently reduces the liability of taxpayers in the 39.6-percent bracket and 25-percent bracket, respectively, by 39.6 cents and 25 cents. In an effort to improve tax fairness, improve efficiency, and reduce the deficit, the President has proposed to reduce the tax value of selected tax expenditures to 28 percent for high-income taxpayers, a level comparable to the tax value provided by the tax code for middle-income taxpayers.

¹ Behavior that reduces tax remittances without altering real investment, savings, or labor decisions is called tax avoidance when it is legal and tax evasion when it is illegal.

Box 3-1: Estimates of Tax Expenditures in the President's Budget

Tax expenditures, commonly viewed as government spending through the tax code, are defined in the Congressional Budget Act of 1974 as "revenue losses attributable to provisions of the Federal tax laws which allow a special exclusion, exemption, or deduction from gross income or which provide a special credit, a preferential rate of tax, or a deferral of tax liability."

Each year the Treasury Department estimates the value of tax expenditures in terms of the Federal income tax loss and reports the estimates in the annual Budget of the United States Government. Table 17-1 of the President's fiscal year 2013 Budget lists 173 corporate and individual income tax expenditures in the tax code. Tax expenditures take many different forms:

- Exclusions and exemptions allow specific types or sources of income—such as compensation received as medical insurance or interest from municipal bonds—to be excluded or exempt from income for tax purposes.
- Deductions permit taxpayers to deduct certain types of expenses from income to calculate the taxable base. Examples include itemized deductions (which include deductions for home mortgage interest, charitable giving, State and local taxes, and medical expenses) and "above-the-line" deductions (which include deductions for student loan interest, self-employed retirement and health insurance contributions, and educators' out-of-pocket expenses).
- Tax credits reduce tax liability by the amount of the credit. When the amount of a tax credit exceeds tax liability before the credit is applied, the credit will erase the tax liability, and, if the credit is refundable, the government will pay the filer the excess amount. In the Federal Budget, the portion of a refundable credit that reduces tax liability is treated as a revenue loss, and the portion that exceeds tax liability is treated as an outlay.
- Special rates apply a lower tax rate to specific sources of income than the rate applied to ordinary income. For example, long-term capital gains and qualified dividends are taxed at lower rates than ordinary income.
- Deferrals permit taxpayers to delay including certain income in the taxable base. Such tax expenditures include accelerated depreciation

¹ The Joint Committee on Taxation also annually publishes a list of tax expenditures. Tax expenditure estimates do not equal the amount of revenue that would be generated if the expenditure were eliminated for two reasons: first, eliminating a tax expenditure would result in behavioral effects that could offset the revenue gain; second, removing multiple tax expenditures simultaneously creates interaction effects that depend on the particular expenditures.

or immediate expensing of business investment as well as tax incentives for retirement saving.

Table 17-3 of the FY 2013 Budget ranks tax expenditures by projected revenue effect. The 10 largest tax expenditures by the projected revenue effect for 2013-2017 are:2

- Exclusion of employer contributions for medical insurance premiums and medical care (\$1,012 billion)
- Deductibility of mortgage interest on owner-occupied homes (\$606 billion)
 - 401(k)-type plans (\$429 billion)
- Accelerated depreciation of machinery and equipment (\$375 billion)
- Exclusion of net imputed rental income on owner-occupied housing (\$337 billion)
 - Special rates for capital gains (\$321 billion)
 - Defined benefit pension plans (\$298 billion)
- Deductibility of State and local taxes other than on owneroccupied homes (\$295 billion)
- Deductibility of charitable contributions, other than education and health (\$239 billion)
- Exclusion of interest on public purpose State and local bonds (\$228 billion).

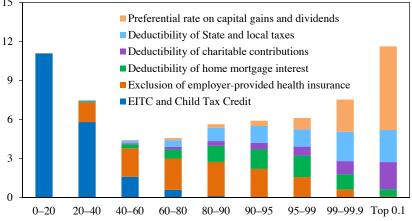
The preferential rate on capital gains and dividends gives rise to tax benefits because these sources of income are taxed at a lower rate than ordinary income.² Of the selected tax expenditures in Figure 3-6, the benefits of the preferential tax rate on capital gains and dividends are most skewed to the upper end of the income distribution. The underlying tax data for Figure 3-6 suggest that taxpayers in the top 0.1 percent of the income distribution receive 41 percent of the total positive capital gains realizations and qualified dividends. Because of this unequal distribution of capital gains realizations and qualified dividends, the preferential rate provides substantially more benefit to the top 0.1 percent of taxpayers than to taxpayers in any other income class.

² The estimates do not include effects on Federal outlays. Refundable tax credits, such as the Earned Income Tax Credit and the Child Tax Credit, can carry significant outlay effects.

² One argument for the preferential rate is that corporations already pay income taxes so individual income taxes on capital gains and dividends result in double taxation. However, evidence shows that not all of the long-term capital gains are attributable to corporate stocks or mutual funds, and therefore some capital gains are never taxed at the corporate level (Wilson and Liddell 2010; Burman 2012).

Figure 3-6 Distribution of Benefits of Selected Tax Expenditures, 2013

Change in after-tax cash income, percent



Pre-tax cash income percentile adjusted for family size

Note: Estimates are the percentage reduction in after-tax cash income (2013 income levels under current law, including ATRA) from eliminating each tax expenditure. Families with negative incomes are excluded from the lowest income class.

Source: Department of the Treasury, Office of Tax Analysis calculations.

Vertical Equity

Vertical equity holds that individuals who have a greater ability to pay should contribute more in taxes than those who are less able to pay (for a discussion of tax fairness, see Economics Application Box 3-1). The President has called one specific formulation of this idea, the Buffett Rule, a basic principle of tax fairness. The Buffett Rule states that no household making over \$1 million should pay a smaller share of income in taxes than middle-class families pay. Several studies have shown that the current tax system violates the Buffett Rule; many high-income families pay a smaller share of income in Federal taxes than do middle-income families (Hungerford 2011; CEA 2012; Cronin, DeFilippes, and Lin 2012). Thus, implementing the Buffett Rule, or adopting the rule as a guiding principle for tax reform, would improve tax fairness.

While the current Federal tax system is progressive, its progressivity has significantly declined since the 1960s. Figure 3-1 above shows that average tax rates for middle-income taxpayers rose slightly in the 1960s and the 1970s and then remained relatively stable since the 1980s. By contrast, Federal tax burdens for the wealthiest taxpayers have dropped dramatically since 1960 as a result of changes in tax laws. The share of income the top 0.1 percent paid in Federal individual income and employment taxes fell to 24.1 percent in 2012, about half of what this group paid in 1960.

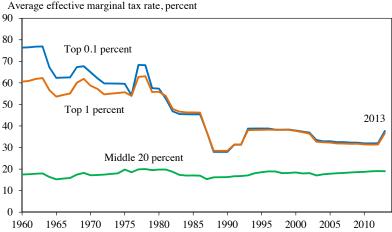
Economics Application Box 3-1: Marginal Tax Rates and Average Tax Rates on Individual Income

Marginal and average tax rates are two tax rates commonly used to describe a tax system and to measure the fraction of income people pay in taxes. A statutory marginal tax rate for an income tax is the tax rate specified by law and applied to one additional dollar of taxable income. A tax system may consist of multiple statutory rates, with each applying to a range of taxable income to form a tax bracket. A taxpayer's statutory marginal tax rate thus depends on the tax bracket in which her taxable income falls. An effective marginal tax rate is the fraction of an additional dollar of income a taxpayer actually pays to the government. The effective marginal tax rate is determined by the statutory rate as well as by other tax provisions, such as phase-ins or phase-outs of tax credits. An average, or effective, tax rate is the fraction of a taxpayer's total income that is owed as tax liability. The share of total income paid in taxes indicates the tax burden faced by a taxpayer.

One criterion for evaluating tax systems is fairness. Economics provides useful tools to help evaluate a tax system's fairness. Two important concepts are horizontal and vertical equity. Horizontal equity means equal treatment of equals, which is commonly interpreted as equal treatment of those with an equal ability to pay; vertical equity holds that those who have a greater ability to pay should contribute more in taxes than those who are less able to pay. To evaluate vertical equity, a tax can be classified as being proportional, regressive, or progressive. A tax is proportional if average tax rates are equal for taxpayers at all income levels. A tax is regressive if average tax rates fall with income, and a tax is progressive if average tax rates increase with income. Under a progressive tax system, high-income taxpayers face a larger tax burden than low-income taxpayers. This notion is long ingrained in economics. In fact, endorsing progressive taxes, Adam Smith wrote in *The Wealth of* Nations that "it is not very unreasonable that the rich should contribute to the public expense, not only in proportion to their revenue, but something more than in that proportion."

Figure 3-7 depicts the trends in effective marginal tax rates on wage income. As shown, effective marginal tax rates faced by middle-income taxpayers have been relatively constant during the past five decades, in contrast with the dramatic decline in the effective marginal tax rates faced by the top 1 percent or 0.1 percent of taxpayers. In other words, taxpayers at the top of the income distribution have always faced higher marginal tax rates on wage income than middle-income taxpayers, but the spread between their marginal tax rates has narrowed significantly since 1960. Before ATRA was

Figure 3-7
Effective Marginal Tax Rates on Wage Income for Selected Income Groups
Under a Fixed Income Distribution, 1960–2013



Note: Average effective marginal Federal (individual income) tax rates on wage income for a 2005 sample of taxpayers after adjusting for growth in the National Average Wage Index.

Source: Internal Revenue Service, Statistics of Income Public Use File; National Bureau of Economic

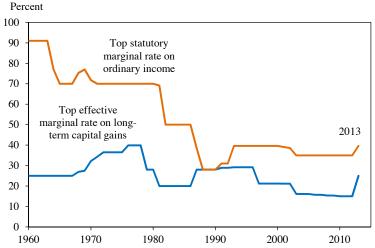
Research, TAXSIM (preliminary for 2012 and 2013); CEA calculations.

enacted, the top effective marginal rate on wage income was close to its lowest level in the past five decades; there was only a short period in the late 1980s and early 1990s when the top effective marginal tax rate was lower than the rate in 2012.

As noted, the preferential rate on long-term capital gains is particularly regressive, and evidence suggests that capital gains realizations have become more concentrated over time. The portion of total capital gains realized by the 0.1 percent of taxpayers who reported the most capital gains income increased from 25 percent in 1987 to over 40 percent in 2010 (Lurie and Pearce 2012). Relative to the increased income concentration, the top effective marginal tax rate on long-term capital gains declined during the period (Figure 3-8). The rate ranged between 20 percent and 30 percent from the 1980s to the early 2000s, fell to 16 percent in 2003, and fell further to 15 percent in 2010 because of the scheduled elimination of the phase-out of itemized deductions under the 2001 tax cut. The rate rose to 25 percent in 2013.

In addition to individual income and employment taxes, the Federal Government collects corporate income taxes and estate taxes. Piketty and Saez (2007) examined the combined effect on vertical equity of Federal individual, employment, corporate, and estate taxes from 1960 to 2004. They argued that corporate and estate taxes substantially contributed to a

Figure 3-8 Top Marginal Tax Rates, 1960–2013



Note: The top rate on qualified dividends is equal to the top rate on ordinary income until 2003; thereafter, it is equal to the top rate on long-term capital gains. The top marginal rates on long-term gains calculated by Treasury include the effects of the Alternative Minimum Tax (AMT) and the phase-out of itemized deductions.

Source: Internal Revenue Service, Statistics of Income; Department of the Treasury, Office of Tax Analysis; CEA calculations.

more progressive tax system in 1960 than in 2004. Because the wealthiest taxpayers own a disproportionately large share of the nation's capital income and wealth, they bear the largest burden of the corporate income and estate taxes.3 The Federal Government, however, has shifted away from relying on these two Federal taxes as revenue sources, leaving taxpayers at the top of the income distribution with a much lower tax burden in 2004 than in 1960. As shown in Figure 3-9, corporate tax revenues as a percent of total Federal receipts declined from 23.2 percent in 1960 to 10.1 percent in 2004. The share for estate and gift taxes declined modestly from 1.7 percent in 1960 to 1.3 percent in 2004 (OMB 2012b).

Efficiency and Simplification

From the current point of a complex tax code with many special provisions, simultaneously eliminating special provisions and lowering tax rates could make the tax code both simpler and more efficient. Cutting unfair and

³ Piketty and Saez (2007) assume the burden of the corporate income tax falls on owners of capital income. Several tax policy groups, including the Treasury Department's Office of Tax Analysis, the Congressional Budget Office, and the Tax Policy Center, assume in their current tax models that the majority of the corporate tax burden—about 80 percent—is borne by capital income, whereas the remainder is borne by labor. Cronin et al. (2013) provide details of the different corporate tax incidence assumptions.

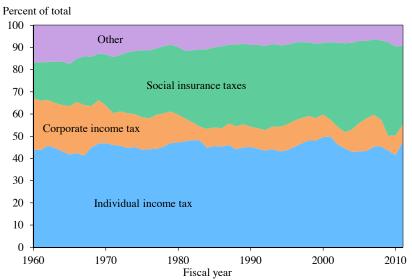
inefficient tax breaks and simplifying the tax system with lower tax rates are among the principles the President set forth for tax reform. High tax rates, coupled with a narrow tax base, cause taxpayers to adopt economically inefficient behavior. When examining the efficiency gains from tax reform, it is important to identify the behavioral margins that are in response to changes in tax policy and the resulting economic effects. In theory, lowering tax rates can lead to an increase in labor supply (or a decrease in labor supply if the income effect dominates the substitution effect), but evidence suggests that, when tax rates change, labor supply effects are small compared with tax avoidance effects (Saez, Slemrod, and Giertz 2012). One such effect occurs when investors delay realizing capital gains and hold onto assets only to avoid capital gains tax. Despite this inefficient "lock-in" effect, negative associations between top individual income tax rates on capital gains and private saving, investment, or changes in real GDP are not supported by U.S. experience (Hungerford 2012; Burman 2012).

When taxpayers make decisions in response to special provisions in the tax code, they engage in more of the tax-preferred activity than they would otherwise, thereby steering resources away from other more productive uses.4 One major unfair and inefficient tax break is the tax treatment of partners' profits interests, also known as carried interests, in an investment partnership. Carried interests, despite being derived from performance of labor services, receive capital gains treatment. This preferential tax treatment provided for income derived from performing a specific activity induces a behavioral distortion and is economically inefficient. To improve fairness and efficiency of the tax code, the Administration has proposed to tax carried interests as ordinary income and subject that income to selfemployment taxes.

In addition, the Administration has proposed to improve the tax code's efficiency by closing business loopholes and broadening the business tax base. For example, corporations currently use life insurance as a form of tax shelter because of its favorable tax treatment. Investment returns on life insurance products are allowed to accumulate tax free until policies are cashed in. As a result, businesses can take interest deductions for investmentoriented life insurance policies that cover their officers and employees before any gain is realized—and taxed—on the policies. The Administration's recent Budget would close this loophole and encourage businesses to make more efficient investment decisions by limiting the interest deductions allocable to investment in certain life insurance policies.

⁴ If the tax-preferred activity is underconsumed or underproduced because of market failures or externalities, then a favorable treatment could increase quantity and result in more efficient allocations of resources.

Figure 3-9 Composition of Federal Receipts, 1960-2011



Note: Other includes excise taxes, estate taxes, customs duties, and other receipts.

Source: OMB (2012b).

The President has also proposed making the Federal subsidy for State and local governments' borrowing costs more efficient by extending Build America Bonds (BABs), in which the Federal Government makes direct payments to State and local governments. Traditional tax-exempt bonds provide a Federal subsidy through a Federal tax exemption to investors for interest income received from the bonds. One study finds that as much as 20 percent of the tax revenue the Federal Government forgoes from tax-exempt bonds accrues to investors, leaving only 80 percent of the subsidy to benefit State and local governments (CBO/JCT 2009).

Complexity is another source of inefficiency in the tax code because it increases the amount of time and money taxpayers spend to comply with the law and creates opportunities for them to engage in the unproductive activity of tax avoidance. It is estimated that complying with the Federal income tax cost businesses at least \$100 billion for tax year 2009 (Contos et al., forthcoming) and individuals over \$50 billion for tax year 2010,5 with the total costs amounting to approximately 1 percent of GDP. Estimating the time and monetary costs incurred by taxpayers for preparing individual income tax returns, an analysis by the Internal Revenue Service (IRS) shows

⁵ The IRS estimates of the business and individual income tax compliance costs include outof-pocket costs and the monetized burden associated with the time spent on preparing the returns.

sources of individual income tax compliance costs by reporting activity (Figure 3-10).⁶ More than half—55 percent—of compliance costs arise from keeping track of and reporting income, and the remaining compliance costs arise mostly from calculations for tax deductions and credits. Thus, tax simplification—such as having fewer deductions and credits or streamlining income reporting—has the potential to reduce compliance burdens. Tax simplification could also enhance taxpayer compliance by reducing the opportunities for tax evasion and decreasing inadvertent taxpayer errors in calculating tax liabilities (Kopczuk 2006).⁷

Reforming the International Corporate Tax

The international provisions of the corporate tax code create opportunities for U.S. companies to reduce their taxes by locating their operations and profits abroad. The tax system is subject to gaming, as corporations manipulate complex tax rules to minimize taxes and, in some cases, shift profit that is attributable to activity performed in the United States or elsewhere to low-tax jurisdictions.

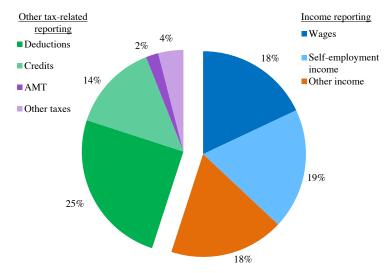
The current U.S. tax system subjects foreign subsidiaries of U.S.-based multinationals to taxes on their overseas income while allowing a tax credit for foreign taxes paid. However, corporations often do not need to pay taxes to the Federal Government on that income until they repatriate it to the United States, a rule called deferral (because it defers taxation of the income). Many companies reinvest, rather than repatriate, a significant portion of their income overseas and, as a result, may never face U.S. taxes on much of that income. The U.S. tax system is often described as "worldwide" because it taxes U.S. companies on profits earned abroad. For many companies, however, opportunities for deferral can make it effectively much closer to a territorial system—a system in which taxes are never paid on foreign income. By contrast, although most other developed countries have taken a territorial approach, some countries, including Japan and the United Kingdom, have implemented tax "triggers" that effectively apply worldwide taxation if a multinational is operating in a low-tax country.

U.S. multinational corporations have a significant opportunity to reduce overall taxes paid by shifting profits to low-tax jurisdictions—either by moving their operations and jobs there or by relying on accounting tools and transfer pricing principles to shift profits. Studies show that U.S.

⁶ Under current law, the IRS is authorized access to Federal tax information for tax administration purposes. Certain Federal agencies have limited access to tax data for governmental statistical use. See Data Watch 3-1.

 $^{^7}$ For example, studies have shown that complexity may have affected EITC compliance and kept eligible taxpayers from claiming the tax credit (Holtzblatt and McCubbin 2004; Kopczuk and Pop-Eleches 2007).

Figure 3-10 Individual Income Tax Compliance Costs by Reporting Activity, 2010



Note: Tax year 2010. The cost of reporting the self-employment tax deduction is included in Other

Source: Internal Revenue Service, Office of Research, Analysis, and Statistics calculations.

multinationals' decisions about the choice of where to invest are sensitive to effective tax rates in foreign jurisdictions (OECD 2008). Evidence also suggests that U.S. firms' reported profits in a foreign country increase when the country's tax rate declines relative to the U.S. rate, after taking into account other factors that would have influenced the level of income earned by U.S. firms in that foreign country (Clausing 2009; Grubert 2012).

The incentive to shift profits to low-tax jurisdictions can lead to inefficient overinvestment abroad and underinvestment in the United States. It can also erode the U.S. tax base, requiring higher tax rates on income that remains taxable in the United States to collect the same amount of revenue. Finally, the international tax system is very complex, which not only burdens companies with complicated accounting and tax requirements but also benefits companies that avoid paying taxes by manipulating intricate rules.

Business tax reform should be a foundation to maximize investment, growth, and jobs in the United States. It should properly balance the need to reduce tax incentives for U.S. companies to locate overseas with the need for them to be able to compete overseas; some overseas investments and operations are necessary to serve and expand into foreign markets in ways that benefit U.S. jobs and economic growth. The President has proposed to protect the U.S. tax base, strengthen the international corporate tax system, and encourage domestic investment by establishing a new minimum tax on

Data Watch 3-1: Federal Tax Information and Synchronization of Interagency Business Data

Each year, the Internal Revenue Service (IRS) collects tax data from hundreds of millions of taxpayers. During fiscal year 2011, more than 200 million individual income, employment, corporate income, and estate tax returns and 1.8 billion third-party information returns, such as W-2 and 1099 forms, were filed with the IRS (IRS 2012). Successful tax administration builds on taxpayers' willingness to share personal information with the tax authority and voluntarily comply with tax law (Greenia and Mazur 2006). To ensure taxpayer confidence in the tax system, the tax code contains provisions to safeguard taxpayer confidentiality by requiring each access to Federal tax information (FTI) to be authorized by law.

Under current law, access to FTI is authorized within the IRS for tax administration purposes; in other limited cases, disclosures of FTI are allowed only for specified information to specific parties for specific tasks. When considering whether to amend the law to authorize a disclosure of FTI, Congress should evaluate several factors, including the potential benefits resulting from the data usage and the risk of compromising taxpayer confidentiality or affecting their willingness to voluntarily comply with tax law.

Tax law currently authorizes disclosure of business FTI for government statistical use. It authorizes disclosure of business FTI-either for corporate or noncorporate businesses—to the Census Bureau but permits disclosure of business FTI to the Bureau of Economic Analysis (BEA) only for corporate businesses. Another Federal statistical agency, the Bureau of Labor Statistics (BLS), currently does not have access to any business FTI. The Census Bureau uses business FTI to construct its business list, and therefore many Census data products are considered to be "comingled" with tax information (Pilot 2011). Because of the access limits on BEA and BLS, the Census Bureau cannot share many of its products with these two agencies, a situation that prevents the three Federal statistical agencies from synchronizing their business data.

Business data are the fundamental elements for measuring national and local economic activity. National and local statistics on income, output, productivity, payroll, and employment are all based on business data collected by these Federal statistical agencies. Policymakers and businesses rely on these statistics to guide their decisionmaking. Thus, improving the accuracy, consistency, and reliability of national and local economic statistics can yield tremendous benefits because policy formation and business decisionmaking will be based on better quality economic statistics.

Greater synchronization of interagency business data could advance the quality of economic statistics. For example, BLS and the Census Bureau currently have different coverage and classifications in their business data. BEA's National Income and Product Accounts (NIPA) produce two measures of national economic activity: gross domestic product (GDP, which uses Census Bureau data as its primary source data) and gross domestic income (GDI, part of which uses BLS data). The two measures of national economic activity differ in part because of discrepancies in the underlying business data. Allowing Federal statistical agencies to share and coordinate business data would help to reconcile these discrepancies and thereby result in a better measurement of economic activity.

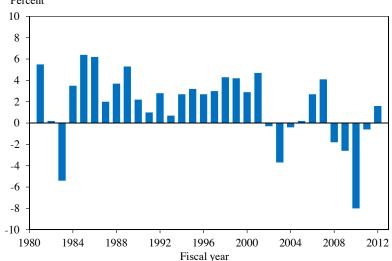
income earned by subsidiaries of U.S. corporations operating abroad (White House/Treasury 2012). That requirement would stop the tax system from rewarding companies for moving profits offshore. Thus, foreign income in a low-tax jurisdiction would be subject to immediate U.S. taxation up to the minimum tax rate, with a foreign tax credit allowed for income taxes on that income paid to the host country. At the same time, this minimum tax would be designed to keep U.S. companies on a level playing field with competitors when engaged in activities that, by necessity, must occur in a foreign country.

THE STATE AND LOCAL BUDGET OUTLOOK

State and local government expenditures have continued to rebound from the challenges created by the Great Recession, although many State and local governments have yet to return to their pre-recession spending and investment levels. State general fund spending grew by 1.6 percent in real terms in FY 2012, after a small 0.6 percent drop in FY 2011 (NASBO 2012a). In the two previous fiscal years, State general fund spending shrunk dramatically, falling by 2.6 percent in FY 2009 and 8.0 percent in FY 2010 (Figure 3-11); the real gain since 1979 has averaged 1.6 percent a year.

As local economic conditions have rebounded, fiscal distress faced by States has abated, although challenges remain. One such indicator of fiscal distress is the need to institute midyear budget cuts in response to lowerthan-expected revenues or higher-than-expected outlays. In FY 2012, just 8 States made midyear budget cuts (\$1.7 billion total), down from 23 States in FY 2011 (\$7.8 billion), 39 States in FY 2010 (\$18.3 billion), and 41 States in FY 2009 (\$31.3 billion).

Figure 3-11
Real Annual Changes in State General Fund Spending, 1981–2012
Percent



Note: Changes are adjusted for inflation using the state and local government implicit price deflator.

Source: NASBO (2012a).

Like State spending, local government expenditures fell sharply during the recession. Constrained by lower revenues, cities cut back on spending more than they have in 25 years (National League of Cities 2012). General fund expenditures dropped at least 4 percent in both FY 2010 and FY 2011, almost twice as much as they did following the recession in FY 2001. Asked how they plan to change expenditures in FY 2012, local government budget officers most often said they would reduce the size of the municipal workforce, followed by delays or cancellations of capital infrastructure projects. The National League of Cities projected that expenditures will finally increase in FY 2012, but only by 0.3 percent, because local government revenues have yet to grow since the recession (National League of Cities 2012).

On the revenue side, State general fund tax revenues are poised to increase by \$26.1 billion in FY 2013 after increasing by \$16.6 billion in FY 2012. In nominal terms, general fund revenues are set to surpass prerecession levels for the first time in FY 2013. The reason for this jump several years after the onset of the national recovery is that State revenues follow a cyclical pattern with macroeconomic growth but often do so with a lag.

Local government tax receipts were also decimated by the recession and have yet to rebound. A projected decrease in city general fund revenues for FY 2012 will mark the sixth consecutive year of year-over-year decreases in revenues, and city budget officers will continue to face lingering

challenges. Each of the primary tax streams used by local governments property taxes, sales taxes, and income taxes—was affected by the economic downturn. Sales tax revenues dropped sharply and first, as consumers cut back on purchases. In 2011 and 2012, however, city sales tax receipts started to rebound, with sales tax revenues increasing year-over-year in both years (Figure 3-12). Because home values fell, cities—many of which rely heavily on property taxes—faced another area of shrinking revenue. The decline in property tax collections came with a lag, however, probably because of the time needed for lower prices to translate into lower assessed values. Property tax receipts fell in 2010 and 2011 and will continue to pose challenges for strapped local governments. Home prices have started to recover, but slowly. Finally, local governments also face lower income tax receipts as unemployment challenges persist.

The Cyclicality of State and Local Government Expenditures

Particular types of State and local government spending are more sensitive to cyclical factors than others. For example, when economic conditions deteriorate, spending on "automatic stabilizers"—programs like Medicaid that provide means-tested benefits-increases. While automatic stabilizers are widely recognized as being countercyclical, less attention has

Percent 10 Sales taxes ■ Income taxes Property taxes 8 6 4 2 0 -2 -4 -6 -8 -10 2005 2006 2007 2009 2008 2010 2011 2012 (budgeted) Fiscal year Source: National League of Cities (2012).

Figure 3-12 Year-to-Year Change in City General Fund Tax Receipts, 2005–2012

been paid to the cyclical behavior of public investment spending. One study by the Government Accountability Office (GAO 2011) examined trends in State and local government spending across the business cycle and found that capital expenditures—primarily spending on land, buildings, and equipment—are more procyclical than other types of spending (Table 3-1). The GAO found that spending on health and public welfare is countercyclical, while current expenditures on elementary and secondary education, current expenditures on highways, and capital outlays are the most procyclical categories of State and local government spending. The GAO noted that trends in capital outlays and current expenditures tend to lag the business cycle by one to two years, although there is substantial variation in the lag for current expenditures by type.

Private economists have reached similar conclusions. Echoing the GAO finding, Wang, Hou, and Duncombe (2007) studied the determinants of capital spending, noting that capital expenditures tend to be more procyclical than current expenditures. The authors cited evidence that States' and municipalities' financing decisions are affected by the business cycle, but the study did not draw conclusions about the impact of the business cycle on the level of capital spending. Similarly, McGranahan (1999) found that capital spending is more procyclical than current expenditures. On average, McGranahan found that each percentage point increase in the unemployment rate leads to a \$6.94 fall in per capita capital outlays (average per capita spending is \$239.85); this drop is split evenly between construction spending (\$3.57) and other capital outlays (\$3.37). Moreover, McGranahan found that even though State operating budgets do not include capital expenditures, States tend to reduce budgetary pressure by reducing capital spending during downturns. Hines, Hoynes, and Krueger (2001) found that all components of State and local government spending are procyclical, with capital spending (on highways, parks, and recreation, for example) generally more procyclical than current spending (on health and education, for example).

Bureau of Economic Analysis (BEA) data on State and local expenditures show that the most recent recession was somewhat atypical, with gross investment failing to rebound as in other recoveries (see Figure 3-2 above). Ideally, State and local governments would increase investment spending during recessions, both as a means of employing capital and labor, thereby helping to drive the economy out of the recession, and also as a mechanism for strengthening the economy in the future. Moreover, lower labor costs during recessions make capital projects relatively cheap, meaning that investment during recessions can provide taxpayers with a higher return on investment; historically low interest rates in recent years have further lowered the cost of capital projects. Greater investment by State and local

Table 3-1 Cyclical Behavior of State and Local Government Expenditures, 1977-2008

Expenditure function	Correlation with GDP	Cyclical behavior
General expenditures	0.34	Procyclical
Capital outlays	0.50	Procyclical
Current expenditures	0.23	Procyclical
Elementary and secondary education	0.60	Procyclical
Higher education	0.29	Procyclical
Health and hospitals	-0.36	Countercyclical
Highways	0.53	Procyclical
Police and corrections	0.38	Procyclical
Public welfare	-0.31	Countercyclical
All other current expenditures	0.40	Procyclical

Source: GAO (2011).

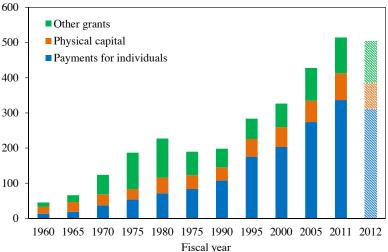
governments in the most recent recession would have both contributed to the recovery and built a stronger economy in future years at a relatively low cost.

Despite the downturn in investment spending relative to past recessions, the procyclical nature of State and local fiscal policy means that Federal policies can prove particularly effective at mitigating the economic effects of a downturn. State and local governments serve a vital role in providing services to their residents, and the Federal Government contributes to that role by aiding State and local governments through grants, loans, and implicit support through the tax system.

Federal grants-in-aid—which include both cash grants and grants in-kind—have been expanding over time.8 In constant dollars (FY 2005), Federal grants to State and local governments increased from \$45.3 billion in 1960 to an estimated \$504.4 billion in 2012 (Figure 3-13). The composition of Federal grants to State and local governments has changed dramatically as well. In 1960, 35.3 percent of Federal grants were for payments to individuals, 47.3 percent were for physical capital, and 17.4 percent were for other uses. As projected, in 2012, the share of grants for payments to individuals grew to 60.2 percent, while the share for physical capital fell to 15.7 percent, and the share for other uses grew to 24.1 percent. Thus, over the past five decades, the share of Federal grants for physical capital has plummeted while the share devoted to individual payments has skyrocketed.

⁸ Federal grants generally fall into one of two broad categories: categorical grants or block grants. In addition, these grants may have characteristics of one or more other types of grants: formula grants, project grants, and matching grants. Categorical grants have a narrowly defined purpose and may be awarded on a formula basis or as a project grant.

Figure 3-13
Federal Grants to State and Local Governments by Type, 1960–2012
Billions of FY 2005 dollars



Note: Grants that are both payments for individuals and capital investment are shown under capital investment. Figures for FY 2012 are estimates.

Source: OMB (2012a).

Federal Grants to States Through the Recovery Act

The Federal Government used the existing grants structure to provide swift fiscal relief during the recent recession—a time when states faced severe and unforeseen economic conditions. It did so through the Recovery Act, which provided enhanced grant funding in the areas of education, Medicaid, transportation, energy, water, and other programs. Most provisions of the Recovery Act expired in 2010, but some were extended in August 2010 by Public Law 111-226, an act providing education and Medicaid assistance to the States. The temporary fiscal relief provided by the Recovery Act accounts for most of the \$141.1 billion increase in Federal outlays for grants-in-aid to States from 2008 to 2010. In 2011, Federal grant outlays were \$606.8 billion; this was a \$1.6 billion decrease from 2010, reflecting the expiration of the temporary increase in the Federal share of State Medicaid costs and other provisions of the Recovery Act. Grant outlays for 2012 are estimated to increase by \$5.7 billion to \$612.4 billion.

However, outlays from grants funded through annual appropriations are estimated to decrease by \$24.9 billion in 2012 from the previous year and to decrease again by \$20.5 billion in 2013. These decreases reflect the

⁹ In addition to grant funding to States, the Recovery Act created Build America Bonds, which provided State and local governments a lower-cost borrowing tool to finance public capital projects. Authority to issue Build America Bonds expired at the end of 2010.

winding down of discretionary grant spending on Recovery Act programs such as the State Fiscal Stabilization Fund as well as the enactment of caps on discretionary spending in the Budget Control Act of 2011, which constrains appropriations of new discretionary budget authority, including appropriations for grants.

By transferring aid to State and local governments, the Recovery Act helped stabilize programs that would have been cut and kept States and localities from having to institute tax increases. Had the Recovery Act not provided grants-in-aid to State and local governments, these governments would have been forced either to make deeper cuts in funding for important public programs, including critical education and health programs (and the associated jobs to support those programs), or to raise taxes to compensate for the shortfall. Either option would have been detrimental to the economic recovery. The billions of dollars provided to State and local governments were one of the reasons the Recovery Act was able to dampen the recession and put the country on a faster track to recovery.

State and Local Pensions

State and local pension plans are an important part of the nation's retirement security framework, promising future retirement benefits to 14.5 million workers employed by State and local governments in 2011 (Census Bureau 2012). About 19 percent of total employer contributions to employee retirement plans were made through State and local pension plans, and approximately 28 percent of all plan assets were accounted for by State and local pensions (CBO 2011). Pension plan contributions make up a significant component of the compensation provided to State and local government workers, including police officers, firefighters, and teachers.

Most State and local plans are defined benefit plans, which provide workers with a designated benefit based on years of service and final salary. 10 For example, a worker covered by a defined benefit plan might earn benefits equal to 2 percent of wages (often measured over the last several years of employment) multiplied by years of work and adjusted for inflation. The structure of defined benefit plans means that employer liability grows as workers earn wages and increase their tenure with State and local governments; this liability can also grow with inflation because the value of a defined benefit plan is often indexed to the cost of living. From this

¹⁰ Defined benefit plans are fundamentally different from defined contribution plans, which allow workers to contribute to an individual retirement account and often offer some form of an employer match. Defined contribution plans do not provide workers with a designated retirement benefit; rather, the individual account balance grows with new contributions and investment returns.

perspective, defined benefit plans can be viewed as a form of deferred compensation, with workers reaching retirement age being owed compensation earned earlier in their career.

Defined benefit programs offer workers a steady stream of income for life, thus providing insurance against outliving assets and investment risk. One drawback to these plans, however, is the problem of underfunding, which presents a serious long-term fiscal challenge for State and local governments. Underfunding arises when the accumulated contributions in State and local government pension accounts are insufficient to cover the expected liabilities owed to public sector workers. The Pew Center on the States estimated that the public pension programs of State and local governments were underfunded by \$757 billion in FY 2010, carrying \$3.07 trillion in liabilities and \$2.31 trillion in assets (Pew Center on the States 2012). Another study showed that the ratio of State and local pension fund assets to liabilities declined from 103 percent in 2000 to 75 percent in 2011, due in large part to market trends and the specific accounting rules adopted by most plans to value assets (Munnell et al. 2012a). While aggregate funding levels have decreased over the past decade, funding adequacy varies considerably from state to state.

Alternative approaches to calculating pension funding suggest even lower levels of funding adequacy. Unlike private pension systems, which are governed by Federal law and regulations, no Federal rules apply to State and local plans in determining plan liabilities and required contributions. Most States and local pension plans adhere to guidelines drafted by the Governmental Accounting Standards Board (GASB) to report funding adequacy, but the board does not have enforcement authority, nor can it require States and localities to adopt specific funding policies. Until June 2012, GASB standards allowed plans to use discount rates based on the expected rates of return-typically around 8 percent-to determine pension liabilities. Under this approach, pension underfunding was about \$700 billion at the end of 2009 (CBO 2011), consistent with the Pew Center's estimate. In sharp contrast, CBO found that a broader measure of liabilities that uses the fair value discount rate, an approach often applied in corporate accounting, produces an underfunding estimate of \$2 trillion to \$3 trillion.

Low levels of funding threaten the welfare of both taxpayers and State and local government employees. One concern is that underfunded pensions will dominate State and local government budgets in upcoming decades, as an increasingly high share of revenue may be needed to provide retired government workers with promised benefits. If taxpayers must devote higher revenue to paying promised benefits to retired workers, less funding may be available for key programs like elementary education, health care,

and infrastructure development. From another perspective, underfunded pensions may also pose a risk to government employees, who may see their benefits challenged as a means of achieving cuts in government spending.

Increased transparency in the budget process is a key step toward improving the adequacy of State and local pension funding. One important strategy often proposed to increase transparency is for State and local governments to adopt discount rates for liabilities that accurately portray the magnitude of their promised obligations. Critics of the old GASB discount rate argued that the high discount rate of around 8 percent ignored the role of asset risks in calculating the present value of future promised benefits. Economists often argue that pension liabilities should be discounted by the riskless rate of return because the payments to retired workers will be made with certainty (Novy-Marx and Rauh 2011).11

Under the new discount method approved by GASB, plans will project the portion of pension liabilities that are backed by underlying plan assets (that is, the funded portion) and the portion of liabilities that need to be covered by other resources (that is, the unfunded portion). The new standards allow States and localities to use a roughly 8 percent discount rate for funded liabilities but require the use of a riskless discount rate for pension liabilities that are unfunded (NASBO 2012b). With the new GASB standards, the estimated funding ratio of State and local pension plans would have been 57 percent in 2010, markedly lower than the 76 percent estimated under the previous method (Munnell et al. 2012b). 12 Once State and local pension underfunding is better understood through heightened reporting transparency, State and local governments might be more willing to undertake difficult financial decisions and pension reforms to shore up their pension plans.

¹¹ In a sample of 77 municipal plans, the discount rate ranged from 7.5 percent to 10.0 percent, with a median of 8.0 percent (Novy-Marx and Rauh 2011).

¹² This rate change incorporates the effects of the new discount method and other pension accounting reforms approved by GASB.



CHAPTER 4

JOBS, WORKERS AND SKILLS

The future of the American economy depends critically on our workers and their skills, especially in today's global economy. For the past three decades, American workers have faced a challenging job market. Computers and robots now perform routine tasks, reducing demand for workers in many industries and occupations. In addition, advances in communication technology and low transportation costs have enabled many production jobs to be performed in lower-wage countries abroad. The United States needs to invest in the skills of its workforce to engage effectively in the global competition for good jobs, especially in high-end manufacturing. The Nation also needs to produce and attract highly skilled workers who lead innovation, entrepreneurship, and growth.

Aside from the "skills" challenge, the United States, like many other advanced economies, also faces a "demographic" challenge. Rising longevity and lower birth rates have increased the average age of the population and reduced population growth. Even though the United States is in a relatively strong position compared to many other developed nations in this regard, the latest Census estimates project that the prime working-age population, defined as individuals aged 25–54, will continue to decline as a share of the total population, falling from 40.5 percent in 2012 to 37.9 percent by 2040. By affecting the size of the labor force as well as the ratio of retirees to the working-age population, ongoing demographic changes have a direct impact on the long-run growth of the economy.

This chapter begins by describing the demographic and labor force trends that pose challenges in the near future. It next turns to education and the steps the President has taken to ensure that all Americans have access to the education and training they need to succeed in the changing labor market. The chapter ends with an overview of immigration and its potential to help address both of the challenges ahead—the need for more workers and the need for a more skilled, innovative, and entrepreneurial workforce.

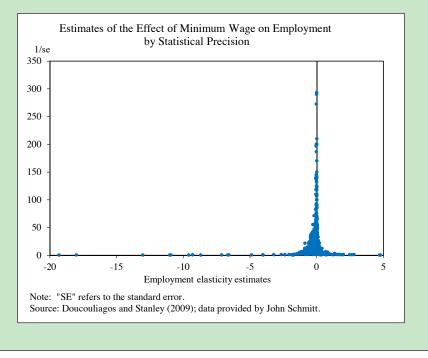
Box 4-1: Minimum Wages and Employment

In his State of the Union address, delivered on February 12, 2013, President Obama called on Congress to raise the Federal minimum wage from \$7.25 to \$9.00 in stages by the end of 2015 and index it to inflation thereafter. His guiding principle was that in the wealthiest nation in the world, no one who works full-time should have to live in poverty. By way of example, President Obama noted that a full-time worker making the minimum wage earns \$14,500 a year. Even with the tax relief for lowerincome workers that exists in current law, a family with two children and one minimum wage income still lives below the poverty line. Raising the minimum wage to \$9.00 would raise the wages of approximately 15 million workers. In addition to making America a magnet for jobs and equipping workers with the skills they need, ensuring that hard work leads to a decent living is a cornerstone of the President's vision to build a stronger economy.

Economists have long studied how the minimum wage affects employment and the economy. A comprehensive survey article written in 1982 concluded that a 10 percent increase in the minimum wage lowers teen employment by 1 to 3 percent. While this reflected the opinion of most economists at the time, the consensus view among economists has since shifted as more evidence has accumulated. Indeed, by the early 1990s time-series estimates of the effect of the minimum wage on teenage employment were turning up statistically insignificant effects (Wellington 1991). The 1999 Economic Report of the President concluded that "modest increases in the minimum wage have had very little or no effect on employment."

The shift in consensus reflects two decades worth of studies that have made some methodological advances in the field. Since the 1990s, after the shift in the time-series evidence, economists have used differences across states in the level and timing of changes to minimum wage laws to study the effect of the minimum wage on employment of low wage workers (Card 1992). This approach arguably produces more robust estimates than the previous time-series approach of relating changes in nationwide teenage employment to movements in the federal minimum wage because it allows researchers to do a better job of controlling for other factors, such as underlying economy-wide trends, that might also affect low-wage employment. A further refinement of the state-level analysis is to focus more specifically on comparisons of adjacent states, which has the advantage that underlying economic trends are more likely to have had similar effects on nearby states (Card and Krueger 1994). A particularly compelling recent study takes this approach a step further by comparing all contiguous county-pairs in the United States that are located on the opposite side of a state border (Arindrajit Dube, T. William Lester, and Michael Reich 2011). The authors show that workers benefited in states that increased their minimum wage, such as California, Rhode Island, New York, Vermont, and Washington, relative to similar workers across the state borders. The study concluded, "For cross-state contiguous counties, we find strong earnings effects and no employment effects of minimum wage increases."

A meta-analysis by Doucouliagos and Stanley (2009) of 64 studies on the minimum wage published between 1972 and 2007, encompassing over 1,000 estimates, finds that most estimates are concentrated around zero, indicating no detectable effect (see figure). The authors conclude that the available research finds "no evidence of a meaningful adverse employment effect" of the minimum wage.



Commonsense immigration reform can be a key contributor to future economic growth and job creation.

DEMOGRAPHIC AND LABOR FORCE TRENDS

The U.S. adult civilian non-institutional population stood at 237.8 million in 2010 and is projected to reach 263.0 million by 2020, growing at a projected annual rate of 1.0 percent, down from 1.1 percent in the 2000s and

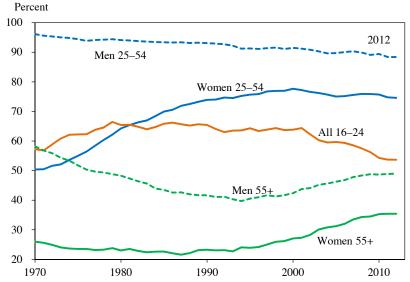
1.2 percent in the 1990s. Further, the share of older Americans is projected to grow over the 2010-20 period, with the number of individuals aged 55 and older increasing 2.6 percent a year, while the number of 16-24 year olds remains roughly constant and the size of the working-age population grows by just 0.3 percent a year (Toossi 2012). These population projections reflect the aging of the baby-boom generation born between 1946 and 1964. Because older men and women are considerably less likely to participate in the labor force than younger individuals, these demographic trends imply that the fraction of the population in the labor force will fall. This trend has already begun.

After increasing at a steady clip for two and half decades starting in the mid-1960s, labor force participation exhibited slower growth during the 1990s and began to fall during the 2000s. The overall labor force participation rate (LFPR), which peaked at 67.1 percent in 2000, fell to 63.7 percent in 2012. Approximately half of this decline can be attributed to the aging of the population and the retirement of the oldest members of the baby-boom generation together with long-term declines in labor force participation among several of the groups shown in Figure 4-1 not related to cyclical factors (see Table 2-1 in Chapter 2).

As the figure illustrates, participation rates have fallen for all major demographic groups since 2000 with the exception of men and women aged 55 and older. The LFPR for younger men and women fell in the 2000s, although the decline for men is a continuation of a long-term trend, whereas the gradual decline for women in the 2001-07 recovery is a new development that reverses a long period of rising participation. The labor force participation rate for 16-24 year olds has dropped precipitously since 2000 after trending down since 1980.

Recent studies suggest two different explanations for the declining trend among teens and young adults. On the one hand, the increasing monetary return to educational attainment has made it more likely that young people enroll in school rather than become employed. One recent study found that while about two-thirds of the decline in participation among teens stems from an increasing share of teens enrolled in school, an additional portion is due to declining participation among those enrolled in school (Aaronson, Park, and Sullivan 2007). To the extent that young people are forgoing work for education, the decline in their labor force participation is less of a concern because they are acquiring skills that will raise their productivity when they do enter or return to work. Less optimistically, other researchers have argued that competition for low-wage jobs has been a major cause of the decline in the teen LFPR, with low-skilled adults now filling jobs that teenagers used to take (Smith 2011).

Figure 4-1 Labor Force Participation Rate by Population Group, 1970–2012



Source: Bureau of Labor Statistics, Current Population Survey, Annual Social and Economic Supplement; CEA calculations.

On the other end of the age spectrum, older workers have increased their labor force participation. Researchers have identified rising education levels and the growth of white-collar and service jobs as important explanations. Other plausible explanations that have not yet been investigated fully are improved health and reductions in the value of retirement savings (Blau and Goodstein 2010; Maestas and Zissimopoulos 2010).

The labor force participation of working-age men has declined steadily since the 1970s. One likely factor behind this trend is that real wages have declined for less skilled men. Since the early 1970s, the average real wage has fallen about 25 percent for high school dropouts and about 15 percent for high school graduates with no further education (Acemoglu and Autor 2011).

The pattern for women has been different. During the 1970s and 1980s, the economy benefited greatly as married women entered the labor force and increased potential and actual gross domestic product (GDP). As Figure 4-1 above illustrates, the growth in female labor force participation abated in the early 2000s. Different forces appear to be at work for different groups of women. Gains in employment for less educated women during the 1990s were encouraged by policy changes (for example, the Earned Income Tax Credit and welfare reform) and by strong economic growth that was not sustained in the early 2000s. Highly educated women, particularly mothers, have pulled back from the pattern of large increases in labor force participation observed in the 1970s and 1980s. Lack of hours flexibility and the challenges inherent in balancing career and family appear to be important factors for these women.

A Slowdown in Women's Participation Rates

Table 4-1 reports participation rates of working-age women in selected years that correspond to peak years of the business cycle and thus allow a focus on long-term trends. From 1969 to 1989, the labor force participation rate of working-age women increased 24.5 percentage points. The most dramatic changes in participation have occurred among married women, and more starkly, among married mothers. The LFPR among married mothers increased an astounding 31.4 percentage points from 1969 to 1999. Growth among all working-age women was slower during the 1990s, but the LFPR for working-age women increased another 4 percentage points to 77 percent in 1999. As the table shows, however, since 1999, the participation rate for these women has declined, falling to 75.6 percent by 2007.

Figure 4-2, which compares the participation rates of women born in different periods, provides insight into the rise and subsequent stagnation of participation among married mothers. Among women born between 1936 and 1945, labor force participation is moderately high at younger ages, drops during the peak child-bearing years, exhibits a subsequent reprise in mid-life, and finally declines as retirement approaches. The curve tends to rise across successive generations of women, indicating higher participation rates for each successive cohort, and the dip associated with child-bearing ages has largely disappeared. The rise in participation, however, appears to have stopped with the most recent generation. Given this pattern across birth cohorts, it is difficult to be optimistic about future increases in the labor supply of prime-age women. New birth cohorts work no more than the immediately preceding cohort at the same ages, and it is therefore unlikely they will work more at later ages. The gains during the 1970s and 1980s achieved from the increased participation of married mothers appear to have come to a standstill and perhaps even partially reversed.

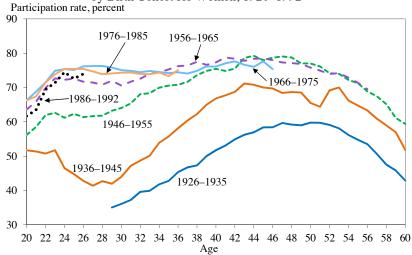
What has brought about this change? One candidate explanation that labor market prospects have declined for women in the 2000s—cannot be the whole story, since participation has fallen even among groups for whom average wages have risen. For example, according to one recent investigation, the average weekly wage of women aged 25-39 with a college degree increased 2.4 percent from 1999 to 2007, after adjusting for inflation, even as the share of this group who are employed fell 3.0 percentage points (Moffitt 2012).

Table 4-1 Labor Force Participation Rate of Women Aged 25-54, 1969-2007

	Percent				
	1969	1979	1989	1999	2007
Prime-Age Women	48.8	62.1	73.3	77.0	75.6
Marital Status					
All married	43.5	57.4	70.2	74.1	73.3
Widowed/divorced	69.6	73.4	78.4	81.6	79.0
Never married	80.5	80.8	81.8	82.6	79.9
Marital status and presence of children					
Married mothers	40.8	54.4	67.8	72.2	71.6
Widowed/divorced mothers	65.5	70.9	76.1	82.5	81.2
Never-married mothers	50.4	57.6	64.0	78.4	75.4
Race					
White	47.6	61.6	73.3	76.9	75.6
Black	58.7	66.5	74.1	79.6	77.8
Other	49.1	62.3	69.5	71.4	72.1
Education					
High school dropouts	45.0	48.7	51.3	56.1	53.2
High school graduates	49.8	62.7	73.4	75.2	73.2
Some college	48.2	66.9	78.3	80.2	79.1
College graduates	58.2	74.9	83.4	84.3	81.8

Source: Bureau of Labor Statistics, Current Population Survey; CEA calculations.

Figure 4-2 Age-Specific Labor Force Participation Rate by Birth Cohort for Women, 1926-1992



Source: Bureau of Labor Statistics, Current Population Survey, Annual Social and Economic Supplement; CEA calculations.

The one subgroup of women most likely to have been affected by declining labor market prospects is never-married mothers, a population that tends to have lower levels of education and correspondingly lower wages. As Table 4-1 illustrates, the labor force participation of these women rose dramatically from 64.0 percent in 1989 to 78.4 percent in 1999. One factor contributing to this increase was the 1996 welfare reform act, which replaced the welfare entitlements embodied in the old Aid for Families with Dependent Children with more temporary and conditional assistance under the Temporary Assistance to Needy Families program (Blank 2002; Moffitt 2003; Grogger 2003). Another important factor was the expansion of the Earned Income Tax Credit (EITC) in 1986, 1990, and 1993, which made work more attractive and encouraged the entry of low-wage workers into the labor force (Eissa and Liebman 1996; Meyer and Rosenbaum 2001). The impacts of these program and tax changes were amplified by the strong labor market of the second half of the 1990s, a situation that was not sustained as labor markets weakened in the 2000s. The further expansion of the EITC under the Recovery Act and the American Taxpayer Relief Act, and increasing and indexing the minimum wage as proposed by President Obama, would be expected to encourage greater labor force participation for this group in the future.

Work Schedules and Workplace Flexibility

Recent studies that examine the career trajectories of highly educated women in business and law provide some perspective on the challenges women face as they attempt to balance career and family. One study followed a cohort of University of Chicago graduates who had earned a master's in business administration (Bertrand, Goldin, and Katz 2010). While male and female graduates started their careers with similar earnings, 17 percent of the women were not working at all 10 years later, compared with only 1 percent of the men. In addition, only 62 percent of female graduates were working year-round full-time 10 years after graduation, compared with more than 92 percent of the men. The lower levels of work among these career-minded women generally were associated with motherhood, suggesting that workfamily balance issues played a role.

One way that women (and others with family responsibilities) may achieve greater flexibility for juggling these competing demands is to work part time rather than full time during some periods. Traditionally, however, given that part-time jobs tended to pay lower wages, the fact that women were more likely to be in part-time work was thought to be a major impediment to women gaining equal pay (Blank and Burtless 1990; Manning and Petrongolo 2008; Bardasi and Gornick 2008). In some cases, however,

offering part-time work—and greater hours flexibility more generally—may be seen by employers as a way to attract highly qualified workers, especially highly qualified women who might otherwise choose not to work.

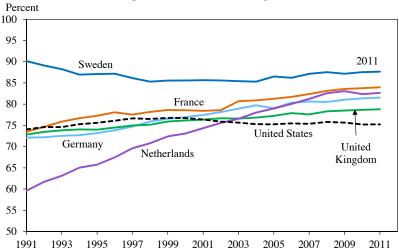
Other advanced economies appear to be offering a different mix of work schedules and employment opportunities. Figure 4-3 shows a comparison of labor force participation rates for women, 25-54 years old, in selected advanced economies. While participation rates in France, Germany, and the United Kingdom were slightly below the U.S. rate in 1991, they were higher than the U.S. rate by 2011. Much of the rapid rise in the European participation rates for working-age women has come from increases in parttime work. In contrast, women in the United States are more likely either to work full-time—defined as 35 hours or more a week—or not to work at all. Figure 4-4 shows that, among the selected countries, U.S. women are still the most likely to work full-time.

The labor force participation rate and average hours worked among those who do participate can be used to calculate average hours worked per woman across countries. In 2005-09, women worked an average of 26.8 hours a week in the United States, more than the average of 26.4 hours per capita in France, 24.4 in the United Kingdom, 22.3 in Germany, and 20.2 in the Netherlands. The U.S. average, however, was down from 27.4 hours a week in 1995-99, while women's hours worked had risen in all the other countries.

A recent study by Blau and Kahn (2013) noted that in 1990, the United States ranked 6th among 22 developed countries in women's labor force participation, but by 2010 the United States had fallen to the 17th position. Blau and Kahn found that the increased prevalence of "family-friendly policies"—parental leave as well as part-time work entitlements—in other developed countries can account for up to 29 percent of the decline in U.S. women's LFPR relative to other countries. Among the countries shown in Figure 4-3, the greatest change in labor force participation for prime-age women occurred in the Netherlands, where the rate rose by nearly 20 percentage points between 1991 and 2011. During this period, the Netherlands instituted laws that mandate equal pay per working hour regardless of total weekly hours worked. These requirements were accompanied by other laws that establish employees' right to request changes in their weekly working hours or request parental leave on a part-time basis (OECD 2012a). As Data Watch 4-1 highlights, the United States lags behind in the availability of both paid and unpaid leave.

One question is whether rising labor force participation comes at a cost. In particular, women in other developed countries could be accepting lower wages in exchange for being able to work part-time or having access

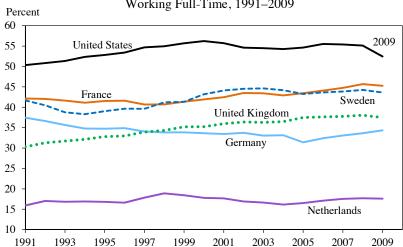
Figure 4-3 Labor Force Participation Rate of Women Aged 25–54, 1991–2011



Note: Workers on leave are considered employed. The participation rates in the KILM data are harmonized to account for differences in national data and scope of coverage, collection and tabulation methodologies, as well as for other country-specific factors such as military service requirements.

Source: International Labour Organization, Key Indicators of the Labor Market (KILM).

Figure 4-4
Percent of Women Ages 25 Years and Older
Working Full-Time, 1991–2009



Note: Full-time is defined as 35 hours per week or more. Workers on leave are considered employed. The participation rates in the KILM data are harmonized to account for differences in national data and scope of coverage, collection and tabulation methodologies, as well as for other country-specific factors such as military service requirements.

Source: International Labour Organization, Key Indiciators of the Labor Market (KILM).

to other forms of workplace flexibility. Contrary to this notion, however, gender wage gaps are actually smaller in other developed countries than in the United States. For example, in 2010, the female-to-male hourly wage ratio was 77.7 percent in Germany, 78.7 percent in the United Kingdom, 81.9 percent in the Netherlands, 84.4 percent in France, and 84.4 percent in Sweden. In all of these countries, part-time work and other types of workplace flexibility, such as paid parental leave, are more available than in the United States, where the female-to-male hourly wage ratio was 75.0 percent. Part of what lies behind this phenomenon is that the wage distribution is more compressed in these other countries (Blau and Kahn 2003). Although women in the United States and France are at similar percentile positions of the overall wage distribution relative to their male counterparts, for example, wage compression translates into a much smaller gender wage gap between the average working man and woman in France compared to the United States. Comparisons across countries also suggest, however, that it is not inherently the case that greater flexibility implies lower wages.

Other recent work comparing wages and hours flexibility across occupations also challenges the notion that hours flexibility necessarily comes at a cost. Goldin and Katz (2012) provide an illustrative case study of the pharmacist occupation, where consolidation brought about by scale economies led to the rise of large retail giants. The new market structure made it possible for two part-time pharmacists to substitute for one full-time pharmacist, creating a much more flexible work environment for women. Notably, part-time pharmacists earn no less per hour than full-time pharmacists in contrast to other occupations employing female college graduates where working part-time is associated with wages as much as 20 percent lower. Among women aged 35-39 with pharmacy degrees, only 12 percent were not in the labor force, compared with 18 percent among other college graduates. The study also found that only 11 percent of women with active pharmacy licenses ever had a spell out of the workforce. Given this pattern of continuous participation, female pharmacists are likely to work more over their lifetimes than other women who start working long hours but drop out altogether mid-career as they face the often stark choice between work and family.

To be sure, not all occupations can easily accommodate flexible hours. There is some evidence, however, that even in fields such as medicine, where part-time work is rare, jobs may be evolving to accommodate more flexible schedules (Goldin and Katz 2011). More flexible schedules also seem to be gaining acceptance in the business community (CEA 2010). As more businesses adopt these practices, the cost to any one firm of their adoption will be lowered. An individual employer may be less likely to offer flexible work

Data Watch 4-1: New Evidence on Access to Paid Leave

The traditional family today is vastly different than it was decades ago. In contrast to 1975, when just 43 percent of women with children were working, nearly two-thirds of women with children were at work in 2010. The juggling of work and family is not a challenge for women alone. Among married households with children, 60 percent had two working parents. In addition, Americans are getting older. With an aging population, working families will face growing challenges in providing eldercare in the years to come. Access to paid leave and scheduling flexibility can help families deal with these challenges.

Each of the President's Budgets since FY 2011 has proposed money for a State Paid Leave Fund at the Department of Labor that would provide competitive grants to help cover start-up costs for states that choose to launch their own paid leave programs. The value to families of paid leave is illustrated by California's experience with its Paid Family Leave (PFL) program. Since 2004, employed individuals in California have been able to take up to six weeks of paid leave to spend time with a newborn or a newly adopted child or to care for a seriously ill relative. During this time, workers receive payments through the State Disability Insurance system for up to 55 percent of their earnings. A recent study found that the California program more than doubled the overall use of maternity leave, increasing it from around three to six or seven weeks for the typical new mother, with especially large growth among less advantaged mothers, while also raising the hours and wage incomes of employed mothers in the affected group by 6 to 9 percent (Rossin-Slater, Ruhm, and Waldfogel 2011).

The President's FY 2011 Budget included funding to add a module to the American Time Use Survey (ATUS) asking workers about the leave policies at their place of work. The module had questions on leave access, leave use, and unmet need for leave. Because the ATUS is linked to the Current Population Survey, rich data are available on the characteristics of people surveyed. The ATUS survey also provides much-needed information on workers' ability to adjust their schedules or location or to work from home, as well as other dimensions of workplace flexibility that can help in balancing work and family obligations.

This new survey indicates that a large fraction of American workers still lacks access to paid leave, including paid sick leave and paid family leave for the birth of a child. In addition, only 53 percent of the workers reported that they had the ability to adjust their schedule or work location. Previous studies using the National Compensation Survey have shown large disparities in access to paid leave by level of earnings. The new data confirm these findings and, in addition, document large disparities in access to paid leave and scheduling adjustments across education groups and between Hispanics and non-Hispanics (see table). Those in the top quartile of earnings are 1.7 times as likely to have access to paid leave as workers in the bottom quartile (83 percent vs. 50 percent). College-educated workers are about twice as likely to have access to paid leave as workers without a high school degree (72 percent vs. 35 percent). Only 43 percent of Hispanics have access to paid leave, compared with 61 percent of non-Hispanics. Although a large and roughly similar share of workers in most groups has access to unpaid leave, that is a poor substitute for paid leave that can be taken when the need arises.

Access to I	eave by	Selected	Characteristics	2011

	Percent			
	Access to paid leave	Access to unpaid leave	Access to schedule adjustment or location	
Total	59.0	76.6	55.9	
Gender				
Male	60.3	75.4	55.5	
Female	57.5	77.9	56.3	
Race/Ethnicity				
White only	58.9	76.9	56.6	
Black only	60.6	76.7	49.8	
Asian only	62.2	72.1	59.8	
Hispanic	43.0	71.2	48.2	
Non-Hispanic	61.4	77.4	57.1	
Education				
Less than high school	34.9	70.4	37.6	
High school	61.1	75.8	48.2	
Some college	66.4	78.2	55.8	
Bachelor's or higher	71.6	75.3	60.5	
Weekly Earnings				
\$0-\$540	50.1	78.0	47.2	
\$541-\$830	77.1	78.9	48.8	
\$831-\$1,230	81.3	74.9	51.4	
\$1,230+	82.7	75.4	59.9	

Notes: Education breakdown is only for individuals age 25 and over. Each earnings range represents approximately 25 percent of full-time wage and salary workers (except self-employed incorporated workers) who held only one job.

Source: Bureau of Labor Statistics, American Time Use Survey, Leave Module; CEA calculations.

schedules when other firms have not adopted the same practice out of the fear that it will attract less committed workers. This situation is similar to health insurance, where before enactment of the Affordable Care Act, a firm might not have offered health insurance in an environment where employerprovided health insurance was rare out of the fear that it would attract the least healthy workers. If all firms engage in the practice, the risk to any one firm is lowered.

Such developments may well provide a boost to the economy. Women received a majority of both bachelor's degrees (57 percent) and master's degrees (60 percent) awarded in 2010. Educational attainment commands a high return in an increasingly knowledge-based economy. It is in society's collective interest to encourage women to make full use of these educational investments by remaining in the labor market where the return to their jobrelated skills can be realized.

GOVERNMENT AS A PARTNER IN HUMAN CAPITAL AND SKILL FORMATION

Overwhelming evidence shows that the average return to obtaining a college education is large. In 2011, the median weekly earnings of individuals with a bachelor's degree was \$1,053, compared with \$638 for individuals with only a high school diploma—a 65 percent premium for the college graduate. A bachelor's degree is also the gateway to other advanced degrees that command even higher earnings premiums (Figure 4-5). The premium for college and beyond has been rising since 1980 and has continued to increase, albeit at a slower rate than in the 1980s (Acemoglu and Autor 2011). Because the number of college graduates also has been increasing over this time, the rising premium is a signal that the economy is demanding still more college graduates.

From a national perspective, an educated workforce is vital. The productivity of a nation's labor force is a key input into future economic growth, and the most direct prescription for increasing labor productivity is investment in skills. The United States has historically been a leader among developed countries in the share of its population with postsecondary education (referred to by the Organisation for Economic Co-operation and Development as "tertiary" education). That standing has fallen over the past generation, with the United States now ranked 14th among a set of 34 industrialized nations in the share of 25-34 year olds with such education (OECD 2012b). While other measures can be used to assess a nation's ability to educate its workforce—including measures of educational quality, test scores, and how well people with skills are matched to jobs that can make use

Less than high school High school Some college Associate Bachelor's Master's Professional Doctoral 500 1.000 1,500 2.000

Figure 4-5 Median Weekly Earnings by Education Level, 2012

Note: Data are for full-time wage and salary workers, 25 years and older. Source: Bureau of Labor Statistics, Current Population Survey.

of them—the fall in the U.S. postsecondary education ranking is a reminder that we have more to do to provide America's workers with the skills to compete in today's economy.

Median weekly earnings, dollars

Early learning and the quality of education from kindergarten through high school (K-12) are key determinants of successfully completing a college degree. Study after study finds that early life conditions have persistent and large effects on later life outcomes such as high school graduation rates, employment, and earnings (Cunha and Heckman 2008; Cunha, Heckman, and Schennach 2010; Almond and Currie 2011). In his State of the Union address delivered to Congress on February 12, 2013, President Obama proposed to work with states to make high-quality preschool available to every single child in America. Four years ago, the President launched the Race to the Top competition, which has proven to be successful in convincing states to develop smarter curricula and higher standards for grades K-12. In his 2013 State of the Union address, the President announced a new challenge to high schools to partner with colleges and employers to better equip students with the problem-solving and math skills that are in demand in today's hightech economy.

President Obama wants to make the United States the leader in postsecondary attainment. In his address to Congress on February 24, 2009, he set 2020 as the year by which the Nation would once again have the highest

proportion in the world of young people graduating from college. The U.S. Department of Education projects that the share of college graduates will need to increase by 50 percent to achieve this goal. That means 8 million more young adults will need to earn associate degrees, bachelor's degrees, and meaningful postsecondary certificates by 2020. To achieve this ambitious goal, the higher education system must undertake far-reaching reforms to improve college readiness, widen access, ensure quality, promote affordability and value, and accelerate completion. Colleges and universities in every state have a vital role and a unique opportunity to help America again lead the world in college attainment.

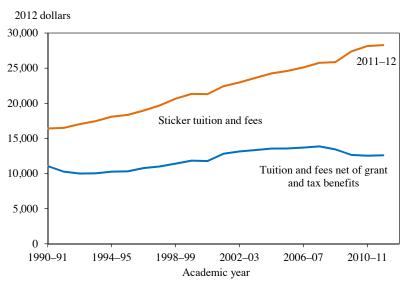
Giving America's workers the skills to compete for good jobs will require the necessary resources to educate millions of additional students. Unfortunately, State and local government support for higher education—traditionally the cornerstone of public higher education funding—has been falling for at least a decade. From 2000 to 2010, State appropriations for public four-year institutions fell from \$8,029 to \$6,388 per full-time student, while appropriations for public community colleges fell from \$7,095 to \$5,712 (in 2010 dollars). This sharp drop in State support has left postsecondary institutions in need of alternative revenue sources, including additional tuition dollars. In fact, in 2010, for the first time ever, public research and master's institutions received more revenue from tuition than from State appropriations. While State appropriations fell only 0.4 percent in 2012, the effects of budget cuts stemming from the economic downturn are expected to last for some time.

Sticker tuition is the price of tuition advertised by the individual colleges. Net tuition is the price students actually pay after deducting Federal, State, and private aid, as well as various discounts offered by the institutions themselves. Between 2000 and 2012, sticker tuition increased from \$4,860 to \$8,370 (in 2012 dollars) per full-time student at public institutions, an increase of \$3,510, and from \$21,310 to \$28,280 at private institutions, an increase of \$6,970 (Figure 4-6). Net tuition per full-time student has increased much less than sticker tuition, going up \$1,260 at public institutions and \$820 at private institutions over this period. The relatively modest increase in the net cost of attending college resulted in large part from Federal policies aimed at reducing the price of education. President Obama has worked to expand these Federal programs. Expanded Pell Grants made college more affordable for 9.4 million low-income students in 2011

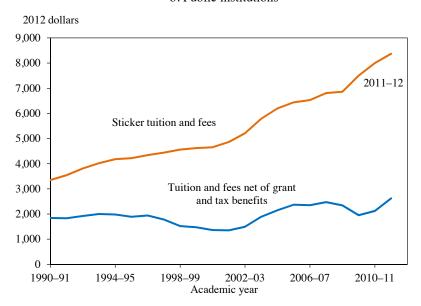
¹ States provide substantially less appropriations to private institutions on a per-student basis. State funding for private institutions was more stable over this period. For example, state appropriations per full-time student rose from \$513 to \$523 at private research institutions and fell from \$537 to \$288 at private master's institutions. (College Board 2010). See: http:// chronicle.com/article/State-Spending-on-Higher/136745/

Figure 4-6 Tuition and Fees for Full-Time Undergraduate Students, 1990-2012

a. Private institutions



b. Public institutions



Source: The College Board, Annual Survey of Colleges, Trends in Student Aid (2012).

(2.4 million more than in 2009), and the establishment of the American Opportunity Tax Credit (AOTC) has lowered the cost of attending college for millions more.

Expanded Pell Grants

Pell Grants are the foundation of the Nation's efforts to make college affordable for students from lower- and middle-income families. Pell Grants help more than 9 million Americans a year pay for college, but the purchasing power of these grants has diminished over time. Recognizing the importance of the Pell Grant program to so many people, President Obama worked aggressively to increase the maximum award. The Health Care and Education Reconciliation Act, signed into law in 2010, raised the maximum grant from \$5,550 for the 2012–13 academic year to \$5,975 in 2017–18. The Act invests approximately \$40 billion a year in Pell Grants to ensure that all eligible students receive an award and that these awards will be increased in future years to keep pace with inflation. These steps, together with the funding provided in the American Recovery and Reinvestment Act of 2009 (the Recovery Act) and President Obama's first two Budgets, more than doubled the total amount of funding available for Pell Grant awards.

President Obama also took steps to stabilize Pell Grant funding. In the past, the budgeting process for Pell Grants often led to funding shortfalls, as Pell Grant funding is subject to the annual appropriations process rather than financed through mandatory funding. The appropriations bill that funds Pell Grants for the upcoming academic year is passed almost a full year before the funds become available, and thus the funding is established before it can be clear what the program will cost. The recent shortfall was expected to be particularly severe because of the large number of students qualifying for the award. The Act covered the expected funding shortfall and much of the recent growth in Pell costs, putting the program on a sounder footing going forward. The Act increased investments in Pell Grants by reforming existing student loan programs to deliver loans directly to students instead of subsidizing banks through the more costly Federal Family Educational Loan program. Direct student loans are more efficient and affordable for taxpayers, and the reform allowed more than \$60 billion to be reinvested in Pell Grants and other programs that support and sustain college access, while cutting billions from the national deficit (CBO 2010).

Expanded American Opportunity Tax Credit

Tax credits for higher education expenses were substantially expanded by President Obama in the Recovery Act. Before 2009, taxpayers could claim either the Lifetime Learning Credit or the Hope Scholarship Credit toward

higher education expenses. The Recovery Act established the American Opportunity Tax Credit, an expanded version of the Hope Credit. The AOTC offers a larger maximum benefit, makes more middle-income taxpayers eligible, and is partially refundable. These provisions substantially enlarged both the pool of taxpayers eligible for education tax credits and the amount of money available to qualifying taxpayers.²

In 2010, the AOTC was one of the most widely used education tax incentives, with 11.9 million taxpayers (8.3 percent of all taxpayers) claiming the credit (Table 4-2). The AOTC benefits totaled \$12.3 billion, likely making the credit more important to college affordability than all other education deductions and credits combined. The benefits of the AOTC were spread throughout the income distribution with low- and middle-income families receiving substantial benefits. Seventy-nine percent of the beneficiaries had household incomes below \$100,000, and 13.1 percent of beneficiaries had household incomes below \$25,000. The refundable aspect of the AOTC was particularly beneficial to low-income households. In 2010, AOTC benefits claimed as refundable credits were worth a total of \$6.0 billion to American households, with those benefits flowing overwhelmingly to households with incomes under \$50,000. The majority of beneficiaries of the refundable portion of the AOTC-63.6 percent-had household incomes under \$25,000. In recent budget negotiations, the Administration achieved an agreement with Congress to extend the AOTC for an additional five years. If the AOTC program had been allowed to expire, 11 million college students and their families would have seen tax increases averaging \$1,100. President Obama has called on Congress to make this tax credit permanent so that families can plan ahead and count on this credit for all four years of college.

Aggregate Student Loan Debt

While net tuition has risen considerably less than sticker tuition, for some low- and middle-income families, even the rise in net tuition may have put a quality education out of reach; for other students, the rise in college costs has led to substantially higher levels of borrowing. Aggregate student debt has grown steadily, from \$241 billion in the first quarter of 2003 to \$966 billion in the fourth quarter of 2012 (in dollars not adjusted for inflation). In contrast, after increasing earlier in the 2000s, aggregate amounts of other types of consumer debt, including mortgages, home equity loans,

² The AOTC is available to taxpayers with income below \$90,000 (\$180,000 if married), offering a maximum credit amount of \$2,500 per student for the first four years of postsecondary education; students must be enrolled at least part-time and be pursuing a degree to be eligible. The AOTC is 40 percent refundable, meaning that taxpayers with no tax liability can claim up to \$1,000 toward higher education expenses.

Table 4-2 Education Tax Incentives: The American Opportunity Tax Credit, 2010

Income Class	Returns	Amount (thousands of dollars)	Percent of income class benefitting	Percent of total benefit
\$0 to \$24,999	2,829,111	1,605,855	4.8	13.1
\$25,000 to \$49,999	3,628,972	3,579,601	10.5	29.2
\$50,000 to \$99,999	3,628,533	4,500,639	11.8	36.7
\$100,000 to \$199,999	1,776,318	2,582,592	12.4	21.0
\$200,000 or more	4,122	3,385	0.1	0.0
All returns, total	11,867,055	12,272,073	8.3	100.0

Source: Internal Revenue Service, Statistics of Income.

and credit card and auto debt, have fallen since the financial crisis (Figure 4-7).³ In fact, more student loan debt is now outstanding than either credit card debt or auto loan debt; only the mortgage debt category is larger. This rise in aggregate student loan debt, coupled with an increase in the share of student borrowers in delinquency status, has focused growing attention on student borrowing.

The rise in aggregate student debt—apparent even after adjusting the figures to account for inflation—has been driven partly by increased enrollment in postsecondary education (Figure 4-8). Between 1990 and 2012, the number of students attending college increased from 13.8 million to 21.0 million. From this perspective, the rise in aggregate student debt is partly the result of increased investment in human capital, which can be expected to lead to higher wages in the future and to a more prosperous standard of living for the cohorts who have been entering the labor market. The rise in aggregate student debt also reflects increases in the share of students who take out student loans and increases in the amount they borrow. Total borrowing has fallen in the aftermath of the financial crisis, and some of the increase in student debt may reflect families taking out student loans rather than home equity lines of credit to pay for college, but concern has been expressed about the increase in student debt.

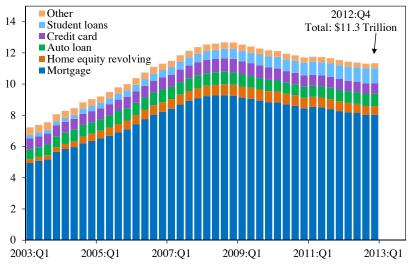
Among students who received a bachelor's degree from a four-year public college between academic years 1999–2000 and 2010–11, the share who took out student loans rose from 54 percent to 57 percent. More importantly, the average loan amount rose by 16.1 percent, from \$20,500 to \$23,800 (in constant 2011 dollars). Sharply rising student loan debt not only threatens the financial stability of recent graduates but also may serve as a disincentive for younger students who are deciding whether to invest

³ Aggregate mortgage debt peaked in 2008:Q3, home equity debt peaked in 2009:Q1, and auto debt, credit card debt, and other debt peaked in 2008:Q4.

Figure 4-7 Compositions of Household Debt Balance, 2003–2012

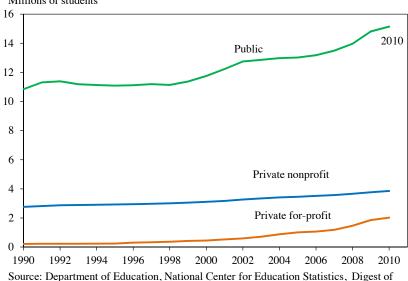
Trillions of dollars

Education Statistics (2011).



Source: Federal Reserve Bank of New York, Quarterly Report on Household Debt and Credit.

Figure 4-8
Total Postsecondary Enrollment by Type of Institution, 1990–2010
Millions of students



Jobs, Workers and Skills

in their future and obtain a college degree. To help protect taxpayers, borrowers, and the broader economy against the threat of rising student loan delinquencies, the Administration has advanced several polices designed to make it easier for students to pay back their education loans and to hold schools accountable for poor student debt outcomes after graduation.

Income-Based Repayment

Since 2009, responsible former students have been able to enroll in an Income-Based Repayment (IBR) plan to cap student loan payments. In October 2011, the Administration announced a new "Pay As You Earn" option that will reduce monthly payments for about 1.6 million current college students and borrowers; eligible borrowers include those holding any type of Federal student loan, such as Stafford, PLUS, and consolidation loans (nonfederal loans and loans in default are not eligible). Starting in 2012, the new IBR option has allowed eligible students to cap their annual loan payments at 10 percent of their discretionary income. The amount that an eligible student borrower is required to pay each month is based on adjusted gross income (AGI) and family size. Specifically, the maximum monthly payment equals 15 percent of the difference between AGI and 150 percent of the poverty threshold for a given family size, divided by 12. Eligible borrowers never have to pay more than the maximum monthly threshold; if a borrower's monthly payments are higher than this threshold, they may apply to have their monthly payments lowered. Ultimately, IBR helps responsible student loan borrowers continue to make payments on their student loans at a manageable rate. As of November 2012, the Department of Education estimated that approximately 1.37 million borrowers are participating in the IBR program.

Federal Loan Consolidation

The Administration also took important steps to allow student borrowers to better manage their debt by consolidating their Federal student loans. Starting in January 2012, an estimated 6 million current students and recent college graduates were eligible to consolidate their loans as a Direct Loan, and by so doing, reduce their interest rates. Before this policy change, approximately 5.8 million borrowers had both a Direct Loan and a Federal Family Education Loan. These loans require separate payments making borrowers more likely to default. By consolidating these loans, borrowers could achieve the convenience of a single payment to a single lender. Borrowers who took advantage of this consolidation option also received up to a 0.5 percentage point reduction in their interest rate on some of their

loans, which means lower monthly payments that may save each borrower hundreds of dollars in interest over the life of the loan.

The Growth of For-Profit Colleges

Although they still account for only a small fraction of all postsecondary education students, for-profit colleges are the fastest-growing type of postsecondary school. They offer both an opportunity and a challenge for America's system of higher education. For-profit colleges have been shown to be flexible and innovative in meeting the needs of many postsecondary students, especially those who seek a nontraditional education or who require flexible arrangements for receiving their education, such as on-line and evening courses. Many for-profit colleges respond quickly to the changing needs of employers, and they can play an important role in helping more Americans earn college degrees. However, the experiences of some students at for-profit schools have been a cause for concern.

For-profit colleges have shown mixed outcomes with respect to completion rates relative to other types of institutions. For-profit completion rates in one- and two-year programs tend to be higher than completion rates for similar programs at other schools, but completion rates in for-profit bachelor programs are significantly lower. Low graduation rates not only waste taxpayer funds devoted to subsidizing the cost of education but can lead to prolonged financial hardship for students who borrow to finance their education but do not gain a college diploma to add to their earning potential.

Students at for-profit schools are about twice as likely as other students to be idle-not working or enrolled in school-six years following matriculation. In 2009, 23.6 percent of enrollees at for-profit schools were idle six years later, compared with just 10.6 percent of matriculating students at four-year public and nonprofit private schools, and 13.3 percent of matriculating students at two-year public and nonprofit private schools. As a result, the average annual earnings of for-profit graduates are about \$2,000 less relative to their counterparts at other types of schools, after accounting for differences in student characteristics (Deming, Goldin, and Katz 2012). Yet another study that uses detailed data to take account of differences in student characteristics found large and significant earnings benefits from obtaining an associate degree from public and nonprofit institutions but not from for-profit institutions (Lang and Weinstein 2012).

Given the higher tuition costs at many for-profit institutions, students at these schools also leave with substantially higher debt than their counterparts at public and nonprofit schools. In 2007-08, 53 percent of bachelor's degree recipients at some for-profit four-year schools had accumulated more than \$30,500 in debt, compared with 24 percent of graduates at private nonprofit schools and just 12 percent of public school graduates (Baum and Steele 2010). Default on student loans is a much more serious problem at for-profit schools. For fiscal year 2009, the three-year "cohort default rate," which measures the percentage of borrowers who enter repayment with student loans and default over a three-year period, was 22.7 percent among for-profit students, compared with just 7.5 percent for private nonprofits and 11 percent for public institutions (Department of Education 2012).

Gainful Employment

In 2010 and 2011, the Obama Administration issued a broad set of rules to strengthen occupational higher education programs at for-profit, nonprofit, and public institutions by protecting students from aggressive or misleading recruiting practices, providing consumers with better information about the effectiveness of such education and training programs, and ensuring that only eligible students or programs receive aid. One notable provision in this set of regulatory reforms was the "gainful employment" rule, which made occupational programs ineligible for Federal aid if they failed to meet a set of tests related to students' financial situations after graduation. While many occupational and for-profit institutions have pioneered new ways to reach adult students, offer online education, and meet the needs of employers, some programs have left students with large debts and poor employment prospects. Specifically, the rule stated that programs could become ineligible for financial aid if fewer than 35 percent of graduates were actively repaying their student loans; graduates were spending in excess of 30 percent of their discretionary income on student loan payments; and graduates were spending more than 12 percent of their total income on student loan payments. The gainful employment provisions were intended to align institutional incentives with the interests of students, by conditioning eligibility to receive Federal aid on student outcomes. In June 2012, a Federal judge vacated the key provisions of the gainful employment rule on the grounds that there was no factual basis for the rule's 35 percent repayment standard and that the better-grounded debt-to-income ratio standards were so intertwined with the repayment standard as to invalidate the whole rule. The Department of Education has appealed a portion of the judge's decision, asking that schools continue to be required to report information about their students' loan repayment rates and debt-to-income ratio to the Department even if this information is not used to determine eligibility for Federal funds. The Obama Administration remains committed to the principles of accountability and transparency in the use of taxpayer funds in occupational higher education programs and will continue efforts to

provide students with good information about the quality and value of such programs.

What Is Driving Up Tuition Costs?

One often-posed explanation for the increase in tuition costs is that colleges require skilled labor inputs-highly educated instructors-and as education premiums rise, so do the costs of these skilled labor inputs. This explanation—an example of the Baumol's cost disease (Economics Application Box 4-1)—may be a contributing factor at private colleges but is unlikely to be the major part of the story at public institutions. Over the period 2000-10, average full-time faculty salaries increased 2 percent at public four-year colleges and actually fell at community colleges. Instructional spending as a share of total costs has been falling at public colleges as institutions seek to cut costs by substituting non-tenured and adjunct faculty for full-time tenure-track faculty. Evidence is mixed on whether this compositional shift has hurt learning outcomes with some arguing that graduation rates have suffered while others find no measurable changes. But, faculty salaries have not driven up costs.

So, what is driving up tuition costs? A recent survey article by economist Ronald Ehrenberg suggests that no single answer fits across all institutional types. Different types of institutions—private and public universities engaged in research, private and public institutions largely devoted to teaching, and public community colleges specializing in two-year instructional programs—are subject to different market forces and cost pressures (Ehrenberg 2012).

One driver of costs for many colleges is increased competition for students. The higher education market has been transformed from a statebased model where a majority of students attend local state universities to a more national—even international—market where students search over a large set of options. In this competitive environment, many institutions seek to position themselves as unique by offering an attractive mix of amenities. Published rankings likely contribute to this spending race because expenditures per student and average faculty salaries are often inputs into the rankings. Private research institutions, including the elite private universities, are in the best position to compete in this environment. These universities seek to have the most appealing facilities and the most renowned research faculty, and so at these types of institutions, the rise in tuition reflects rising average expenditure per student. At private research institutions, average spending per full-time equivalent (FTE) student on "education and related" items increased by more than \$10,000, from \$42,449 in 2000 to \$52,710 in 2010, all measured in 2010 dollars. Spending increases have been fairly

Economics Application Box 4-1: Baumol's Cost Disease (or Bowen's Curse) and the Price of Education

In the 1960s, economists William Baumol and William Bowen developed the notion, known as "Baumol's cost disease," that in certain labor-intensive industries—the example they chose was the performing arts—there is less opportunity for productivity gains to reduce labor costs. The number of musicians needed to perform Beethoven's Ninth Symphony is the same today as it was decades ago, but the number of workers needed to produce a single car has fallen considerably. Because markets dictate that wages remain comparable across industries for equally skilled workers, the relative price of products and services in sectors where productivity is stagnant will rise over time. Baumol's cost disease has been cited as a partial explanation for the long-term growth in education costs. Compensation for higher-education faculty and administrators has been rising over time, even though productivity in education has changed very little.

Whether and to what extent Baumol's cost disease plays a role in the continued rise in higher education cost is a topic of much debate. Regardless of its importance as a possible explanatory factor, improved technology and productivity growth offers a potential solution to growth in the cost of college, opening up potential new ways to deliver education. One such innovation is massive open online courses, or MOOCs, that can accommodate tens of thousands of students in a single class. Another promising innovation is courses delivered through a hybrid of online lectures and in-person tutoring. One study that used randomized trials found no significant difference in learning outcomes between traditional face-to-face statistics courses and hybrid online statistics courses, yet costs were lower in the hybrid course. Another study, also using a randomized design, found a slight advantage for live economics lectures over online lectures in the case where all ancillary materials such as web-based assignments and availability of tutors were comparable. The relatively small advantage demonstrated by live lectures, however, suggests there is room for considerable cost saving with relatively little reduction in learning outcomes (Bowen et al. 2012; Figlio, Rush, and Lin 2010).

evenly spread across categories such as instructional expenditures (faculty salaries and benefits), research (grants and contracts as well as matching funds), student services (admissions, registrar, and counseling services), and academic support (libraries and academic computing) (Figure 4-9a). While these increases may look like rising labor costs, spending on physical plant— "operation and maintenance costs"—has also increased. An important

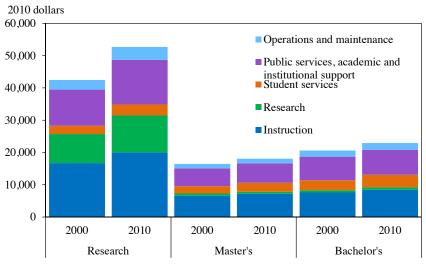
factor for private institutions is "tuition discounting," or the share of each tuition dollar that is returned to students in the form of need-based or merit grant aid. Tuition discounting at these institutions is substantial and increased from 28.6 percent in 2000 to 33.1 percent in 2008. The ability to offer tuition discounts essentially allows institutions to price discriminate in order to obtain a diverse mix of students.

In contrast, at public institutions, where most students enroll, average spending per student has not risen nearly as much, and tuition increases largely reflect institutions' attempts to compensate for declining State support (Figure 4-9b). At public community colleges, the average level of State and local appropriations per FTE student to these institutions fell from \$7,095 in 2000 to \$5,712 in 2010. Other public institutions lie somewhere between these two extremes, with public research institutions looking more like private research institutions, and public master's- and bachelor'sdegree-granting institutions that are more oriented toward teaching looking more like community colleges. Average expenditure per FTE student at public research institutions increased from \$24,178 in 2000 to \$26,971 in 2010. Public research institutions shifted resources away from instructional spending by substituting non-tenured and part-time faculty for full-time, tenured faculty. Meanwhile institutional spending to support research activities increased, likely reflecting the attempt to gather new funding sources such as Federal and private research grants as State and local appropriations decreased. To compete with private universities for faculty who can attract Federal and private grants, public institutions often provide "start-up" research funds and build expensive lab facilities.

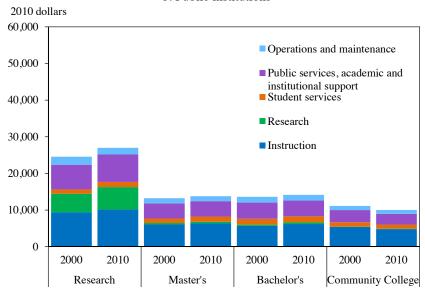
The Administration is committed to keeping college affordable for middle-class families. The Department of Education has released a College Scorecard to provide transparency for families as they evaluate their options for their higher education. The Department, along with the Consumer Financial Protection Bureau, has also designed a College Shopping Sheet to help families and students understand exactly how much money they will owe at each of the schools to which they have been accepted. President Obama has proposed a Race to the Top: College Affordability and Completion challenge to reward States that increase the number of college graduates while containing the costs of tuition. The President has also called on Congress to work with him to hold colleges accountable by considering value, affordability, and student outcomes in making determinations about which colleges and universities receive access to Federal student aid.

Figure 4-9 Average Expenditures per Full-Time-Equivalent Student by Component, 2000-2010

a. Private institutions



b. Public institutions



Source: Integrated Postsecondary Education Data System, Delta Cost Project.

Government as a Partner in Training

As part of the Administration's efforts to prepare workers for America's 21st century economy, meet the needs of local employers, and achieve President Obama's goal of ensuring that every American worker has the opportunity to secure at least one year of postsecondary education, the Department of Labor, along with the Department of Education, launched the Trade Adjustment Assistance Community College and Career Training (TAACCCT) grant program. This \$2 billion initiative expands the capacity of community colleges to provide training and credentials to local workers needed for high-wage, high-skill employment in industries like advanced manufacturing, biotechnology, information technology, and other emerging fields. To date, the Department of Labor has awarded 45 grants to colleges across the nation to develop curricula for advanced manufacturing. For example, the Department of Labor funded the National STEM Consortium, led by Anne Arundel Community College in Maryland. This collaboration of 10 leading community colleges in nine states organized to develop nationally portable, certificate-level programs in science, technology, engineering, and mathematics and is also building a national model of multi-college cooperation in the design and delivery of high-quality, labor-market-driven occupational programs. Spokane Community College, in partnership with 11 other community colleges, worked with aerospace employers including Boeing to design an advanced curriculum in aerospace maintenance and manufacturing. The consortium known as Air Washington has been recognized by the Boeing Company for this curriculum development and for its ongoing assistance to the Boeing Academic Alignment Team. This effort includes the development of a pre-employment program to offer training in basic aerospace-related skills to adult learners, a web-based curriculum component on English as a second language, and assessments of prior learning, particularly for active military or veterans, to evaluate credit and classroom advancements based on military experiences and training. The programs funded by TAACCCT are establishing a national repository of high-quality technical curricula and related materials that can be made available at no charge to community colleges around the country.

Several existing U.S. training consortia provide successful models. Among those worth noting are Project QUEST and the Wisconsin Regional Training Partnership. Project QUEST is a training program in San Antonio aimed at the working poor with high school diplomas. The program works with firms (many of which are hospitals) in the city to identify job openings and the skills required to fill them. The firms then make a good-faith pledge to hire program graduates into jobs that meet living-wage standards and may redesign their jobs to create advancement ladders. The training is

provided by local community colleges and typically lasts a year and a half. The program, which offers modest financial support and extensive counseling to the trainees, is organized and managed by a nonprofit closely linked to a community-based organization. More than 2,000 people have participated in QUEST. An evaluation found that those who completed the program saw their earnings rise by an average of \$5,000 a year (Kochan, Finegold, and Osterman 2012). The Wisconsin Regional Training Partnership was established by unions and firms in Milwaukee in the 1990s and does training for manufacturing and construction. A study with random assignment of participants to treatment and control groups found significant increases in employment and incomes for program participants compared with nonparticipants (Holzer 2011).

Key features of these successful programs are the involvement of industry and worker-focused organizations, along with a commitment to continually evaluate what works and what does not, and a willingness to make adjustments. The involvement of employer groups ensures that the training is relevant; the involvement of worker-focused organizations ensures that workers share in the gains of their improved productivity. Together, the groups can work together to upgrade jobs, rather than taking current job duties and career paths as given. In some cases, as in the Wisconsin program, upgrading has meant calling on other agencies (in that case, the federally funded Manufacturing Extension Program) to help firms upgrade their management, operations, and information-technology practices so that they offer a greater return to skill (Maguire et al. 2010). The programs also have used a variety of tools (focus groups with employers, unions, and workers but also randomized controlled trials) to evaluate their programs, adjusting if necessary based on the results.

IMMIGRATION

We are a nation of immigrants and their descendants. Now, more than ever, the economic and social benefits of immigration loom large. Immigrants increase the size of the population and thus of the labor force and customer base, making an important contribution to economic growth. In 2010, there were nearly 40 million foreign-born people in the United States, representing 13 percent of the population and 16 percent of the workforce. As the United States faces the prospect of a slow-growing population, immigrants are likely to play an increasingly important role in the American economy. Immigrants work in diverse industries and occupations. While they represent 16 percent of the workforce, they account for more than 20 percent of workers in agriculture, construction, food services, and

information technology. They are agricultural laborers, domestic workers, and cabdrivers as well as health care workers, computer software engineers, and medical scientists (Singer 2012). This diversity promotes economic growth as immigrants and natives often specialize in different tasks and occupations.

In addition, many highly skilled workers in the STEM fields are immigrants, and research has shown that these workers contribute importantly to innovation and growth. Many immigrants start businesses and create jobs for American workers. The United States has a distinct advantage compared with other developed nations in that flexible labor markets and robust returns to skills encourage the in-migration of these highly qualified workers. Our open society also allows immigrants to integrate better than in other countries, and we benefit from their vitality and creativity. Commonsense immigration reform can honor America's historical legacy of welcoming those willing to work hard for a better life, while also promoting its national and economic interests.

A Brief History of U.S. Immigration Policy

International migration flows from developing to developed countries are on the rise across the world. According to the latest United Nations estimates, more than 200 million people, or 3.1 percent of the world's population, live in a country that is not their original country of birth. Table 4-3 shows immigrants as a share of total population in selected advanced economies. In addition to the historical immigrant-receiving countries such as Australia, Canada, New Zealand, and the United States, the European Union, Scandinavian countries, and even Russia now have substantial foreign-born populations.4

Between 2001 and 2010, 10.5 million foreign-born individuals received legal-resident status (green cards) in the United States. While this is a large number, Figure 4-10 illustrates that the flow of legal immigrants is only now surpassing levels attained at the turn of the 20th century, when the population was much smaller but immigration was virtually unrestricted. The figure also shows that immigrant inflows, as a share of the total population, are far below the levels reached in the 19th century. In reaction to the large inflows in the early 1900s, particularly from Eastern and Southern Europe, Congress enacted a national quota system in 1921. The 1965 amendments to the Immigration and Nationality Act repealed the national quota system and made family reunification a priority. Under current law, immediate relatives

⁴ The list does not include countries in the Middle East, such as Israel, Jordan, Kuwait, Qatar, and United Arab Emirates that have substantial guest-worker programs and foreign-born populations who generally make up 40 percent or more of the total population.

Table 4-3 Foreign-Born Persons in Selected Countries

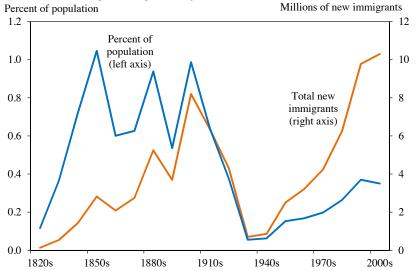
Countries	Percent of To	Percent of Total Population		
Country	1990	2010		
New Zealand	15.5	22.4		
Australia	21.0	21.9		
Canada	16.2	21.3		
Spain	2.1	14.1		
Sweden	9.1	14.1		
United States	9.1	13.5		
Germany	7.5	13.1		
France	10.4	10.7		
United Kingdom	6.5	10.4		
Russia	7.8	8.7		
Japan	0.9	1.7		

Source: United Nations, Department of Economic and Social Affairs, Population Division, Trends in International Migrant Stock (2008).

of U.S. citizens—spouses, minor children, and parents—are not subject to annual numerical limits. For other family members including siblings and adult children of U.S. citizens and spouses and minor children of legal permanent residents, a numerical cap of 226,000 applies. Over the 10-year period from 2002 to 2011, an average of 469,777 immediate relatives of U.S. citizens and an average of 207,927 other family members obtained permanent residency status annually (DHS 2011). As a result of numerical limits and processing backlogs, applications in the "other family member" category have long waiting times. The longest waiting periods are for applications from countries such as China, India, Mexico, and the Philippines; under the law, no more than 7 percent of total family-sponsored visas can be allotted to any single country.

Foreign workers also come to the United States through employmentbased green cards. A maximum of 140,000 employment-based slots for permanent residency are available each year, although the actual cap varies since unused visas in the family program are carried over to the employment system. On average over 2002-11, 157,181 employment visas were issued annually (DHS 2011). Employment-based green cards typically require the worker to have at least a college degree or documented evidence of special skills; only 10,000 employment-based green cards are available to workers without formal education or skill requirements. Individuals can obtain employment-based green cards for making large direct investments in job-creating enterprises, although this category is limited to approximately 10,000 visas.

Figure 4-10 Legal Immigration by Decade, 1820s to 2000s



Source: Department of Homeland Security, Yearbook of Immigration Statistics (2011);

Department of Commerce, Census Bureau.

Foreign-born individuals are also allowed to reside and work in the United States on a temporary basis through several temporary immigrant visa programs. For example, individuals are admitted to work in the agricultural industry (H-2A visas) and other seasonal industries (H-2B visas) for short durations on specific jobs with specific employers. These visas help alleviate peak seasonal demands in certain sectors of the economy but cannot be used to employ less-skilled workers for longer durations. H-1B visas permit temporary employment for skilled professionals who are sponsored by a U.S. employer, typically in science, computer, or engineering occupations. A worker can remain in H-1B status for up to six years. Current law permits 65,000 new H-1B issuances a year, although up to 20,000 individuals who either hold advanced degrees from U.S. universities or are going to work for institutions of higher education or government research organizations are exempt from the cap. Applications for the H-1B visa are accepted starting in April for the following fiscal year. The application window closes when the annual cap is met. Demand for H-1B visas slowed during the recent recession but has picked up again, pointing to increasing demand for workers in the rapidly growing STEM occupations. One study published by the Department of Commerce found that employment in STEM occupations increased 7.9 percent from 2000 to 2010 while employment in non-STEM jobs grew just 2.6 percent over the same period. Moreover, STEM

jobs are projected to grow by 17.0 percent from 2008 to 2018 (Langdon et al. 2011). In 2010, 151,710 foreign graduate students were enrolled in U.S. postsecondary institutions in STEM fields (NSF/NIH 2010). Allowing this population—already here and educated in the United States—to stay by increasing the number of visas available will ultimately position the Nation well in the global competition for new ideas, new businesses, and jobs of the future.

In part because of the limited pathways for less skilled workers to obtain legal status, an estimated 11.5 million foreign-born individuals in the United States are undocumented (Hoefer, Rytina, and Baker 2012). Bipartisan support for strengthened immigration enforcement has resulted in a well-resourced and modernized enforcement system. While effective, the fiscal burden of this system is also substantial. The Border Patrol has doubled in size over the past seven years to 21,370 agents in FY 2012. Spending for the two main immigration agencies—U.S. Customs and Border Protection and U.S. Immigration and Customs Enforcement—surpassed \$17.9 billion in FY 2012, an amount that is higher than all other spending on criminal Federal law enforcement agencies (Meissner et al. 2013). Workplace enforcement, which could alleviate some of the fiscal burdens of border enforcement, has not kept pace. Effective workplace enforcement would entail enabling employers to quickly and accurately verify employees' eligibility by using an electronic employment verification system (E-Verify), and also holding those employers accountable who deliberately break the law by hiring unauthorized workers or violating labor laws.

The Department of Homeland Security estimates that of the 11.5 million unauthorized immigrant population residing in the United States in 2011, approximately 1.3 million were under 18 years of age (Hoefer, Rytina, and Baker 2012). Undocumented young people who were brought to the country as children have no clear path to future legal status that would enable them to further their education and find gainful employment outside of the shadow economy. Various versions of legislation to address the undocumented student population, often referred to as the DREAM Act, have been introduced in recent congressional sessions. The latest effort in 2010 passed the House but failed to pass the Senate. In June 2012, the Secretary of Homeland Security announced and implemented a new process, known as "Deferred Action for Childhood Arrivals," which provides work-status eligibility and relief from deportation for unauthorized immigrants who are no more than 30 years old and who arrived in the United States before age 16. While a smaller number are currently eligible to petition, up to 1.7 million young people could potentially benefit from this program once they reach the requisite age (Passel and Lopez 2012).

Foreign-born workers in the United States tend to be concentrated at both the low and the high end of the educational spectrum. Table 4-4 shows that 29.1 percent of the foreign-born have less than a high school degree. On the other hand, 10.9 percent have a master's degree or higher, a share on a par with that of the native-born. The table also shows that the foreign-born are more likely to be of working age, with 67.2 percent of the foreign-born aged 25–54 years old compared with 55.9 percent of the native population. The table also shows that foreign-born men are much more likely to be employed than native-born men.

Other countries that receive large numbers of immigrants, such as Australia and Canada, admit a majority of their immigrants based on employment skills. Australian work visas are most commonly granted to highly skilled workers. Candidates are assessed against a system that grants points for certain standards of education. In Canada, almost two-thirds of visas are issued to economic immigrants, primarily skilled workers and their dependents. Skilled workers are selected on factors such as education, English or French language abilities, and work experience. In contrast, the United States has a more "outcome"-based approach to granting visas. For example, employment visas are awarded to persons with extraordinary ability (EB-1), outstanding professors and researchers (EB-2), and skilled and unskilled workers with job offers from a U.S. employer (EB-3). While

Table 4-4 Distribution of Education, Age, and Employment For Natives and Foreign Born Individuals, 2010-2012

	Native	Foreign Born
Education Attainment (Age 25+)		
Less than high school	9.3	29.1
High school, no college	31.7	26.0
Some college or associates	28.2	16.2
Bachelor's	19.9	17.8
Master's or higher	10.9	10.9
Age Group		
16-19	0.6	0.3
19-24	6.9	5.0
25-54	55.9	67.2
55-64	17.5	13.6
65+	19.1	13.9
Work Status		
Employed	60.3	62.4
Men	64.7	73.8
Women	56.2	51.2

Note: Sample limited to individuals 16 and over who are not enrolled in school.

Source: Bureau of Labor Statistics, Current Population Survey, Annual Social and Economic Supplement; CEA calculations.

some may argue that Canada and Australia might do a better job of attracting skilled immigrants than the United States because of their point-based systems, a recent study using detailed data compares the United States with Australia and finds that, by and large, the two countries attract similar immigrants. Skill premiums and geographic proximity, rather than the specific details of the admission criteria, play the predominant role in determining the quality of employment-based immigrants (Jasso and Rosenzweig 2008).

Since enactment of the Immigration and Nationality Act of 1965, family reunification has been a cornerstone of U.S. immigration policy. Debate continues on whether the United States should maintain this family-based system or move more toward an occupation- and skills-based system. While the question is often posed as a stark choice between two systems, in reality the two visa categories—family and employment—complement each other in important ways. In choosing a country to move to, skilled prospective immigrants envision a better life not only for themselves but for their families. Using data arranged by year of arrival and country of origin, one study found a positive correlation between the fraction of immigrants arriving on sibling preference and mean education levels of the immigrants. The data seem to support the notion that highly educated immigrants who arrive based on employment and occupational preference categories then sponsor their siblings who are also highly educated (Duleep and Regets 1996). As proposals are made to increase skill-based immigration, it is important to keep in mind that a welcoming policy toward the family is an important factor in attracting skilled workers to live and invest in the United States.

The Economic Benefits of Immigration

Conventional theory suggests that the destination country as a whole gains from immigration, though these gains may be uneven across groups. Immigrants add to the labor force and increase the economy's total output. The gains accrue to natives whose productivity is enhanced by immigrant workers—often referred to as complementary factors—as well as to capital owners. A major study published by the National Research Council in 1997 estimated the size of the "immigrant surplus" to be on the order of \$14 billion in 1996 dollars, or 0.2 percent of GDP. Given the size of today's economy, this translates into \$31.4 billion in 2012 dollars, even without accounting for growth in the share of the population that is foreign born.

There are additional reasons to think the above calculations may understate the full economic benefit of immigration. For one, the calculations do not take into account the fact that capital owners may boost investment in response to the increased number of workers, which may induce further economic growth. For another, the simple approach assumes a negative impact on the average wages of native workers that has been difficult to establish empirically. The same National Research Council study concluded that the body of empirical evidence pointed to a very small negative impact from immigration on wages of competing native workers—on the order of 1-2 percent and often statistically insignificant.⁵ In fact, to the extent that new immigrants crowd out existing workers, research shows that those most adversely affected are recent immigrants (Lalonde and Topel 1991; Ottaviano and Peri 2012). A new immigrant with limited English skills, for example, will likely compete closely with other recent immigrants with poor English ability in jobs that do not require institutional, technical, or advanced language skills, thereby lowering the recent immigrants' wages.

Recent studies suggest, in fact, that the skills and talents that immigrants and natives bring to the labor market may not be substitutes for each other. Low-skilled immigrants may enhance the productivity of high-skilled natives. Even within skill groups, the various talents that immigrants and native workers bring to the labor market may complement each other rather than compete. The intuition behind the gains to both natives and immigrants in this case would follow from the principle of comparative advantage. For example, an immigrant worker may be an extraordinary computer programmer but have limited English skills. Rather than filling the programming job with a native worker who is not as skilled in this particular task, the employer might assign the native worker to tasks that use communication and English language skills. Some of these ideas are pursued in recent work by Giovanni Peri and co-authors (Peri and Sparber 2009; Ottaviano and Peri 2012). Other research also by Giovanni Peri compares states with differing levels of immigration and finds that immigration raises productivity by promoting efficient task specialization (Peri 2012).

Another question regards the impact of immigration on the public finances of the host country. Immigrants contribute positively to government finances by paying taxes but add to costs by using publicly provided goods and services such as roads, police, and schools. The 1997 National Research Council study estimated that, over the long run, a typical immigrant and his or her descendants would contribute about \$80,000 more in taxes (in 1996 dollars) than they would receive in terms of public goods and services. This would translate into nearly \$120,000 in 2012 dollars. This positive fiscal impact is attributable to several factors: most immigrants arrive at young ages; their descendants are expected to have higher incomes; immigrants help to pay for public goods such as national defense that do not entail congestion costs; and the 1996 Personal Responsibility and Work

⁵ NRC (1997), chapter 5. Also see Card (1990), Friedberg and Hunt (1995), Card (2009), Cortes (2008). See Borjas (2003) and Borjas, Grogger, and Hanson (2011) for the opposing view.

Opportunity Reconciliation Act prohibited new immigrants from receiving public benefits for five years after arrival.

A recent Congressional Budget Office study also found that allowing undocumented immigrants a pathway to citizenship is likely to help the Federal budget. The study estimates that, had a pathway been established, Federal revenues would have increased by \$48.3 billion while Federal outlays would have increased by \$22.7 billion over the 2008–12 period, leading to a surplus of \$25.6 billion. The revenue increase stems largely from greater receipts of Social Security payroll taxes, while the increase in outlays would be in the form of refundable income tax credits and Medicaid. This calculation does not take into account possible increases in Federal discretionary spending. There may be also additional expenditures at the State and local level on education and healthcare, which are harder to forecast (CBO 2007).

Another important economic benefit of providing a pathway to earned citizenship is that, by bringing immigrant workers out of the shadows, they will be able to obtain above-ground jobs, advance in their careers, and contribute more fully to the economy. Moreover, with a pathway to earned citizenship, immigrant workers and their employers will invest more in their skills, raising the benefit to the economy even further. Legalizing this population will also benefit U.S.-born citizens as they need no longer compete with workers who may work at below market wages due to their unauthorized status.

A Magnet for High-Skilled Immigration

A growing area of study is how high-skilled immigrants—particularly those in the STEM fields—contribute to innovation and growth. Based on the 2010 National Survey of College Graduates conducted by the National Science Foundation, immigrants represent 13.6 percent of all employed college graduates, but they account for 50 percent of PhDs working in math and computer science occupations, and 57.3 percent of PhDs in engineering occupations (Table 4-5). About two-thirds of these foreign-born PhDs hold U.S. degrees, suggesting that many of them either immigrated as children or came to attend U.S. universities and stayed.

Interestingly, one study found that 26 percent of all U.S.-based Nobel laureates over the past 50 years were foreign born. The same study also found that in the EU-12 countries, immigrants made up slightly less that 5 percent of total population and accounted for about 4 percent of those holding masters' and PhDs, in contrast to the United States (Wasmer et al. 2007).6

⁶ According to the study, the data for Nobel Laureates were found at the official website of the Nobel Foundation: http://nobelprize.org/nobel/.

Table 4-5 Percentage of Foreign-Born College Graduates by Degree and Occupation, 2010

	All	Bachelor's	Master's	Professional	Doctorate
Total	13.6	11.8	15.3	12.9	32.2
All sciences	28.6	20.3	38.1	50.7	44.2
Math/computer sciences	29.2	21.8	42.4	30.5	50.0
Life and related sciences	28.8	14.5	27.3	59.4	44.2
Physical and related sciences	23.9	12.2	21.3	49.6	38.8
Engineering	24.1	16.2	33.3	44.4	57.3

Note: Occupation refers to occupation for principal job. Sample limited to employed individuals. Source: National Science Foundation/National Center for Science and Engineering Statistics, National Survey of College Graduates (2010).

These statistics support the view that the United States continues to be a magnet for highly skilled immigrants. Two factors likely play a role. First, the United States has flexible labor markets that are able to integrate immigrants relatively quickly. Second, the skill premium is high in the United States, and individuals with exceptional ability and willingness to work hard can thrive. These factors have enabled the Nation to benefit from large inflows of highly skilled workers.

Boosting Innovation and Entrepreneurship

In addition to the benefits already covered, recent studies have shown that immigrants promote productivity and innovation, directly and also indirectly through positive spillover effects on native researchers and scientists. Gauthier-Loiselle and Hunt (2010) found that immigrants patent at two to three times the rate of U.S.-born citizens. The study also found that immigrants further boost innovation in the economy by having positive spillovers on the native rate of innovation. Another study found that raising the number of skilled information-technology workers—as has been done by raising the cap on H-1B visas—spurs innovative activity in states that more heavily employ these workers (Kerr and Lincoln 2009).

Studies also have found that immigrants are not only exceptional workers and innovators but also highly entrepreneurial. One study found that 25 percent of venture capital companies between 1991 and 2006 were started by immigrants (Anderson and Platzer 2006). Another found that immigrants started 25 percent of engineering and technology companies founded between 1995 and 2005 (Wadhwa et al. 2007). Even outside the high-tech sector, one study found that immigrants are more likely than natives to start a company with more than 10 workers (Fairlie 2012). Immigrants are 30 percent more likely to form new businesses than U.S.-born citizens. A study by

Partnership for a New American Economy found that more than 40 percent of Fortune 500 companies were founded by immigrants or their children. The study also found that these companies are responsible for many jobs here and abroad—employing more than 10 million people worldwide—and that they generate annual revenues of \$4.2 trillion.

While there is clearly room for further study, these studies generally provide little systematic evidence that increases in the supply of foreign scientists and engineers discourage natives from entering these fields or from engaging in innovative activity. For example, Gauthier-Loiselle and Hunt found that the inflow of high-skilled immigrant science and engineering workers into a state did not decrease the number of patents originated by native science and engineering workers in the state. Borjas (2007) also found that, on the whole, rising enrollment of foreign graduate students did not discourage native enrollment in science and engineering programs, although there were some disparate impacts across groups.

President Obama has supported a recent initiative to graduate 1 million more college graduates with STEM degrees. At the same time, all evidence points to the fact the United States is extraordinarily successful at attracting highly skilled workers from other countries. Sensible immigration policy would entail taking advantage of this unique situation and allowing more high-skilled immigration. The lack of clear evidence of crowding out bolsters confidence that these are not two conflicting policy goals.

Conclusion

With slowing population growth and aging of the workforce, America needs more workers. The Nation also needs to invest in the education, skills, and training of its citizens so they can fill the jobs of the future. Over the past four years, President Obama has taken an aggressive stance toward combating the rising cost of college. The expansion of the Federal Pell Grant program and the American Opportunity Tax Credit has made college more affordable for millions of students and families. Challenges still remain, including the continuing rise of tuition and levels of student debt. In his recent State of the Union address, President Obama called upon colleges to join in the effort to keep costs down. He proposed using metrics such as value, affordability, and student outcomes in distributing Federal campusbased aid. He also announced a new Race to the Top program for College Affordability and Completion, which will reward states who are willing to change their higher education policies and practices to contain tuition costs and ease students' progress toward a college degree.

With the potential to address both the need for workers and the need for skills, the gains from commonsense immigration reform loom large.

Immigration can boost the economy by adding workers and making our labor force younger and more dynamic. Offering a path to citizenship to more than 11 million currently undocumented residents will further expand the economy as this group invests in education, finds gainful employment, and pays taxes. Border enforcement has proven to be effective, but it is a drain on our public finances. Smart enforcement that balances border security with crackdowns on worksite fraud will not only have higher returns going forward, but it will also save taxpayers money. America has historically been a magnet for capable and hard-working immigrants who seek opportunities and a better life. Many of these immigrants are innovators and entrepreneurs. The smart policy ahead is to leverage America's unique advantage for future prosperity and growth.

Smart policy also involves making sure that all Americans benefit from economic growth. In his 2013 State of the Union address, President Obama reiterated his commitment that an honest day's work is rewarded with decent pay, enough to feel secure and support a family. A Federal minimum wage that keeps up with the cost of living, policies that strengthen workers' ability to bargain for decent wages and safe working conditions, and tax policies such as refundable credits that allow lower-income families to invest in their children's education, are important pieces of the foundation upon which an economy that works for the middle class is built.



CHAPTER 5

REDUCING COSTS AND IMPROVING THE QUALITY OF HEALTH CARE

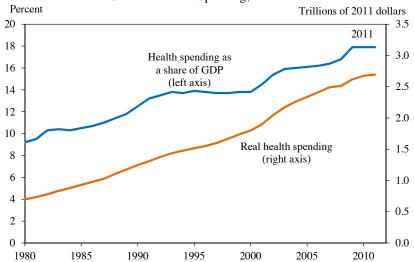
In March 2010, the President signed into law the Affordable Care Act. Provisions of the Act have already helped millions of young adults obtain health insurance coverage and have made preventive services more affordable for most Americans. When fully implemented, the law will expand coverage to an estimated 27 million previously uninsured Americans and ensure the availability of affordable comprehensive coverage through traditional employer-sponsored insurance and new health insurance market-places or exchanges. There are signs that the Affordable Care Act has started to slow the growth of costs and improve the quality of care through pay-for-performance programs, strengthened primary care and care coordination, and pioneering Medicare payment reforms. These provisions, as well as others in the Affordable Care Act, will help to bend the cost curve downward while laying the foundation for moving the health care system toward higher quality and more efficient care.

HEALTH CARE SPENDING

Health care spending has increased dramatically over the past half century, both in absolute terms and as a share of gross domestic product (GDP) (Figure 5-1). Spending in the U.S. health care sector totaled \$2.7 trillion in 2011, up by a factor of 3.9 from the \$698.3 billion (in 2011 dollars) spent in 1980. Health care spending in 2011 accounted for 17.9 percent of GDP—almost twice its share in 1980.

Some of the increase in health care spending is attributable to demographic changes. Of the real increase in spending on prescription drugs, office-based visits, hospitalizations, and all other personal care from 1996 to 2010, for example, 11.5 percent can be accounted for by the changing

Figure 5-1 GDP and Health Spending, 1980–2011

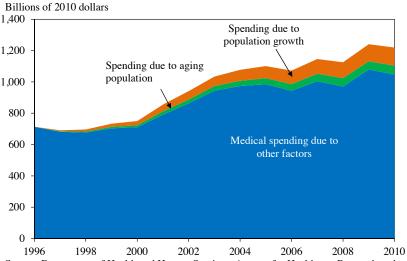


Source: Centers for Medicare and Medicaid Services, National Health Expenditure Accounts; Bureau of Economic Analysis, National Income and Product Accounts; CEA calculations.

age structure of the population and 22.8 percent can be accounted for by increases in the size of the population (Figure 5-2). The effects of population aging will become a more important driver of higher spending in coming years; by 2030, one in five Americans will be over age 65, compared with only one in eight today, and per capita medical costs in a given year are approximately three times greater for those 65 and over than for younger individuals. The majority of the increase in health care spending, historically, has come from increases in the amount spent per person over and above any effects attributable purely to population aging and population growth, reflecting increases in the use of medical services driven at least in part by the development of new technologies and increases in unit costs that exceed the overall rate of inflation.

Total annual spending on prescription drugs, office-based visits, hospitalizations and other personal care between 1996 and 2010 was estimated using the Medical Expenditure Panel Survey (MEPS). To estimate the effect of changes in the age distribution between 1996 and 2010 on spending, age-specific spending levels and total U.S. population were held constant at 1996 levels, but the proportion of the population within each age group was allowed to reflect the 2010 age distribution. To estimate the effect of population growth between 1996 and 2010 on spending, total spending increases were calculated holding age-specific spending levels constant at 1996 levels, but allowing both the age distribution and total population to reflect their 2010 values. Then, the estimated spending increases due to changes in the age distribution were subtracted from this figure.

Figure 5-2 Contribution of Population Growth and Aging to Health Care Spending, 1996–2010



Source: Department of Health and Human Services, Agency for Healthcare Research and Quality, Medical Expenditure Panel Survey; CEA calculations.

Long-Term Spending Growth

Why has health care spending risen so much, even after taking into account changes in the size and age mix of the population? A likely piece of the story is that long-term growth in health care wages has not been accompanied by corresponding labor-saving technological progress. The theory of "cost disease" as developed by Baumol and Bowen (1966) notes that laborsaving technological progress has led to significant increases in labor productivity and hence wage growth in some important parts of the economy (such as the manufacturing sector). To compete for workers, labor-intensive sectors such as health care, education, and the performing arts also must raise their wages. According to the theory, productivity growth has been slower in these sectors. The result, the argument concludes, is an increase in the relative cost of output in these labor-intensive sectors, as higher costs are passed on to consumers in the form of higher prices.

Consistent with this theory, Nordhaus (2006) found that labor-intensive sectors generally experienced rising relative prices between 1948 and 2001. Nordhaus also found that shifts in labor from sectors that experienced labor-saving technological progress to sectors that remained relatively laborintensive lowered overall productivity growth, as the share of labor-intensive sectors in overall output rose over the second half of the 20th century.

The cost-disease diagnosis assumes that, in labor-intensive sectors, it is difficult to reduce the amount of labor required to produce a given set of outputs. The health care sector, however, has experienced substantial technological progress, as new pharmaceutical therapies, diagnostic and medical devices, and surgical procedures have been introduced, allowing many conditions to be treated more effectively than in the past.

While some of these innovations have been labor-saving (some pharmaceuticals, for example), most others are complementary to expensive specialist labor (such as imaging and advances in surgical procedures). Consequently, technological change in medicine has caused the cost per treatment to rise, even as improvements in clinical effectiveness have led to increases in medical productivity. Technological change in medicine has contributed to long-term increases in spending. A recent study found that a quarter to a half of the rise in health care spending since 1960 can be explained by technological change in the health care system (Smith, Newhouse, and Freeland 2009). And rather than satisfying a relatively fixed demand for health care at lower cost, the development of many of these new technologies has contributed to an increase in the demand for health care services.

For some researchers, the importance of technological change for health care spending points to increases in demand as an additional explanation to the cost disease theory for why health care spending has increased disproportionately with income. If health care is a "super-normal good"—a good associated with an elasticity of consumption with respect to income that is greater than one—then as incomes rise by a certain percentage, consumption of health care rises by a greater percentage. Hall and Jones (2007) argue that this can happen if, after achieving a certain level of consumption, individuals prefer to spend additional income on life-extending health care (which allows for consumption in the extended years of life) rather than on extra consumption now. Consequently, as incomes rise, people choose to spend ever more on health care over other goods.

The disproportionate effect of income on the demand for health care may also operate through larger institutional mechanisms. Consistent with this idea, Smith, Newhouse, and Freeland (2009) find that income growth affects health care spending growth primarily through the actions of governments and employers on behalf of large insurance pools, suggesting a key role for payment reform in affecting medical spending growth.

These factors are not only a U.S. phenomenon. Indeed, while the United States has higher levels of health care spending than other members of the Organisation for Economic Co-operation and Development (OECD), the annual real rate of growth in health care spending per capita in the

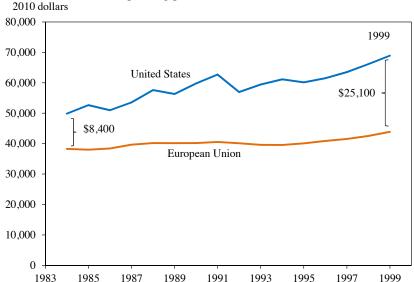
United States between 1960 and 2010 was not too different from elsewhere, averaging 4.13 percent compared with 3.62 percent in the other OECD countries, adjusted for purchasing power parity. In more recent years, health care spending has continued to grow at similar annual real rates—3.10 percent in the United States and 3.30 percent in the other OECD countries between 2000 and 2010, somewhat below the long-term rates of spending growth observed since 1960.

Medical Productivity

Productivity growth in health care largely has taken the form of improvements in the quality of care, with developments in new procedures and care practices contributing to increased survival, decreased morbidity, reduction in pain, and less onerous treatment administration in many cases.

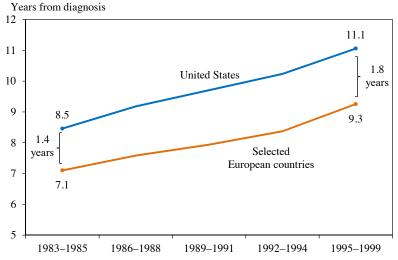
A full accounting of medical productivity growth should reflect changes not only in cost per service but also in health outcomes. However, medical productivity is often hard to measure because health outcomes are hard to measure. Recent studies comparing increases in life expectancy to increases in treatment costs over time suggest that productivity growth in the health care sector has been enormous. For example, Cutler and McClellan (2001) found that the value of increased survival rates and decreased morbidity rates as a result of improved treatment of heart attacks, low-birth-weight infants, and depression over the past few decades has far exceeded the increased spending on these conditions over the period. Using a similar methodology, Philipson et al. (2012) found that survival gains across all cancer patients in the United States between 1983 and 1999 cost on average only \$8,670 per life-year gained. Estimates of the value of a statistical life-year, based on compensating wage differentials that measure the implied trade-off between wages and increased risk of fatality, are typically multiples higher (Viscusi and Aldy 2003). Therefore, even if some piece of the apparent gain in longevity results from earlier diagnosis, the introduction of these cancer therapies represents an enormous improvement in productivity. Faster growth in spending on cancer treatment in the United States than in Europe over this period is sometimes mistakenly taken to indicate the inefficiency of U.S. medical care, but it is also the case that the improvement in life expectancy for cancer patients was greater in the United States than in Europe. From 1983 to 1999, U.S. spending per cancer patient rose by \$16,700 (in 2010 dollars) more than European spending per cancer patient (Figure 5-3), and U.S. cancer patient life expectancy rose by 0.4 years more than European cancer patient life expectancy (Figure 5-4), implying a cost per extra life year saved of approximately \$42,000. Given the consensus

Figure 5-3 Cancer Spending per New Cancer Case, 1983–1999



Source: Philipson et al. (2012), updated data provided by the authors.

Figure 5-4
Life Expectancy after Cancer Diagnosis, 1983–1999



Note: European countries included are Finland, France, Germany, Iceland, Norway, Slovakia, Slovenia, Sweden, Scotland, and Wales.

Source: Philipson et al. (2012), updated data provided by the authors; Surveillance, Epidemiology and End Results (SEER); European Cancer Registry (EUROCARE).

in the literature that the value of additional life-years is much higher, the additional U.S. spending has been a good value.

Murphy and Topel (2006) directly estimate the aggregate monetary value of increases in longevity, finding that, if valued in the national accounts, increases in life expectancy since 1970 would have added \$3.2 trillion a year to national wealth. While a different set of assumptions about the statistical value of a life year, the elasticity of intertemporal substitution, and the value individuals place on non-working hours lowers the aggregate valuation of the observed longevity increase, the order of magnitude of the estimated valuation nonetheless suggests an enormous return to the increase in health care spending over this period.

In general, estimating how much the productivity of health care has grown is a difficult task. Changes in health outcomes, morbidity rates, and patient convenience are hard to measure, hard to attribute to the use of specific technologies, and hard to value. Furthermore, limitations in available data mean that spending often cannot be disaggregated to the treatment of specific diseases or patients. Given these difficulties, it is widely agreed that aggregate measures of the output of the health care sector do a poor job of capturing the effects of productivity growth. Developing better methods to measure real output and productivity growth in health care is an important area of ongoing research (Data Watch 5-1).

Sources of Inefficiency in Health Care Spending

Although growth in overall medical productivity has been large, not all increases in medical spending are productive. Cutler and McClellan (2001) showed that improved treatment of heart attacks produced significant increases in patient longevity between 1984 and 1998. By contrast, Skinner, Staiger, and Fisher (2006) found little improvement in survival rates among heart attack patients between 1996 and 2002 despite significant growth in treatment costs. The latter study also found that the regions with the largest increases in spending also experienced the smallest gains in survival. Geographic variation in practice patterns and health outcomes implies that more than 20 percent of Medicare spending on heart attack treatment produces little health value (Skinner, Fisher, and Wennberg 2005). The case of heart attack treatment points to more general inefficiencies in the allocation of spending within the health care system.

Among the many possible sources of spending inefficiencies, several stand out as key sources of waste. First, the fragmentation of the delivery system contributes to a failure to provide patients with necessary care. That in turn can lead to complications and readmissions, particularly for the chronically ill for whom care coordination is most essential for health.

Data Watch 5-1: Toward Disease-Based Health Care Accounting

Existing national data on health expenditures generally are organized by the type of medical care that individuals purchase (such as doctor visits or drugs). For addressing questions related to the productivity of health care, however, data on health care spending by disease would be far more useful.

Switching to disease-based accounting poses a challenge because patients often suffer from more than one disease at once, making it difficult to allocate spending to specific diseases. Three conceptual approaches to allocating spending across disease have been suggested: tracking each encounter with the health care system; tracking disease "episodes"; or identifying all conditions a person has and using regression analysis to allocate spending to diseases. All three approaches have advantages and limitations, and a consensus has not yet developed on which one is preferable. Whichever approach is adopted, the universe of conditions will need to be categorized into a set of disease groups, at an appropriate level of detail, to which medical costs then can be assigned for analysis.

The Medical Expenditure Panel Survey (MEPS) is a nationally representative survey that provides information on most health spending, although it fails to capture spending on behalf of institutionalized patients and active duty military. The MEPS sample is too small, however, to represent rare conditions. Although not comprehensive in their coverage, data on health care claims provide another valuable—and potentially much more detailed—source of information on health care spending. In addition to data on spending, data on health outcomes that can be linked to the disease-based spending data also are needed.

Important progress has been made toward developing diseasebased health care data. The Bureau of Economic Analysis is working on a health care satellite account that will provide disease-based measures of household medical expenditures. These estimates will be based on private insurance claims data, Federal data on Medicare and Medicaid spending, and data from MEPS on the uninsured. Simultaneously, the Bureau of Labor Statistics is developing disease-based price indexes that account for shifts in treatment patterns. These indexes will be useful to the Bureau of Economic Analysis for decomposing spending into changes in prices versus changes in quantities.

The Affordable Care Act has significantly increased funding for research on patient-centered outcomes, and data will be available to qualified entities to evaluate the performance of providers and suppliers with respect to quality, efficiency, effectiveness, and resource use. Under the President's Open Data initiative, the Department of Health and Human Services has launched a Health Data Initiative to promote the availability of Medicare and Medicaid data, where appropriate, to researchers and entrepreneurs. Paralleling these initiatives, the Health Care Cost Institute, a nonprofit organization, has developed a claims database to be made available to researchers to foster a better understanding of what drives health care costs. These administrative data on claims hold the potential for further progress on understanding the drivers of health care spending increases and identifying high value medical care.

Second, lack of care coordination also contributes to duplicate care and overtreatment, a source of waste exacerbated by payment systems that compensate physicians based on the number of services provided (see Economic Applications Box 5-1). Overuse of expensive medical technologies is particularly costly, and some research suggests that a significant portion of coronary artery bypass graft surgery, angioplasty, hysterectomy, cataract surgery, and angiography is of questionable or low medical value (Goldman and McGlynn 2005).

Third, the failure of providers to adopt widely recognized best medical practices also contributes to waste. These failures include lack of adherence to established preventive care practices and patient safety systems, as well as widespread failure to adopt best treatment practices. In cases where the best medical practice is both clinically more effective and lower in cost—for example, the use of beta blockers in the treatment of acute myocardial infarction (Skinner and Staiger 2005, 2009)—failure to follow these practices results in worse clinical outcomes and higher readmissions and contributes to wasteful spending.

Finally, payment fraud also adds to system waste, not only through inappropriate payments but also through the administrative burden on honest providers who must adhere to the regulatory requirements of unavoidable but burdensome fraud detection systems.

Taken together, fragmentation of care, overtreatment, failures of care delivery, and payment fraud have been estimated to account for between 13 and 26 percent of national health expenditures in 2011 (Berwick and Hackbarth 2012). The magnitude of this waste offers an equally large opportunity for spending reductions and improvement in quality of care—an opportunity that underpins many of the provisions of the Affordable Care Act.

Economics Application Box 5-1: Matching in Health Care

Traditional economic analysis focuses on markets in which prices and quantities adjust so that in principle, supply equals demand. In some markets, however, prices do not exist and cannot be used to allocate resources. Gale and Shapley (1962) made early theoretical contributions to our understanding of how markets can be designed to allocate resources efficiently in the absence of prices. Taking the "marriage market" as an example, Gale and Shapley studied how, in the absence of prices, these markets can produce stable matches—matches where no alternative pairing would make both individuals in any match better off. These principles were extended by Roth, who applied them to the practical design of market institutions—for example, the market for medical students in residency programs (Roth 1984), and the assignment of students to public high schools in New York City and Boston (Abdulkadiroglu, Pathak, and Roth 2005). For these pioneering contributions, Shapley and Roth were awarded the 2012 Nobel Prize in Economic Sciences.

The market for live kidney transplants is yet another market where prices do not determine allocation. Paying for organs is a felony under the 1984 National Organ Transplant Act. Patients can receive a kidney from a compatible donor or are placed on a waiting list for a cadaveric kidney. Currently, nearly 95,000 patients in the United States are waiting for a kidney transplant. Dialysis for these patients costs approximately \$60,000 a year, for a total of \$30 billion a year, or 6.7 percent of total Medicare spending, the single most expensive component of Medicare. In 2011, there were about 11,000 transplants of deceased donor kidneys and only 5,770 transplants from living donors; in the same year, more than 4,700 patients died while waiting for a kidney transplant.

Many patients have willing potential donors. However, immunological incompatibility greatly limits the number of transplants using live kidneys, which are preferred to cadaverous kidneys for their tissue quality and greater longevity. Patients receiving a live kidney transplant are estimated to live 10-15 years longer than they would on dialysis.

Increasing exchanges between incompatible patient-donor pairs would greatly expand the opportunity for dialysis patients to receive a living donor kidney, and increase the quality of matches. In paired kidney exchanges, a donated kidney from one (immunologically incompatible) patient-donor pair is transplanted in the patient of a second patient-donor pair, and vice versa. The potential for improving the number of live kidney transplants is greater with "chains"—exchanges involving many donor-recipient pairs. The 2007 amendment to the National Organ Transplant Act clarified that kidney paired donations (KPD) do not constitute "valuable consideration" (that is, financial compensation), thereby paving the way for the creation of KPD exchanges.

The economic principles of stable matches developed by Shapley and Roth can be applied to KPD exchanges. Whereas the concept of stability in the medical residency setting, for example, is based on the mutual preferences of medical students and residency programs, stability in a kidney exchange is primarily based on obtaining the best matches along immunological criteria. Using these principles, transplant centers have established KPD programs, as have nonprofit organizations such as the New England Program for Kidney Exchange, founded by Roth and colleagues. Congress also established a national KPD pilot program, operated under the Organ Procurement and Transplantation Network (OPTN) as a nonprofit under Federal contract.

In 2011, the separate pilot KPD programs, including OPTN, resulted in 430 transplants—a promising start to paired kidney exchanges, but nevertheless representing only a fraction of the potential number of possible transplants.

Computer models suggest that many more transplants could be achieved each year if there were a nationwide pool of all eligible donors and recipients. A larger pool of eligible donor-recipient pairs also could potentially increase the quality of matches. A living kidney transplant (and all subsequent care) saves money over dialysis after roughly two years. On average, Medicare would save \$60,000 a year for every patient who receives a living kidney transplant rather than continuing to receive dialysis, all while increasing the life expectancy of a kidney recipient by 10–15 years, again relative to dialysis treatment.

EARLY IMPLEMENTATION OF THE AFFORDABLE CARE ACT

The Affordable Care Act includes a series of provisions that will transform the Nation's health care system. By expanding coverage, the health reform law stabilizes insurance markets and makes health insurance affordable. The Affordable Care Act also includes important provisions that are aimed at reducing inefficient spending, promoting competition, and improving the quality of medical care.

Economic Benefits of Insurance

Insurance provides important economic benefits to covered households. It covers unforeseen medical expenditures, allowing individuals to receive necessary medical treatment without suffering potentially crippling financial consequences.

The 2008 Medicaid expansion in Oregon provided a unique setting in which to study the effects of health insurance on health and financial security. Because access to the Oregon Medicaid coverage expansion was offered through a lottery, the benefits of insurance could be estimated without the usual statistical concerns that purchasers of insurance differ from non-purchasers in ways related to health and financial outcomes. Finkelstein et al. (2011) found that, after one year of Medicaid coverage, previously uninsured adults in Oregon were 10 percent less likely to report having depression and 25 percent more likely to report their health as good, very good, or excellent. They also experienced lower financial strain because of medical expenses, including lower out-of-pocket expenditures, lower debt on medical bills, and lower rates of refused medical treatment because of medical debt, than individuals who were not randomly assigned to Medicaid coverage.

The benefits of having insurance coverage are large. A recent study (CBO 2012a) estimated that the insurance value of Medicaid to enrollees in the lowest quintile of income earners is equivalent to 11 percent of their before-tax income, defined by the CBO as market income plus cash transfers. As a comparison, real average before-tax incomes in the lowest quintile rose 15 percent between 1995 and 2009, while real incomes in the highest quintile rose 24 percent. Hence, the value of Medicaid is roughly comparable to the additional income that would have kept average income in the lowest quintile growing at the same rate as average income in the highest quintile.

Expanding Affordable Health Insurance Coverage

The Affordable Care Act is projected to increase the number of insured individuals in the United States by 14 million in 2014 and by 27 million in 2022 (CBO 2012b). The requirement that health insurance plans offer dependent coverage to children up to age 26 went into effect in 2010. Sommers (2012) found that this provision resulted in more than 3 million uninsured young adults gaining health insurance between September of 2010 and December of 2011.

Looking ahead to 2022, the Congressional Budget Office (CBO 2012b) projects that the Affordable Care Act will lead to an additional 12 million people being insured through Medicaid and the Children's Health Insurance Program (CHIP), with the remainder of the estimated 27 million newly insured individuals covered through employer-based insurance, the Affordable Insurance exchanges, or the Small Business Health Options Program (SHOP) exchanges (Economics Application Box 5-2). The law likely will cause some firms that currently do not offer health benefits to begin doing so, and some workers who are currently uninsured will take up employer coverage that is already offered. At the same time, the new

Economics Applications Box 5-2: Economics of Adverse Selection and the Benefits of Broad Enrollment

In health insurance markets, adverse selection occurs when relatively unhealthy individuals are more likely than healthy individuals to purchase health insurance coverage at a given price. Insurers understand this tendency and attempt to set premiums to reflect average expected expenditures in a plan. The selection of relatively unhealthy enrollees into coverage raises average expected expenditures, resulting in higher premiums and more adverse selection into coverage.

Adverse selection explains why offered premiums in the individual and small group health insurance markets often are too high for most healthy people compared with the health costs they actuarially can be expected to incur, meaning that they either pay too much for coverage or choose to go uninsured rather than pay the high premiums. In some cases, insurance markets subject to extreme adverse selection may disappear completely (Cutler and Reber 1998).

Encouraging broad participation in health insurance coverage helps tremendously to solve the market failure associated with adverse selection. For example, adverse selection is virtually nonexistent in the large group employer sponsored insurance (ESI) market. Take-up rates in this market are very high, thanks both to the tax advantages associated with ESI and to the fact that employers typically pay a portion of premiums, which makes ESI a good deal for the vast majority of employees. While employer contributions are offset by lower wages in equilibrium (Gruber 1994; Baicker and Chandra 2005), employees who decline coverage rarely recoup the employer contribution on the margin. The large enrollment in many ESI plans means that a small number of high expenditure enrollees does not dramatically affect premiums for a large risk pool. This prevents adverse selection from taking root and reinforces broad enrollment through premium stabilization and affordability.

Similarly, the Affordable Care Act encourages broad enrollment through the widespread accessibility of health insurance exchanges, the individual responsibility requirement related to the purchase of health insurance, and the financial assistance offered to lower-income earners to purchase private plans on an insurance exchange. Other provisions of the Affordable Care Act raise consumer awareness and foster consumer choice through information campaigns, standardization, and consumer search tools, similar to those implemented in the successful rollouts of the Medicare Advantage and Medicare Part D prescription drug programs. As in ESI, broad enrollment in the exchanges is expected to foster premium stability and affordability and to reduce the incidence of cost-shifting from uncompensated care to the insured.

options created by the Affordable Care Act may make employer-sponsored insurance (ESI) coverage less attractive for some employers. The net effects on the prevalence of employer-sponsored coverage, however, are likely to be small.

Based on microsimulations of firms' optimizing behavior, analysts have estimated effects of the Affordable Care Act on the number of individuals with ESI coverage ranging from a 1.8 percent decline (CBO 2012b) to a 2.9 percent increase (Eibner et al. 2011). Other estimates fall with this narrow range (Buettgens, Garrett, and Holahan 2010; Lewin Group 2010; Foster 2010) and are consistent with the small positive effects of health reform on ESI coverage observed in Massachusetts, where similar statewide health insurance reforms were legislated in 2006 (Long, Stockley, and Yemane 2009).

Consumer Protection

The Affordable Care Act also establishes numerous consumer protections related to the purchase of private health insurance, some of which are already in effect. Starting in 2014, individual and group health plans will not be allowed to deny or limit coverage on the basis of an individual's health status. And within certain limits, premiums will be allowed to vary by age, geography, family size, and smoking status, but not by individual health status, gender, or other factors.

The Affordable Care Act also requires that double-digit increases in insurance premiums be reviewed by States or the Department of Health and Human Services, with insurance companies needing to provide justification for any such premium increases. Plans may be excluded from an insurance exchange based on premium increases that are not justified. Further, since the beginning of 2011, most insurers have been allowed to retain no more than 20 percent of consumers' premiums for profits, marketing, and other administrative costs. Overhead and administrative costs in excess of this limit are to be rebated to consumers (or in the case of employer-sponsored insurance, to employers, who must pass a share of these rebates to their employees as cash, improved benefits, or lower premiums, with the share depending on the proportion of the total health plan premium paid by the employees). As of August 2012, an estimated 12.8 million Americans had received rebates totaling \$1.1 billion from insurers as a result of this 80/20 medical loss ratio rule.

Health Care Spending and Quality of Care

The Affordable Care Act includes a series of provisions designed to reduce spending while improving the quality of care in the health care system. Reducing excessive payments to Medicare Advantage plans, strengthening antifraud efforts, and initiating reforms to Medicare provider payment systems, among other policies, are expected to extend the life of the Medicare Trust Fund by an additional eight years. These reforms complement numerous other provisions that improve health care quality while lowering costs.

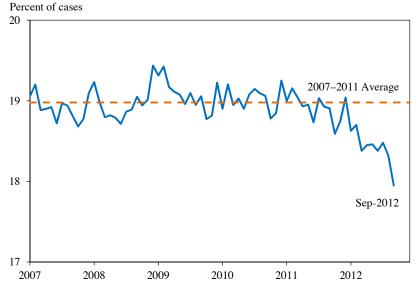
The Hospital Value-Based Purchasing Program went into effect in October 2012. The program rewards more than 3,500 hospitals for providing high-quality care and reduces payments for hospitals demonstrating poor performance. Similar pay-for-performance programs in Medicare Advantage and the end-stage renal disease prospective payment system encourage higher-quality care and more efficient care delivery. Additionally, pay-for-reporting initiatives in which providers are rewarded for reporting procedures and outcomes have been launched in virtually every Medicare payment category, and mark the first step toward value-based purchasing.

The Partnership for Patients program is a public-private partnership that aims to reduce hospital complications and improve care transitions in more than 3,700 hospitals and partnering community-based clinical organizations. By stopping millions of preventable injuries and complications in patient care, this nationwide initiative has set as its goal saving 60,000 lives and up to \$35 billion in spending, including up to \$10 billion in Medicare spending, over the three years following its launch. Data provided by the Centers for Medicare and Medicaid Services (CMS) show that since the Partnership for Patients program was introduced in 2011, the hospital readmission rate within Medicare has fallen to 17.8 percent, down from an average of about 19 percent that had prevailed from 2007 through 2010 (CMS 2013) (Figure 5-5). The data also show that the declines were larger in hospitals participating in Partnership for Patients.

The Affordable Care Act builds on the investments made in the Recovery Act to encourage the use of health information technology. By making it easier for physicians, hospitals, and other providers to assess patients' medical status and provide care, electronic medical records may help eliminate redundant and costly procedures. More than 186,000 health care professionals (about one-third of eligible providers) and 3,500 hospitals (about two-thirds of eligible hospitals) have already qualified for incentive payments for the meaningful use of electronic health records authorized by the Recovery Act.

The Affordable Care Act also launched extensive efforts to prevent and detect fraudulent payments under Medicare, Medicaid, and the Children's Health Insurance Program. An important goal of the Administration's efforts has been to prevent fraudulent payments before they are made rather

Figure 5-5 Acute Care Hospital Readmission Rates, 2007–2012



Source: Center for Medicare and Medicaid Services, Office of Enterprise Management.

than chasing them afterward, but there also are ongoing efforts to recover fraudulent payments if they occur. Antifraud efforts have recovered a record-high \$14.9 billion over the last four years.

Medicare Payment Reform

Traditional fee-for-service Medicare reimburses physicians for each service provided, creating incentives for overutilization. Spending inefficiencies are exacerbated by fragmentation across providers, who historically have had few incentives to coordinate care. Likewise, the prospective payment system (PPS) for Part A hospital services, which is designed to control costs by paying hospitals a prospective amount per diagnostic-related group (DRG) episode, is not immune to waste. While the DRG-based PPS encourages more efficient care and reductions in length of stay compared with cost-based reimbursement (Sloan et al. 1988; Seshamani, et al. 2006), it also can encourage a reduction in necessary care, leading to negative short-term health effects and readmissions (Cutler 1995; Encinosa and Bernard 2005; Seshamani, et al. 2006). Further, the inpatient PPS also can be susceptible to "upcoding," whereby providers code patients as being sicker than they are to raise the risk-adjusted prospective payments (Cutler 1995; Carter et al. 2002; Dafny 2005).

To curb these inefficiencies, the Affordable Care Act has established initiatives that lay a foundation for reforming care delivery and physician payment. At their core, these initiatives are designed to foster greater coordination of care across providers, while simultaneously aligning financial incentives to encourage provider organizations to deliver higher-quality, more efficient medical care. Each initiative builds on a core of clinical and patient engagement quality measures to ensure that cost savings are derived from more efficient delivery of care and not reduced patient access or care quality.

One such initiative is the Medicare Shared Savings Program (MSSP). Under this program, providers deliver care through accountable care organizations (ACOs), contractual organizations of primary care physicians, nurses, and specialists responsible for providing care to at least 5,000 beneficiaries. The Federal Government shares any savings generated for those beneficiaries, relative to benchmarks, with ACOs that meet rigorous quality standards, giving the ACOs incentives to invest in delivery practices, infrastructure, and organizational changes that help deliver higher-quality care for lower costs. Currently, more than 4 million beneficiaries receive care from more than 250 ACOs participating in the MSSP and other CMS projects, with ACO participation and covered beneficiaries continuing to increase as the program expands.

The Affordable Care Act also created the Center for Medicare and Medicaid Innovation, which is charged with identifying, testing, and ultimately expanding new and effective systems of delivering and paying for care. The CMS Innovation Center is authorized to invest up to \$10 billion in initiatives that have the potential to reduce program expenditures while preserving or enhancing quality of care furnished to individuals under Medicare, Medicaid, and the Children's Health Insurance Program. Initiatives within the CMS Innovation Center include shared savings models, as well as bundled payments to hospitals and post-acute-care providers.

The Innovation Center's Pioneer ACO program is a more aggressive version of the MSSP and is open to organizations that have had success with risk-based payment arrangements. Pioneer ACOs may keep a greater share of Medicare savings than ACOs in the MSSP but are also at greater risk for losses if spending benchmarks are not met. Successful Pioneer ACOs are also eligible to move to a population-based payment arrangement whereby they assume greater financial risks and rewards for a predetermined set of patients. This greater risk-reward profile further encourages investments in care coordination and best practice delivery reforms. Pioneer ACOs must also develop similar outcomes-based payment arrangements with other

payers, extending payment innovations to the commercial market and maximizing the impact of the program's incentives.

Currently, roughly 860,000 beneficiaries are enrolled in 32 Pioneer ACOs. The Pioneer program is just entering its second year, so it is too early for any comprehensive assessment, but Pioneer ACOs do seem to be making substantial investments in infrastructure and care processes. Infrastructure investments include health information technology adoption and improved data analytic capabilities, which enable providers to identify opportunities for improvements in care processes and the quality of care. For example, the potential savings associated with early identification and treatment of patients with high propensity for developing a chronic disease have led some Pioneer ACOs to make organizational changes that place greater focus on primary care and disease management. CMS is supporting Pioneer ACOs by providing privacy-protected patient information to promote care coordination, hosting collaborative learning networks, and offering other technical assistance.

Care coordination is also central to the Comprehensive Primary Care (CPC) initiative. Primary care is critical to promoting overall health and reducing medical spending. Yet because any one insurer accounts for only a fraction of a provider's business, insurers underinvest in primary care systems that would improve care coordination. Through the CPC initiative, Medicare partners with State and commercial insurers to promote community-wide investments in the delivery of coordinated primary care. Simultaneously, through direct financial payments or shared Medicare savings, the CPC initiative rewards high-quality providers who reduce health care costs through investments in care coordination. At the end of 2012, about 500 primary care practices were participating in the CPC initiative, representing 2,343 providers serving approximately 314,000 Medicare beneficiaries.

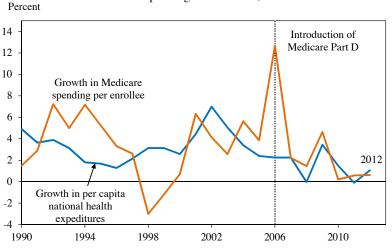
The CMS Innovation Center has introduced bundled payments as a model for hospital payment and delivery reform. A bundled payment is a fixed payment for a comprehensive set of hospital and/or post-acute services, including services associated with readmissions. Moving from individual payments for different services to a bundled payment for a set of services across providers and care settings encourages integration and coordination of care that will raise care quality and reduce readmissions. Variants on bundled payments are being demonstrated, differing in the scope of services included in the bundle, and whether payment is retrospective (based on shared Medicare savings) or prospective, which intensifies the financial risk and return to investing in changes to the efficiency and quality of care. Currently, 467 health care organizations across 46 states are engaged in the bundled payment initiative.

Is the Cost Curve Bending?

The real rate of health expenditure growth has declined or remained constant in every year between 2002 and 2011. For each of the three years 2009, 2010 and 2011, National Health Expenditure data show the real rate of annual growth in overall health spending was between 3.0 and 3.1 percent, the lowest rates since reporting began in 1960.

Additionally, the National Health Expenditure data show that growth in Medicare spending fell from an average of 8.6 percent a year between 2000 and 2005 to an average of 6.7 percent a year between 2006 and 2010. Notably, over a third—2.5 percentage points—of the 2006-2010 growth was attributable to increases in Medicare enrollment. With the exception of a spike in 2006, the year Medicare Part D was introduced, the growth rate of Medicare spending per enrollee—a measure of health care spending intensity—has been on a downward trend since 2001, with a particularly significant slowdown over the past three years (see Figure 5-6). Projections suggest the growth rate of Medicare spending per beneficiary will decline even further. While Medicare enrollment is expected to increase 3 percent a year over the next decade (CMS 2012), the rate of growth in spending per enrollee is

Figure 5-6 Real Annual Growth Rates of National Health Expenditures Per Capita and Medicare Spending Per Enrollee, 1990–2012



Note: Estimates for 2012 are projected.

Source: Center for Medicare and Medical Services, National Health Expenditure Accounts; CEA calculations.

projected to be approximately the same as the rate of growth in GDP per capita, according to the CBO and Office of the Actuary at CMS (Kronick and Po 2013). Similarly, the rate of growth in spending per Medicaid enrollee is projected to be near the rate of growth in GDP per capita. In the commercial health insurance market, per enrollee spending growth also has declined in recent years, the proximate cause being a slowdown in the growth rate of per-enrollee use of medical services (HCCI 2012).

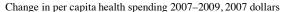
There are several potential causes of the recent declines in the growth rate of spending per enrollee. One factor is the recent recession, in which job losses have caused the loss of insurance coverage. However, the recession explains only a small fraction of the declines in spending growth rates since the start of the recession. The slowdown in the growth rate of per-capita health expenditures began before the recession took hold, and has continued through the economic recovery and into 2012.

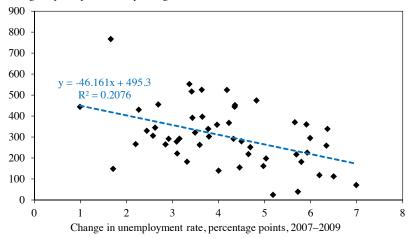
As expected, changes in real per-capita total health care spending at the state level are negatively correlated with changes in unemployment in the state between 2007 and 2009 (Figure 5-7). If the relationship in Figure 5-7 holds at the national level, then the increase in the national unemployment rate between 2007 and 2011 of 4.3 percentage points was associated with a \$199 decline in spending per-capita (in 2007 dollars), or 2.6 percent of per-capita health care spending in 2007. This accounts for only 18 percent of the slowdown in spending growth since the start of the recession in 2007 and an even smaller proportion of the slowdown in spending growth since 2002, when the growth rate in real per-capita total health care spending began to decline.2

Structural changes in the health care market offer another explanation for the decline in per-enrollee spending growth. One possibility is that hospitals and provider groups have increasingly sought to improve efficiency—through adopting more high value medical practices and performing fewer low value procedures—in response to evidence showing their potential for cost savings and quality improvements (Fisher and Skinner, 2010). At the same time, formulary changes that encourage substitution away from branded to generic drugs, and changes in insurance design that increase patient cost sharing for both services and pharmaceuticals, also may explain a portion of the declines in spending growth per enrollee over the past decade. For example, the sharp slowdown in the growth rate of medical

² Between 2001 and 2006, real per-capital spending grew by 21.5 percent. Between 2006 and 2011, real per-capital spending grew by 7.1 percent, where the 14.4 percentage point difference in spending growth captures the slowdown in spending growth. The 2.6 percent decline in total health care spending between 2007 and 2011 attributable to the recession accounts for approximately (2.6/14.4)*100 = 18 percent of the slowdown in spending growth since the start of the recession.

Figure 5-7 Relationship Between Change in State Unemployment Rate and Change in Real Per-Capita Personal Health Spending, 2007–2009





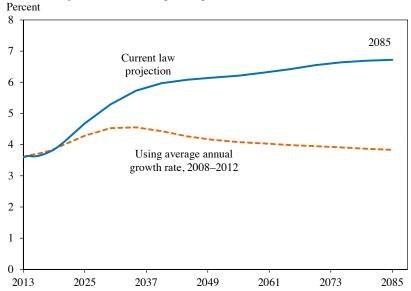
Source: Centers for Medicare and Medicaid Services, National Health Expenditure Accounts; Bureau of Labor Statistics, Current Population Survey; CEA calculations.

imaging since 2006 likely was due to a confluence of reforms including prior authorization, increased cost sharing and reduced reimbursements (Lee and Levy 2012). Notably, Lee and Levy found that a large fraction of the declines involved imaging identified as having unproven medical value. Similarly, payment reforms and regulations are thought to have contributed to longrun declines in Medicare spending growth rates (White 2008).

Early responses to the Affordable Care Act may have contributed to the decline in per enrollee spending since 2010 (Kronick and Po 2013). Relevant provisions of the law include provisions intended to foster coordinated care, improve primary care, reduce preventable health complications during hospitalizations, and promote the adoption of health information technology.

The decline in the hospital readmission rate, coinciding with the introduction of the Partnership for Patients program in 2011, also may point to early effects of the Affordable Care Act on spending. The Act's Medicare hospital readmissions reduction program, introduced in October 2012, should reinforce these effects. Likewise, infrastructure investments and care process changes, either funded directly by the Affordable Care Act or stimulated through the Affordable Care Act's payment reform, are other possible sources for the recent declines in spending growth.

Figure 5-8
Projected Medicare Spending as a Share of GDP, 2013–2085



Source: Medicare Trustees (2012); Social Security Trustees (2012); CEA calculations.

In addition, spending declines may reflect early changes in medical care delivery made in anticipation of impending Medicare payment reform. The Affordable Care Act moves providers towards savings-based payment models in Medicare that encourage improved coordination of care. Hospitals seeking new ways to reduce costs and increase bargaining power with suppliers and insurers may respond by consolidating their operations. Recent years have seen a continued consolidation and integration of physicians into provider networks.

The long-run growth rate of per-capita spending has significant implications for the budget. Medicare spending represented 3.7 percent of GDP in 2011 (Medicare Trustees 2012). Under current law, including cost control measures of the Affordable Care Act and the Sustainable Growth Rate-mandated physician payment cut, CMS projects that Medicare spending will rise to represent 6.7 percent of GDP in 75 years, with long-term nominal per-beneficiary spending growing at a rate on average equal to 4.3 percent per year (Medicare Trustees 2012). However, nominal growth rates of per-beneficiary Medicare spending have been declining since 2001, and over the past five years have averaged 3.6 percent. At least some of the recent decline in Medicare spending growth appears to be structural, implying that

the low spending growth rates from the past few years may persist.3 If the per-beneficiary growth rate of Medicare spending were to remain 3.6 percent per year, then after 75 years Medicare spending would account for only 3.8 percent of GDP, little changed from its share today, and substantially less than what the Medicare Trustees estimate. (Figure 5-8). This should not be interpreted as a forecast but rather an indication of how sensitive long-term projections are to the assumed rate of growth of Medicare spending per beneficiary. In this hypothetical scenario where per-beneficiary Medicare spending grows at a rate equal to the one observed over the past five years, Medicare spending as a share of GDP would be much lower than what current long-term projections suggest.

The causes for the recent and projected declines in the growth rate of medical spending and utilization, and their relationship to the major quality-improving and cost-saving provisions of the Affordable Care Act, remain an important area for future research. Enacted provisions of the health reform law appear to be having positive effects on care coordination, hospital outcomes and spending. And payment reforms that better align payment with cost and provide incentives for efficiency such as shared savings and bundled payment programs hold potential to improve to care quality and reduce medical spending.

³ Regression analysis shows a flat and insignificant relationship between state-level 2007-09 changes in per-beneficiary Medicare spending and changes in unemployment, suggesting that little if any of the recent declines in per-beneficiary Medicare spending growth is related to regional cyclical factors.



CHAPTER 6

CLIMATE CHANGE AND THE PATH TOWARD SUSTAINABLE ENERGY SOURCES

The Administration is committed to a comprehensive energy strategy that supports economic and job growth, bolsters energy security, positions the United States to lead the world in clean energy, and addresses the global challenge of climate change. Finding a responsible path that balances the economic benefits of low-cost energy, the social and environmental costs associated with energy production, and our duty to future generations is a central challenge of energy and environmental policy.

The most significant long-term pollution challenge facing America and the world is the anthropogenic emissions of greenhouse gases. The scientific consensus, as reflected in the 2009 assessment by the U.S. Global Change Research Program (USGCRP) on behalf of the National Science and Technology Council, is that anthropogenic emissions of greenhouse gases are causing changes in the climate that include rising average national and global temperatures, warming oceans, rising average sea levels, more extreme heat waves and storms, and extinctions of species and loss of biodiversity. A multitude of other impacts have been observed in every region of the country and virtually all economic sectors.

As part of the United Nations Climate Change Conferences in Copenhagen and Cancún, the United States pledged to cut its carbon dioxide ($\rm CO_2$) and other human-induced greenhouse gas emissions in the range of 17 percent below 2005 levels by 2020, and to meet its long-term goal of reducing emissions by 83 percent by 2050. Approximately 87 percent of U.S. anthropogenic emissions of all greenhouse gases (primarily $\rm CO_2$ and methane) are energy-related, and fossil-fuel combustion accounts for approximately 94 percent of U.S. $\rm CO_2$ emissions (EPA 2010a).

Climate change is often described in terms of changes in background conditions that unfold over decades, but extreme events superimposed on, and possibly amplified by, those background changes can cause severe damage. For example, storm surges superimposed on higher sea levels will cause greater flooding, heat waves superimposed on already warmer temperatures will cause greater damage to crops, and a warmer atmosphere amplifies the potential for both droughts and floods.

From an economist's perspective, greenhouse gas emissions impose costs on others who are not involved in the transaction resulting in the emissions; that is, greenhouse gas emissions generate a negative externality. Appropriate policies to address this negative externality would internalize the externality, so that the price of emissions reflects their true cost, or would seek technological solutions that would similarly reduce the externality. Such policies encourage energy efficiency and clean energy production. In addition, prudence mandates that the Nation prepare now for the consequences of climate change.

CONSEQUENCES AND COSTS OF CLIMATE CHANGE

The clear scientific consensus is that anthropogenic greenhouse gas emissions are causing our climate to change. These changes include increasing temperatures, rising sea levels, changing weather patterns, and increasingly severe heat waves, with negative consequences for human health, property, and ecosystems.1

The Changing Climate

Projections using a wide variety of climate models paint a broadly similar picture of how global temperatures can be expected to rise in response to emissions—a picture that is also consistent with observed temperature changes (Rohling et al. 2012). Likely temperature paths, from a comparison of models by the USGCRP (2009), predict that the average global temperature under a low-emissions scenario will increase by approximately 4°F by the end of this century; under the medium and high emissions scenarios, end-of-century increases are 7°F and 8°F, respectively. Some regions are projected to experience greater temperature increases than others. The Arctic has warmed by almost twice the global average in recent decades, in part because warming melts snow and ice, leading to less reflected sunlight, which causes yet more warming (Arctic Monitoring and Assessment Programme 2011).

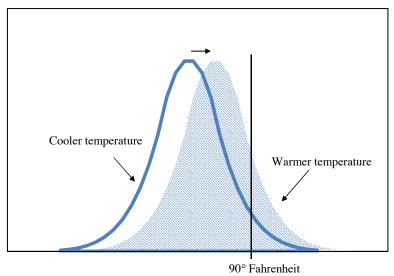
¹ The scientific consensus on the effects of greenhouse gas emissions on climate is summarized in reports by the USGCRP (2009) and the International Panel on Climate Change (IPCC 2012). The draft Third National Climate Assessment report, prepared by the National Climate Assessment Development Advisory Committee, was issued for public comment in January 2013.

Warming temperatures raise sea levels because of expanding ocean water, melting mountain glaciers and ice caps, and partial melting of the Greenland and continental Antarctic ice sheets. Since 1880, the global sea level has risen about 20 centimeters, more than half of which has occurred since 1950. Projections by the National Oceanographic and Atmospheric Administration show sea levels rising over the 21st century by 19 to 200 centimeters (NOAA 2012).

Increasingly common extreme events, such as heat waves, droughts, floods, and storms, pose some of the most significant risks of climate change. In its assessment of the current scientific literature, the IPCC (2012) concluded that increases in greenhouse gases will almost certainly increase the frequency and magnitude of hot daily temperature extremes during the 21st century, while episodes of cold extremes will decrease. In addition, the length, frequency, and intensity of heat waves are very likely to increase over most land areas, and droughts may intensify (Hansen, Sato, and Ruedy 2012; Rhines and Huybers 2013). In fact, an increase in the mean temperature implies more very hot days and fewer very cold days, even if the variability of daily temperatures around the mean remains unchanged. This phenomenon—a disproportionate increase in previously extreme temperatures as the mean temperature increases—is illustrated in Figure 6-1, which displays a shift in a hypothetical distribution of possible daily temperatures. The implications of Figure 6-1 accord with observed changes over the past decades and centuries as well as with climate model simulations. For example, according to the USGCRP estimates, under a high-emissions scenario, areas of the Southeast and Southwest that currently experience an average of 60 days a year with a high temperature above 90°F will experience 150 or more such days by the end of the century.

Patterns of precipitation and storms are also likely to change, although the nature of these changes currently is more uncertain than those for temperature. Northern areas of the United States are projected to become wetter, especially in the winter and spring; southern areas, especially the Southwest, are projected to become drier. Moreover, heavy precipitation events will likely be more frequent: downpours that currently occur about once every 20 years are projected to occur every 4 to 15 years by 2100, depending on location. The strongest cold-season storms are projected to become stronger, more frequent, and more costly. For more on the costs of storms, see Box 6-1.

Figure 6 - 1 Illustrative Average Temperature Distribution



Source: CEA illustration.

Estimating the Economic Cost of Climate Change: The Social Cost of Carbon

Because greenhouse gas emissions cause climate change, policies to reduce climate change must focus on reducing anthropogenic greenhouse gas emissions. An important step in informing a policy response is knowing precisely where carbon emissions are coming from, and that is the purpose of the Environmental Protection Agency (EPA) Greenhouse Gas Reporting Program discussed in Data Watch 6-1.

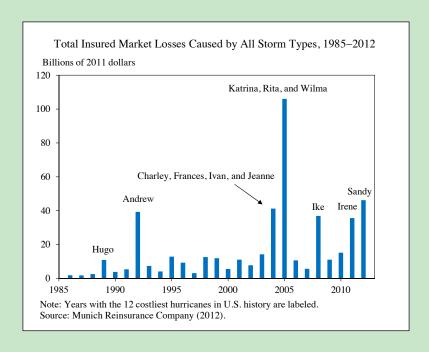
Another critical step in formulating policy responses to climate change is to estimate the economic costs induced by emitting an additional, or marginal, ton of CO₂. This cost—which covers health, property damage, agricultural impacts, the value of ecosystem services, and other welfare costs of climate change—is often referred to as the "social cost of carbon" (SCC). Having a range for the SCC provides a benchmark that policymakers and the public can use to assess the net benefits of emissions reductions stemming from a proposed policy. Although various studies, notably Stern (2006), have estimated the cost of climate change, until recently the Federal Government did not generate its own unique set of estimates of the SCC.

In 2010, a Federal interagency working group, led by the Council of Economic Advisers and the Office of Management and Budget, produced a white paper that outlined a methodology for estimating the SCC and

Box 6-1: The Cost of Hurricanes

Hurricanes draw energy from the temperature difference between the surface ocean and mid-level atmosphere. Although no one hurricane or storm can be attributed to global warming, there is some expectation that warming surface waters will increase the maximum intensity of hurricanes, and a trend toward increasing hurricane intensity has been observed in the North Atlantic over the past three decades (Kossin et al. 2007). As the figure shows, insured losses from storms have also been increasing over the past 20 years, a trend that is driven by losses from recent large hurricanes. Because many of the losses from hurricanes are uninsured, total costs can substantially exceed insured costs.

Development near vulnerable coasts, increasing intensity of storms, and rising sea levels point toward hurricane winds, precipitation, and storm surges that are increasingly destructive. In fact, several studies project substantial increases in hurricane-related costs because of climate change. It is difficult to isolate the contribution of climate change to the historical increase in hurricane costs. Nonetheless, from the perspective of social cost, the relevant facts are that the total cost is increasing, and that storm costs will increase with coastal development and could well also increase in response to greater storm severity.



¹ Mendelsohn et al. (2012); Nordhaus (2010); Pielke (2007); Narita et al. (2009).

Data Watch 6-1: Tracking Sources of Emissions: The Greenhouse Gas Reporting Program

In October 2009, the Environmental Protection Agency (EPA) launched its Greenhouse Gas Reporting Program, an ambitious effort to collect and make publicly available facility-level data on greenhouse gas emissions across the United States. Today, experts and non-experts alike can view, explore, and download comprehensive information on greenhouse gas emissions using the EPA's convenient online data tool. The program is a leap forward for greenhouse gas data collection and the first of its kind in its scale and "bottom-up" approach. It will be an important piece of administrative infrastructure for any future effort to regulate or price greenhouse gas emissions.

Since 1990, the EPA has reported estimates of greenhouse gas emissions in its annual Inventory of U.S. Greenhouse Gas Emissions and Sinks, in compliance with the U.S. commitment under the United Nations Framework Convention on Climate Change. These estimates, however, are mostly "top-down," in that the EPA estimates national emissions using aggregate data on fuel production, imports and exports, and inventories. In 2008, Congress instructed the agency to begin to collect facility-level data, and the EPA developed the Greenhouse Gas Reporting Program to augment the data collected through the National Greenhouse Gas Inventory. The first wave of data, which covers emissions in 2010, was made publicly available in January 2012. More than 6,000 facilities—refineries, power plants, chemical plants, landfills, and more—were required to report their emissions, which amounted to 3.2 billion tons of carbon dioxide equivalent (CO₂e) that year alone. The EPA will release data on 2011 emissions in early 2013.

The EPA provides its database of facility-level greenhouse gas emissions online (http://ghgdata.epa.gov), and visitors can view data by sector or geography or both. The site's rich interface and powerful maps software permits easy spatial analysis of emissions, and built-in charts help users glean useful information from what might otherwise be an unwieldy dataset. Although the Greenhouse Gas Reporting Program is an important step forward for greenhouse gas data collection, there are a few limitations: only facilities that emit more than 25,000 tons of greenhouse gases (measured in CO₂e) a year are required to report (although some sectors are "all in," meaning even emitters below the 25,000-ton threshold report for the first three to five years), and the program does not cover emissions from agriculture or land use.

¹ http://www.epa.gov/ghgreporting/ghgdata/reported/index.html

provided numeric estimates (White House 2010). The SCC calculation estimates the cost of a small, or marginal, increase in global emissions. This process was the first Federal Government effort to consistently calculate the social benefits of reducing CO₂ emissions for use in policy assessment. To date, the 2010 interagency SCC values have been used to evaluate at least 17 rules at various stages in the rulemaking process by the EPA, the Department of Transportation (DOT), and the Department of Energy (DOE).

To estimate the SCC, the working group used three different peerreviewed models from the academic literature of the economic costs of climate change and tackled some key issues in computing those costs. One issue is the choice of the discount rate used to compute the present value of future costs: because many of the costs occur in the distant future, the SCC is sensitive to the weight placed on the welfare of future generations. Another issue is how to handle some of the uncertainty surrounding climate projections. Box 6-2 explains how the working group dealt with uncertainty about the equilibrium climate sensitivity, which serves as a proxy for the climate system's response to greenhouse gas emissions.

The working group report provided four values for the social cost of emitting a ton of CO₂ in 2011: \$5, \$22, \$36, and \$67, in 2007 dollars. The first three estimates, which average the cost of carbon across various models and scenarios, differ depending on the rate at which future costs and benefits are discounted (5, 3, and 2.5 percent, respectively). The fourth value, \$67, comes from focusing on the worst 5 percent of modeled outcomes, discounted at 3 percent. All four values rise over time because the marginal damages increase as atmospheric CO₂ concentrations rise.

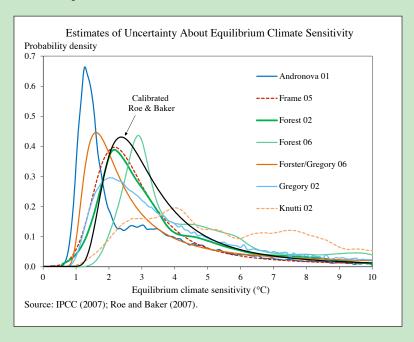
The SCC study acknowledged that these estimates, while a substantial step forward, need refinement, for example by a more complete treatment of some damage categories. A detailed discussion of the methodology can be found in Greenstone, Kopits, and Wolverton (2013). The interagency working group has committed to update its estimates of the SCC as the literature evolves and as new scientific and economic evidence become available.

Policy Implications of Scientific and Economic Uncertainty

As a general matter, policy decisions must commonly be made in the presence of uncertainty. A standard approach for cost estimation or policy evaluation in the presence of uncertainty is to consider different scenarios and to compute a weighted average (expected value) over those scenarios. But in some cases it is difficult to quantify this uncertainty. In particular, some of the unknowns about climate change concern extreme scenarios that are far outside recorded human experience. Although such events are

Box 6-2: Handling Uncertainty About Equilibrium Climate Sensitivity

The 2010 Federal study on the social cost of carbon (SCC) used three integrated economic-geophysical models to estimate the cost of climate change: the DICE model, the PAGE5 model, and the FUND model.¹ The costs estimated by each model are sensitive to climatic, economic, and emissions parameters. A key input parameter for each model is the equilibrium climate sensitivity, defined as the increase in the long-term annual global-average surface temperature increase associated with a doubling of atmospheric carbon dioxide (CO₂) concentration relative to pre-industrial levels.



The Intergovernmental Panel on Climate Change (IPCC 2012) suggests a range for the equilibrium climate sensitivity of 2–4.5°C (3.2–7.2°F), but the scientific uncertainty extends outside this range. The figure shows distributions of possible values of this parameter arising from different studies; each line in the figure corresponds to a given study, and the higher the line, the greater the chances (according to that study) of the corresponding value of the equilibrium climate sensitivity.

¹ The DICE model was developed by William Nordhaus, David Popp, Zili Yang, Joseph Boyer, and colleagues. The PAGE model was developed by Chris Hope with John Anderson, Paul Wenman, and Erica Plambeck. The FUND model was developed by David Anthoff and Richard Tol.

Although the distributions from different studies differ, each holds open the possibility that the value of this parameter might be very large.

This range of uncertainty over the equilibrium climate sensitivity matters for estimating the economic costs of carbon emissions: a higher value implies a more amplified response of temperature to carbon emissions, which would be associated with greater human consequences. To handle this uncertainty, the task force adopted a standard approach used by economists, which is to compute a weighted average—technically, an expected value—where the weighting reflects the uncertainty in the scientific literature. Specifically, simulations were run for many values of the equilibrium climate sensitivity drawn randomly from an assumed probability distribution and the results were averaged, producing the expected value for the SCC. The resulting SCC estimate incorporates the uncertainty in the equilibrium climate sensitivity.

therefore difficult to quantify, the possibility of very severe outcomes can and should inform policy.

One principle of policy design under uncertainty is that the policy should be able to adapt as more is learned and the uncertainty is resolved; another is that a policy should be robust to uncertainty. A robust policy aims to give acceptable outcomes no matter what happens, within a given range of possible outcomes. As applied to climate change, this idea of robust policy in the face of uncertainty leads to policies that avoid worst-case outcomes. Such an approach has been advocated by Weitzman (2009, 2011), who argues that, when considering the expected damages of unmitigated global climate change, it is important to consider low probability but potentially catastrophic impacts that could occur. By focusing on avoiding the most costly climate outcomes, a climate change policy that is robust to scientific uncertainty would be more aggressive than a policy that simply focuses on quantifiable uncertainty or a consensus temperature path. If future scientific knowledge were to determine that the worst outcomes could be ruled out, then a robust policy could be adjusted. Thus, although uncertainty complicates the task of computing costs, it is not in itself a reason for inaction or delay.

² An important early paper on policymaking under uncertainty is Brainard (1967). Recent work in economics on robust policy in the face of model uncertainty includes Hansen and Sargent (2001, 2007), Giannoni (2002), Onatski and Stock (2002), and Funke and Paetz (2011).

CARBON EMISSIONS: PROGRESS AND PROJECTIONS

The past five years have seen a remarkable turnaround in U.S. emissions of carbon dioxide. As can be seen in Figure 6-2, from the early 1980s through the mid-2000s, energy-related CO, emissions increased from approximately 4,500 million metric tons (MMT) to a peak of just over 6,000 MMT in 2007. Since 2007, however, emissions have fallen sharply to approximately 5,500 MMT in 2011, the most recent year for which there is complete data. Indeed, as shown in the figure, this reduction in emissions makes significant progress toward achieving the Copenhagen Accord target of a 17 percent reduction in greenhouse gas emissions below 2005 levels by $2020.^{3}$

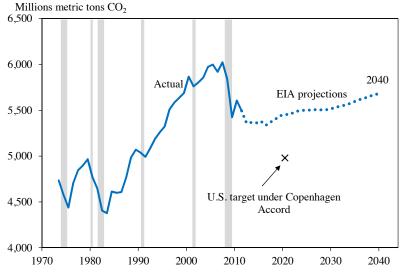
A natural question is what set of new events or initiatives led to the sharp reduction in emissions. There are a number of candidate explanations: reductions in the carbon content of energy, most notably the substitution of natural gas and renewables for coal; improvements in economy-wide energy efficiency; and unexpectedly low energy demand because of the recession. To estimate the contribution of these factors to the decline in emissions, one needs to posit a counterfactual path for these three variables, that is, for the carbon content of energy (CO, per British thermal unit, or Btu), energy use per dollar of gross domestic product (Btu/GDP), and GDP. Given a counterfactual, or baseline, path for these variables, one can decompose the decline in carbon emissions to a decline in the carbon content of energy, an accelerated improvement in energy efficiency, or a shortfall of GDP, relative to the baseline path. Because the question focuses on the role of new developments, a natural approach is for the baseline to be a business-as-usual projection from a given starting point. For the purpose of this exercise, the starting point is taken to be the 2005 values of the carbon content of energy, energy efficiency, and GDP; the business-as-usual projections are made either by using historical published forecasts or by extrapolating historical trends.

The results of this decomposition estimate that actual 2012 carbon emissions are approximately 17 percent below the "business as usual" baseline. As shown in Figure 6-3, of this reduction, 52 percent was due to the recession (the shortfall of GDP, relative to trend growth), 40 percent came

³ United Nations Framework Convention on Climate Change, Appendix I, http://unfccc.int/ meetings/copenhagen_dec_2009/items/5264.php.

⁴ Specifically, CO₂ emissions are the product of (CO₂/Btu)×(Btu/GDP)×GDP, where CO₂ represents U.S. CO, emissions in a given year, Btu represents energy consumption in that year, and GDP is that year's GDP. Taking logarithms of this expression, and then subtracting the baseline from the actual values, gives a decomposition of the CO, reduction into contributions from clean energy, energy efficiency, and the recession.

Figure 6-2 U.S. Energy-Related Carbon Dioxide Emissions, 1973–2040



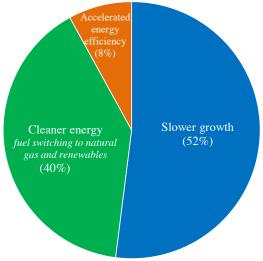
Note: Shading denotes recession. Source: EIA (2012b).

from cleaner energy (fuel switching), and 8 percent came from accelerated improvements in energy efficiency, relative to trend. Of the cleaner energy improvements, most (approximately two-thirds) came from reductions in emissions from burning coal. Reductions in emissions from petroleum combustion also made important contributions (approximately one-third), as these high-carbon content fuels were replaced by lower carbon-content natural gas and clean renewable energy sources, notably wind and biofuels. The contribution from energy efficiency stems from efficiency improvements over the 2005–12 period that were faster than projected; in particular, the Energy Information Administration (EIA 2005) forecast a reduction in the energy content of GDP of 1.6 percent per year, but energy efficiency improved by more than this forecast.⁵

As the economy improves, GDP will rise, and the weakness of the economy in 2007-09 will no longer restrain energy consumption. Thus if the recent reductions in emissions are to be continued, a greater share will need to be borne by fuel switching into natural gas and into zero-emissions renewables, and by accelerating improvement in economy-wide energy efficiency.

⁵ Houser and Mohan (forthcoming) undertake a similar decomposition. They use different assumptions for the baseline, including somewhat stronger post-2005 GDP growth in the "business as usual" case than is assumed here, and as a result attribute slightly more of the post-2005 reduction in CO₂ emissions to slower economic growth.

Figure 6-3 Decomposition of CO₂ Emission Reductions, 2005–2012



Source: Bureau of Economic Analysis, National Income and Product Accounts; EIA (2013); CEA calculations.

POLICY RESPONSES TO THE CHALLENGE OF CLIMATE CHANGE

As a general matter, government intervention may be warranted if an individual's action produces a negative externality; that is, if the action imposes costs on another person and those costs are not borne by the person taking the action. As with many environmental problems, the impacts of pollution are broadly shared by society, and individuals emitting pollution do not bear the full, direct costs of their individual action (or reap the full benefits individually of reducing pollution). In the case of anthropogenic emissions of greenhouse gases, the costs of climate change are borne by others, including future generations, and those costs are not reflected in the price of greenhouse gas emissions. This market failure is also present in reverse: an entrepreneur with a clever idea for reducing greenhouse gas emissions, such as a novel energy conservation technology, cannot recoup the full benefit of her innovation because there is no way she can charge those who will benefit from the abatement of those emissions.

This diagnosis of the market failure underlying climate change clarifies the need for government to protect future generations that will be affected by today's emissions. Responding to the challenge of climate change leads to a multipronged approach to policy. Four such responses are implementing market-based solutions; technology-based regulation of greenhouse gas emissions; supporting the transition of the U.S. energy sector to technologies, such as renewables and energy efficiency, that reduce our overall carbon footprint; and taking actions now to prepare for those impacts that are by now unavoidable.

Market-Based Solutions

In his 2013 State of the Union Address, President Obama urged Congress to pursue a bipartisan, market-based solution to climate change. Market-based solutions to greenhouse gas emissions provide economic incentives so that the cost of polluting reflects the economic harm caused to others by that pollution. In this sense, market-based solutions are said to "internalize" the externality caused by the pollution. Under the standard assumptions of economic theory, market-based solutions to pollution are economically efficient because those who create the externality can choose the least costly and disruptive way to reduce their emissions. Under marketbased solutions, the effective price of the activity producing the negative externality is adjusted so that it reflects the cost of that externality. There are various ways that market-based solutions can be implemented, one of which is a cap-and-trade system like the one Senators McCain and Lieberman worked on.6

Another example of a market-based solution is a Clean Energy Standard that would require electric utilities to obtain an increasing share of delivered electricity from clean sources but would allow them to meet the standard by trading clean-energy credits. By allowing trading in credits, electric utilities that produce renewable energy at relatively low cost can sell credits to those for which renewable production would be high-cost. Thus the total cost across all utilities of meeting the standard is reduced, relative to the cost were each utility required to meet the standard without tradable credits. In this way, a market for clean energy credits harnesses privatesector incentives to minimize the cost of generating electricity from clean energy sources.7

Direct Regulation of Carbon Emissions and the Vehicle Greenhouse Gas / Corporate Average Fuel Economy (CAFE) Standards

Another way to address the externality of carbon emissions is by direct regulation. In 2007, the Supreme Court ruled in Massachusetts v. EPA that it is incumbent upon the EPA to determine whether greenhouse gases

⁶ For a more detailed discussion of cap-and-trade, see the 2010 Economic Report of the President, chapter 9.

⁷ For further discussion of a Clean Energy Standard, see the 2012 Economic Report of the President, chapter 6.

pose a risk to public health or welfare and, if so, to regulate greenhouse gas emissions under the Clean Air Act. In 2012, the U.S. Court of Appeals for the District of Columbia Circuit upheld the EPA's authority to regulate greenhouse gas emissions.

The Administration's corporate average fuel economy (CAFE) and greenhouse gas regulations, released in 2012 jointly by the EPA and the DOT, require automakers to increase the fuel economy of passenger cars and light trucks so that they are estimated to achieve 54.5 miles per gallon by 2025, approximately doubling the previous mileage standards.⁸ The new fuel economy standards are expected to save more than 2 million barrels of oil a day by 2025—more than we import from any country other than Canada—and to reduce consumer expenditures on gasoline. The standards are projected to reduce annual CO_2 emissions by over 6 billion metric tons over the life of the program, roughly equivalent to the emissions from the United States in 2010 (White House 2011a).

The new fuel economy standards help to correct the externality that the cost of carbon emissions is not accounted for in the price of gasoline. The standards also provide a clear signal to the thousands of firms in the auto supply chain that investments in fuel-saving innovation will pay off. These innovations range from large (batteries for electric cars) to small (lighter-weight bolts), and often require suppliers to coordinate with each other. For example, use of innovative high-strength steels can reduce the overall weight of a vehicle, but only if firms making automotive parts and those making tooling for the parts each invest in new production processes (Helper, Krueger, and Wial 2012). The new standards ensure demand for fuel-saving innovations and thus provide an incentive for such investments.

Energy Efficiency

An important way to reduce greenhouse gas emissions is to use energy more efficiently, that is, to use less energy to provide a given service outcome. For example, weatherizing a home improves efficiency by requiring less energy to maintain a given inside temperature. Using less energy, in turn, reduces greenhouse gas emissions.

The Administration has made energy efficiency initiatives an important component of its energy plan. These initiatives include major research

⁸ Because the standards regulate greenhouse gas emissions, they can be met in part in ways that do not improve fuel economy. In particular, if improvements are made by reducing leakage of greenhouse gases in auto air conditioners, or by replacing refrigerants with non-greenhouse gases, then the goal of reducing greenhouse gas emissions is achieved without improving fleet fuel economy.

http://www.whitehouse.gov/sites/default/files/email-files/the_blueprint_for_a_secure_energy_future_oneyear_progress_report.pdf

investments to improve the efficiency of building designs and components such as lighting, heating, and air conditioning, along with smart building controls. Other important initiatives include the weatherization of more than 1 million homes across the country, the President's Better Buildings Challenge with \$2 billion in private-sector commitments to energy efficiency retrofits, new standards for residential and commercial appliances, and the Rural Energy for America Program. The Administration has also introduced a variety of programs to help consumers learn about developments in energy efficiency; one such example is the Home Energy Score, a new voluntary program from the DOE to help homeowners make cost-effective decisions about energy improvements. Additionally, as part of a broader manufacturing strategy, the Administration has partnered with manufacturing companies representing more than 1,400 plants that plan to make investments that will improve energy efficiency by 25 percent over 10 years.

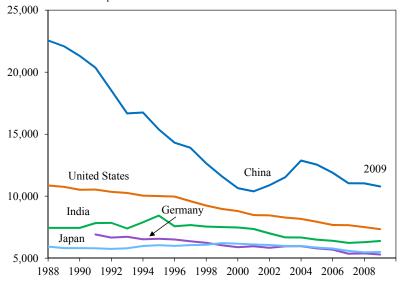
An overall measure of economy-wide energy use is the amount of energy needed to generate a dollar's worth of goods and services ("energy intensity"). As is shown in Figure 6-4, the energy intensity of the U.S. economy has fallen steadily over the past quarter century, with an annual average rate of decline of 1.7 percent from 1990 through 2011. However, U.S. energy intensity is still one-third higher than that of Germany and Japan, in part because Germany and Japan have automobiles and building codes that are more energy efficient, as well as smaller homes set more densely.¹⁰

One reason for the decline in the energy intensity of the U.S. economy is the increasing importance of services as a share of U.S. GDP. Manufacturing is more energy-intensive than is the production of services, and for decades the share of U.S. GDP derived from services has been growing while the share derived from manufacturing has been declining. This shift from manufacturing to services therefore has reduced the energy intensity of the U.S. economy.

To control for changes in the energy-GDP ratio driven by changes in the sectoral composition of output, the DOE developed an "Economy-wide Energy Intensity Index." This index estimates the amount of energy needed to produce a basket of goods in one year, relative to the previous year. As indicated in Figure 6-5, between 1985 and 2010, the DOE Energy Intensity Index fell by 14 percent. In contrast, the energy-GDP ratio fell by 33 percent. Thus, while much of the decline in energy usage per dollar of GDP has come from improvements in energy efficiency, much of it has also come from

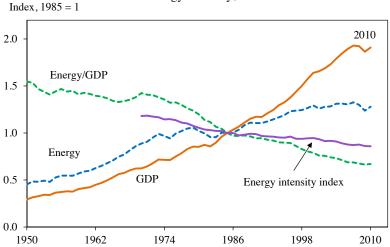
¹⁰ In neither Germany nor Japan is the lower energy intensity due to having less manufacturing than the United States. In fact, manufacturing (an energy-intensive sector) is almost twice as high as a share of GDP in Germany as it is in the United States.

Figure 6-4
Energy Use per Dollar of GDP, Selected Countries, 1988–2009
British thermal unit per 2005 U.S. dollar



Source: Energy Information Administration, International Energy Statistics.

Figure 6-5 U.S. Energy Intensity, 1950–2010



Note: "Energy" is the amount of energy consumed (measured in Btu) compared to 1985 levels.

Source: Department of Energy, Office of Energy Efficiency and Renewable Energy, Energy Intensity Indicators: Trend Data.

[&]quot;Energy/GDP" is energy consumed divided by GDP, compared to 1985 levels. The energy intensity index is available starting in 1970.

factors other than improved efficiency such as shifts in the composition of output.

The energy intensity index measures the energy footprint of U.S. production, not of U.S. consumption. This distinction arises because energy intensity includes energy used to produce exported goods and services (which are not consumed domestically) and excludes energy used to produce imports. To estimate the CO_2 intensity of consumption, as opposed to the CO_2 intensity of production, one needs to adjust U.S. CO_2 emissions for the difference of foreign emissions in the production of imports less domestic emissions in the production of exports.

Technical developments that use less energy to provide a service, such as maintaining a room at a comfortable temperature, can both reduce energy consumption and improve consumer welfare. Because technical improvements in energy efficiency reduce the energy cost of the service, consumers are better off, and because the price of the service declines, they might use more of it. For example, weatherizing a home might tempt the homeowner to bump up the thermostat a couple of degrees. This consumer response of using more of the newly efficient service is known as the rebound effect. The magnitude of the rebound effect depends on the particular service, more specifically on the elasticity of demand for the service. Viewed solely through the lens of CO₂ reduction—a lens that is appropriate because CO₂ emissions are underpriced—the rebound effect suggests that government efforts on energy efficiency should emphasize services with inelastic demand, so that price changes do not substantially alter service consumption and actual energy savings approach the technically feasible energy savings.

One such example is the services derived from automobiles. In the context of the vehicle greenhouse gas-CAFE standard discussed earlier, the EPA assumes a rebound effect of about 10 percent¹¹, that is, consumers will drive about 10 percent more than if the efficiency of their vehicles had not increased (EPA 2010b). In their reviews of the rebound effect, Greening, Greene, and Difiglio (2000) and Gillingham et al. (2013) suggest more generally that the rebound effect tends to range between 10 percent and 30 percent. Although much has been written on the rebound effect, the base of original research is limited, and more research is needed concerning the rebound effect (and the associated price elasticities) empirically, both in the short and long run.

 $^{^{11}}$ The EPA rebound estimate draws on the literature, for example, Small and Van Dender (2007).

ENERGY PRODUCTION IN TRANSITION

The United States is in a period of swift and profound change in the way that energy is produced and consumed. Thanks to recent advances in technology, more of the country's domestic oil and gas resources are now accessible. As a result, U.S. oil production has climbed to the highest level in 15 years and natural gas production reached an all-time high. This increase in domestic oil production enhances energy security, and increased natural gas production has substituted for coal, which reduces CO₂ emissions per unit of energy produced. At the same time, the Obama Administration has taken historic steps to promote greater energy efficiency and the deployment of renewable energy across the U.S. economy. In the past five years, the United States has more than doubled non-hydroelectric renewable electricity generation. The Administration is working to continue these trends through a comprehensive "all of the above" approach to energy policy that takes advantage of all domestic energy resources, while also igniting the innovation needed to lead the world in clean energy.

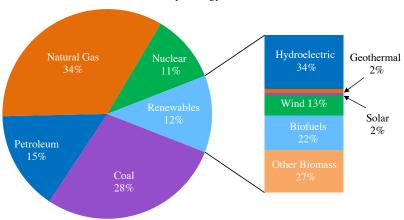
The transformation of the U.S. energy sector to one with a smaller carbon footprint is central to climate change policy. As Figure 6-6 shows, approximately 77 percent of U.S. energy production in 2011 came from burning fossil fuels, and the remaining 23 percent was approximately evenly split between nuclear and renewables. In broad terms, the share of natural gas (the fossil fuel with the lowest carbon content) and the share of renewables have been expanding, displacing the share of coal (the fossil fuel with the highest carbon content).

Oil and Natural Gas

New developments in exploration and production techniques and technology have made the extraction of new sources of oil and natural gas economically viable, resulting in a U.S. production boom. Figure 6-7 shows the changing consumption and production trends of natural gas in the United States, along with the U.S. share of global production since 2000. As a result of the developments in shale gas production, total U.S. natural gas production rose 27 percent, from 18.1 trillion cubic feet in 2005 to 23.0 trillion cubic feet in 2011, and wellhead prices fell 46 percent, from \$7.33 per thousand cubic feet to \$3.95 per thousand cubic feet. In 2011, for the first time in 30 years, energy production from dry natural gas exceeded energy production from coal.

The benefits of increased production of natural gas are observed throughout the U.S. economy. In recent years, low energy costs have become a competitive advantage to the U.S. industrial sector. Additionally, low

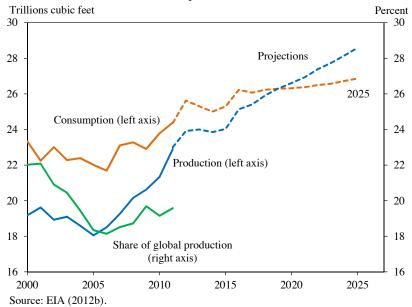
Figure 6-6
Total U.S. Primary Energy Production, 2011



Note: Natural gas includes natural gas plant liquids.

Source: EIA (2012a).

Figure 6-7 U.S. Natural Gas Consumption and Production, 2000–2025



prices for byproducts of natural gas such as methane, ethane, and propane spur growth in agriculture, petrochemical manufacturing, and other industries that use these byproducts.

In the power sector, burning natural gas produces nitrogen oxides, carbon dioxide, and other pollutants, but in lower quantities than burning coal or oil. The life-cycle emissions of greenhouse gases from a combinedcycle natural gas plant is roughly half that of a typical coal-fired power plant per kilowatt hour (Logan et al. 2012). On the other hand, methane, a primary component of natural gas and a greenhouse gas, can be emitted from natural gas systems into the atmosphere through production processes, component leaks, losses in transportation, or incomplete combustion. Measuring fugitive methane emissions from the U.S. natural gas supply chain and, more generally, understanding the potential impacts of natural gas development on water quality, air quality, ecosystems, and induced seismicity, are critical to understanding the impact on the environment of the increasing use of natural gas.

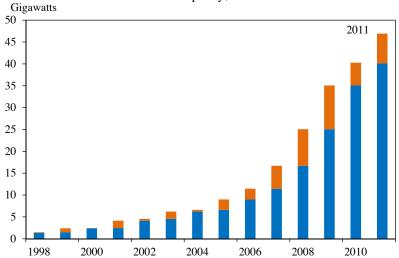
Renewable Energy

In the long run, large reductions in carbon emissions require large increases in energy production from zero-emissions sources, especially renewable energy. In the beginning of his Administration, President Obama set a goal of doubling U.S. renewable energy generation capacity from wind, solar, and geothermal sources by 2012. This ambitious goal has been achieved, thanks both to the Administration's historic investments in clean energy technologies and to decades of government-funded research and development (R&D) aimed at driving costs down to the point where renewable energy is competitive with traditional fossil-fuel energy.

Since 2008, the most significant increase in renewable energy production has been in wind energy. The dramatic increase in wind generating capacity is shown in Figure 6-8. In 2011, wind power constituted more than 30 percent of new additions to U.S. electric generating capacity: close to 6.8 gigawatts of new wind generating capacity was installed in the United States, representing an investment of \$14 billion. Wind energy supplies 20 percent of electricity consumption in some states, including Iowa and South Dakota. As a nation, the United States accounts for 20 percent of total global wind power generation and 16 percent of global installed capacity. In 2012, wind power provided more than 3 percent of the nation's electricity generation (EIA 2013b).

The Administration also continues a strong commitment to the development and promotion of solar energy. An important aim is bringing the cost of solar photovoltaics down closer to grid parity with traditional,

Figure 6-8
Annual and Cumulative Growth in U.S.Wind
Power Capacity, 1998–2011



Note: Orange bars are annual additions to capacity and blue bars are total installed capacity at the outset of the year.

Source: DOE (2012b).

fossil sources of energy, including natural gas. The Administration's support for solar energy has included more than \$13 billion since September 2009 through DOE programs for solar-related projects, including applied R&D, demonstrations, and the DOE clean energy loan guarantee program. In 2011, the DOE launched an ambitious new effort, the Sunshot Initiative, aimed at reducing the installed costs of solar energy systems of all sizes (residential, commercial, and utility) by an additional 75 percent by the end of the decade.

Solar photovoltaic capacity is growing rapidly, with current installed capacity estimated to be approximately 4 gigawatts.¹² The Interstate Renewable Energy Council estimates that grid-connected photovoltaic capacity increased more than tenfold between 2007 and 2011.

President Obama has set a goal of once again doubling generation from wind, solar, and geothermal sources by 2020, and has called on Congress to make the renewable energy Production Tax Credit permanent and refundable, as part of comprehensive corporate tax reform, providing incentives and certainty for investments in clean energy.¹³

¹² The Interstate Renewable Energy Council (IREC), the Solar Energy Industries Association (SEIA), and the National Renewable Energy Lab (NREL).

¹³ http://www.whitehouse.gov/sites/default/files/uploads/sotu_2013_blueprint_embargo.pdf.

Advanced Technologies and R&D

The Federal Government also has an important role to play in R&D involving frontier fossil-fuel technologies. Notably, the Administration has invested nearly \$6 billion in clean coal technology R&D—the largest such investment in U.S. history—and this strategy has attracted more than \$10 billion in additional private sector capital investment. Clean coal technology involves removing CO₂ from flue gases released from burning coal, then preventing its escape into the atmosphere by injecting it underground, a process known as carbon capture and sequestration. The recovered CO₂ can potentially be used to recover hard-to-reach oil reserves, partially offsetting the carbon capture costs. Another clean coal technology in the R&D stage is hydrogen production from coal, in which the highly concentrated CO₂ stream is captured and sequestered. Advanced technologies also have the potential to make natural gas burn even cleaner by capturing and storing CO₂ emissions, and the government has a role to play in encouraging research into these technologies.

Federal research efforts on zero- and reduced-emissions energy sources extend into other domains as well, including research toward shifting cars and trucks to nonpetroleum fuels.

PREPARING FOR CLIMATE CHANGE

The policies discussed so far aim to reduce emissions of greenhouse gases and thereby to stem future costs of climate change. But the climate has not yet fully adjusted to current levels of greenhouse gases, and ongoing anthropogenic emissions will continue to increase greenhouse gas concentrations because CO₂ remains in the atmosphere for centuries. Thus, while it is important for all countries to sharply reduce CO₂ emissions to limit the extent of further climate change, even with the most concerted international efforts additional climate change is inevitable. We therefore face a world with an unavoidably changing climate for which we need to prepare.

Policies to prepare for climate change occur at many scales. At the local level, preparing for climate change can entail changing building codes to make structures more storm- and flood-resistant and investing in stronger community planning and response. More substantially, destructive effects of coastal storms can be partially dissipated by restoring natural storm barriers such as tidal wetlands, sand dunes, and coastal barrier landforms.

National policies to prepare for climate change range from providing information about likely changes in local climates and weather patterns, to supporting further research on and monitoring of climate change and its consequences, to providing proper incentives for individuals to prepare for climate change. For example, federal insurance programs, such as the Agriculture Department's crop insurance program and the Federal Emergency Management Agency's flood insurance program, provide insurance either with a subsidy or where there is no private market (that is, the price a private insurer would charge would exceed what a purchaser would be willing to pay). Revisiting federal insurance subsidies could encourage practices that could be increasingly important in the face of accelerating climate changes, such as farmers planting drought-resistant varietals or homeowners building or renovating away from flood plains.

Preparing for climate change will also entail larger-scale infrastructure investments. Some of these investments involve maintaining existing infrastructure. For example, a 2007 investigation by the American Society of Civil Engineers reported that chronic underfunding of the New Orleans hurricane protection system was one of the principal causes of the levee failures after Hurricane Katrina, a storm that inflicted over \$110 billion of damages.

Other investments involve enhancing or extending existing infrastructure. For example, the electric power grid can be made more resilient to increasingly severe storms and rising sea levels by using smart grid technology, which pinpoints outage locations and helps to isolate outages, reducing the risk of widespread power shutdowns. The Recovery Act provided the single largest smart grid investment in U.S. history (\$4.5 billion matched by an additional \$5.5 billion from the private sector), funding both the Smart Grid Investment Grant and Smart Grid Demonstration programs, among others, to spur the Nation's transition to a smarter, stronger, more efficient, and more reliable electricity system (White House 2011b).

Conclusion

The scientific consensus is that the anthropogenic emission of green-house gases is causing climate change. The results can be seen already in higher temperatures and extreme weather, and these are but precursors of what lies ahead. Although greenhouse gas emissions and climate change are global problems, the United States is in a unique position to tackle these challenges and to provide global leadership.

The Nation has made substantial progress toward the Administration's ambitious short-term Copenhagen targets for reducing emissions of carbon dioxide, but much difficult work lies ahead. Undertaking this work, which reflects the Administration's commitment to future generations, entails many policy steps that are economically justified by the negative externalities imposed by greenhouse gas emissions. Policies to reduce emissions of greenhouse gases include market-based policies; encouraging energy

efficiency; direct regulation; encouraging fuel switching to reduced-emissions fuels; and supporting the development and widespread adoption of zero-emissions energy sources such as wind and solar. And, as the country reduces emissions along this path, it also needs to prepare for the climate change that is occurring and will continue to occur. Together these policies pave the way toward a sustainable energy future.



CHAPTER 7

INTERNATIONAL TRADE AND COMPETITIVENESS

The United States is more closely linked with other nations through trade, investment, and financial flows than ever before. For example, total trade in goods and services as a share of gross domestic product (GDP) was approximately 31 percent in 2012, compared with 26 percent in 2000 and 11 percent in 1970. International linkages are also reaching more deeply than ever before into the organization of industries and firms. U.S. companies are increasingly part of global supply chains, in which firms buy inputs from subcontractors located in many countries. These linkages bring both challenges and opportunities for the U.S. economy and for government policy. Macroeconomic shocks and policies halfway around the world have direct effects on growth, employment, and national balance sheets here at home, just as shocks and policies in the United States affect economies across the globe.

Significant opportunities are available for U.S. firms to expand exports and create jobs, for resources to be allocated to their most productive uses, for innovation to flourish, and for consumers to enjoy higher incomes, lower prices, and expanded choice. These opportunities, however, have been accompanied by job displacement, downward wage pressures, and other adjustment costs. Government policy plays an important role in providing infrastructure and incentives that reduce these adjustment costs, promote the creation of middle-class jobs, and foster innovative ecosystems in the private sector. Administration policies in both trade and competitiveness seek to create a fair, firm foundation for the long-term prosperity of the United States and its trading partners.

THE WORLD ECONOMY AND U.S. TRADE

Fiscal consolidation, weak financial systems, and market uncertainty have adversely affected demand in many advanced economies, and world economic growth has suffered. In 2012, there were a number of shocks to global growth, including the impact of financial stresses in Europe that reached a peak in mid-summer. Given the globalized nature of world trade and finance, the United States cannot fully escape the impact of development in other nations.

Growth in World Economies

Unlike the U.S. economy, which has sustained positive economic growth for the past three years, several of the nation's major trading partners have slipped into economic contraction. In 2012, the euro area fell into recession once again, as severe austerity measures put in place to combat the region's debt crisis impeded growth. The International Monetary Fund (IMF) estimates that in 2012, the euro area economy contracted 0.4 percent, compared with growth of 2.0 percent in 2010 and 1.4 percent in 2011. While Japan was temporarily able to recover from the harsh economic slowdown resulting from the earthquake and tsunami that struck the country in early 2011, slower global demand and the phase-out of reconstruction spending brought the third largest economy in the world back into recession.

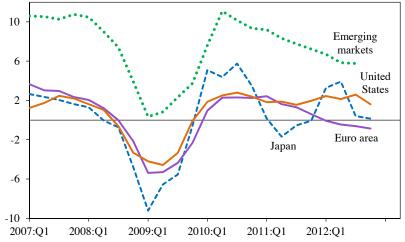
With the euro area, Japan, and the United States accounting for almost half of global GDP, slower average growth in these economies was sufficient to lower growth at the global level. Emerging market economies have relied on import demand from these large, high income economies to sustain high growth for over a decade. As import demand has weakened, particularly from Japan and Europe, economic growth in emerging markets has decelerated as well (Figure 7-1). For example, in 2012:Q2, real GDP in China grew approximately 5.65 percent at an annual rate, the lowest quarterly GDP growth China has recorded since the beginning of the global slowdown in 2008.

The Euro Crisis

After financial tensions reached a peak in mid-2012, steps were taken by both the governments of Europe and the central bank to reassure markets of the integrity of the euro area and to begin the process of reforms. In the summer of 2012, the European Central Bank announced it stood ready to stabilize the bond markets of any member state in a reform program, while governments launched the European Stability Mechanism (ESM), a joint fund to provide direct loans to governments that replaces the temporary European Financial Stability Fund (EFSF). These firewalls against financial contagion have helped restore confidence, allowing Ireland and Portugal to begin their return to financial markets. In Greece, meanwhile, European

Figure 7-1
Real GDP Growth by Country, 2007–2012

Four quarter percent change



Note: Data through 2012:Q4 for all but emerging markets, for which data is available only for 2012:O3

Source: Country sources; U.S. Department of Commerce, Bureau of Economic Analysis; Cabinet Office of Japan; Statistical Office of the European Communities; CEA calculations.

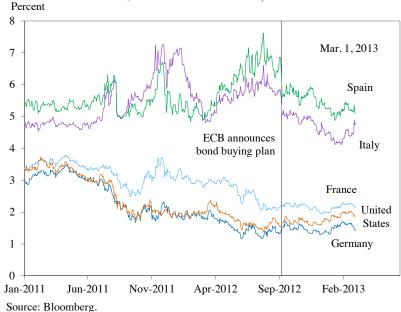
governments made important concessions in a redesigned program that reduces Greek borrowing costs and supports continued reforms.

The combined impact of these measures produced noticeable results. Bond yields in vulnerable countries fell dramatically to more sustainable levels; in the week of the announcement of the bond buying plan, Spanish 10-year bond yields declined from 6.9 percent to 5.6 percent, and Italian 10-year bond yields fell from 5.8 percent to 5.0 percent (Figure 7-2).

Meanwhile, European authorities have taken important measures to ensure that their banks have access to liquidity and hold adequate capital. The authorities have also committed to launching a banking union with a single supervisor and a European facility to recapitalize banks in troubled countries where the governments are already facing problems managing their debts. Uncertainty remains about access to a capital backstop as well as about prospects for euro area institutions for common resolution and deposit guarantees.

Finally, while the global recovery is clearly underway, European nations are still facing challenges. The euro area reentered recession in 2012, and the IMF in January forecast a further contraction of 0.2 percent in 2013 with continuing declines in output in Italy and Spain. Unemployment in the euro area is hitting record highs, with 2012 unemployment rates in Greece

Figure 7-2 10-Year Government Bond Yields, 2011–2013



and Spain in excess of 23 percent (Table 7-1). Sustained fiscal consolidation and the deleveraging in the banking and business sectors in the euro area continue to act as headwinds to growth. Even as European leaders continue to undertake structural reforms aimed at increasing competitiveness over the medium term, markets remain sensitive to growth and reform prospects in large economies, including countries like France, Italy and Spain. Meanwhile, a number of countries with stronger budget positions, including Germany and the Netherlands, are running significant balance of payments surpluses and thus are not an important source of demand for the European recovery. More broadly, the euro area's combined trade surplus, after adjusting for the effect of commodity prices, is rising quite rapidly, contributing to global imbalances. Weaker European economies are closing their trade deficits as imports decline with fiscal consolidation and contracting domestic demand, and Germany's current account surplus has risen back to its pre-crisis level of 6 percent thanks to the strong performance of German exports around the world.

While we are making progress on increasing U.S. exports, these also depend on expansion in overseas markets. Europe is a significant destination for American exports, accounting for more than 20 percent of U.S. goods exports and almost 40 percent of U.S. service exports. Europe is also the leading foreign source of investment in America, accounting for more

Table 7-1
Euro Area Selected Economic Indicators

	Greece		Spain		Italy		Germany	
	2009	2012	2009	2012	2009	2012	2009	2012
GDP growth (percent)	-3.3	-6.0	-3.7	-1.4	-5.5	-2.1	-5.1	0.9
Unemployment rate (percent)	9.5	23.8	18.0	25.1	7.8	10.6	7.8	5.5
Current account balance (percent of GDP)	-11.2	-2.9	-4.8	-0.8	-2.0	-1.5	5.9	6.4
Primary budget balance (percent of GDP)	-10.4	-1.7	-9.9	-4.5	-1.0	2.6	-0.9	1.4
General government debt (percent of GDP)	128.9	170.7	53.9	90.7	116.0	126.3	74.7	83.0

Source: IMF (2012); European Commission Statistical Office.

than 70 percent of all foreign direct investment in the United States in 2011. Global and U.S. economic performance will depend, in part, on continuing progress to resolve Europe's challenges.

Global Imbalances

"Global rebalancing" has been one of the Administration's major international economic policy goals for the past four years. In June 2012, the G-20 nations reiterated their support for this goal, calling upon countries with current account deficits to boost national savings, consistent with evolving economic conditions, and for countries with large current account surpluses to strengthen domestic demand and move toward greater exchange rate flexibility.

A country's current account consists predominantly of the difference between its exports and its imports of goods and services (other factors include net income on overseas assets and unilateral transfers such as foreign aid and remittances). A current account deficit occurs when a country's absorption (the sum of domestic consumption, investment and government spending) exceeds its production. In this case, it must either borrow from abroad or sell foreign assets. Current account deficits in certain countries correspond to current account surpluses in others. A current account deficit may indicate that a country offers sound investment opportunities, or it may be caused by investment bubbles or fiscal deficits. Large and persistent current account surpluses can occur when governments intervene in financial markets to prevent market-driven adjustments in interest rates and exchange rates from taking place. While large current account imbalances may not directly cause financial crises, they often indicate underlying dynamics that are unsustainable and thus have historically been important precursors to financial crises (Reinhart and Rogoff 2011).

Before the 2008 crisis, the United States was running a large current account deficit financed by surpluses from creditor nations such as China and Japan, a situation that Federal Reserve Chairman Ben Bernanke referred to as the "global saving glut" (Bernanke 2005). In China, for example, low levels of social insurance and policies designed to encourage excessive saving by firms contributed to large surpluses (Obstfeld 2012). From 2000 to 2007, the U.S. deficit ballooned to more than 5 percent of GDP, while current account surpluses in China, Germany, and Japan grew to 10, 7, and 5 percent of GDP, respectively. Current account deficits in Europe's periphery reached alarming levels. The surplus countries came to rely on unsustainable growth in net exports to drive their economies. The deficit countries relied on unsustainable growth in household consumption, construction of residential real estate, and government budget deficits for economic growth.

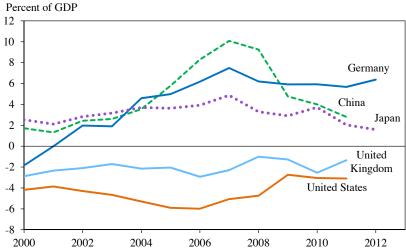
The crisis of 2008 brought about a distinct change in global imbalances: the U.S. current account deficit shrank to 3 percent of GDP in 2009, while current account surpluses in China and Japan dropped as well (Figure 7-3). The Administration, along with the wider international community, continues to press for a more balanced approach to growth in the world. Greater reliance on consumption, and less on exports and investment, will provide those countries with large current account surpluses with a more sustainable source of growth over the long run. The members of the G-20 have committed to moving more quickly to market-determined exchange rate systems and exchange rates that reflect underlying fundamentals.

TRADE AND THE MANUFACTURING SECTOR

Although the Nation's current account balance has improved substantially since its record deficit level of \$800.6 billion in 2006, much of this improvement is due to growing surpluses of trade in services and income on investments, while the trade deficit in goods appears to have increased since the recovery from the recession began in the third quarter of 2009 (Figure 7-4). However, the increase in the goods deficit conceals the fact that from 2010 to 2012, exports of manufactures grew at a faster rate (22.0 percent) than imports (19.3 percent). The goods deficit has widened only because manufacturing imports began the period at a much higher level.

U.S. trade in manufactures, both imports and exports, has grown rapidly in recent decades primarily as a result of reductions in trade costs, the rapid growth of emerging markets, and the increasing international specialization of supply chains. Technological improvements in transportation and communication have lowered trade costs, as have reductions of tariffs and other trade barriers both at home and abroad. Emerging markets,

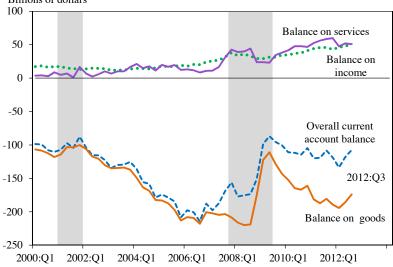
Figure 7-3
Current Account Balance by Country, 2000–2011



Note: Germany and Japan current account data available through 2012, U.S., U.K., and China data only available through 2011.

Source: Deutsche Bundesbank; Bank of Japan; United Kingdom Office for National Statistics; U.S. Department of Commerce, Bureau of Economic Analysis; Chinese State Administration of Foreign Exchange.

Figure 7-4
U.S. Current Account Balance and its Components, 2000–2012
Billions of dollars



Note: Shading denotes recession.

Source: U.S. Department of Commerce, Bureau of Economic Analysis.

particularly China, have grown at an impressive pace in the past decade and have moved aggressively into manufacturing. In the past 10 years, China's share of world manufacturing exports has grown from 5 percent to over 15 percent. Finally, improvements in information technology (IT) have led to the emergence of global value chains, in which tasks and components involved in production are allocated across countries to take advantage of differences in costs, skills, technology, or proximity to the market (Data Watch 7-1). As a result, trade in intermediate goods and services has grown rapidly. The effects of these forces on the U.S. economy have been profound.

Trade and Productivity

Greater openness of world markets enhances the productivity of U.S. industries and firms. Research finds that the U.S. industries experiencing the largest declines in tariffs have exhibited some of the strongest productivity gains. Bernard, Jensen, and Schott (2006) find that falling trade costs led individual U.S. manufacturing plants that already export to increase their shipments abroad, high-productivity nonexporters to become more likely to export, and low-productivity plants to become more likely to exit the domestic market. Together, these effects result in a reallocation of economic activity toward high-productivity firms, thereby raising overall industry productivity. Studies of numerous other countries show similar gains in industry productivity through trade-induced reallocation across firms.

Evidence also shows that decreases in industry-level trade costs lead to within-firm productivity growth. Lileeva and Trefler (2010), for example, found that the Canada-U.S. Free Trade Agreement caused increases in labor productivity, product innovation, and adoption rates for advanced manufacturing technologies among Canadian exporters. Pierce (2011) showed that U.S. tariffs lower the productivity of U.S. firms, in part by slowing the rate at which older, less-productive production lines are phased out in favor of new product lines. Several other studies have found that trade liberalization increases research and development (R&D) and technology upgrading.

Firm productivity and exports also can be enhanced when trade liberalization lowers the cost, and expands the variety, of imported intermediate inputs. Although much of the evidence for this channel comes from studies of middle- and low-income countries, Amiti and Wei (2009) found that

¹ Houseman et al. (2011) concluded that the decline in input prices associated with shifts to lower-cost producers may not be fully captured by statistical agencies, and as a result the data may suggest that manufacturers are producing more goods with fewer inputs, when in fact the real value of those inputs has simply been understated. After attempting to correct for this so-called "offshoring bias," the authors concluded that average annual manufacturing productivity growth would be between 6 percent and 14 percent lower, and value-added growth would be 7 percent to 18 percent lower than official estimates between 1997 and 2007.

imports of service inputs, such as telecommunications, insurance, finance, computing, and other business services, have a significant positive effect on manufacturing productivity in the United States. In a similar vein, Francois and Woerz (2008) showed that, across advanced economies, increased import penetration in producer services results in better export performance, particularly by skill- and technology-intensive industries.

GROWTH OF TRADED SERVICES

The United States is currently the world's largest services exporter. In 2011, U.S. exports of private services exceeded \$600 billion, and sales through foreign affiliates exceeded \$1 trillion. Taken together, international sales of services by U.S. companies are on the order of \$1.7 trillion a year, an amount equal to approximately 11 percent of U.S. GDP. Services trade accounts for approximately 30 percent of U.S. exports and 15 percent of U.S. imports. A study by the Organisation for Economic Co-operation and Development and the World Trade Organization (WTO), however, estimated that nearly 60 percent of the value of U.S. exports can be attributed to the service sector. This estimate takes into account both direct services exports, as measured in official trade statistics, and indirect services exports embodied as intermediate inputs in goods exports. The main traded service categories are "other private services" (which includes items such as business, professional, and technical services, insurance services, and financial services), royalties and license fees, and private travel.

Falling costs of travel, communication, and information technology have increased the opportunities for trade in services. Over the past 10 years, services imports and exports both almost doubled. Much of the growth was accounted for by increased trade in business services, especially digitally enabled services, defined by the Bureau of Economic Analysis (BEA) as those for which digital information and communications technologies (ICT) significantly facilitate cross-border trade. According to the BEA, from 1998 to 2010, exports of all ICT-enabled services grew at an annual rate of 9 percent to reach 61 percent of total U.S. services exports, up from 45 percent in 1998. Imports of ICT-enabled services grew at an annual rate of 10 percent, rising to 56 percent of U.S. services imports, from 34 percent. Increases in business, professional, and technical services contributed most to the overall increase in ICT-enabled services trade. The private services surplus was \$162 billion in 2010; of this, \$116 billion resulted from a trade surplus in ICT-enabled services.

Some estimates suggest that about 70 percent of employment in business services is in industries potentially subject to international competition

Data Watch 7-1: Implications of Global Value Chains for the Measurement of Trade Flows

While international trade and foreign direct investment have been growing rapidly for decades, recent advances in information technology along with improving industrial capabilities in emerging markets have made it profitable to segment production processes and relocate them throughout the world, creating global value chains. This shift has made it increasingly difficult to interpret international trade statistics. In the past, it was safe to assume that most if not all of the value of a traded product was created in the country that exported it. Thus, a country's industrial capabilities could be judged by the content of exports, trade rules could be tied to gross levels of trade in specific products, and exports could be directly related to domestic job creation. With the rise of global value chains, however, one can no longer be sure how much of the value of a product or service is added in the country that declares it as an export. For example, in 2009, between one-third to one-half of the total value of exports of transport parts and equipment from most major producing countries originated in a different country. Similar patterns emerge in the electronics sector: in China and Japan, the world's largest exporters of electronic goods in 2009, the foreign content of electronics exports was about 40 percent. In Mexico, the share was over 60 percent (OECD 2013).

Official trade statistics are measured in gross terms—the amount the importer pays the exporter for the good. That approach is appropriate for adding up a country's balance of payments made to, and received from, the rest of the world. To determine how much value an exporter adds to a good or service traded internationally, however, one must subtract the value of intermediate inputs supplied by other countries, including the country importing it. Removing these intermediate flows from exports gives a measure of "value-added" trade.

Measuring value-added trade reveals a number of surprising facts. For example, according to Koopman et al. (2010), in 2004 about 8 percent of total gross U.S. imports was U.S. value added in the form of U.S. intermediate inputs used in foreign production. About 25 percent of the value of U.S. gross exports was made up of imported intermediate inputs; however, about half the value of those inputs originated in the United States, so only about 13 percent of U.S. gross exports were not U.S. value added. By contrast, about 37 percent of China's exports were value added somewhere else. Johnson and Noguera (2012) estimate that, while still large, the U.S.-China imbalance is approximately 40 percent smaller when measured on a value-added basis, and the U.S.-Japan imbalance is approximately 33 percent higher. They also show that domestic value added in gross exports for the world as a whole has fallen dramatically in recent years, indicating the rise of global value chains.

The Organisation for Economic Co-operation and Development and the World Trade Organization recently released a new data set containing estimates of value-added trade for 40 countries and 18 industries for 2005, 2008, and 2009 (OECD 2013). Future releases will see an expansion in the number of countries, industries, and time periods, dating back to 1995. This effort represents a substantial improvement in the availability of information about global value chains.

(Jensen 2009). There is a widespread concern that, as business services become more tradable over time, these jobs will be lost to import competition from low-wage, labor-abundant countries. However, given the abundance of capital and highly skilled workers in the United States, the most successful U.S. export industries tend to be those that employ capital and skilled labor most intensively. In the services sector, the largest export industries-integrated record production and distribution, software publishers, web search portals, satellite telecommunications, and motion picture and video production—also pay the highest wages (Jensen 2011). The fact that the United States has consistently maintained a positive trade balance in services, and high-skill business services in particular, suggests that the world is willing to pay for the high-quality, skill-intensive services that the United States provides.

Despite America's apparent comparative advantage in tradable highskill, high-wage business services, export activity on the part of these firms faces significant impediments. About 25 percent of manufacturing plants export; in business services, only about 5 percent of businesses export (Jensen 2009). While differences in language and culture may pose greater barriers to trade in services than in manufactures, services also are differentially affected by an array of government-imposed impediments, such as restrictions on foreign ownership and partnership arrangements; nationality, residency, or local presence requirements for service providers; licensing and accreditation requirements; and limitations on the scope of activities. Hufbauer, Schott, and Wong (2010) have estimated that the aggregate level of barriers to services imports in emerging markets such as China, India, and Indonesia is equivalent to a tariff on these imports of more than 60 percent. After decades of liberalization through trade agreements, tariffs in that range are relatively rare for goods. Recent research also has found that restrictions on foreign acquisitions, discrimination in licensing, restrictions on the repatriation of earnings, and inadequate legal recourse all have a significant negative effect on investment inflows into services sectors (Borchert, Gootiiz, and Mattoo 2012). The Administration has undertaken several important initiatives to address these impediments, discussed further below.

TRADE POLICY

World trade collapsed in 2009; the recovery, while substantial, is being held back by slow global growth. In response, in his 2010 State of the Union address, the President launched the National Export Initiative (NEI), an Administration-wide effort to double U.S. exports in support of up to 2 million additional American jobs by the end of 2014. Under the NEI, the Administration continues to focus on improving trade advocacy and export promotion efforts, removing or reducing barriers to U.S. exports of goods and services, increasing access to credit, robustly enforcing trade rules, and pursuing policies at the global level to promote strong, sustainable, and balanced growth. In 2012, U.S. exports of goods and services amounted to \$2.2 trillion, an all-time record, despite challenging global economic conditions.

Longer-term trends affecting trade include the rapid growth in emerging markets and the rise of global value chains. The growth of emerging markets makes them the most likely source of future U.S. export growth. The International Monetary Fund estimates that developing countries will account for more than three-quarters of the economic growth of all U.S. trading partners in the next five years. It is vital, therefore, that the United States secure from these countries more open and transparent market access for U.S. firms. In addition, because of their growing involvement in global value chains, U.S. firms are increasingly exposed to policies and barriers behind the borders, not just at the borders, of countries around the world. Countries vary widely in their use of subsidies, export taxes, support for state-owned enterprises, financial market restrictions, ownership restrictions on foreign direct investment, government procurement, and enforcement of intellectual property rights, to name a few.

To address these challenges, the United States has pursued a robust program of enforcement of existing rules through WTO dispute settlement and a negotiating strategy for new agreements aimed at securing deep commitments with like-minded countries on a broad array of trade-related measures. The overriding goal of these latter initiatives, whether multilateral, plurilateral or bilateral, is to open markets and set standards for conduct that eventually shape the standards adopted by the global trading system. The United States continues to adhere strongly to the precept that trade liberalization at the multilateral level holds the highest potential for securing

Box 7-1: Small Businesses and the NEI

Small businesses, defined by the Small Business Administration as independent businesses having 500 or fewer employees, account for more than half of nonfarm private GDP. These 27.5 million businesses, many of them family-owned companies, are a key part of the U.S. economy. However, they are far less likely to export or to use inputs from abroad than are larger firms. In a world of imperfect financial markets, the costs of financing export operations pose an especially high barrier for smaller firms, because they are more likely to need external financing to undertake export transactions. Small businesses also can find it more difficult to learn about foreign markets and to overcome foreign trade barriers and unfair trade practices compared with larger firms.

Through the NEI, the Obama Administration is committed to helping small businesses overcome such barriers to exporting. The NEI calls for a national outreach campaign both to identify small businesses that may be able to increase their exports and to raise awareness generally among the nation's small businesses about export opportunities. The NEI provides training and other technical assistance to help small businesses prepare to become exporters, sets up pilot programs to match small businesses with export intermediaries, and outlines several measures to support small businesses once they begin to export to new markets. Thanks in part to the efforts of the NEI, a record of nearly 287,000 U.S. small and medium-size enterprises (SME) exported in 2010 (98 percent of all exporters), a total increase of more than 16,600 SMEs over 2009. The goal is to increase the national base of SME exporters by 50,000 by 2017.

wide-ranging market-opening outcomes. The United States will continue to complement its multilateral approaches with discussions at the plurilateral and bilateral levels to build consensus for, and commitments to, market-opening agreements critical to the growth of trade-supported jobs.

In 2012, market-opening trade agreements with Korea, Colombia, and Panama entered into force. The United States is currently negotiating with 10 partners in the Trans-Pacific Partnership to tackle 21st-century trade issues in the Asia-Pacific region. In January 2013, the President announced plans to negotiate toward an international services agreement with an initial group of 20 trading partners, aimed at removing impediments to global services trade. In February, the Administration announced its intention to launch negotiations for a comprehensive Transatlantic Trade and Investment Partnership with the 27-member European Union, aimed at expanding what is already the world's largest economic relationship,

accounting for one-third of total goods and services trade and nearly half of global economic output.

In the WTO, the United States is advocating new approaches that can offer opportunities for agreements on issues that have been part of the Doha Development Agenda, such as trade facilitation, and in areas that are outside the Doha agenda, such as expansion of the Information Technology Agreement. The United States also welcomed Russia's membership in the WTO, a membership that will provide significant commercial opportunities for U.S. exporters.

Finally, the Administration aims to address potential disruptions that trade can cause to domestic labor markets. The Federal Government's Trade Adjustment Assistance (TAA) program is designed to assist workers whose jobs have been lost to import competition or threatened by trade-related circumstances. The program provides financial, job training, and relocation assistance to newly unemployed workers displaced by trade, with the goal of making it easier for these workers to develop new skills and then enter more vibrant sectors of the economy. In fiscal year 2012, the TAA program certified 1,131 petitions that permitted more than 81,000 workers to participate in the program.

BUILDING U.S. COMPETITIVENESS

The Nation must construct an economy based on a solid foundation of educating, innovating, and building better infrastructure, a foundation that can be strengthened in both manufacturing and in services. A hallmark of the Administration's policies is the recognition that there are many spillovers within and between economic sectors and regions. Thus, well-chosen policies reinforce each other both to increase competitiveness and to provide more middle-class jobs. For example, grants that assist workers and firms that invest in apprenticeships benefit other firms in their industry and region that can draw on a pool of skilled labor. Because of the myriad benefits that arise from having a broad base of innovative workers, economic growth and fairness go hand in hand. That is, Administration policies are built around the idea that the country does best when everyone does their fair share and plays by the same rules.

Manufacturing

While manufacturing employment has declined as a share of the workforce for the past 50 years, the absolute number of manufacturing jobs was relatively constant at about 18 million from 1965 until 2000. However, starting in 2000, manufacturing employment dropped precipitously. The

United States lost 3.5 million manufacturing jobs in the 7 years before the Great Recession and then lost another 2.3 million during the recession.

This job loss has serious implications for the economy. First, the decline in manufacturing employment significantly reduced the number of middle-class jobs, especially for less educated workers. Wages and salaries in manufacturing are 7 percent higher than in the rest of the economy, and total hourly compensation (which includes the value of benefits such as health care and pensions) is 13 percent higher. After controlling for factors such as education, age, gender, race, union status, and location, the compensation premium for manufacturing rises above 14 percent. A 2012 Department of Commerce study comparing manufacturing workers to those in other private industries finds similar results (ESA 2012). Workers of all education levels and occupations in manufacturing—from assemblers to design engineers—earn more than their peers in other industries, showing manufacturing's value in maintaining a strong American middle class. Second, growing evidence shows that manufacturing production has positive spillover impacts on other parts of the economy. Spillovers occur when one company's activities benefit other businesses even though the latter did not pay for them (Economic Application Box 7-1). As discussed below, the loss of manufacturing activity has reduced these benefits.

Spillovers Between Manufacturing Production and Innovation

The argument is sometimes made that loss of U.S. production jobs is part of an efficient global division of labor in which the United States focuses on higher-end innovative activity and cedes lower-skill production activity to other countries. However, this argument does not always hold.

First, production need not be a low-skill activity. Some of our main competitors in manufacturing employ more highly skilled production workers and pay significantly higher wages than do companies in the United States. Countries such as Germany and Denmark compete through business and government support for "high-road" production practices, in which workers participate in innovation as well as production. The higher wages paid to these highly-skilled workers are offset by their higher productivity (Helper, Krueger, and Wial 2012).

Despite its private and social benefits, however, companies do not always adopt the high-road strategy because successful implementation requires them to adopt a whole suite of interrelated practices. For example, a study of U.S. valve producers found that more-efficient firms adopted advanced information technology, while simultaneously changing their product strategy (to produce more customized valves), their operations strategy (using their new IT capability to reduce setup times, run times,

Economics Application Box 7-1: Agglomeration Economies and Spillovers Across Regions

Businesses are not spread out evenly across space but tend to clump together, or "agglomerate." As explained in Alfred Marshall's Principles of Economics (1890), firms group together because proximity allows them to share workers, ideas, and other inputs more easily. Numerous studies have found that establishments located near other establishments, whether in related industries (a cluster) or in diverse industries (urbanization), tend to be more productive (Rosenthal and Strange 2003).

A cluster is a geographically concentrated ecosystem of customers, suppliers, trade associations, and labor unions that do business with one another. These groups have collective capabilities. Like the common pasture in medieval English villages on which the livestock owned by many residents grazed, this "industrial commons" allows firms, particularly small firms, to nourish their technological capability using shared assets. These common resources help to accelerate innovation and commercialization. For example, firms located near each other can share equipment needed for testing, and can more easily meet face-to-face, which improves knowledge-sharing and trust-building. Service firms (such as those in the Los Angeles film industry)—not just manufacturers—benefit from agglomeration.

In some cases, both the grouping of firms and the higher productivity may be the result of a third factor. For example, several firms may each decide to locate near a natural harbor; their lower transport costs may increase their productivity, but at least initially there may be little benefit due to the proximity of other firms. Still, research suggests that the entry of a large factory to a community tends to increase the productivity of surrounding firms (Greenstone, Hornbeck, and Moretti 2010). Other research indicates that the benefits of R&D investment are primarily local, suggesting that ideas—and by extension productivity—are improved in geographically concentrated industries. Jaffe (1989) uses data from patent citations to show that inventors disproportionately build on the work of nearby scientists. Branstetter (2001) argues that the benefits of R&D appear to be primarily confined to the borders of the investing country.

Because the benefits of a shared asset spill over to help even firms that did not contribute to paying for it, and because profit-maximizing firms will not value this benefit to other firms in making their plans, market forces are unlikely to provide enough investment in shared assets. A case thus can be made for government to subsidize such activity. For example, government support for key local assets such as a university or apprenticeship program may help a cluster to develop through improved access to specialized R&D and skilled workers. Other successful clusters have emerged from a mix of firm- and government-led actions such as the cluster of computer and technology companies in Silicon Valley.

Once lost, these ecosystems can be hard to recreate. For any single firm, the decision to move production elsewhere may make economic sense. But that decision affects suppliers and the local talent pool, making it easier for the next firm to leave and harder for the next firm considering coming there to say yes. Conversely, new industries can build on foundations left by older clusters. For example, Optimus, a Pittsburgh biofuels startup, uses a 100-year-old union training program to reduce the costs of training technicians to service its innovative equipment—and to demonstrate its product. Supported by the new federal Workforce Innovation Fund, a partnership of startups, unions, and Carnegie Mellon University is creating apprenticeship programs that build on this model of shared training and product demonstration assets.

and inspection times), and human resource policies (employing workers with more problem-solving skills and using more teamwork). The success of changes in one area depended on success in other areas. For example, customizing products was not profitable without reductions in the time required to change over to making a new product, something made possible both by improved IT capabilities and the improved use of this capability by the empowered workers. Conversely, the IT and training investments often did not pay off in firms that did not customize their products (Bartel, Ichniowski, and Shaw 2007).

Second, there may be spillovers from production to innovation. Thus, while Moretti (2012) shows that the positive wage spillovers associated with innovation jobs are greater than those associated with manufacturing jobs, it may not be possible to keep the innovation jobs in the long run if production jobs are lost. For example, when production in consumer electronics migrated to Asia decades ago, the United States lost the potential to compete for follow-on innovations and subsequent production in flat-panel displays, LED lighting, and advanced batteries (Pisano and Shih 2012). Making products exposes engineers to the problems and the capabilities of existing technology, generating ideas both for improving processes and for applying a given technology to new markets. Losing this exposure makes it harder to come up with innovative ideas.²

² The U.S. auto industry could have ended up on this path, but as a result of the Administration's rescue of General Motors and Chrysler, and investments in innovation, the industry is growing and healthy.

Even when American firms do maintain a technological edge, their operations may be less profitable than if they were part of a vibrant industrial commons. E-ink, a Massachusetts firm now owned by its Taiwanese business partner, designed the electronic "ink" that represents the Kindle's key innovative element. Because the firm was located so far away from its Asian suppliers, its engineers were not able to interact on a daily basis with other firms in the supply chain that were inventing new products, making it hard for the firm to find new markets for its inks. The situation is similar throughout the rest of the LCD flat-panel-display industry. Harvard Business School Professor Willy Shih estimates that, because the United States has offshored much of its production capacity in this industry, U.S. firms capture only about 24 percent of the profits from U.S. Kindle sales (Pisano and Shih 2012).

Rise of Global Supply Chains

In recent decades, the structure of manufacturing has changed dramatically. Instead of vertically-integrated firms that obtain most of their inputs from within national borders, lead firms now purchase many inputs from outside suppliers around the world. Most manufacturing production today occurs in layers of specialized, smaller firms that provide components for final assembly and sale by large lead firms or original equipment manufacturers (OEMs). For example, CEA calculations estimate that in the United States in 1988, there were fewer than two employees in firms making automotive parts for every automaker employee. By 2010, parts companies had four employees for every automaker employee (Data Watch 7-2).

Because of this vertical dis-integration, almost all large U.S. manufacturers now depend on their suppliers for well over half their value-added. In most cases, these suppliers are shared with other firms. This arrangement has some advantages—for example, it may create opportunities for crossfertilization. But shared supply chains also have a weakness in that firms' incentives to invest in their suppliers are reduced. If an OEM helps its supplier develop a new technology, the supplier's other customers—often the OEM's rivals—will enjoy these improvements without having contributed. As a result, OEMs have less incentive to make such investments and may be more inclined to shift costs and risks down the supply chain to smaller suppliers. These practices, called "free-riding" by economists, improve the larger firms' financial performance in the short run but may weaken the entire supply chain in the long run.

Data Watch 7-2: Measuring Supply Chains

The potential collapse of General Motors and Chrysler in December 2008 underscored the importance of understanding the operation of supply chains. Because the large auto manufacturers all relied on a common set of suppliers, a failure of any of the major players could have threatened the viability of the entire industry.

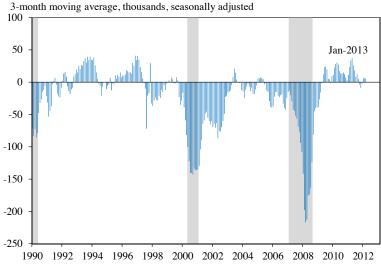
Measuring the size of this supply chain presents a statistical challenge. U.S. government statistical agencies assign each worksite in the United States to a single industry on the basis of its primary activity. Two North American Industrial Classification System (NAICS) codes are commonly used for reporting sales and employment in the auto industry—NAICS 3363 (motor vehicle parts manufacturing) and NAICS 3362 (motor vehicle body manufacturing)—but these codes do not capture all workplaces involved in the auto supply chain. First, many firms that make auto parts are not classified as serving the automotive market, but rather by the materials or the technology they use, such as "plastics product manufacturing" or "forging and stamping." Similarly, the NAICS codes do not link tooling producers to their customer industry. Second, the worksites that focus on nonproduction activities such as research or management are not categorized with the industry they serve; rather, they are grouped together in "Professional, Scientific, and Technical Services." In addition, contract workers in auto parts plants are assigned to the temporary help industry, rather than to motor vehicle parts production.

Using survey data for late 2010, the Council of Economic Advisers has estimated the number of jobs in the auto supply chain based on a more inclusive definition that includes all of this activity. While the conventional definition of auto parts showed employment of 553, 860 for this period, the CEA estimate was more than 1 million. The high degree of interdependence in the auto industry made the 2008 financial crisis particularly perilous, because contagion from financial troubles at one firm in the industry easily could have spread to others. The CEA's larger estimates of the size of the auto supply sector imply this risk was greater than previously realized.

Prospects for U.S. Manufacturing

The U.S. economy gained nearly 500,000 manufacturing jobs between January 2010 and January 2013, after losing more than 5 million manufacturing jobs in the previous decade (Figure 7-5). These job gains represent not just a cyclical recovery but also potentially the start of a longer-term trend toward the "in-sourcing" of manufacturing. About three-quarters of the

Figure 7-5
Monthly Change in Manufacturing Employment, 1990–2012



Note: Shading denotes recession.

Source: Bureau of Labor Statistics, Current Employment Statistics; CEA calculations.

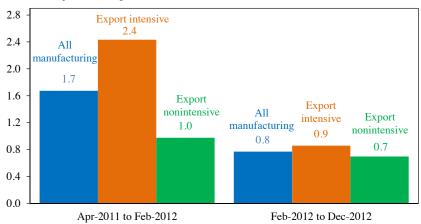
increase in U.S. manufacturing shipments since the end of the recession is due to an increase in domestic demand and inventory restocking; the other quarter comes from an increase in exports. Because of the extensive spillover benefits associated with a vibrant manufacturing sector, this recovery has positive implications for long-term growth of the economy as a whole.

Since early 2012, diminished impetus from several key drivers of growth, as described in Chapter 2, has challenged the growth of U.S. manufacturing. First and most important, export growth has begun to slow, reflecting the slower pace of global growth. Second, after surging during the past few years, demand by domestic business for new capital equipment appears to have slowed. Third, firms finally appear to have replenished their inventories to levels more consistent with demand after heavily depleting stockpiles during the recession.

As noted above, "export-intensive" industries have played a large role in the recovery of manufacturing since the end of the recession. From April 2011 through February 2012, industries that export at least 20 percent of their shipments accounted for 57 percent of manufacturing output and 51 percent of manufacturing employment. During this period, manufacturing production and hiring rose faster in these industries than in others. Since February 2012, however, manufacturing production and hiring has slowed,

Figure 7-6
Employment in Export Intensive and Export Nonintensive
Manufacturing Industries, 2011–2012

Annualized percent change



Note: Export-intensive manufacturing industries are three-digit NAICS industries in which exports as a share of total shipments exceeded 19.9 percent, the average for the manufacturing sector as a whole in 2011. Export-intensive industries accounted for about 57 percent of manufacturing output in 2011. Source: Federal Reserve Board, G.17; CEA calculations.

with nearly two-thirds of the slowdown in output and 90 percent of the slowdown in hiring occurring in export-intensive industries (Figure 7-6).

Other trends, however, suggest a brightening outlook for manufacturing. The continued recovery in the housing sector should lead to greater demand for construction supplies, and the order backlog for commercial aircraft is substantial. In addition, although production of nondurable goods like food and beverage products, plastics and rubber, and chemicals has lagged that of durable goods so far during the recovery, it should accelerate as consumer and business demand becomes more broad-based. Indeed, with capacity utilization now close to its historical average, and weekly work hours elevated above it, even a moderate rise in demand could quickly translate into a pickup in production, hiring, and investment.

Prospects for In-sourcing. Several recent reports have concluded that manufacturers increasingly view the United States as a favorable production location.³ Factors cited for this change include trends in unit labor costs, expansion of domestic energy resources such as wind and natural gas, and greater recognition of the "hidden costs" of moving production abroad.

Over the past decade, U.S. unit labor costs—the cost of labor required to produce one unit of output—have grown much more slowly than in other

³ Academic literature often refers to this phenomenon of work returning to the United States from abroad as "on-shoring."

developed nations (Figure 7-7). U.S. hourly compensation in manufacturing has grown somewhat over the past decade, but rapid productivity growth has reduced the cost of producing a unit of manufactured output in the United States. Meanwhile, when measured in U.S. dollars, the cost of manufacturing a unit of output in key trading partners has risen, in some cases substantially.

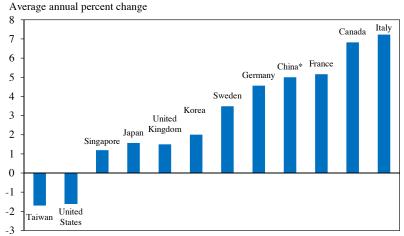
Several recent studies by management consultants argue that these trends create the potential for a "manufacturing renaissance" in the United States and estimate that the result could be 1 million or more new manufacturing jobs by 2015 (Boston Consulting Group 2012; Inch and Dutta 2012; Simchi-Levi et al. 2011). A key assumption of most of these analyses is that U.S. manufacturing wages continue to be stagnant. Thus, while these trends provide favorable tailwinds for U.S. manufacturing, they will not by themselves lead to sustainable prosperity. In contrast, the "high road" model discussed above also yields favorably low unit labor costs—but does so by increasing productivity, rather than by reducing wages.

Reassessing the Costs of Moving Production Abroad. Based on their experience during the past decade, American firms now have a greater understanding of the magnitudes of hard-to-measure costs attributable to the risks and complexities of operating far from home. Initially, "many manufacturers who had offshored their operations likely did so without a complete understanding of the 'total costs,' and thus, the total cost of offshoring was considerably higher than initially thought," according to a study of 287 manufacturers conducted by Accenture (Ferreira and Heilala 2011).

Compared with operating in the United States, setting up a supply chain in China and learning to communicate with suppliers requires many long trips and much time of top executives—time that could be spent on introducing new products or processes at home. There is also greater risk from a long supply chain, because shipping prices and delivery times can vary enormously. In addition, U.S. companies are coming to value more highly the advantages that come from having production, innovation, and design close together. For example, Intel manufactures its most advanced chips in the United States, near where they are designed (Helper, Krueger, and Wial 2012).

To take another example, Sleek Audio, a start-up manufacturer with innovative headphone technology, initially went to China for all of its production. After years of flying several times a year to China, and an incident in which millions of dollars of product had to be scrapped because of poor quality, the owners moved manufacturing to the United States. They began to work with a local manufacturer with experience in making precision products for the military, Dynamic Innovation, located within 10 minutes of Sleek Audio in Florida. In the course of redesigning the product for more

Figure 7-7 Change in Manufacturing Unit Labor Costs, 2003–2011



Note: Average annual percent change for China represents 2003–2009 data. The BLS does not track manufacturing unit labor costs for China, and many economists have expressed concern over the reliability of recent Chinese economic statistics (Wan 2013).

Source: Bureau of Labor Statistics, International Comparisons of Manufacturing Productivity and Unit Labor Costs; Ceglowski and Golub (2011).

automated U.S. production, the firms dramatically improved product quality, replacing hand-welded plastic panels with robot-welded aluminum ones that also significantly improved sound quality (winning an award from the Consumer Electronics Association). The price was higher in the United States, but the improved product features and ability to customize design more than offset this cost (Prasso 2011; Koerner 2011; Hackel 2011).

Numerous other collaborations that bring together different forms of expertise are keeping jobs in the United States. Many of these collaborations bring together shopfloor workers with a concrete understanding of plant conditions and engineers with deep technical knowledge. For example, management and members of the machinists' union at an Ashland, Kentucky chemical plant have worked together for two decades to improve both product quality and working conditions (Davidson 2013).

Productivity in Services

The service sector encompasses widely varied activities, ranging from house cleaning to data entry to investment advice. Despite this diversity, some common trends can be observed—trends similar in many respects to those seen in manufacturing.

As noted, many services are becoming increasingly globalized; as in manufacturing, there is also less vertical integration. In the hotel industry,

for example, it is now common for a lead firm such as Marriott to create and advertise an overall brand, while the day-to-day oversight of the workforce is handled by a separate hotel operating company, and staffing may be organized by a temporary-services firm (Weil 2011).

As in manufacturing, there are wide variations in performance across firms within individual service industries. In retail trade, for example, in the late 1980s and 1990s, Wal-Mart's real value-added per worker was more than 40 percent higher than that of other general merchandise retailers (Johnson 2002). Trucks with on-board computers had 13 percent higher capacity utilization than trucks without them (Hubbard 2003). Much of the productivity improvement realized by high-productivity service firms has been associated with investments in information technology (Bosworth and Triplett 2007). Obtaining these performance improvements often involves investing simultaneously in information technology and in complementary organizational changes, as in the valve case described earlier. For example, retailers who can quickly integrate data on consumers' purchases with their systems for replenishing inventory are more productive than those who cannot (Wailgum 2007; Zhu 2004).

Finally, although the use of IT and other innovations in services has led to large productivity gains, the benefits of these gains have not been evenly shared. Although IT adoption has led to increased pay and autonomy for workers who interpret information, such as financial advisers, it has led to reduced employment and pay for jobs that can be described in rules that a computer can follow—jobs such as routine claims processing that require moderate skills and that once paid middle-class wages (Levy and Murnane 2005).

CREATING AN ECONOMY BUILT TO LAST

A hallmark of the Administration's policies to reverse the middleclass jobs deficit is leveraging positive spillovers to raise labor demand and productivity, and to create new industries and products, while equipping American workers with the tools they need to succeed in a modern economy. The President's blueprint for creating an economy built to last aims to promote synergies within local areas and among companies that add to growth in investment and good jobs.

The following discussion uses manufacturing as an example to illustrate these policies, but their usefulness is not limited to manufacturing. For example, the U.S. Department of Agriculture has for decades helped an industry made up largely of small producers remain internationally competitive, by providing an integrated set of services with large spillover benefits to farmers and rural communities: land-grant universities for research and training; cooperative extension agents that help to diffuse practices shown by this research to be effective; access to capital (in part through the department's own credit agencies); and programs that help farmers set up cooperatives to achieve economies of scale in purchasing and marketing.

Strengthening Competitiveness: The Manufacturing Example

A competitive U.S. manufacturing sector is a key to the Administration's vision of a U.S. economy that is innovative and competitive and that provides good jobs. Rising costs abroad coupled with sustained domestic productivity gains make the United States an increasingly attractive location for investment. But good policy is also needed to fully capture the benefits of this underlying trend and encourage investment in middle-class jobs in the United States. The view that a strong "industrial commons" is important for competitiveness, but also subject to market failure, suggests that government policy should promote the creation of, and access to, these shared resources. Thus, the Administration's policies work to promote the type of manufacturing that builds innovative capability and raises living standards.

The Administration's proposals help in several ways to strengthen these types of manufacturing. First, general policies to improve productivity and wages (such as the policies to support education, health care, and a clean environment discussed in other chapters of this *Report*) are essential to building long-term economic competitiveness.

Second, the Administration has made trade policy a priority. These policies have particular importance in manufacturing. Some argue that much of the steep manufacturing employment decline in the early 2000s was caused by a sharp rise in imports from emerging nations, especially China (Autor, Dorn, and Hanson, forthcoming; Pierce and Schott 2012). In some cases, producers exporting from these nations have benefited from policies that gave them an unfair advantage relative to manufacturers in the United States. In response to these policies, the Obama Administration, in addition to pursuing the broader trade policies discussed earlier in the chapter, launched an Interagency Trade Enforcement Center charged with protecting American companies from unfair trade competition.

Third, the Administration has championed tax credits to reduce the costs of socially beneficial actions (such as R&D). These policies aim to reward firms for providing lasting social benefits. In contrast, a "smoke stack-chasing" approach tries to lure individual firms to a particular location using tax abatements and other incentives. In general, these subsidies are awarded to firms for undertaking activity that would have occurred anyway; the subsidy simply influences the location of the activity. Thus these

individual incentives generally do not lead to net investment (Chirinko and Wilson 2008). State and local governments provide more than \$80 billion a year on such incentives, including \$25 billion to manufacturers (Story 2012).

Finally, the Administration has championed sector-specific policies that use the convening power of government to promote coordination and investment. Productive ecosystems that promote innovation and good jobs require strong partnerships among industry stakeholders, including business, government, unions, trade associations, and universities. A sectoral approach to encouraging the development of such ecosystems (in manufacturing and in other industries) can help to build simultaneously both the demand for and the supply of shared assets, such as trained workers, competent customers engaged in innovation, suppliers of components, and standards for equipment design. The supply-chain analysis above suggests that policy may be needed to address two key issues: free-rider problems that lead to underinvestment and information barriers that hinder coordination among stakeholders in a supply chain.

The Administration's flagship manufacturing initiative is a \$1 billion National Network for Manufacturing Innovation fund that will create up to 15 institutes to help ensure that new technology bridges the gaps from invention to product development to manufacturing at scale. Leveraging the assets of a particular region, each institute will bring together universities, companies, and government to co-invest in the development of new technologies that spill over to provide general benefits to a region's manufacturing base, rather than just a single company. Institutes will build workforce skills and business capabilities in large and small companies. A pilot center, the National Additive Manufacturing Innovation Institute, opened last year in Youngstown, Ohio. The universities and firms participating in the institute matched the initial \$30 million in federal funding with \$40 million of their own.

As discussed, many firms have been slow to adopt even well-known improved practices and thus lack the capability to participate in such innovative endeavors. To help these firms upgrade their operations, the Administration has proposed increased funding for the Manufacturing Extension Partnership program, which provides a range of business services to small manufacturers.

The Administration also has proposed initiatives to replenish the technology pipeline, by increasing funding for advanced manufacturing R&D. Despite tightening budgets, the Administration has emphasized the importance of funding industrially relevant, advanced manufacturing technologies such as advanced materials, smart manufacturing, and robotics.

Conclusion

The United States economy benefits from being closely linked with other nations through trade, investment, and financial flows. The Nation's economic recovery and long-run growth prospects depend in large part on U.S. businesses being able to compete in an open, fair and growing world economy. The Federal government is determined to do its part to facilitate this outcome. Sound macroeconomic policies that aim at strong, balanced, and sustainable growth are but one element. Another is a trade policy aimed at the maintenance of open, competitive markets, compliance with WTO obligations, and leadership in the multilateral trading system. The United States pursues a policy that supports jobs through trade, enforces trade rules, bolsters international trade relationships, and partners with developing countries to fight poverty and expand opportunities.

Creating and maintaining a competitive industry or region requires continuous investment by firms, workers, and communities. These investments are often more productive if others are also investing. In a number of cases (especially in manufacturing), investments in these productive ecosystems were allowed to lapse, affecting both competitiveness and job quality. Administration policy has helped to reverse these lapses, leading to domestic economic growth and increased exports.

Many of the policies discussed in connection with manufacturing also benefit consumers and workers in the services sector, such as policies that promote access to education. In addition, sector-specific policies for services are discussed in other chapters of this *Report*. For example, as discussed in Chapter 5, the administration has convened the Partnership for Patients, which brings together hospitals and clinics in a community to work to reduce errors in patient care.

While much remains to be done, these policies have laid a foundation for competitiveness and prosperity for both the United States and its trading partners.



CHAPTER 8

CHALLENGES AND OPPORTUNITIES IN U.S. AGRICULTURE

Oscillation Sc. agriculture fared better during the Great Recession than many other sectors and remains a bright spot in the U.S. economy. Despite an extensive and severe drought in 2012, net farm income is forecast to total \$112.8 billion, only 4.3 percent below the previous year's record of \$117.9 billion (USDA 2013a). Strong demand for agricultural products and below-average crop yields pushed up crops prices, and along with significant crop insurance indemnity payments, helped to make the 2012 income figure the second-highest since 1974 after adjusting for inflation. (See Economics Application Box 8-1 on the 2012 drought).

The strength of the U.S. agricultural sector is due in part to the demand for American agricultural exports. The value of agricultural exports has steadily risen and now accounts for a projected 31 percent of gross farm cash income. Exports reached a near record level of \$135.8 billion in 2012 and are projected to reach \$142 billion in 2013 (USDA 2012a).

Increasing demand from abroad created by rising incomes and a growing middle class will present opportunities for U.S. agriculture. The world population is expected to reach more than 9.2 billion by 2050, with growth coming primarily in developing countries, most of which are net importers of food products. The convergence of population growth and rapid urbanization, especially in developing regions of the world, will likely result in growing demand for food as well as changing dietary patterns.

Trade in agricultural commodities is a global endeavor, and the U.S. agricultural sector is subject to significant price volatility at the commodity level. Because of its high degree of integration with the international marketplace, U.S. agriculture is vulnerable to price volatility induced by other countries' agricultural policies—import and export restrictions—and growing conditions. Further, while the effects of climate change on livestock and

Economics Application Box 8-1: The 2012 Drought

A drought in the summer of 2012 across much of the United States caused significant crop losses and some livestock liquidation. About 80 percent of agricultural land experienced low rainfall and high temperatures, making the 2012 drought the most extensive since 1956. A striking aspect of the 2012 drought was the rapid increase in severity in early July. While the drought eased somewhat during early September, conditions during the June to August period largely determine production for most crops. By mid-August, crops worth 50 percent of the total value of all crops were exposed to drought.

Crop losses were most substantial for corn. In the spring of 2012, the U.S. Department of Agriculture estimated an expected corn yield of 166.0 bushels an acre. By October 2012, those estimates had dropped to 122.3 bushels an acre—a reduction of 27 percent. Soybeans, somewhat more drought tolerant, experienced a 14 percent yield reduction (from 43.9 to 37.8 bushels an acre). The livestock industry, still recovering from the 2011 drought in the Southern Plains, was hit especially hard. As of late October of 2012, 54 percent of pastures and ranges in the United States were rated poor to very poor. Beef production in 2012 was projected to decline 2.3 percent from 2011 levels and to fall another 4.2 percent in 2013. Broiler and pork production were also expected to experience declines in 2013, while milk production is expected to remain stable.

The effects of the drought on food prices were reflected first in the livestock sector, with increases in the price of meat and dairy products in late 2012 and projected into 2013. The full effects of the increase in corn and other commodity prices will likely take as long as a year to be fully captured in higher retail food prices.

Despite the drought, average income for farm businesses remained steady in 2012 at \$86,200, reflecting the increased prices for corn and soybeans as well as increases in crop insurance indemnities, which as of February 2013 had already paid out \$12.9 billion for 2012 losses (USDA 2013). Income increases on crop farms should more than offset livestock farmers' higher feed expenses and a decline in sales of wholesale milk. Additionally, the longstanding environment of strong commodity prices and low interest rates means that farm debt-to-equity ratios are approaching historic lows, which has reduced the financial vulnerability of farms to the production shocks.

crop production systems are expected to be mixed in the next 25 years, over the long term, continued changes are expected to have generally detrimental effects on most crops and livestock.

THE AGRICULTURAL SECTOR IN 2012

In the 1920s, farm households accounted for more than 25 percent of the U.S. workforce and generated approximately 8 percent of gross domestic product (GDP). Today they account for only 1.6 percent of the work force and generate approximately 1 percent of GDP. Over the same period, the rural share of the population has fallen far less, from 49 percent to 19 percent, suggesting that rural areas are less dependent on farming's contribution to the rural economy (Table 8-1). The agricultural sector is still vital to our country, but because of growth in other sectors of the economy and rapid gains in agricultural productivity that have lowered the relative prices of agricultural products, it has become a smaller share of the U.S. economy.

The structure of farming continues to move toward fewer, but larger commercial operations producing the bulk of farm commodities, complemented by a growing number of smaller farms earning most of their income from off-farm sources. Small family farms—those with annual sales less than \$250,000—make up 90 percent of U.S. farms. They also hold about 62 percent of all farm assets, including 49 percent of the land owned by farms. However, commercial farms, which make up the other 10 percent of the sector, account for 83 percent of the value of U.S. production (Table 8-2).

While most of these large farms have a positive profit margin, average profit margins for small farms are negative because of high operating costs, low sales, and lower productivity (Table 8-3). Farms are predominantly organized as sole proprietorships (86.5 percent), followed by partnerships (7.9 percent) and corporations (4.4 percent).1

Fifty years ago, average household income for the farm population was approximately half that of the general population. Today, however, farm households tend to be better off than other American households; in 2011, median income for farm households was about 13 percent higher than the U.S. median household income (Figure 8-1). The difference in income between farm households and the nonfarm households is due in part to the broad Department of Agriculture (USDA) definition of what constitutes a farm, which includes farms where the principal operator is retired or has a main occupation other than farming ("residence farms"). Households operating rural residence farms earn more than the U.S. median household income even though their net cash income from farming is negative. Households operating intermediate farms (farms where the principal operator is not retired and reports farming as his or her main occupation) have on average positive net cash income from their farming operations, but most household income comes from sources other than farming. The sources of

¹ Corporations include both Sub-chapter C and S corporations.

Table 8-1 90 Years of Structural Change in U.S. Agriculture

Year	1920	1950	1980	2000	2010
Number of farms (thousands)	6,518	5,648	2,440	2,167	2,192
Average farm size (acres)	147	213	426	436	419
Rural share of population (percent)	48.8	36.0	26.3	21.0	19.3
Farm share of workforce (percent)	25.4	12.1	3.4	1.8	1.6
Farm share of GDP (percent)	7.7	6.8	2.2	1.0	0.9

Note: 1920 data for farm share of GDP not available. Value reported is for 1930, as calculated by the Department of Agriculture, Economic Research Service.

Source: Department of Agriculture, National Agricultural Statistics Service, Farms, Land in Farms, and Livestock Operations; Bureau of Economic Analysis, GDP by Industry; Sobek (2006); CEA calculations.

Table 8-2 Farm Types

Small family farms (gross sales less than \$250,000)	Rural-residence family farms:	Retirement farms. Small farms whose operators report they are retired.			
		Residential/lifestyle farms. Small farms whose operators report a major occupation other than farming.			
	Intermediate family farms:	Farming-occupation farms. Small family farms whose	Low-sales farms. Gross sales less than \$100,000.		
		operators report farming as their major occupation.	High-sales farms. Gross sales between \$100,000 and \$249,999.		
Large-scale family farms (gross sales of \$250,000 or more)	Commercial family farms:	Large family farms. Gross sales between \$250,000 and \$499,999.			
		Very large family farms. Gross sales of \$500,000 or more			
Nonfamily farms	Any farm not classified as a family farm, that is, any farm for which the majority of the farm business is not owned by individuals related by blood, marriage, or adoption.				

Note: The National Commission on Small Farms selected \$250,000 in gross sales as the cutoff between small and large-scale farms.

Source: Department of Agriculture, Economic Research Service, Farm Household Well-being

income for farm households are increasingly diversified, which means that many of them are less vulnerable to the fluctuations of farm income. In 2011, households operating commercial farms had median household incomes two and a half times the overall U.S. median household income, with most of their income from farming.

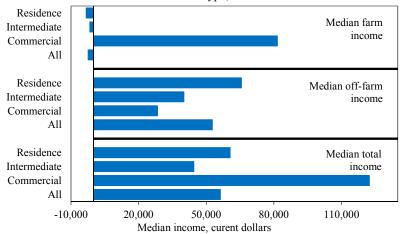
By 2000, 93 percent of farm households had income from off-farm sources, including off-farm wages, salaries, business income, investments, and Social Security. Off-farm work has played a key role in raising farm household income. In 2011, only 46 percent of principal operators of farms reported that farming was their main occupation. While farm household incomes have become more diversified, farm operations have become increasingly specialized: In 1900, a farm produced an average of about five

Table 8-3 Farm Income and Farm Operator Household Income by USDA Farm Size Classification, 2010

	Rural residence farms	Intermediate farms	Commercial farms	All farms
Farm operator households	1,311,117	617,876	214,070	2,143,063
Average gross cash farm income (dollars)	14,974	52,790	840,315	108,320
Average gross cash farm income, by source (%)				
Crop, livestock, and other farm-related income	91.6	94.6	97.0	96.2
Government payments	8.4	5.4	3.0	3.8
Average per farm operator household (dollars)				
Total cash farm expenses	17,216	46,142	613,486	85,117
Net cash farm income	-2,242	6,648	226,829	23,203
Farm operator household income	83,738	51,054	185,098	84,440

Source: Department of Agriculture, Agricultural Resource Management Survey.

Figure 8-1 Median Income for Farm Households by Farm Type and Income Type, 2010-2012



Note: 2012 forecasted values included for "all" farms. Values for farm-type breakouts are 2010-2011 averages.

Source: Department of Agriculture, Economic Research Service, Agricultural Resource Management Survey.

commodities; by 2000, the average had fallen to just over one. This change reflects not only the production and marketing efficiencies gained by concentration on fewer commodities, but also the effects of farm price and income policies that have reduced the risk of depending on returns from only one crop or just a few crops.

The average age of U.S. farmers and ranchers has been increasing over time. In 1978, 16.4 percent of principal farm operators were over age 65. By 2007, 30 percent of all farms were operated by producers over 65. In comparison, only 8 percent of self-employed workers in nonagricultural industries in 2007 were that old (Hoppe, McDonald, and Korb 2010). One reason the farming sector is relatively older is that farmers are living longer and often reside on their farms. Many established farmers never retire. Additionally, one-third of beginning farmers are over age 55, indicating that many farmers move into agriculture only after retiring from a different career. More than 20 percent of farm operators report that they are retired. Another 32 percent of all farms are operated by farmers aged 55 to 64 years. Farmers aged 55 and older account for more than half of the total value of production. Farmers under 35 contribute only 6 percent of the total value of production (Figure 8-2). This demographic transition has implications for the future of the U.S. agricultural sector.

Barriers to Entry and Succession Planning in U.S. Agriculture

Starting a farm operation can be an expensive endeavor. Startup requires access to land and capital equipment, as well as the operator's time.

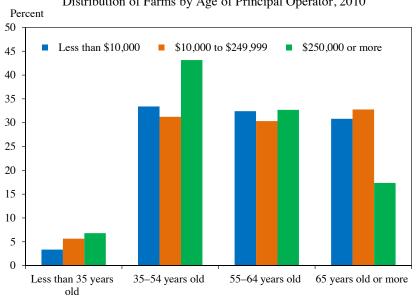


Figure 8-2
Distribution of Farms by Age of Principal Operator, 2010

Source: USDA (2010).

In 2011, the average farm operated 415 acres and held assets worth just under \$1 million, accounted for mostly by land and structures. Even for farm operators under age 35, asset values averaged \$811,500, highlighting the extent to which startup costs represent a hurdle for new entrants (USDA 2011).

The Federal Government recognizes the need to support and develop new farm operators. Through the Farm Service Agency, the USDA helps beginning farmers who are unable to obtain financing from commercial lenders by targeting a portion of its direct and guaranteed loan funds to farmers and ranchers who have not operated a farm or ranch for more than 10 years and do not own a farm or ranch greater than 30 percent of the median size farm in the county, as determined by the most current Census for Agriculture.

After spending a lifetime accumulating wealth in agricultural assets, farmers often wish to pass the farm business to their heirs. Special provisions in the Federal estate tax, such as a rule that allows farm assets of an estate to be valued at their farm-use value rather than a higher market value, facilitate the transfer of farm estates from one generation to the next. (See Economics Application Box 8-2 on the Federal estate tax.)

As farmers begin to consider transitioning from active operation to retirement, questions about what will happen to their land remain. In some cases, the land is passed to an heir who continues the family business; in other cases, it is sold at auction perhaps to another farmer, but sometimes for other purposes such as residential or commercial development. As much as 2 million acres of America's farms, ranches, forests, wildlife habitat, and other open spaces are lost to fragmentation and development each year, with significant implications for water resources, outdoor recreation, wildlife, rural economies, and other resources.

Making a donation of a qualified conservation easement is one way for farmers and ranchers to maintain their current operation and conserve the amenities and natural assets of rural America for future generations. Such a donation allows the farmer to create a separate, special right on the designated land stipulating that it will be used only for certain purposes, such as agricultural production. The farmer or rancher can continue to use the land for production, knowing that in the future, it will continue to be used in the same manner. In return for placing the land into a qualified conservation easement, the landowner may deduct the value of the easement from his or her income for tax purposes.

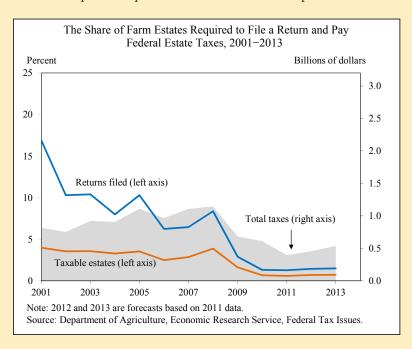
Starting in 2006, a new law encouraged additional conservation easements by significantly expanding the tax benefits landowners may receive when they donate easements to qualified organizations, such as a land

Economics Application Box 8-2: The Federal Estate Tax and Farm Business Succession Planning

An estate—in general, a collection of assets passed down from a decedent upon his or her death—is one vehicle available to farmers to transfer agricultural property from one generation to the next. Under current law, only those returns that have a taxable estate above the exempt amount after deductions for expenses, debts, and bequests to a surviving spouse or charity are subject to the tax.

While the estate tax has been amended many times, it has never directly affected a large percentage of taxpayers, including farmers. In fact, in no year since 1916 has the percentage of adult deaths generating a taxable estate surpassed 8 percent (Jacobson, Raub, Johnson 2012). Several targeted provisions have reduced the potential impact of estate taxes on the transfer of a farm or other small business to the next generation (Durst 2009). These provisions include:

- A special provision that allows farm real estate to be valued at farm-use value rather than at its fair-market value, which is often higher because it reflects the value of the land for housing or commercial development.
- An installment payment provision that allows an estate to elect to pay the estate tax attributable to the decedent's interest in a closely held business in up to 10 equal, annual installments. The provision covers a



decedent whose interest in the closely held business exceeds 35 percent of the adjusted gross estate, which describes a typical farm estate.

• A provision aimed at encouraging farmers and other landowners to donate an easement or other restriction on development that has provided additional estate tax relief.

The box figure illustrates the relatively low and declining burden the Federal estate tax has placed on farm estates. In 2001, 16.9 percent of farm estates were required to file a tax return and less than 4 percent had an estate tax liability. By 2011, as a result of the generous tax-exemption amount and low tax rate, those figures had declined to 1.28 percent and 0.6 percent, respectively. Total tax liability in 2011 was also lower than it had been the prior 10 years, despite record high agricultural land value, which represents a large majority of the assets in a farm estate. The American Taxpayer Relief Act of 2012 made permanent a maximum estate tax rate of 40 percent; it also set the exclusion amount at \$5 million and allowed for inflation adjustment, continuing the tax relief to most farm estates.

trust or public agency. More specifically, this enhanced incentive raises the maximum annual deduction a donor can take for the donation of a conservation easement and extends the period to claim the deduction from 5 to 15 years, from the year of the donation. In 2007 and 2008, a survey found that this incentive helped America's 1,700 local land trusts increase the pace of conservation by about 250,000 acres each year—a 36 percent increase over previous years.

The enhanced incentive provisions expired in 2009 but were renewed through December 31, 2013, by the American Taxpayer Relief Act of 2012. Making permanent the expanded tax incentives beyond 2013 would further bolster land conservation and job creation, especially on working lands, helping to keep landowners on their property and achieve a broad range of conservation outcomes.

A Mature Domestic Food Market

Americans benefit from a highly efficient agricultural sector and have higher standards of living now than at any point in the past. Of concern to producers in the U.S. food market is how much of their disposable income American consumers will spend on food in the future as well as what food products they will demand. Engel's law, which postulates that rising incomes lead to an increase in the nominal amount of income spent on food while the proportion of income spent on food falls, still holds in the United States. The share of American household budgets devoted to food fell from 15

percent in 1984 to 13 percent in 2009. However, a rise in per capita income since 1984 has counteracted the decrease in the share of household budgets devoted to food, as real per capita spending on food has increased from \$3,592 in 1985 to \$4,229 in 2011 (in 2011 dollars) (Figure 8-3).

As their real incomes rise, most Americans do not need larger quantities of food to satisfy their nutritional needs. They are, however, changing their food choices to include higher value foods, such as better cuts of meat, a variety of fruits and vegetables, and organic and specialty food items. A mature U.S. food market will require the agricultural sector to focus on innovations that produce value-added products for the domestic market in order to satisfy rising U.S. consumer demand for specialty goods.

New Markets in Agriculture

Organic farming has been one of the fastest-growing sectors in agriculture, and double-digit growth in sales of organic foods has provided market incentives for the U.S. agricultural sector across a broad range of products. The retail value of the organic industry grew to \$31.4 billion a year in 2011, up from \$21.1 billion in 2008 and \$3.6 billion in 1997 (Dimitri and Oberholtzer 2009; USDA 2012a). Between 2002 and 2008, acres under organic production grew by an average of 16.5 percent a year. Organic

2011 Dollars 4,300 2011 4,200 4,100 4,000 3,900 3,800 3,700 3,600 3,500 1985 1990 1995 2000 2005 2010 Source: USDA (2013c).

Figure 8-3 U.S. Real Per Capita Food Expenditures, 1985–2011

sales currently account for more than 3 percent of total U.S. food sales, and provide a larger share in categories such as produce and dairy. Growth has been particularly evident in the organic dairy sector, which accounted for 16 percent of organic sales in 2008. The number of organic milk cows on U.S. farms increased by annual average of 26 percent between 2000 and 2008. As demand for organic food has increased, the U.S. agricultural sector has taken steps to meet it; the number of operations certified as organic grew by 1,109—or more than 6 percent—between 2009 and 2011.

The USDA has taken steps both to promote and to regulate the growing organic food industry by establishing the National Organic Program (NOP), whose mission is to ensure the integrity of USDA-certified organic products in the United States and throughout the world. The NOP accredits nearly 50 domestic organic certifying agents who are authorized to issue an organic certificate to operations that comply with the USDA organic regulations. Between 2009 and 2011, the USDA has also supported its own scientists and university researchers with more than \$117 million in funding focused on improving the productivity and success of organic agriculture. For example, USDA research on weed management for organic vegetable production has produced techniques and tools that can help control 70 percent of weeds at 15 percent of the previous cost for weed control. Spreading the USDA organic research findings to people in the field is critical, and the "eOrganic" electronic extension service funded by the USDA has become an essential tool for compiling and disseminating knowledge about organic production.

The increasing demand for organic foods has been accompanied by a growing "local" movement. The markets for organic and local food regularly overlap: organic farmers are much more likely than conventional farmers to sell their products locally (Kremen, Greene, and Hanson 2004), with about a quarter of all organic sales in 2004 made within an hour's drive of the farm (Greene et al. 2009). Similarly, 82 percent of all farmers' markets had at least one organic vendor. Sales of locally produced foods make up a small but growing part of U.S. agricultural sales, particularly for small farms. The USDA estimates that the farm-level value of local food sales totaled nearly \$5 billion in 2008, or 1.6 percent of the U.S. market for agricultural products. An estimated 107,000 farms, or 5 percent of all U.S. farms, are engaged in local food systems, with small farms (those with less than \$50,000 in gross annual sales) accounting for 81 percent of all farms reporting local food sales in 2008 (Low and Vogel 2011). Examples of the types of farming businesses that are engaged in local foods are direct-to-consumer marketing, farmers' markets, farm-to-school programs, community-supported agriculture, community gardens, school gardens, food hubs and market aggregators, kitchen incubators, and mobile slaughter units, among a myriad of other types of operations.

Local goods are also good for the economy. A USDA study found that produce growers selling into local and regional markets generated 13 full-time operator jobs for every \$1 million in revenue earned, for a total of 61,000 jobs in 2008 (Low and Vogel 2011). Farmers that did not sell into these markets generated only three full-time operator jobs per \$1 million revenue. To foster exposure to and growth in local foods, the USDA has created the Know Your Farmer, Know Your Food management and communications initiative, which helps stakeholders navigate USDA resources and efforts related to local and regional food systems. Future growth of the agricultural economy can be enhanced by growth in those sectors.

Today's Farm Structure

The current strength of the farm economy is also built on the restructuring that has taken place over time, making the most productive farms larger and more efficient. Agricultural innovations have been labor-saving, greatly reducing the amount of labor needed for specific farm tasks. Laborsaving innovations also affect farm structure, because they allow a farmer to manage more cropland or raise more livestock. In addition, innovations have led farms to contract out for specialized services. Farmers now rely extensively on private consultants, government extension agents, lenders, and supplier representatives for technical advice.

Some of these managerial innovations rely on further developments in the design of organizations and contractual relationships to effectively manage a series of complicated commercial relationships. The share of production under marketing or production contracts increased from 28 percent in 1991 to more than 38 percent by 2010. Corn, soybean, and wheat producers, for example, place about half of their production under forward contracts; many of them also invest in storage facilities to store products when anticipating future price increases, and nearly 30 percent of them use futures markets to hedge the risks from their cash sales (MacDonald and Korb 2011). Similarly, farmers have realized more intensive use of capital by leasing equipment from specialized suppliers, and they often engage additional specialized expertise and capital equipment by contracting with custom service providers for farm tasks such as spraying, field preparation, or harvesting.

Livestock operations have undergone dramatic changes in the last 30 years. Farmers now use information technology to adjust feed mixes and climate controls automatically to meet the precise needs of animals in confined feeding operations. Integrated hog operations, for example, sharply

reduced the amount of feed, capital, and labor needed to produce hogs as new technologies and organizational forms swept the industry. As a result, live hog prices were nearly a third lower than they would have been without the productivity growth that occurred between 1992 and 2004, and retail pork prices were 9 percent lower (Key and McBride 2007).

The market, scientific, and technological opportunities beckoning American farmers are as great as they have ever been. Over the past three decades, a series of revolutions in the understanding of the science of living organisms and exponential growth in the processing power of information technology have raised the potential for productivity growth in American agriculture that could outstrip even the impressive record of growth it logged over the course of the 20th century. But as America's own history shows, neither revolutions in science and technology nor market signals will find practical application on America's farms and ranches without careful, effective, smart investment by public science institutions. Even America's larger farms are too small to support sophisticated basic research, and many of the most significant improvements that farms can be expected to make as they apply the fruits of this research are not patentable. The partnership between public science and the private farm must continue if these possibilities are to be realized, particularly in the face of climate change. The Obama Administration believes America's agricultural future is worth investing in and has committed to increases in scientific research that could benefit the agricultural sector for decades to come.

Investing in Agricultural Productivity

In 1950, the average dairy cow produced about 5,300 pounds of milk. Today the average cow produces about 22,000 pounds of milk, thanks to improvements in cow genetics, feed formula, and management practices. Over that time period, the number of dairy cows in America has fallen by more than half, yet U.S. milk production has nearly doubled.

Persistent gains in efficiency have defined American agriculture. Public and private investments in agricultural research and development (R&D) have helped U.S. farmers find ways to grow more with less. While growth in U.S. industrial output over the past 50 years has come primarily from increases in capital and labor, agricultural output growth mainly has come from substantial increases in total factor productivity. American farmers have continually found ways to grow more with less; new seeds are less susceptible to disease and produce higher yields, new tractors are guided by satellites and spread fertilizer optimally across the field, and animals' diets are optimally calibrated to grow larger animals with less feed. These

innovations have caused improvements in farm productivity to outpace improvements in non-farm productivity over the past 25 years.

From 1948 to 2009, farm productivity nearly tripled, growing at a rate of 1.6 percent a year. In the early part of that period, increased productivity, measured as output per unit of combined inputs, combined with increased use of equipment and chemical inputs to drive the growth in agricultural output. Between 1980 and 2009, equipment stocks fell along with continued declines in labor and land inputs; chemical use continued to rise, but at a much slower rate. Despite reduced input use, agricultural output grew by 1.5 percent a year in 1980–2009, with increasing productivity accounting for almost all of the growth (Figure 8-4).

Research and Development Drives Productivity Growth

Increasing productivity on U.S. farms stems largely from the rapid and widespread adoption of a continuing series of biological, chemical, mechanical, and organizational advances. Formal research programs are carried out in universities, government labs, and private firms. Agricultural innovations building on that research are developed by input suppliers in the private sector or by public institutions.

Public support of agricultural R&D generates high payoffs for farmers and the public. Fuglie and Heisey (2007) found that every dollar invested

Productivity index (1948 = 100) 300 2009 Total farm output 250 200 Nonfarm 150 productivity 100 Total farm input Farm 50 productivity 0 1958 1968 1978 1998 2008 1948 1988

Figure 8-4
Farm and Nonfarm Productivity, 1948–2009

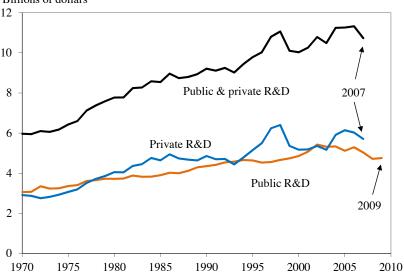
Source: Department of Agriculture, Economic Research Service, Agricultural Productivity in the U.S.; Bureau of Labor Statistics, Major Sector Productivity and Costs.

in public agricultural research generates 10 times that amount in benefits to society. Another recent study (Alston et al. 2009) found an even higher return on Federal and State agricultural research expenditures, with estimated benefits of \$20 for every \$1 invested. Other academic studies reached broadly similar conclusions.

Total R&D spending in agriculture reached \$11 billion in 2007, or nearly 8 percent of the value added in the sector. Annual public agricultural R&D spending, through universities as well as government laboratories, rose 77 percent between 1970 and 2002 (after accounting for inflation). Public expenditures have not kept up with R&D cost inflation since, however, falling by 13 percent in real terms between 2002 and 2009. Private R&D expenditures are sensitive to the business cycle but doubled in inflation-adjusted terms between 1970 and 2007 (Figure 8-5).

Spillovers are ubiquitous in R&D in general and in agricultural R&D in particular. Ideas that are discovered by one institution may have an impact on the research productivity of another. Some of the important, and overlapping, categories of spillovers in agricultural R&D are geographical, for example, from one state or one country to another; institutional, from the private sector to the public, or vice versa, across competing institutions

Figure 8-5 Public and Private U.S. Agricultural R&D Spending, 1971–2009 Billions of dollars



Note: All R&D spending; in 2006 dollars using ERS R&D deflator.

Source: Department of Agriculture, Economic Research Service, Agricultural

Research Funding in the Public and Private Sectors.

such as universities, or from one industry to another; and across scientific areas, from "pretechnology" sciences to agricultural sciences, for example, or from biomedical science to agricultural science.

Economists have studied spillovers related to agriculture R&D (see, for example, Evenson 1988 or Griliches 1998). One of the more commonly addressed spillover areas for agricultural research is the geographical spillover from one state to another. Pardey and Alston (2011) estimated that roughly one-third of the benefits of state-level agricultural R&D are generated through spillovers to states other than those in which the research was conducted.

Conservation Practices and the Environment

The overuse of nitrogen fertilizer has widely recognized detrimental effects on the environment, especially downstream of treated fields. Particularly in the Gulf of Mexico, excess nitrogen is associated with low-oxygen environments, or "dead zones." Corn is the most widely planted crop in the United States and the largest user of nitrogen fertilizer. In 2010, more than 97 percent of planted corn acres received nitrogen fertilizer (commercial and manure), an increase of 18 percent from 2001. At the same time, farmers have improved their use of nitrogen—corn acres where nitrogen was applied in excess of agronomically necessary rates declined from 41 percent to 31 percent (Ribaudo et al. 2012).

Adoption of other conservation management practices also has the potential to reduce environmentally harmful impacts of agricultural production. Since 2000, corn, cotton, soybean, and wheat acreage under conservation tillage (mulch, ridge, and no till) has increased; conservation tillage may reduce soil erosion and water pollution but increase pest management costs (Osteen, Gottlieb, and Vasavada 2012).

The Federal Government plays an important role in encouraging conservation adoption by offering numerous conservation programs to assist private landowners in conserving the soil, water, wildlife, and other natural resources found on their property. These programs give landowners incentives to consider natural resources in their agricultural practices. Two relatively new programs, Working Lands for Wildlife and the National Water Quality Initiative, help producers stay in operation by providing financial and technical support, as well as regulatory certainty, if the landowner takes steps to restore and conserve wildlife habitat or water quality on their property.

The USDA's National Water Quality Initiative works with farmers, ranchers, and forest landowners in priority watersheds to help improve water quality and aquatic habitats in impaired streams. As of 2012, approximately

\$34 million had been obligated for improvements on about 161,000 acres. Another \$21 million was obligated through more than 800 contracts with private landowners for Working Lands for Wildlife, also administered by the Natural Resources Conservation Service and Fish and Wildlife Service. The contracts will restore wildlife habitat on more than 310,000 acres of range, pasture, and forest lands across the country.

Natural Capital, Conservation, and the Outdoor Economy

Agriculture, as a land use, affects a large amount of natural capital (land, water, air, and genetic resources on farms and ranches) in the United States. Based on 2002 data, private farms accounted for 41 percent of all U.S. land, including 434 million acres of cropland, 395 million acres of pasture and range, and 76 million acres of forest and woodland (Ribaudo et al. 2008). This capital can provide a host of environmental services, including water quality, air quality, flood control, wildlife, and carbon sequestration. These services can be consumed directly or combined by consumers with other goods to create final goods, such as sightseeing, fishing, wildlife viewing, or hunting, all of which support the outdoor economy.

Multisector efforts under the President's America's Great Outdoors initiative have bolstered outdoor recreation, conservation, and restoration of America's natural resources on public lands, as well as on working farms, ranches, and forests. In a 2012 study of 11 western states, economists found that national parks, monuments, and other protected Federal public lands promote more rapid job growth and are correlated with higher levels of per capita income in surrounding areas. Companies use the high quality of life provided by localities with access to healthy and protected lands and waters as a recruiting tool to attract new and talented employees who value natural beauty and outdoor recreational opportunities.

Outdoor recreation is an often overlooked but significant economic driver in the United States, with one industry study estimating that it provided 6.1 million jobs, spurred \$646 billion in spending, much of it on travel and tourism, and raised \$80 billion in Federal, State, and local tax revenue in 2010 (Outdoor Industry Association 2012). National parks and Federal lands and waters located across the entire United States, including in many rural areas, play a significant role in supporting the travel and tourism industry. Each year, millions of international tourists visit U.S. public lands and small towns, spending money at local businesses that provide lodging, dining, retail shopping, and entertainment. Rural America plays a particularly important role in the national tourism economy by attracting and retaining tourists for longer visits (Interior 2012).

GROWING GLOBAL DEMAND FOR FOOD AND AGRICULTURAL COMMODITIES

The U.N. Food and Agricultural Organization (FAO) estimates that global agricultural production will need to increase by around 60 percent to meet the anticipated increase in demand in 2050, given an additional 2.3 billion people and current consumption patterns. Meeting this demand will depend largely on increases in agricultural productivity because input scarcity, particularly of natural resources and environmental services, will become more binding with population growth and climate change.

Population Growth and Urbanization

The world's population grows by more than 200,000 people each day and is expected to increase from 7 billion in 2012 to more than 9.2 billion in 2050. More than 95 percent of all population growth is expected to occur in low-income countries (Figure 8-6).

As the worldwide population increases, most of the growth will come from urbanization. More than half of the world's population was living in urban areas by 2008, compared with just 29 percent in the 1950s. Approximately 70 percent of the world population is expected to be living in urban areas by 2050 (Figure 8-7).

Billions of people

9

8

7

— United States

6

— Africa

— Asia

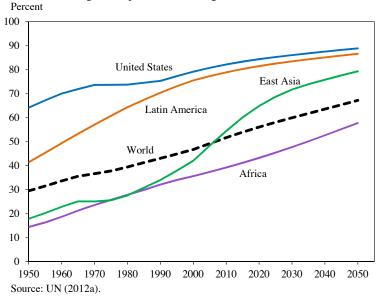
1950 1960 1970 1980 1990 2000 2010 2020 2030 2040 2050

Figure 8-6
Population by Region, 1950–2050

Note: 2020–2050 data are projections.

Source: UN (2011).

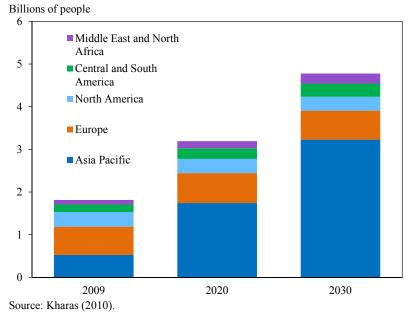
Figure 8-7
Percentage of Population Residing in Urban Areas, 1950–2050



A world population living primarily in cities and towns will present unique challenges to the agricultural sector, because urban populations rely heavily on a stable and efficient worldwide food chain to provide the nutrient-dense and diverse foods they demand. The rising global population is also expected to be accompanied by falling poverty rates and increasing incomes for a large fraction of the world's population, particularly in Asia. Notably, the poverty rate in East Asia fell from nearly 80 percent in 1980 to less than 20 percent in 2005. Along with the decline in poverty, there is an emerging middle class in the Asia Pacific region that the OECD projects will increase rapidly, from 525 million in 2009, to more than 1.7 billion in 2020, and to 3.2 billion in 2030 (Figure 8-8) (Kharas 2010). The result will likely be increased consumption of food per capita and a change in diets toward a higher proportion of meat.

Rising global food demand and the expected change in dietary patterns accompanying the growth in income throughout the world, particularly in China, will lead to opportunities for growth in the U.S. agricultural sector, most notably in meat export. World meat and dairy consumption doubled between 1950 and 2009. Global meat consumption has been growing much more rapidly than consumption of grains and oilseeds, and between 1985 and 1990, production of meat (beef, pork, chicken, and turkey) rose more than 3 percent a year, well above the world's population growth rate of 1.7 percent a year.

Figure 8-8 Middle-Class Population by Region, 2009–2030



Pressure on Agricultural Land and the Environment

Continuing increases in the demand for agricultural products, especially resource intensive foods such as meat, are expected to have a deleterious impact on agricultural land, soil, and water, and to create broader ecosystem-level pressures (UN 2012b). According to the United Nations, global food production currently uses nearly one-quarter of all the habitable land on earth, accounts for more than 70 percent of fresh water consumption, and produces more than 30 percent of global greenhouse gas emissions. In addition, global food production accounts for 80 percent of deforestation and is the largest single cause of species and biodiversity loss.

A collaborative report on climate change prepared by the USDA and scholars from a variety of universities and other Federal and nongovernmental agencies suggests that climate change will impact both agricultural productivity and commodity price volatility (Walthall et al. 2012). The increased temperature will increase the likelihood of grain and oilseed crop failure, forest fires, insect outbreaks, and tree mortality. Further, elevated levels of carbon dioxide are expected to reduce the productivity of livestock and dairy animals and increase weed growth. Although some agricultural and forest systems may experience productivity increases in the near term, the benefits provided by these ecosystems, such as clean drinking water and

natural waste decomposition, will diminish over the long term, requiring a change in management regimes. Management of water resources will become more challenging, and natural disasters such as forest fires, insect outbreaks, severe storms, and drought will occur with increased frequency and severity, placing heavy demands on management resources, such as Federal disaster assistance. (For additional discussion of climate change, see Chapter 6.)

GLOBAL COMMODITY MARKETS AND PRICE VOLATILITY

Trade in agricultural commodities is a global endeavor and prices respond to supply and demand conditions around the world. As a result, agricultural commodity markets are characterized by a high degree of volatility. Four major market fundamentals explain why that is the case. First, agricultural output is in large part at the mercy of nature. Shocks from weather, pests, and other natural phenomena have unpredictable effects on supply. With the effects of global climate change already being seen in many parts of the globe and projected to continue, the unpredictability of these impacts is likely to increase over time. Second, diets are somewhat inflexible in the short run, which means demand for certain foods remains relatively constant.2 A third source of volatility is the natural growing cycle, which contributes to a relatively fixed short-run supply. Finally, declining stock-toconsumption ratios amplify the effects of food price shocks.

The integration of markets can also be a source of volatility. Food and energy markets in the United States and around the world have become increasingly interlinked through the use of agricultural feedstock in the production of ethanol and the use of oil and natural gas in agricultural production.3 Growth in the use of biofuels, for example, not only increases the demand for agricultural feedstocks but may also make demand less elastic through such measures as biofuel blending requirements. As such, integration can cause shocks in one market to be transmitted to another.

Since the early 1970s, food prices have become much more volatile. In general, high food prices bring with them higher price volatility, and average real food prices in the past five years were 35 percent higher than prices in the previous decade, according to the FAO's Food Price Index. The index tracks the monthly change in the average international prices of five commodity groups, namely, meat, dairy, cereals, oils, and sugar. The index peaked in February 2011 and has since fallen 10 percent. Overall food prices

² For data on commodity and food elasticities, see USDA Economic Research Service, http:// www.ers.usda.gov/data-products/commodity-and-food-elasticities.aspx.

³ Natural gas is the primary feedstock in the production of ammonia, and ammonia is the primary input for all nitrogen fertilizers.

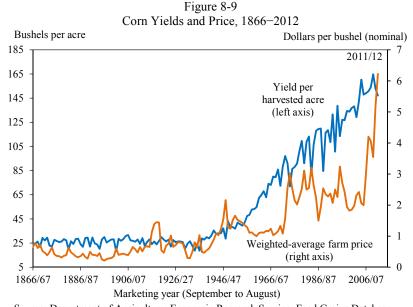
surged in the summer of 2012, driven by higher cereal prices. Food price spikes are not uncommon, and in most cases prices eventually fall as much as they have risen. Figure 8-9 demonstrates the increasing variability in the nominal price of corn since 1866–67.

MEETING THE CHALLENGES AND HARNESSING THE OPPORTUNITIES OF GLOBAL DEMAND GROWTH

For U.S. agriculture to benefit fully from the growing food demand and changing food patterns around the world, access to the global market must be ensured. Successful efforts by the Federal Government to open foreign markets have contributed to an agricultural export boom. In FY 2012, American agricultural exports reached \$135.7 billion, just short of the record high level of \$137.4 billion set in FY 2011. Additionally, America runs a trade surplus in agricultural goods—a surplus that reached \$32.4 billion in FY 2012 (USDA 2012b).

Open Trade and Access to Global Food Markets

The Obama Administration has made reducing trade barriers to market access overseas for U.S. farmers and ranchers a top priority, alongside



efforts to ensure that America's trading partners fully honor all the commitments they have made under existing trade agreements. The President has signed several historic trade agreements that significantly expand market access for U.S. agricultural exporters. The recently implemented U.S.-Korea Free Trade Agreement (KORUS) is set to deliver substantial gains for U.S. agricultural exports in coming years. In a separate beef import protocol concluded in 2008, Korea agreed to adjust its import restrictions on U.S. beef. As a result, U.S. beef exports to Korea more than doubled in value from 2008 to 2011, to about \$686 million. Under KORUS, Korea will gradually bring its tariffs on imports of U.S. beef and pork down to zero, and the U.S. meat industry will benefit from even greater gains in trade. The improved access provided by the agreement for a wide range of other products, beginning in 2012 and continuing over the agreement's phase-in period, will yield new market opportunities for U.S. exporters. The USDA estimates that, when fully implemented, KORUS will expand U.S. agricultural exports to Korea by an estimated \$1.9 billion a year—gains that will benefit agricultural producers and processors across the United States. The Korean Free Trade Agreement, together with the free trade agreements with Panama and Colombia passed at the same time is expected to boost U.S. agricultural exports by \$2.3 billion a year (Wainio, Gehlhar, and Dyck 2011).

The Obama Administration has worked with a number of other developing and developed countries to reopen their markets to U.S. beef products. Partly as a consequence of these steps, U.S. beef exports in 2011 exceeded 2003's historic levels for the first time, reaching \$5.4 billion. Similarly, 57 countries, including many important emerging markets, have now lifted bans on U.S. poultry products. Between 2007 and 2011, the value of U.S. poultry exports increased from \$4.1 billion to \$5.6 billion. U.S. pork exports to the rapidly growing Chinese market soared after H1N1-related bans were lifted. Immediately before the ban, the United States exported on average about \$132 million a year in pork and pork products to China. In 2010, pork exports to China totaled only \$79.3 million. In 2011, pork exports to China grew by a factor of six, exceeding \$477 million and quickly demonstrating the value of better access to this key emerging market. In the first quarter of 2012, roughly two years after the ban was lifted, the United States exported about \$122 million in pork and pork products to China.

Hired Farm Labor Costs in a Global Economy

Hired labor is a crucial component of U.S. agricultural production. Costs associated with such labor account for 17 percent of variable production expenses for all agricultural commodities and 40 percent of expenses in the production of labor-intensive crops such as fruits, vegetables, and nursery products.

For fruits and vegetables, total agricultural production expenses are near parity between U.S. and international producers, but labor costs are often much lower for foreign growers. In response to higher labor costs, U.S. farms have already turned to mechanization of the harvesting and production processes. For example, mechanized production of raisins, including harvesting and drying of grapes, increased from 1 percent of the raisin crop to 45 percent between 2000 and 2007. Harvesting of baby leaf lettuce is currently 70-80 percent mechanized (Calvin and Martin 2010). These trends will likely increase if wages rise and could potentially lead to consolidation among growers. Some crops are not well suited for fully mechanical production, however. U.S. growers of such commodities may invest in technology that increases labor productivity, such as conveyor belts now common in Southern California strawberry fields.

Although mechanization is attractive in many cases, the costs associated with converting to mechanical processes are high, and larger farms typically stand to profit the most from mechanization. Moreover, growers may be hesitant to adopt the technology because of concerns about loss of quality. Given the difficulties associated with converting to mechanized production in the short run, the affordability of hired farm labor, and immigrant labor in particular, takes on greater importance. It is estimated that, for the past 15 years, about half of all hired laborers working in crop agriculture have lacked the proper immigration designation to work in the United States (Zahniser et al. 2012). Immigration policy, which influences the supply of and demand for labor as well as food prices ultimately paid by the consumer, is an important issue in the agricultural sector.

In their research, Zahniser et al. (2012) used a simulation to illustrate the effects different changes in immigration policy could have on the agricultural sector, including the effects of disruptions in the supply of labor on farm wages and crop production. Expanding the number of agricultural workers eligible for the H-2A Temporary Agricultural Program, which allows U.S. farms to hire temporary nonimmigrant foreign workers if not enough domestic workers are available, would increase agricultural production and exports by around 1.6 percent and 2.5 percent, respectively, in the long run for labor-intensive sectors like produce and nursery products. On the other hand, a 5.8 million decrease in the overall number of undocumented workers would reduce production and exports throughout all sectors of the economy, with agriculture and other labor-intensive sectors the hardest hit. Agricultural exports would fall by about 3.7 percent.

Improving Risk Management

Traditionally, every five years, Congress passes a bundle of legislation, commonly called the "Farm Bill" that sets national agriculture, nutrition, conservation, and forestry policy. The last Farm Bill, passed in 2008, was set to expire on September 30, 2012 but was extended through fiscal year 2013. The coming expiration of the current Farm Bill represents an opportunity to make the most significant reforms in agricultural policy in decades. The Senate Agricultural Reform, Food and Jobs Act of 2012 would end direct payments-fixed annual payments to farmers based on their farms' historical crop production, paid without regard to whether a crop is currently grown—and streamline and consolidate farm programs, as well as reduce the Federal deficit by as much as \$23.6 billion over 10 years (CBO 2012). It could also strengthen priorities, such as efficient risk management, that help farmers, ranchers, and small business owners protect their investments and ensure a stable supply of needed agricultural product, while continuing to help the U.S. agricultural sector grow the economy.

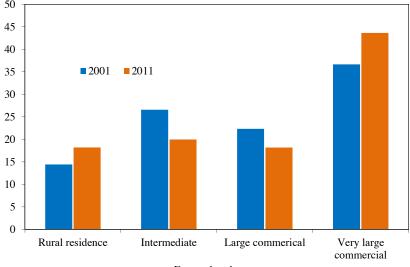
Highly volatile agricultural commodity prices can create significant income risk for farmers. At the same time, the current farm safety net is inefficient and unfair, creating distortions in production and crowding out market-based risk management options. Because program commodity production is concentrated on larger farms, these farms receive the largest share of taxpayer-supported program payments, even though this group of farm households has incomes that are on average three times the average U.S. household (Figure 8-10).

Currently, those households with an average adjusted gross nonfarm income up to \$500,000 are eligible to receive government payments, while those with as much as \$750,000 in average adjusted farm income are eligible for direct payments. Farmers who produce fruits and vegetables do not receive any government program payments. Adding provisions that make lands that have not previously been used to grow crops ineligible for crop insurance or other Federal benefits would help protect the nation's prairies and forests from being converted into marginal cropland.

Today's agricultural commodity support programs are rooted in the landmark New Deal legislation that followed the agricultural depression of the 1920s and 1930s. These programs were designed to sustain prices and incomes for producers of cotton, milk, wheat, rice, corn, sugar, tobacco, peanuts, and other crops, at a time when a large portion of the U.S. population was engaged in farming. Today, less the 2 percent of the U.S. population is engaged in farming, and changing economic conditions and trends in agriculture since these programs began suggest that many of the original motivations for these farm programs no longer apply.

Figure 8-10 Government Commodity Payments by Farm Type

Percent share of commodity payments



Farm sales class

Source: USDA (2001, 2011).

For example, the increasing reliance of farm families on income earned from sources other than their farms and a shift toward market-oriented farm policies have made farms and commodity markets less vulnerable to adverse price changes than before. These changes imply that moving away from traditional commodity support programs would have a much smaller impact on farm household income than in previous decades. Nonetheless, substantial government support of agriculture remains.

Risk management involves choosing among many options for reducing the financial effects of such uncertainties. In addition to participating in government commodity programs that are available for certain commodities, farmers today have private options for managing risk that were not available when commodity price support programs were introduced. For instance, the growth of futures and options markets provides a market-based method for farmers to protect themselves against short-term price declines. Other private means to stabilize farm incomes include saving; borrowing; diversifying among different types of crops, trees, livestock and ecosystem services; contracting farm output with processors at assured prices; crop insurance and total revenue insurance; utilizing a wide range of farm management practices that reduce crop loss (such as irrigation, pesticide use); leasing out farmland; and taking advantage of expanded opportunities for earning nonfarm income.

The Dodd-Frank Wall Street Reform and Consumer Protection Act

In 2010, President Obama signed the Dodd-Frank Wall Street Reform and Consumer Protection Act, with the goal of addressing the lack of transparency, systemic risks, and interconnectedness risks in the over-the-counter (OTC) derivatives markets that, in part, precipitated the recent financial crisis. Modern farm operations—and agribusiness in general—rely greatly on services provided by the OTC derivatives market, including the swaps market. Derivatives, which are financial instruments whose value is based on the value of an underlying asset, liability, or event, perform essential economic functions of price discovery and risk management. The Act strengthens financial market regulation by requiring most standardized swaps to be centrally cleared and traded on an exchange or execution facility, with exemptions from clearing for commercial end-users; subjecting dealers and major participants that trade these derivatives to registration, business conduct, risk management, and collateral requirements; and subjecting all swaps to new recordkeeping and reporting rules.

Although the OTC derivatives market serves an important risk-management role amounting to trillions of dollars in notional value, in the past, OTC derivatives were essentially an unregulated market. The lack of market oversight allowed substantial counterparty credit risk to build up in these markets, with significant consequences for the financial system. In addition, the lack of regulation created inefficiencies by reducing information available to market participants and regulators, hampering price discovery, and facilitating opportunities for fraud. Before passage of the Act, regulators had no authority to monitor the market and prescribe rules. The new clearing and margin requirements will act as safeguards for the performance of the OTC derivatives markets, eliminating counterparty credit risk between the original traders. In addition, new real-time public reporting requirements and execution standards will improve market transparency and lower transaction costs.

The Act further seeks to protect the market for agricultural swaps, while ensuring that agricultural market participants are still able to access risk-management markets. The Act provides that derivatives on agricultural commodities may be conducted only by eligible contract participants—that is, counterparties who hold more than \$10 million in assets or have a net worth of \$1 million or more. Because many smaller farmers would not qualify as eligible contract participants and consequently could not engage in swap contracts that are not traded on a designated contract market (an exchange) or swap execution facility (SEF), the U.S. Commodity Futures Trading Commission granted them an exemption for physical commodity

options. This exemption provides flexibility for all farmers to manage risk using agricultural derivatives contracts.

Conclusion

Although farming has become a progressively smaller share of the U.S. economy, the President believes that a vibrant U.S. agricultural sector is vital for the Nation's prosperity. U.S. agriculture has remained a bright spot in the economy during the Great Recession and its immediate aftermath and despite the most severe drought in more than a half-century. Much of the sector's success can be attributed to growth in global demand for American agricultural exports. In 2012, agricultural exports reached a near record level and are projected to continue to expand. The world's population is expected to reach more than 9.2 billion people by 2050, with most of the growth occurring in countries that are net food importers. President Obama believes that expanding overseas market access is crucial for the continued strength of American agriculture.

Persistent gains in efficiency have defined American agriculture and nearly tripled farm productivity in the second half of the twentieth century. To continue this tradition and maintain the strength of the sector, the Nation must continue to invest in agricultural R&D, helping farmers find new ways to grow more with less and to continue their stewardship of natural resources for future generations. The agricultural sector is increasingly vulnerable to price volatility because of the globalization of agricultural commodities, volatile weather conditions as a result of climate change, and changing consumption patterns. To cope with these challenges, U.S. agriculture must stay at the forefront of agricultural innovation.



REFERENCES

CHAPTER 1 INTRODUCTION

- Auerbach, David I., and Arthur L. Kellermann. 2011. "A Decade of Health Care Cost Growth Has Wiped Out Real Income Gains for an Average U.S. Family." *Health Affairs* 30, no. 9: 1630–36.
- CBO (Congressional Budget Office). 2012a. "Economic Effects of Policies Contributing to Fiscal Tightening in 2013." November.
- _____. 2012b. "Economic Effects of Reducing the Fiscal Restraint That Is Scheduled to Occur in 2013." May.
- _____. 2013. "The Budget and Economic Outlook: Fiscal Years 2013 to 2023." February.
- CEA (Council of Economic Advisers). 1998. *Economic Report of the President*. February.
- _____. 2004. Economic Report of the President. February.
- _____. 2012. "The Middle-Class Tax Cuts' Impact on Consumer Spending & Retailers." November.
- Doucouliagos, Hristos, and T.D. Stanley. 2009. "Publication Selection Bias in Minimum-Wage Research? A Meta-Regression Analysis." *British Journal of Industrial Relations* 47, no. 2: 406–28.
- Fairlie, Robert W. 2012. "Open For Business: How Immigrants Are Driving Small Business Creation in the United States." The Partnership for a New American Economy. August (http://www.renewoureconomy.org/sites/all/themes/pnae/openforbusiness.pdf).
- OECD (Organisation for Economic Co-operation and Development). 2012. OECD Economic Outlook, Issue 1. Paris. July.

- Schmitt, John. 2013. "Why Does the Minimum Wage Have No Discernible Effect on Employment?" Center for Economic and Policy Research. February (http://www.cepr.net/documents/publications/min-wage-2013-02.pdf).
- UN (United Nations). 2011. World Population Prospects, The 2010 Revision. June.

CHAPTER 2

THE YEAR IN REVIEW AND THE YEARS AHEAD

- Aiolfi, Marco, Carlos Capistrán, and Allan Timmermann. 2011. "Forecast Combinations." *The Oxford Handbook of Economic Forecasting*, edited by Michael Clements and David Hendry, pp. 355-388. New York: Oxford University Press.
- Attanasio, Orazio, et al. 1999. "Humps and Bumps in Lifetime Consumption." *Journal of Business Economics and Statistics* 17, no. 1: 22–35.
- Autor, David H., Lawrence F. Katz, and Alan B. Krueger. 1998. "Computing Inequality: Have Computers Changed the Labor Market?" *Quarterly Journal of Economics* 113, no. 4: 1169–214.
- Bachmann, Rudiger. 2011. "Understanding the Jobless Recoveries After 1991 and 2001." Working Paper. University of Michigan. September (http://www.vwlmac.rwth-aachen.de/wpcontent/uploads/bachmann_jlr_2011.pdf).
- Baldwin, Richard, ed. 2009. *The Great Trade Collapse: Causes, Consequences and Prospects*. VoxEU.org eBook.
- Berger, David. 2011. "Countercyclical Restructuring and Jobless Recoveries." Working Paper. Yale University. November (http://www.crei.cat/conferences/joblessrecoveries/David_Berger_JMP_Nov_16.pdf).
- Bernanke, Ben S. 2012a. "Monetary Policy since the Onset of the Crisis." Speech presented at the Federal Reserve Bank of Kansas City Economic Symposium. Jackson Hole, WY. August.
- _____. 2012b. "The Economic Recovery and Economic Policy." Speech presented at the New York Economic Club. New York, NY. November.
- Blinder, Alan, and Mark Zandi. 2010. "How the Great Recession Was Brought to an End." July (http://www.economy.com/mark-zandi/documents/end-of-great-recession.pdf).

- Bloom, Nicholas. 2009. "The Impact of Uncertainty Shocks." *Econometrica* 77, no. 3: 623–85.
- Bound, John, and George Johnson. 1992. "Changes in the Structures of Wages in the 1980's: An Evaluation of Alternative Explanations." *American Economic Review* 82, no. 3: 371–92.
- BPC (Bipartisan Policy Center). 2012. "Indefensible: The Sequester's Mechanics and Adverse Effects on National and Economic Security." June (http://bipartisanpolicy.org/sites/default/files/BPC%20 Sequester%20Paper.pdf).
- Bradley, Ralph. 2005. "Analytical Bias Reduction for Small Samples in the US Consumer Price Index." Bureau of Labor Statistics (http://www.bls.gov/osmr/pdf/st050290.pdf).
- Bullard, James, and James Feigenbaum. 2007. "A Leisurely Reading of the Life-Cycle Consumption Data." *Journal of Monetary Economics* 54, no. 8: 2305–20.
- Campbell, John. 1987. "Does Saving Anticipate Declining Future Labor Income? An Alternative Test of the Permanent Income Hypothesis." *Econometrica* 55, no. 6: 1249–73.
- CBO (Congressional Budget Office). 2011. "Trends in the Distribution of Household Income Between 1979 and 2007." October.
 ______. 2012a. "Economic Effects of Reducing the Fiscal Restraint That Is Scheduled to Occur in 2013." May.
 ______. 2012b. "Estimated Impact of the American Recovery and Reinvestment Act on Employment and Economic Output from July 2012 Through September 2012." November.
 ______. 2012c. "The Distribution of Household Income and Federal Taxes, 2008 and 2009." July.
 _____. 2012d. "What Accounts for the Slow Growth of the Economy After the Recession?" November.
 _____. 2013. "Automatic Reductions in Government Spending--aka Sequestration." February (http://www.cbo.gov/publication/43961).
- CEA (Council of Economic Advisers). 1998. *Economic Report of the President*. February.
- _____. 2012. Economic Report of the President. February.

- _____. 2013. "The Economic Impact of the American Recovery and Reinvestment Act of 2009." Ninth Quarterly Report to Congress. February.
- Chodorow-Reich, Gabriel, et al. 2012. "Does State Fiscal Relief During Recessions Increase Employment? Evidence from the American Recovery and Reinvestment Act." *American Economic Journal: Economic Policy* 4, no. 3: 118–45.
- Chung, Hess, et al. 2012. "Have We Underestimated the Likelihood and Severity of Zero Lower Bound Events?" *Journal of Money, Credit, and Banking* 44, no. 1: 47–82.
- Clemen, Robert T. 1989. "Combining Forecasts: A Review and Annotated Bibliography." *International Journal of Forecasting* 5, no. 4: 559-83.
- Conley, Timothy G., and Bill Dupor. 2012. "The American Recovery and Reinvestment Act: Solely a Government Jobs Program?" Working Paper. University of Western Ontario and Ohio State University.
- DeLong, Bradford J., and Lawrence H. Summers. 2012. "Fiscal Policy in a Depressed Economy." *Brookings Papers on Economic Activity* 44, no. 1. Washington: Brookings Institution.
- Dynan, Karen. 2012. "Is a Household Debt Overhang Holding Back Consumption?" *Brookings Papers on Economic Activity* 44, no. 1. Washington: Brookings Institution.
- Evans, Thomas D., and Richard B. Tiller. 2012. "Methodology for Seasonally Adjusting National Household Labor Force Series with Revisions for 2012." Bureau of Labor Statistics, U.S. Department of Labor. January.
- Federal Reserve Board of Governors. 2011. "Industrial Production and Capacity Utilization: The 2010 Annual Revision." April.
- Fernald, John. 2012. "Productivity and Potential Output Before, During and After the Great Recession." Working Paper 2012-18. Federal Reserve Bank of San Francisco. September.
- Fernandez-Villaverde, Jesus, and Dirk Krueger. 2007. "Consumption over the Life Cycle: Facts from Consumer Expenditure Data." *Review of Economics and Statistics* 89, no. 3: 552–65.
- Feyrer, James, and Bruce Sacerdote. 2011. "Did the Stimulus Stimulate? Real Time Estimates of the Effects of the American Recovery and Reinvestment Act." Working Paper 16759. Cambridge, MA: National Bureau of Economic Research. February.

- Friedman, Milton. 1957. *A Theory of the Consumption Function*. Princeton University Press.
- Gordon, Robert J. 2010. "Revisiting U.S. Productivity Growth over the Past Century with a View of the Future." Working Paper 15834. Cambridge, MA: National Bureau of Economic Research. March.
- Hall, Robert E. 2010. "Why Does the Economy Fall to Pieces After a Financial Crisis?" *Journal of Economic Perspectives* 24, no. 4: 3–20.
- _____. 2012. "Quantifying the Forces Leading to the Collapse of GDP After the Financial Crisis." Working Paper. Hoover Institution and Stanford University. February.
- Houthakker, H. S., and Stephen P. Magee. 1969. "Income and Price Elasticities in World Trade." *Review of Economics and Statistics* 51, no. 2: 111–25.
- Hufbauer, Gary C., Ann Elliott, and Jeffrey Shott. 1990. *Economic Sanctions Reconsidered*. Washington, DC: Institute for International Economics.
- Institute for Supply Management. 2012. "U.S. Department of Commerce Makes Annual Adjustments to Seasonal Factors for ISM Manufacturing PMI and Diffusion Indexes and ISM Non-Manufacturing NMI and Diffusion Indexes." News Release. January 31 (http://www.ism.ws/about/MediaRoom/newsreleasedetail.cfm?ItemNumber=22165).
- Kliesen, Kevin L. 2003. "The 2001 Recession: How Was It Different and What Developments May Have Caused It?" *Federal Reserve Bank of St. Louis Review* 85, no. 5: 23–38.
- Krishnamurthy, Arvind, and Annette Vissing-Jorgensen. 2011. "The Effects of Quantitative Easing on Interest Rates: Channels and Implications for Policy." Brookings Papers on Economic Activity 43, no. 2: 215–65. Washington: Brookings Institution.
- Kropf, Jurgen, and Nicole Hudson. 2012. "Current Employment Statistics Seasonal Adjustment and the 2007–2009 Recession." *Monthly Labor Review* 135, no. 10: 42–53.
- Lektzian, David J., and Christopher M. Sprecher. 2007. "Sanctions, Signals, and Militarized Conflict." *American Journal of Political Science* 51, no. 2: 415–31.
- Lettau, Martin, and Sydney Ludvigson. 2003. "Understanding Trend and Cycle in Asset Values: Reevaluating the Wealth Effect on

- Consumption." Working Paper 9848. Cambridge, MA: National Bureau of Economic Research. July.
- Lutz, Bryon. 2008. "The Connection Between House Price Appreciation and Property Tax Revenues." *National Tax Journal* 61, no. 3: 555–72.
- Lutz, Byron, Raven Molloy, and Hui Shan. 2011. "The Housing Crisis and State and Local Government Tax Revenue: Five Channels." *Journal of Regional Science and Urban Economics* 41, no. 4: 306–19.
- Macroeconomic Advisers. 2012. "Seasonals, Schmeezonals!" *Macro Focus* 7, no. 1. August.
- _____. 2013. "March 1 Sequestration." *Macroeconomic Advisers' Alternative Scenarios* 4, no. 1. February.
- Marinov, Nikolay. 2005. "Do Economic Sanctions Destabilize Country Leaders?" *American Journal of Political Science* 49, no. 3: 564–76.
- Masnick, George, Daniel McCue, and Eric Belsky. 2010. "Updated 2010–2020 Household and New Home Demand Projections." Working Paper 10-9. Joint Center for Housing Studies, Harvard University. September.
- McClelland, Robert, and Marshall Reinsdorf. 1999. "Small Sample Bias in Geometric Mean and Seasoned CPI Component Indexes." Working Paper 324. Bureau of Labor Statistics, U.S. Department of Labor. August.
- Mian, Atif R., Kamalesh Rao, and Amir Sufi. 2012. "Household Balance Sheets, Consumption, and the Economic Slump." Working Paper. University of Chicago Booth School.
- Moody's Analytics. 2013. "U.S. Macro Outlook: Restarting the Engines." February (http://www.economy.com/dismal/article_free.asp?cid=237408&tid=5FCB4BBF-D759-422D-BD25-BFF7D505D457).
- Morgan, T. Clifton, Navin Bapat, and Valentin Krustev. 2009. "The Threat and Imposition of Economic Sanctions, 1971–2000." *Conflict Management and Peace Science* 26, no. 1: 92–110.
- OECD (Organisation for Economic Co-operation and Development). 2012. "Labour Losing to Capital: What Explains the Declining Labour Share?" OECD Employment Outlook 2012: 109–62. Paris.
- Pape, Robert. 1997. "Why Economic Sanctions Do Not Work." *International Security* 22, no. 2: 90–136.

- Reinhart, Carmen M., and Kenneth S. Rogoff. 2009. *This Time Is Different: Eight Centuries of Financial Folly*. Princeton University Press.
- Reinhart, Carmen M., and Vincent R. Reinhart. 2010. "After the Fall." Macroeconomic Challenges: The Decade Ahead. Federal Reserve Bank of Kansas City. August.
- Stock, James, and Mark Watson. 2012. "Disentangling the Channels of the 2007–09 Recession." *Brookings Papers on Economic Activity* 44, no. 1. Washington: Brookings Institution.
- Wilson, Daniel. 2012. "Fiscal Spending Multipliers: Evidence from the 2009 American Recovery and Reinvestment Act." *American Economic Journal: Economic Policy* 4, no. 3: 251–82.
- Woodford, Michael. 2010. "Financial Intermediation and Macroeconomic Analysis." *Journal of Economic Perspectives* 24, no. 4: 21–44.
- Yellen, Janet L. 2013. "A Painfully Slow Recovery for America's Workers: Causes, Implications, and the Federal Reserve's Response." Speech delivered at the AFL-CIO. Washington, DC. February.

CHAPTER 3 FISCAL POLICY

- Burman, Leonard E. 2012. "Tax Reform and the Tax Treatment of Capital Gains." Testimony before the House Committee on Ways and Means and the Senate Committee on Finance, September 20 (http://www.finance.senate.gov/imo/media/doc/092012%20Burman%20 Testimony.pdf).
- CBO (Congressional Budget Office). 2011. "The Underfunding of State and Local Pension Plans." May (http://www.cbo.gov/publication/22042).
- _____. 2012. "The 2012 Long-Term Budget Outlook." June (http://www.cbo.gov/publication/43288).
- _____. 2013. "The Budget and Economic Outlook: Fiscal Years 2013 to 2023." February (http://www.cbo.gov/publication/43907).
- CBO/JCT (Congressional Budget Office/Joint Committee on Taxation). 2009. "Subsidizing Infrastructure Investment with Tax-Preferred Bonds." October (http://www.cbo.gov/publication/41359).
- CEA (Council of Economic Advisers). 2012. *Economic Report of the President*. Washington, DC: Government Printing Office (http://www.whitehouse.gov/sites/default/files/microsites/ERP_2012_Complete.pdf).

- Census Bureau. 2012. "Annual Survey of Public Pensions: State- and Locally-Administered Defined Benefit Data." November (http://www.census.gov/govs/retire/).
- Clausing, Kimberly A. 2009. "Multinational Firm Tax Avoidance and Tax Policy." *National Tax Journal* 62, no. 4: 703–25.
- Contos, George, et al. Forthcoming. "Tax Compliance Costs for Corporations and Partnerships: A New Look." Proceedings of the 2012 IRS-TPC Research Conference. Washington, DC.
- Cronin, Julie-Anne, Portia DeFilippes, and Emily Y. Lin. 2012. "Effects of Adjusting Distribution Tables for Family Size." *National Tax Journal* 65, no. 4: 739–57.
- Cronin, Julie-Anne, et al. 2013. "Distributing the Corporate Income Tax: Revised U.S. Treasury Methodology." *National Tax Journal* 66, no. 1: 239–62.
- GAO (Government Accountability Office). 2011. "State and Local Governments: Knowledge of Past Recessions Can Inform Future Federal Fiscal Assistance." GAO-11-401. March (http://www.gao.gov/assets/320/317223.pdf).
- Greenia, Nick, and Mark Mazur. 2006. "IRS Data, Data Users, and Data Sharing." In *Improving Business Statistics Through Interagency Data Sharing*, edited by Caryn Kuebler and Christopher Mackie, pp. 79–90. Washington, DC: National Academies Press (http://www.nap.edu/openbook.php?record_id=11738&page=79).
- Grubert, Harry. 2012. "Foreign Taxes and the Growing Share of U.S. Multinational Company Income Abroad: Profits, Not Sales, Are Being Globalized." *National Tax Journal* 65, no. 2: 247–81.
- Hines, James R., Jr., Hilary Hoynes, and Alan B. Krueger. 2001. "Another Look at Whether a Rising Tide Lifts All Boats." In *The Roaring Nineties: Can Full Employment Be Sustained*, edited by Alan B. Krueger and Robert Solow, pp. 493–537. New York: Russell Sage Foundation (http://www.econ.ucdavis.edu/faculty/hoynes/publications/hhk-final.pdf).
- Holtzblatt, Janet, and Janet McCubbin. 2004. "Issues Affecting Low-Income Filers." In *The Crisis in Tax Administration*, edited by Henry J. Aaron and Joel Slemrod, pp. 148–200. Washington, DC: Brookings Institution Press.

- Hungerford, Thomas L. 2011. "An Analysis of the 'Buffett Rule." Congressional Research Service. October (http://digitalcommons.ilr.cornell.edu/cgi/viewcontent.cgi?article=1870&context=key_workplace).
- _____. 2012. "Taxes and the Economy: An Economic Analysis of the Top Tax Rates Since 1945." Congressional Research Service. September (http://graphics8.nytimes.com/news/business/0915taxesandeconomy.pdf).
- IRS (Internal Revenue Service). 2012. *Internal Revenue Service Data Book*, 2012. Washington, DC (http://www.irs.gov/uac/SOI-Tax-Stats-IRS-Data-Book#_returns).
- Kopczuk, Wojciech. 2006. "Tax Simplification and Tax Compliance: An Economic Perspective." In *Bridging the Tax Gap: Addressing the Crisis in Federal Tax Administration*, edited by Max B. Sawicky, pp. 111–43. Washington, DC: Economic Policy Institute (http://www.columbia.edu/~wk2110/bin/epi.pdf).
- Kopczuk, Wojciech, and Cristian Pop-Eleches. 2007. "Electronic Filing, Tax Preparers, and Participation in the Earned Income Tax Credit." *Journal of Public Economics* 91, no. 7-8: 1351–67.
- Lurie, Ithai, and James Pearce. 2012. "A Markov Chain Analysis of Capital Gains Realizations: The Great Recession Versus the 2001 Recession." U.S. Department of the Treasury, Office of Tax Analysis.
- McGranahan, Leslie. 1999. "State Budgets and the Business Cycle: Implications for the Federal Balanced Budget Amendment Debate." *Federal Reserve Bank of Chicago Economic Perspectives* 23, no. 3: 2–17 (http://www.chicagofed.org/digital_assets/publications/economic_perspectives/1999/ep3Q99_1.pdf).
- Munnell, Alicia H., et al. 2012a. "The Funding of State and Local Pensions: 2011–2015." Issue Brief 24. Center for Retirement Research at Boston College. May (http://crr.bc.edu/wp-content/uploads/2012/05/slp_24.pdf).
- Munnell, Alicia H., et al. 2012b. "How Would GASB Proposals Affect State and Local Pension Reporting?" Issue Brief 23. Center for Retirement Research at Boston College. September (http://crr.bc.edu/wp-content/uploads/2011/11/slp_23.pdf).
- NASBO (National Assocation of State Budget Officers). 2012a. "The Fiscal Survey of the States." Fall (http://www.nasbo.org/sites/default/files/Fall%202012%20Fiscal%20Survey%20of%20States.pdf).
- _____. 2012b. "GASB Enacts Pension Accounting Reforms Regarding the Use of Discount Rates." July (http://www.nasbo.org/sites/

- default/files/pdf/GASB%20 Enacts%20 Pension%20 Accounting%20 Reforms%20 Regarding%20 the%20 Use%20 of%20 Discount%20 Rates.pdf).
- National League of Cities. 2012. "City Fiscal Conditions in 2012." September (http://www.nlc.org/Documents/Find%20City%20Solutions/Research%20Innovation/Finance/city-fiscal-conditions-research-brief-rpt-sep12.pdf).
- Novy-Marx, Robert, and Joshua D. Rauh. 2011. "The Crisis in Local Government Pensions in the United States." In *Growing Old: Paying for Retirement and Institutional Money Management After the Financial Crisis*, edited by Richard J. Herring, Robert E. Litan, and Yasuyuki Fuchita, pp. 47–74. Washington, DC: Brookings Institution Press (http://www.stanford.edu/~rauh/research/NMRLocal20101011. pdf).
- OECD (Organisation for Economic Co-operation and Development). 2008. "Tax Effects on Foreign Direct Investment: Recent Evidence and Policy Analysis." OECD Tax Policy Studies 17. Paris (http://www.oecd.org/ctp/taxpolicyanalysis/taxpolicystudyno17taxeffectsonforeigndirectinvestmentrecentevidenceandpolicyanalysis.htm).
- OMB (Office of Management and Budget). 2011. "Living Within Our Means and Investing in the Future: The President's Plan for Economic Growth and Deficit Reduction." September (http://www.whitehouse.gov/sites/default/files/omb/budget/fy2012/assets/joint-committeereport.pdf).
- _____. 2012a. "Analytical Perspectives, Budget of the United States Government, Fiscal Year 2013" (http://www.whitehouse.gov/sites/default/files/omb/budget/fy2013/assets/spec.pdf).
- _____. 2012b. "Historical Tables, Budget of the United States Government, Fiscal Year 2013" (http://www.whitehouse.gov/omb/budget/Historicals).
- Pew Center on the States. 2012. "The Widening Gap Update." Washington. June (http://www.pewstates.org/uploadedFiles/PCS_Assets/2012/Pew_Pensions_Update.pdf).
- Piketty, Thomas, and Emmanuel Saez. 2007. "How Progressive Is the U.S. Federal Tax System? A Historical and International Perspective." *Journal of Economic Perspectives* 21, no. 1: 3–24.
- Pilot, Adrienne. 2011. "Data Synchronization: Leveraging Existing Business Data to Better Measure the Economy." *Amstat News*,

- November 1 (http://magazine.amstat.org/blog/2011/11/01/data-synchronizationscipolicy/).
- Saez, Emmanuel, Joel Slemrod, and Seth H. Giertz. 2012. "The Elasticity of Taxable Income with Respect to Marginal Tax Rates: A Critical Review." *Journal of Economic Literature* 50, no. 1: 3–50 (http://elsa.berkeley.edu/~saez/saez-slemrod-giertzJEL12.pdf).
- Smith, Adam. 1776. An Inquiry into the Nature and Causes of the Wealth of Nations. (Elecronic version: http://www2.hn.psu.edu/faculty/jmanis/adam-smith/wealth-nations.pdf).
- Wang, Wen, Yilin Hou, and William D. Duncombe. 2007. "Determinants of Pay-as-You-Go Financing of Capital Projects: Evidence from the States." *Public Budgeting & Finance* 27, no. 4: 18–42.
- White House/Treasury (The White House/Department of the Treasury). 2012. "The President's Framework for Business Tax Reform." February (http://www.treasury.gov/resource-center/tax-policy/Documents/The-Presidents-Framework-for-Business-Tax-Reform-02-22-2012. pdf).
- Wilson, Janette, and Pearson Liddell. 2010. "Sales of Capital Assets Reported on Individual Tax Returns, 2007." *Statistics of Income Bulletin* 29, no. 3: 75–104 (http://www.irs.gov/pub/irs-soi/10winbulcapitalassets.pdf).

CHAPTER 4 JOBS, WORKERS, AND SKILLS

- Aaronson, Daniel, Kyung-Hong Park, and Daniel Sullivan. 2007. "Explaining the Decline in Teen Labor Force Participation." *Chicago Fed Letter* 234. Federal Reserve Bank of Chicago.
- Acemoglu, Daron, and David Autor. 2011. "Skills, Tasks, and Technologies: Implications for Employment and Earnings." In *Handbook of Labor Economics* 4B, edited by Orley Ashenfelter and David Card, pp. 1043–171. London: Elsevier.
- Almond, Douglas, and Janet Currie. 2011. "Human Capital Development Before Age Five." In *Handbook of Labor Economics* 4B, edited by Orley Ashenfelter and David Card, pp. 1315–486. London: Elsevier.
- Anderson, Stuart, and Michaela Platzer. 2006. "American Made: The Impact of Immigrant Entrepreneurs and Professionals on U.S. Competitiveness." Arlington, VA: National Venture Capital Association.

- Bardasi, Elena, and Janet C. Gornick. 2008. "Working for Less? Women's Part-Time Wage Penalties Across Countries." *Feminist Economist* 14, no. 1: 37–72.
- Baum, Sandy, and Patricia Steele. 2010. "Who Borrows Most? Bachelor's Degree Recipients with High Levels of Student Debt." New York: College Board Advocacy & Policy Center, Trends in Higher Education Series.
- Bertrand, Marianne, Claudia Goldin, and Lawrence F. Katz. 2010. "Dynamics of the Gender Gap for Young Professionals in the Financial and Corporate Sectors." *American Economic Journal: Applied Economics* 2, no. 3: 228–55.
- Blank, Rebecca M. 2002. "Evaluating Welfare Reform in the United States." *Journal of Economic Literature* 40, no. 4: 1105–166.
- Blank, Rebecca M., and Gary T. Burtless. 1990. "Are Part-Time Jobs Bad? A Future of Lousy Jobs? The Changing Structure of U.S. Wages." Washington: Brookings Institute.
- Blau, David M., and Ryan M. Goodstein. 2010. "Can Social Security Explain Trends in Labor Force Participation of Older Men in the United States." *Journal of Human Resources* 45, no. 2: 328–63.
- Blau, Francine D., and Lawrence M. Kahn. 2003. "Understanding International Differences in the Gender Pay Gap." *Journal of Labor Economics* 21, no. 1: 106–44.
- _____. 2013. "Female Labor Supply: Why Is the US Falling Behind." Working Paper 18702. Cambridge, MA: National Bureau of Economic Research.
- BLS (Bureau of Labor Statistics). 2011. "Labor Force Statistics from the Current Population Survey: March Supplement." U.S. Department of Labor.
- Borjas, George J. 2003. "The Labor Demand Curve *Is* Downward Sloping: Reexamining the Impact of Immigration on the Labor Market." *Quarterly Journal of Economics* 118, no. 4: 1335–374.
- _____. 2007. "Do Foreign Students Crowd Out Native Students from Graduate Programs?" In *Science and the University*, edited by Paula E. Stephan, and Ronald G. Ehrenberg. Madison:University of Wisconsin Press.
- Borjas, George J., Jeffrey Grogger, and Gordon H. Hanson. 2011. "Substitution Between Immigrants, Natives, and Skill Groups." Working

- Paper 17461. Cambridge, MA: National Bureau of Economic Research.
- Bowen, William G., Matthew M. Chingos, Kelly A. Lack and Thomas I. Nygren. 2012. "Interactive Learning Online at Public Universities: Evidence from Randomized Trials." New York: Ithaka S + R.
- Card, David. 1990. "The Impact of the Mariel Boatlift on the Miami Labor Market." *Industrial Labor Relations Review* 43, no. 2: 245-57.
- _____. 1992. "Do Minimum Wages Reduce Employment? A Case Study of California, 1987-89." *Industrial and Labor Relations Review* 46, no. 1: 38–54.
- _____. 2009. "Immigration and Inequality." *American Economic Review* 99, no. 2: 1–21.
- Card, David, and Alan B. Krueger. 1994. "Minimum Wages and Employment: A Case Study of the Fast-Food Industry in New Jersey and Pennsylvania." *American Economic Review* 84, no 4: 772–93.
- CBO (Congressional Budget Office). 2007. "Cost Estimate: Senate Amendment 1150 to S. 1348, the Comprehensive Immigration Reform Act of 2007."
- _____. 2010. "Costs and Policy Options for Federal Student Loan Program."
- CEA (Council of Economic Advisers). 2010. "Work-Life Balance and the Economics of Workplace Flexibility."
- College Board. 2010. "Trends in College Pricing." Trends in Higher Education Series. New York.
- Cortes, Patricia. 2008. "The Effect of Low-Skilled Immigration on U.S. Prices: Evidence from CPI Data." *Journal of Political Economy* 116, no. 3: 381–421.
- Cunha, Flavio, and James J. Heckman. 2008. "Formulating, Identifying, and Estimating the Technology for the Formation of Skills." *Journal of Human Resources* 43, no. 4: 738–82.
- Cunha, Flavio, James J. Heckman, and Susanne M. Schennach. 2010. "Estimating the Technology of Cognitive and Noncognitive Skill Formation." *Econometrica* 78, no. 3: 883–931.
- Deming, David, Claudia Goldin, and Lawrence F. Katz. 2012. "The For-Profit Postsecondary School Sector: Nimble Critters or Agile Predators?" *Journal of Economic Perspectives* 26, no. 1: 139–64.

- Department of Education. 2012. "First Official Three Year Student Loan Default Rates Published." September (http://www.ed.gov/news/press-releases/first-official-three-year-student-loan-default-rates-published).
- DHS (Department of Homeland Security). 2011. "2011 Yearbook of Immigration Statistics."
- Doucouliagos, Hristos, and T. D. Stanley. 2009. "Publication Selection Bias in Minimum-Wage Research? A Meta-Regression Analysis." *British Journal of Industrial Relations* 47, no. 2: 406–28.
- Dube, Arindrajit, T. William Lester, and Michael Reich. 2010. "Minimum Wage Effects Across State Borders: Estimates using Contiguous Counties." *Review of Economics and Statistics* 92, no. 4: 945–64
- Duleep, Harriet O., and Mark C. Regets. 1996. "Family Unification, Siblings, and Skills." In *Immigrants and Immigration Policy: Individual Skills, Family Ties, and Group Identities*, edited by Harriet Duleep and Phanindra Wunnava, pp. 219–44. Greenwich, CT: JAI Press.
- Ehrenberg, Ronald G. 2012. "American Higher Education in Transition." *Journal of Economic Perspectives* 26, no. 1: 193–216.
- Eissa, Nada, and Jeffrey B. Liebman. 1996. "Labor Supply to the Earned Income Tax Credit." *Quarterly Journal of Economics* 111, no. 2: 605–37.
- Fairlie, Robert W. 2012. "Immigrant Entrepreneurs and Small Business Owners, and Their Access to Financial Capital." Small Business Administration, Office of Advocacy.
- Figlio, David N., Mark Rush, and Lu Yin. 2010. "Is It Live or Is It Internet? Experimental Estimates of the Effect of Online Instruction on Student Learning." Working Paper 16089. Cambridge, MA: National Bureau of Economic Research.
- Friedberg, Rachel M. and Jennifer Hunt. 1995. "The Impact of Immigrants on Host Country Wages, Employment and Growth." *Journal of Economic Perspectives* 9, no. 2: 23–44.
- Gauthier-Loiselle, Marjolaine, and Jennifer Hunt. 2010. "How Much Does Immigration Boost Innovation?" *American Economic Journal: Macroeconomics* 2, no. 2: 31–56.
- Goldin, Claudia, and Lawrence F. Katz. 2011. "The Cost of Workplace Flexibility for High-Powered Professionals." *Annals of the American Academy of Political and Social Science* 638, no. 1: 45–67.

- _____. 2012. "The Most Egalitarian of All Professions: Pharmacy and the Evolution of a Family-Friendly Occupation." Working Paper 18410. Cambridge, MA: National Bureau of Economic Research.
- Grogger, Jeffrey. 2003. "The Effects of Time Limits, the EITC, and Other Policy Changes on Welfare Use, Work, and Income Among Female-Headed Families." *Review of Economics and Statistics* 85, no. 2: 394–408.
- Hoefer, Michael, Nancy Rytina, and Bryan Baker. 2012. "Estimates of the Unauthorized Immigrant Population Residing in the United States: January 2011." Department of Homeland Security, Office of Immigration Statistics.
- Holzer, Harry J. 2011. "Raising Job Quality and Skills for American Workers: Creating More-Effective Education and Workforce Development Systems in the States." Discussion Paper 2011-10. Washington: The Hamilton Project.
- Jasso, Guillermina, and Mark R. Rosenzweig. 2008. "Selection Criteria and the Skill Composition of Immigrants: A Comparative Analysis of Australian and U.S. Employment Immigration." IZA Discussion Paper. Bonn: Institute for the Study of Labor. June (http://www.iza.org/en/webcontent/publications/papers/viewAbstract?dp_id=356).
- Kerr, William R., and William F. Lincoln. 2009. "The Supply Side of Innovation: H-1B Visa Reforms and US Ethnic Invention." Working Paper 09-005. Harvard Business School.
- Kochan, Thomas, David Finegold, and Paul Osterman. 2012 "Who Can Fix the 'Middle-Skills' Gap?" *Harvard Business Review*. December.
- Lalonde, Robert J., and Robert H. Topel. 1991. "Labor Market Adjustments to Increased Immigration." *Journal of the European Economic Association* 10, no. 1: 152–97.
- Lang, Kevin, and Russell Weinstein. 2012. "Evaluating Student Outcomes at For-Profit Colleges." Working Paper 18201. Cambridge, MA: National Bureau of Economic Research.
- Langdon, David, George McKittrick, David Beede, Beethika Kahn, and Mark Doms. 2011. "STEM: Good Jobs Now and for the Future." U.S. Department of Commerce, Economics and Statistics Administration.
- Maestas, Nicole, and Julie Zissimopoulos. 2010. "How Longer Work Lives Ease the Crunch of Population Aging." *Journal of Economic Perspectives* 23, no. 1: 39–60.

- Maguire, Sheila, Joshua Freely, Carol Clymer, Maureen Conway and Deena Schwartz. 2010. "Tuning In to Local Labor Markets." Oakland, CA: Public/Private Ventures (http://www2.oaklandnet.com/oakca/groups/ceda/documents/report/dowd021455.pdf).
- Manning, Alan, and Barbara Petrongolo. 2008. "The Part-Time Pay Penalty for Women in Britain." *Economic Journal* 118, no. 526: 29–51.
- Meissner, Doris, Donald M. Kerwin, Muzaffar Chishti, and Clarie Bergeron. 2013. "Immigration Enforcement in the United States: The Rise of a Formidable Machinery." Washington: Migration Policy Institute.
- Meyer, Bruce D., and Dan T. Rosenbaum. 2001. "Welfare, the Earned Income Tax Credit, and the Labor Supply of Single Mothers." *Quarterly Journal of Economics* 116, no. 3: 1063–114.
- Moffitt, Robert A. 2003. "The Temporary Assistance for Needy Families Program." In *Means-Tested Transfer Programs in the United States*, edited by Robert A. Moffit. pp. 291–363. Chicago: University of Chicago Press.
- _____. 2012. "The U.S. Employment-Population Reversal in the 2000s: Facts and Explanations." Washington: Brookings Institute.
- NRC (National Research Council). 1997. "The New Americans: Economic, Demographic, and Fiscal Effects of Immigration." Washington: National Academies Press.
- NSF/NIH (National Science Foundation/National Institute of Health). 2010. "Survey of Graduate Students and Post Doctorates in Science and Engineering."
- National Science Foundation/National Center for Science and Engineering Statistics. 2010. "National Survey of College Graduates."
- OECD (Organisation for Economic Co-operation and Development). 2012a. "Gender Gap Report 2012." Paris (http://www3.weforum.org/docs/WEF_GenderGap_Report_2012.pdf).
- _____. 2012b. "Education at a Glance 2012." Paris. (http://dx.doi.org/10.1787/eag-2012-en.)
- Ottaviano, Gianmarco I.P., and Giovanni Peri. 2012 "Rethinking the Effect of Immigration on Wages." *Journal of the European Economic Association* 10, no. 1: 152–97.
- Passel, Jeffrey S., and Mark Hugo Lopez. 2012. "Up to 1.7 Million Unauthorized Immigrant Youth May Benefit from New Deportation Rules." Washington: Pew Hispanic Center.

- Peri, Giovanni. 2012. "The Effect of Immigration on Productivity: Evidence from U.S. States." Review of Economics and Statistics 94, no. 1: 348 - 58.
- Peri, Giovanni, and Chad Sparber. 2009. "Task Specialization, Immigration and Wages." American Economic Journal: Applied Economics 1, no. 3: 135-69
- Rossin-Slater, Maya, Christopher J. Ruhm, and Jane Waldfogel. 2011. "The Effects of California's Paid Family Leave Program on Mothers' Leave-Taking and Subsequent Labor Market Outcomes." Working Paper 17715. Cambridge, MA: National Bureau of Economic Research.
- Schmitt, John. 2013. "Why Does the Minimum Wage Have No Discernible Effect on Employment?" Center for Economic and Policy Research. February (http://www.cepr.net/documents/publications/ min-wage-2013-02.pdf).
- Singer, Audrey. 2012. "Immigrant Workers in the U.S. Labor Force." Washington, DC: Brookings Institution.
- Smith, Christopher L. 2011. "Polarization, Immigration, Education: What's Behind the Dramatic Decline in Youth Employment?" Working Paper 2011-41. Federal Reserve Board.
- Toossi, Mitra. 2012. "Labor Force Projections to 2020: A More Slowly Growing Workforce." Monthly Labor Review 135, no: 1: 43–65.
- Wadhwa, Vivek, AnnaLee Saxenian, Ben A. Rissing, and Gary Gereffi. 2007. "America's New Immigrant Entrepreneurs: Part I." Duke Science, Technology & Innovation Paper 23.
- Wasmer, Etienne, Peter Fredriksson, Ana Lamo, Julián Messina, and Giovanni Peri. 2007. "The Macroeconomics of Education in Europe." In Education and Training in Europe, edited by G. Brunello, P. Garibaldi, and E. Wasmer, pp. 1-20. New York: Oxford University Press.
- Wellington, Allison J. 1991. "Effects of the Minimum Wage on Employment Status of Youths. An Update." Journal of Human Resources 26, no. 1: 27-46.

CHAPTER 5

REDUCING COSTS AND IMPROVING THE QUALITY OF HEALTH CARE

- Abdulkadiroglu, Atila, Parag A. Pathak, and Alvin E. Roth. 2005. "The New York City High School Match." *American Economic Review* 95, no. 2: 364–67.
- Aizcorbe, Ana M., Bonnie A. Retus, and Shelly Smith. "Toward a Health Care Satellite Account." 2008. Bureau of Economic Analysis, U.S. Department of Commerce.
- Aizcorbe, Ana, Eli B. Liebman, David M. Cutler, and Allison B. Rosen. 2012. "Household Consumption Expenditures for Medical Care: An Alternate Presentation." Bureau of Economic Analysis, U.S. Department of Commerce.
- Baicker, Katherine, and Amitabh Chandra. 2005. "The Consequences of the Growth in Health Insurance Premiums." *American Economic Review* 95, no. 2: 214–18.
- Baumol, William J., and William G. Bowen. 1966. *Performing Arts: The Economic Dilemma*. New York: Twentieth Century Fund.
- BEA (Bureau of Economic Analysis). 2013. "Health Care Satellite Account."

 U.S. Department of Commerce (http://www.bea.gov/national/health_care_satellite_account.htm).
- Berwick, Donald M., and Andrew D. Hackbarth. 2012. "Eliminating Waste in US Health Care." American Medical Association (http://www.hta.hca.wa.gov/documents/Waste_in_Healthcare_JAMA_2012.pdf).
- Bradley, Ralph, et al. "Producing Disease-based Price Indexes." 2010. *Monthly Labor Review* 133, no. 2: 20–28.
- Buettgens, Matthew, Bowen Garrett, and John Holahan. 2010. "America Under the Affordable Care Act." Washington: Urban Institute.
- Carter, M. Grace, Melinda Beeuwkes Buntin, Orla Hayden, Susan M. Paddock, Daniel A. Relles, Greg Ridgeway, Mark E. Totten, Barbara O. Wynn. 2002. "Analyses for the Initial Implementation of the Inpatient Rehabilitation Facility Prospective Payment System." Santa Monica, CA: RAND Corporation.
- CBO (Congressional Budget Office). 2012a. "The Distribution of Household Income and Federal Taxes, 2008 and 2009." July.

- _____. 2012b. "Estimates for the Insurance Coverage Provisions of the Affordable Care Act Updated for the Recent Supreme Court Decision."
- _____. 2013. "The Budget and Economic Outlook: Fiscal Years 2013 to 2023."
- CEA (Council of Economic Advisers). 2012. *Economic Report of the President*. February.
- CMS (Center for Medicare and Medicaid Services). 2012. "National Health Expenditure Projections, 2011–2012." January.
- Cutler, David M. 1995. "The Incidence of Adverse Medical Outcomes Under Prospective Payment." *Econometrica* 63, no. 1: 29–50.
- Cutler, David M., and Mark McClellan. 2001. "Is Technological Change in Medicine Worth It?" *Health Affairs* 20, no. 5: 11–29.
- Cutler, David M., and Sarah Reber. 1998. "Paying for Health Insurance: The Tradeoff Between Competition and Adverse Selection." *Quarterly Journal of Economics* 113, no. 2: 433-66.
- Dafny, Leemore. 2005. "Games Hospitals Play: Entry Deterrence in Hospital Procedure Markets." *Journal of Economics and Management Strategy* 14, no 3: 513–42.
- Eibner, Christine, et al. 2011. "Employer Self-Insurance Decisions and the Implications of the Patient Protection and Affordable Care Act as Modified by the Health Care and Education Reconciliation Act of 2010 (ACA)." Santa Monica, CA: RAND Corporation.
- Encinosa, William, and Didem Bernard. 2005. "Hospital Finances and Patient Safety Outcomes." *Inquiry* 42, no. 1: 60–72.
- Finkelstein, Amy, et al. 2011. "The Oregon Health Insurance Experiment: Evidence from the First Year." Working Paper 17190. Cambridge, MA: National Bureau of Economic Research.
- Fisher, Elliott S., and Jonathan S. Skinner. 2010. "Reflections on Geographic Variations in U.S. Health Care." Hanover, NH: Dartmouth Institute for Health Policy and Clinical Practice.
- Foster, Richard S. 2010. "Estimated Financial Effects of the 'Patent Protection and Affordable Care Act." Center for Medicare & Medicare Services, Department of Health & Human Services.
- Gale, David, and Lloyd Sharpley. 1962. "College Admissions and the Stability of Marriage." *American Mathematical Monthly* 69, no. 1: 9–15.

- Goldman, Dana P., and Elizabeth A. McGlynn. 2005. "U.S. Health Care: Facts About Costs, Access, and Quality." Santa Monica, CA: RAND Corporation.
- Gruber, Jonathan. 1994. "The Incidence of Mandated Maternity Benefits." American Economic Review 84, no. 3: 622-41.
- Hall, Robert, and Chad Jones. 2007. "The Value of Life and the Rise in Health Spending." Quarterly Journal of Economics 122, no. 1: 39–72.
- Healthcare.gov. 2013. "New Tools to Fight Fraud, Strengthen Federal and Private Health Programs, and Protect Consumer and Taxpayer Dollars." Department of Health and Human Services. (http://www. healthcare.gov/news/factsheets/2011/03/fraud03152011a.html).
- HCCI (Health Care Cost Institute). 2012. "Health Care Cost and Utilization Report: 2011." Washington: Health Care Cost Institute.
- Health Resources and Services Administration. 2011. "OPTN/SRTR 2011 Annual Data Report: Kidney" (http://srtr.transplant.hrsa.gov/ annual_reports/2011/pdf/01_kidney_12.pdf).
- HHS (U.S. Department of Health and Human Services). 2012. "The 80/20 Rule: Providing Value and Rebates to Millions of Consumers." June (http://www.healthcare.gov/news/reports/mlr-rebates06212012a. html).
- Kronick, Richard, and Rosa Po. 2013. "Growth in Medicare Spending per Beneficiary Continues to Hit Historic Lows." Office of The Assistant Secretary for Planning and Evaluation, Department of Health and Human Services.
- Lee, David, and Frank Levy. 2012 "The Sharp Slowdown in Growth of Medical Imaging: An Early Analysis Suggests Combination of Policies Was the Cause." Health Affairs 31, no. 8: 1-9.
- Lewin Group. 2010. "Patent Protection and Affordable care Act (PPACA): Long Term Costs for Governments, Employers, Families and Providers." Staff Working Paper no. 11.
- Long, Sharon K., Karen Stockley, and Alshadye Yemane. 2009. "Another Look at the Impacts of Health Reform in Massachusetts: Evidence Using New Data and a Stronger Model." American Economic Review 99, no. 2: 508-11.
- Medicare Trustees (Board of Trustees of the Federal Hospital Insurance and Federal Supplementary Medical Insurance Trust Funds). 2012. "2012 Annual Report of the Board of Trustees of the Federal

- Hospital Insurance and Federal Supplementary Medical Insurance Trust Funds." Washington, DC (http://www.cms.gov/Research-Statistics-Data-and-Systems/Statistics-Trends-and-Reports/ReportsTrustFunds/downloads/tr2012.pdf).
- Murphy, Kevin M., and Robert H. Topel. 2006. "The Value of Health and Longevity." *Journal of Political Economy* 114, no. 5: 871–904.
- National Kidney Registry. 2009. "Kidney Transplants Facilitated by a National Registry Can Save \$100 Billion in U.S. Healthcare Costs." White Paper. Babylon, NY.
- Nordhaus, William D. 2006. "Baumol's Disease: A Macroeconomic Perspective." *Contribution to Macroeconomics* 8, no. 1: 1382-382
- OECD (Organisation for Economic Co-operation and Development). 2012 "How Does the United States Compare." OECD Health Data 2012. Paris (http://www.oecd.org/unitedstates/BriefingNoteUSA2012. pdf).
- Philipson, Tomas, Michael Eber, Darius N. Lakdawalla, Mitra Corral, Rena Conti, and Dana P. Goldman. 2012. "An Analysis of Whether High Health Care Spending in the United States Versus Europe Is 'Worth It' in the Case of Cancer." *Health Affairs* 31, no. 4: 667-75.
- Roth, Alvin E. 1984. "The Evolution of the Labor Market for Medical Interns and Residents: A Case Study in Game Theory." *Journal of Political Economy*, no. 6: 991–1016.
- Seshamani, Meena, J. Sanford Schwartz, and Kevin G. Volpp. 2006. "The Effect of Cuts in Medicare Reimbursement on Hospital Mortality." *Health Services Research* 41, no. 3: 683–700.
- Skinner, Jonathan, and Douglas Staiger. 2005. "Technology Adoption From Hybrid Corn to Beta Blockers," National Bureau of Economic Research Working Papers 11251.
- Skinner, Jonathan, and Douglas Staiger. 2009. "Technology Diffusion and Productivity Growth in Health Care." Working Paper 14865. Cambridge, MA: National Bureau of Economic Research. April.
- Skinner, Jonathan, Douglas Staiger, and Elliott Fisher. 2006. "Is Technological Change in Medicine Always Worth It? The Case Of Acute Myocardial Infarction." *Health Affairs* 25, no. 2: w34–47.
- Skinner, Jonathan, Elliott Fisher, and John E. Wennberg. 2005. "The Efficiency of Medicare." In *Analyses in the Economics of Aging*, edited by D. A. Wise, pp. 129-60. Chicago, IL: University of Chicago Press.

- Sloan, F., M. Morrisey, and J. Valvona. 1988. "Effects of the Medicare Prospective Payment System on Hospital Cost Containment: An Early Appraisal." Milbank Quarterly 66, no. 2: 191-220.
- Smith, Sheila, Joseph P. Newhouse, and Mark S. Freeland. 2009. "Income, Insurance, and Technology: Why Does Health Spending Outpace Economic Growth?" Health Affairs 28, no. 5: 1276-284.
- Social Security Trustees (Board of Trustees of the Federal Old-Age and Survivors Insurance and Federal Disability Insurance Trust Funds). 2012. "The 2012 Annual Report of the Board of Trustees of the Federal Old-Age and Survivors Insurance and Federal Disability Insurance Trust Funds." Washington, DC (http://www.ssa.gov/ oact/TR/2012/tr2012.pdf).
- Sommers, Benjamin D. 2012. "Number of Young Adults Gaining Insurance due to the Affordable Care Act Now Tops 3 Million." Assistant Secretary for Planning and Evaluation, U.S. Department of Health and Human Services. June (http://aspe.hhs.gov/aspe/ gaininginsurance/rb.shtml).
- U.S. Census Bureau. 2012. "Projections of the Population by Selected Age Groups and Sex for the United States: 2015 to 2060."
- _. 2012. "State & County QuickFacts."
- USRDS (United States Renal Data System). 2011. "Costs of ESRD." Annual Data Report, ch. 11.
- Viscusi, W. Kip, and Joseph E Aldy. 2003. "The Value of a Statistical Life: A Critical Review of Market Estimates Throughout the World." Journal of Risk and Uncertainty 27, no. 1: 5-76.
- White, C. 2008. "Why Did Medicare Spending Growth Slow Down?" Health Affairs 27, no. 3: 793-802.

CHAPTER 6

CLIMATE CHANGE AND THE PATH TOWARD SUSTAINABLE ENERGY SOURCES

- Arctic Monitoring and Assessment Programme. 2011. Snow, Water, Ice and Permafrost in the Arctic (SWIPA). Cambridge University Press.
- BEA (Bureau of Economic Analysis). 2012. National Income and Product Accounts. U.S. Department of Commerce (http://www.bea.gov/ iTable/index_nipa.cfm).

- Brainard, William. 1967. "Uncertainty and the Effectiveness of Monetary Policy." American Economic Review 57, no. 2: 411–25.
- DOE (U.S. Department of Energy). 2012a. "Electricity Delivery and Energy Reliability Smart Grid Investment Grant Program, Progress Report." July.
- _____. 2012b. "2011 Wind Technologies Market Report." August (http://www1.eere.energy.gov/wind/pdfs/2011_wind_technologies_market_report.pdf).
- EIA (U.S. Energy Information Administration). 2005. "Annual Energy Outlook." February. (http://www.eia.gov/forecasts/archive/aeo05/pdf/0383(2005).pdf)
- _____. 2012a. "Annual Energy Review 2011." September. (http://www.eia. gov/totalenergy/data/annual/pdf/aer.pdf).
- _____. 2012b. "Annual Energy Outlook 2013: Early Release Overview." December. (http://www.eia.gov/forecasts/aeo/er/index.cfm).
- _____. 2012c. International Energy Statistics. (http://www.eia.gov/cfapps/ipdbproject/IEDIndex3.cfm#).
- _____. 2013a. "Monthly Energy Review January 2013" (http://www.eia.gov/totalenergy/data/monthly/pdf/mer.pdf).
- _____. 2013b. "Electric Power Monthly December 2012" (http://www.eia. gov/electricity/monthly/pdf/epm.pdf).
- EPA (U.S. Environmental Protection Agency). 2010a. "Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2010." April (http://www.epa.gov/climatechange/ghgemissions/usinventoryreport.html).
- _____. 2010b. "Final Rulemaking to Establish Light-Duty Vehicle Greenhouse Gas Emission Standards and Corporate Average Fuel Economy Standards." April (http://www.epa.gov/otaq/climate/regulations/420r10009.pdf).
- Funke, Michael, and Michael Paetz. 2011. "Environmental Policy Under Model Uncertainty: A Robust Optimal Control Approach." *Climatic Change* 107, no. 3: 225–39.
- Giannoni, Marc P. 2002. "Does Model Uncertainty Justify Caution? Robust Optimal Monetary Policy in a Forward-Looking Model." *Macroeconomic Dynamics* 6, no. 1: 111–44.
- Gillingham, Kenneth, et al. 2013. "The Rebound Effect Is Overplayed." *Nature* 493: 475–76. January.

- Greening, Lorna A., David L. Greene, and Carmen Difiglio. 2000. "Energy Efficiency and Consumption—The Rebound Effect—A Survey." Energy Policy 28, no. 6-7: 389-401.
- Greenstone, Michael, Elizabeth Kopits, and Ann Wolverton. 2013. "Developing a Social Cost of Carbon for US Regulatory Analysis: A Methodology and Interpretation." Review of Environmental Economics and Policy 7, no. 1: 23-46.
- Hansen, James, Makiko Sato, and Reto Ruedy. 2012. "Perception of Climate Change." Proceedings of the National Academy of Sciences 109, no. 37: 14726-7.
- Hansen, Lars P., and Thomas J. Sargent. 2001. "Robust Control and Model Uncertainty." American Economic Review 91, no. 2: 60-66.
- _____. 2007. "Robustness". Princeton University Press.
- Helper, Susan, Timothy Krueger, and Howard Wial. 2012. "Why Does Manufacturing Matter? Which Manufacturing Matters? A Policy Framework." Brookings Metropolitan Policy Program. Washington, DC: Brookings Institution.
- Houser, Trevon, and Shashank Mohan. Forthcoming. "Fueling Up: The Economic and Environmental Implications of the American Oil and Gas Boom." Washington, DC: Peterson Institute for International Economics.
- IPCC (Intergovernmental Panel on Climate Change). 2007. "Contribution of Working Groups I, II, and III to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change," edited by R. K. Pauchari and A. Reisinger. Geneva.
- 2012. "Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation." In Special Report of the Intergovernmental Panel on Climate Change, edited by C. Field et al. Cambridge University Press.
- Kossin, J. P., et al. 2007. "A Globally Consistent Reanalysis of Hurricane Variability and Trends." Geophysical Research Letters 34.
- Logan, Jeffrey, et al. 2012. "Natural Gas and the Transformation of the U.S. Energy Sector: Electricity." NREL/TP-6A50-55538. Golden, CO: National Renewable Energy Laboratory for the Joint Institute for Strategic Energy Analysis.
- Mendelsohn, Robert, Kerry Emanuel, Shun Chonabayashi and Laura Bakkensen. 2012. "The Impact of Climate Change on Global

- Tropical Cyclone Damage." *Nature Climate Change* 2: 205-209 (doi:10.1038/nclimate1357).
- Munich Reinsurance Company. 2012. "Costliest Natural Disasters: Insured Loses." NatCat Service (http://www.munichre.com/en/reinsurance/business/non-life/georisks/natcatservice/significant_natural_catastrophes.aspx).
- Narita, Daiju, Richard S.J. Tol, and David Anthoff. 2009. "Damage Cost of Climate Change through Intensification of Tropical Cyclone Activities: An Application of FUND." *Climate Research* 39: 87-97.
- NOAA (National Oceanic and Atmospheric Administration). 2012. "Global Sea Level Rise Scenarios for the United States National Climate Assessment." NOAA Tech Memo OAR CPO.
- Nordhaus, William. 2010. "Economic Aspects of Global Warming in a Post-Copenhagen Environment." Yale University.
- Onatski, Alexei, and James H. Stock. 2002. "Robust Monetary Policy Under Model Uncertainty in a Small Model of the U.S. Economy." *Macroeconomic Dynamics* 6, no. 1: 85–110.
- Pielke, Roger A. 2007. "Future Economic Damage from Tropical Cyclones: Sensitivities to Societal and Climate Change." *Philosophical Transactions of the Royal Society*. doi:10.1098/rsta.2007.2086.
- Rhines, A., and P. Huybers. 2013. "Frequent Summer Temperature Extremes Reflect Changes in the Mean, Not the Variance." *Proceedings of the National Academy of Sciences110, no.7: E546.* doi:10.1073/pnas.1218748110.
- Roe, Gerald H., and Marcia B. Baker. 2007. "Why Is Climate Sensitivity So Unpredictable?" *Science* 318: 629–32.
- Rohling, E. J., et al. 2012. "Making Sense of Palaeoclimate Sensitivity." *Nature* 491: 683–91.
- Small, Kenneth A., and Kurt Van Dender. 2007. "Fuel Efficiency and Motor Vehicle Travel: The Declining Rebound Effect." Energy Journal 28, no. 1: 25–51.
- Stern, Nicholas. 2006. *The Stern Review: The Economic Effects of Climate Change.* Cambridge University Press.
- USGCRP (United States Global Change Research Program). 2009. *Global Climate Change Impacts in the United States*, edited by Thomas R. Karl, Jerry M. Melillo, and Thomas C. Peterson. Cambridge University Press.

- Weitzman, Martin L. 2009. "On Modeling and Interpreting the Economics of Catastrophic Climate Change." *Review of Economics and Statistics* 91, no. 1: 1–19.
- _____. 2011. "Fat-Tailed Uncertainty in the Economics of Catastrophic Climate Change." *Review of Environmental Economics and Policy* 5, no. 2: 275–92.
- White House. 2010. "Technical Support Document: Social Cost of Carbon for Regulatory Impact Analysis Under Executive Order 12866." February (http://www.whitehouse.gov/sites/default/files/omb/inforeg/for-agencies/Social-Cost-of-Carbon-for-RIA.pdf).
- _____. 2011a. "Driving Efficiency: Cutting Costs for Families at the Pump and Slashing Dependence on Oil." July (http://whitehouse.gov/sites/default/files/fuel_economy_report.pdf).
- _____. 2011b. "A Policy Framework for the 21st Century Grid: Enabling Our Secure Energy Future." June. (http://www.whitehouse.gov/sites/default/files/microsites/ostp/nstc-smart-grid-june2011.pdf).

CHAPTER 7

INTERNATIONAL TRADE AND COMPETITIVENESS

- Amiti, Mary, and Shang-Jin Wei. 2009. "Service Offshoring and Productivity: Evidence from the US." *World Economy* 20, no. 42: 203–20.
- Autor, David. H., David Dorn, and Gordon H. Hanson. Forthcoming. "The China Syndrome: Local Labor Market Effects of Import Competition in the United States." *American Economic Review*.
- Bartel, Ann, Casey Ichniowski, and Kathryn Shaw. 2007. "How Does Information Technology Really Affect Productivity? Plant-Level Comparisons of Product Innovation, Process Improvement and Worker Skills." *Quarterly Journal of Economics* 122, no. 4: 1721–58.
- Bernanke, Ben S. 2005. "The Global Saving Glut and the U.S. Current Account Deficit." Sandridge Lecture, Virginia Association of Economists. March.
- Bernard, Andrew B., J. Bradford Jensen, and Peter K. Schott. 2006. "Trade Costs, Firms and Productivity." *Journal of Monetary Economics* 53, no. 5: 917–37.
- Borchert, Ingo, Batshur Gootiiz, and Aaditya Mattoo. 2012. "Policy Barriers to International Trade in Services: Evidence from a New Database."

- Policy Research Working Paper 6109. Washington, DC: World Bank.
- Boston Consulting Group. 2012. "Rising U.S. Exports—Plus Reshoring—Could Help Create up to 5 Million Jobs by 2020." Boston. September.
- Bosworth, Barry P., and Jack E. Triplett. 2007. "The Early 21st Century U.S. Productivity Expansion Is Still in Services." *International Productivity Monitor* 14: 3–19.
- Branstetter, Lee. 2001. "Are Knowledge Spillovers International or International in Scope? Microeconometric Evidence from Japan and the United States." *Journal of International Economics* 53: 53-79.
- Ceglowski, Janet, and Stephen S. Golub. 2012. "Does China Still Have a Labor Cost Advantage?" *Global Economy Journal* 12, no 3.
- Chirinko, Robert S., and Daniel J. Wilson. 2008. "State Investment Tax Incentives: A Zero-Sum Game?" *Journal of Public Economics* 92, no. 12: 2362–84.
- Davidson, Adam. 2013. "Workers of the World, Sit Tight." *New York Times*. January 29.
- ESA (Economics and Statistics Administration). 2012. *The Benefits of Manufacturing Jobs*. Department of Commerce.
- Ferreira, John and Mike Heilala. 2011. "Manufacturing's Secret Shift: Gaining Competitive Advantage by Getting Closer to the Customer." Acenture. (http://www.accenture.com/sitecollectiondocuments/PDF/Accenture_Manufacturings_Secret_Shift.pdf).
- Greenstone, Michael, Richard Hornbeck, and Enrico Moretti. 2010. "Identifying Agglomeration Spillovers: Evidence from Million Dollar Plants." *Journal of Political Economy* 118, no. 3: 536–98.
- Hackel, Karee. 2011. "Returning from China." *The SRQ Business Journal*: 6-7. October.
- Helper, Susan, Timothy Krueger, and Howard Wial. 2012. "Why Does Manufacturing Matter? Which Manufacturing Matters? A Policy Framework." Washington, DC: Brookings Institution.
- Houseman, Susan, et al. 2011. "Offshoring Bias in U.S. Manufacturing." *Journal of Economic Perspectives* 25, no. 2: 111–32.
- Hubbard, Thomas N. 2003. "Information, Decisions, and Productivity: On-Board Computers and Capacity Utilization in Trucking." *American Economic Review* 93, no. 4: 1328–53.

- Hufbauer, Gary Clyde, Jeffery J. Schott, and Woan Foong Wong. 2010. Figuring Out the Doha Round. Washington, DC: Peterson Institute for International Economics.
- IMF (International Monetary Fund). 2012. "Coping with High Debt and Sluggish Growth." *World Economic Outlook: October 2012.* Washington, DC.
- Inch, John, and Neil Dutta. 2012. *U.S. Manufacturing Renaissance*. New York: Bank of America Merrill Lynch. March.
- Jaffe, Adam B. 1989. "Real Effects of Academic Research." *American Economic Review* 79, no. 5: 957–70.
- Jensen, J. Bernard. 2009. "Globalization and Business Services: A Growth Opportunity?" Washington, DC: Georgetown University McDonough School of Business.
- _____. 2011. "Global Trade in Services: Fear, Facts, and Offshoring." Washington, DC: Peterson Institute for International Economics.
- Johnson, Bradford C. 2002. "Retail: The Walmart Effect." *McKinsey Quarterly*. February.
- Johnson, Robert C., and Guillermo Noguera. 2012. "Fragmentation and Trade in Value Added over Four Decades." Working Paper 18186. Cambridge, MA: National Bureau for Economic Research.
- Koerner, Brendan I. 2011. "Made in America: Small Businesses Buck the Offshoring Trend." *Wired*. February 28.
- Koopman, Robert, et al. 2010. "Give Credit Where Credit Is Due: Tracing Value Added in Global Production Chains." Working Paper 16426. Cambridge, MA: National Bureau for Economic Research.
- Levy, Frank, and Richard J. Murnane. 2005. *The New Division of Labor: How Computers Are Creating the Next Job Market*. Princeton University Press.
- Lileeva, Alla, and Daniel Trefler. 2010. "Improved Access to Foreign Markets Raises Plant-Level Productivity. . . For Some Plants." *Quarterly Journal of Economics* 125, no. 3: 1051–99.
- Marshall, Alfred. 1890. *Principles of Economics*. New York: Macmillan and Company.
- Moretti, Enrico. 2012. *The New Geography of Jobs*. New York: Houghton Mifflin Harcourt.

- Obstfeld, Maurice. 2012. "Does the Current Account Still Matter?" *American Economic Review* 102: 1–24.
- OECD (Organisation for Economic Co-operation and Development). 2013. "Measuring Trade in Value-Added: An OECD-WTO Joint Initiative" (http://www.oecd.org/industry/industryandglobalisation/measuringtradeinvalue-addedanoecd-wtojointinitiative.htm).
- Pierce, Justin. 2011. "Plant-level Responses to Antidumping Duties: Evidence from U.S. Manufacturers." *Journal of International Economics* 85, no. 2: 222–33.
- Pierce, Justin, and Peter K. Schott. 2012. "The Surprisingly Swift Decline of U.S. Manufacturing Employment." Working Paper 18655. Cambridge, MA: National Bureau for Economic Research.
- Pisano, Gregory P., and Willy C. Shih. 2012. *Producing Prosperity: Why America Needs a Manufacturing Renaissance*. Boston: Harvard Business Review Press.
- Prasso, Sheridan. 2011. "Why We Left Our Factories in China." *CNN Money*. June 29.
- Reinhart, Carmen M., and Kenneth S. Rogoff. 2011. "From Financial Crash to Debt Crisis." *American Economic Review* 101, no. 5: 1676–706.
- Rosenthal, Stuart S., and William C. Strange. 2003. "Geography, Industrial Organization, and Agglomeration." *Review of Economics and Statistics* 85, no. 2: 377–93.
- Simchi-Levi, David, James Paul Peruvankal, Narendra Mulani, and John Ferreira. 2011. "Made in America: Rethinking the Future of U.S. Manufacturing." Accenture. (http://www.accenture.com/SiteCollectionDocuments/PDF/Accenture-Made-in-America.pdf).
- Story, Louise. 2012. "As Companies Seek Tax Deals, Governments Pay High Price." *New York Times*, December 1.
- Wailgum, Thomas. 2007. "How Wal-Mart Lost Its Technology Edge." *CIO*. October 4.
- Wan, William. 2013. "China's Economic Data Draw Sharp Scrutiny from Experts Analyzing Global Trends." *Washington Post*, February 4.
- Weil, David. 2011. "Enforcing Labor Standards in Fissured Workplaces: The US Experience." *The Economic and Labor Relations Review* 22, 2: 33-54
- Zhu, Kevin. 2004. "The Complementarity of Information Technology Infrastructure and E-Commerce Capability: A Resource-Based

Assessment of Their Business Value." *Journal of Management Systems* 21, no.1: 167-202.

CHAPTER 8

CHALLENGES AND OPPORTUNITIES IN U.S. AGRICULTURE

- Alston, Julian M., et al. 2009. *Persistence Pays: U.S. Agricultural Productivity Growth and the Benefits from Public R&D Spending.* Natural Resource Management and Policy Series, vol. 34. Springer: New York. (http://www.card.iastate.edu/publications/synopsis.aspx?id=1155).
- Calvin, Linda, and Philip Martin. 2010. "The U.S. Produce Industry and Labor: Facing the Future in a Global Economy." *Economic Research Report 106*. U.S. Department of Agriculture, Economic Research Service (http://www.ers.usda.gov/publications/err-economic-research-report/err106.aspx).
- CBO (Congressional Budget Office). 2012. "Cost Estimate: S. 3240 Agriculture Reform, Food, and Jobs Act of 2012." May (http://www.cbo.gov/sites/default/files/cbofiles/attachments/s3240.pdf).
- Dimitri, Carolyn, and Lydia Oberholtzer. 2009. "Marketing U.S. Organic Foods: Recent Trends from Farms to Consumers." *Economic Information Bulletin 58*. U.S. Department of Agriculture, Economic Research Service (http://www.ers.usda.gov/media/185272/eib58_1_. pdf).
- Durst, Ron. 2009. "Federal Estate Taxes Affecting Fewer Farmers But the Future Is Uncertain." *Amber Waves*. U.S. Department of Agriculture, Economic Research Service (http://webarchives.cdlib.org/sw1tx36512/http://www.ers.usda.gov/AmberWaves/June09/Features/FederalEstateTax.htm#special).
- Evenson, Robert E. 1988. "Research, Extension, and U.S. Agricultural Productivity: A Statistical Decomposition Analysis." *Agricultural Productivity: Measurement and Explanation*, edited by Susan M. Capalbo and John M. Antle. Johns Hopkins University Press for Resources for the Future.
- Fuglie, Keith O., and Paul W. Heisey. 2007. "Economic Returns to Public Agricultural Research." *Economic Brief 10*. U.S. Department of Agriculture, Economic Research Service (http://www.ers.usda.gov/media/195594/eb10_1_.pdf).

- Greene, C., et al. 2009. "Emerging Issues in the U.S. Organic Industry." *Economic Information Bulletin* 55. U.S. Dept. of Agriculture, Economic Research Service (http://www.ers.usda.gov/media/452867/eib55fm_1_.pdf).
- Griliches, Zvi. 1998. "Introduction to 'R&D: The Econometric Evidence." *R&D and Productivity: The Econometric Evidence.* University of Chicago Press for the National Bureau of Economic Research (http://www.nber.org/chapters/c8339.pdf).
- Hoppe, Robert A., James M. MacDonald, and Penni Korb. 2010. "Small Farms in the United States: Persistence Under Pressure." *Economic Information Bulletin 63*. U.S. Department of Agriculture, Economic Research Service (http://www.ers.usda.gov/media/147007/eib63_1_. pdf).
- Interior (U.S. Department of the Interior). 2012. "National Travel and Tourism Strategy." Task Force on Travel and Competiveness (http://www.doi.gov/news/pressreleases/upload/NT-TS_final051512.pdf).
- Jacobson, Darien, Brian Raub, and Barry Johnson. 2012. "The Estate Tax: Ninety Years and Counting." *Compendium of Federal Estate and Personal Wealth Studies, Volume II.* Internal Revenue Service, Statistics of Income (http://www.irs.gov/uac/SOI-Tax-Stats-Compendium-of-Federal-Estate-Tax-and-Personal-Wealth-Studies,-Volume-2).
- Key, Nigel, and William McBride. 2007. "The Changing Economics of U.S. Hog Production." *Economic Research Report 52.* U.S. Department of Agriculture, Economic Research Service (http://www.ers.usda.gov/media/244843/err52.pdf).
- Kharas, Homi. 2010. "The Emerging Middle Class in Developing Countries." Working Paper 185. Paris: OECD Development Center (http://www.oecd.org/dev/44457738.pdf).
- Kremen, Amy, Catherine Greene, and Jim Hanson. 2004. "Organic Produce, Price Premiums, and Eco-Labeling in U.S. Farmers' Markets." *Outlook.* VGS-301-01. U.S. Department of Agriculture, Economic Research Service (http://www.ers.usda.gov/media/269468/vgs30101_1_.pdf).
- Low, Sarah A., and Stephen Vogel. 2011. "Direct and Intermediated Marketing of Local Foods in the United States." *Economic Research Report 128*. U.S. Department of Agriculture, Economic Research Service (http://www.ers.usda.gov/publications/err-economic-research-report/err128.aspx).

- MacDonald, James M., and Penni Korb. 2011. "Agricultural Contracting Update: Contracts in 2008." *Economic Information Bulletin 72*. U.S. Department of Agriculture, Economic Research Service (http://www.ers.usda.gov/media/104365/eib72.pdf).
- Osteen, Craig, Jessica Gottlieb, and Utpal Vasavade eds. 2012. "Agricultural Resources and Environmental Indicators, 2012 Edition." *Economic Information Bulletin No* 98 (http://www.ers.usda.gov/media/874175/eib98.pdf).
- Outdoor Industry Association. 2012. *The Outdoor Recreation Economy*. Boulder, CO (http://www.outdoorindustry.org/images/research-files/OIA_OutdoorRecEconomyReport2012.pdf?167)
- Pardey, Philip G. and Julian M. Alston. 2011. "For Want of a Nail: The Case for Increased Agricultural R&D Spending." Washington, DC: American Enterprise Institute (http://www.aei.org/files/2011/11/04/-for-want-of-a-nail-the-case-for-increased-agricultural-rd-spending_152830448674.pdf).
- Ribaudo, M., et al. 2008. "The Use of Markets to Increase Private Investment in Environmental Stewardship." *Economic Research Report 64*, U.S. Department of Agriculture, Economic Research Service (http://www.ers.USDA.gov/publications/err-economic-research-report/err64.aspx).
- Ribaudo, M., et al. 2012. "Nitrogen Management on U.S. Corn Acres, 2001–2010." *Economic Brief No 20* (http://www.ers.usda.gov/media/947769/eb20.pdf). (http://hsus.cambridge.org/HSUSWeb/search/searchTable.do?id=Ba652-669).
- UN (United Nations). 2011. "World Population Prospects: The 2010 Revision, CD-ROM Edition." Department of Economic and Social Affairs, Populations Division (http://esa.un.org/wpp/).
- _____. 2012a. "World Urbanization Prospects: The 2011 Revision, CD-ROM Edition." Department of Economic and Social Affairs, Populations Division (http://esa.un.org/unup/).
- _____. 2012b. "Population Distribution, Urbanization, Internal Migration and Development: An International Perspective." Department of Economic and Social Affairs.
- USDA. 2001. Agricultural Resource Management Survey. Economic Research Service (http://www.ers.usda.gov/data-products/arms-farm-financial-and-crop-production-practices/tailored-reports. aspx).

- . 2010. Agricultural Resource Management Survey. Economic Research Service (http://www.ers.usda.gov/data-products/arms-farm-financial-and-crop-production-practices/tailored-reports.aspx). . 2011. Agricultural Resource Management Survey. Economic Research Service (http://www.ers.usda.gov/data-products/arms-farm-financial-and-crop-production-practices/tailored-reports.aspx). _____. 2012a. "USDA Accomplishments 2009-2012: Organic Agriculture." (usda.gov/documents/Results-Organic-Agriculture.pdf). . 2012b. "USDA Accomplishments 2009-2012: Trade." (http://www. usda.gov/documents/Results-Trade.pdf) . 2013a. "U.S. and State Farm Income and Wealth Statistics." Economic Research Service. _____. 2013b. "Summary of Business Report for 2010 thru 2013." Federal Crop Insurance Corp (http://www3.rma.usda.gov/apps/sob/ current_week/sobrpt2010-2013.pdf). ____. 2013c. "Food Expenditures." Economic Research Service (http:// www.ers.usda.gov/data-products/food-expenditures.aspx).
- Wainio, John, Mark Gehlhar, and John Dyck. 2011. "Selected Trade Agreements and Implications for U.S. Agriculture." Economic Research Report 115. U.S. Department of Agriculture, Economic Research Service (http://www.ers.usda.gov/media/128130/err115.pdf).
- Walthall, C.L., et al. 2012. "Climate Change and Agriculture in the United States: Effects and Adaptation." U.S. Department of Agriculture Technical Bulletin No 1935 (http://www.usda.gov/oce/climate_ change/effects_2012/CC%20and%20Agriculture%20Report%20 (02-04-2013)b.pdf).
- Zahniser, Steven, et al. 2012. "The Potential Impact of Changes in Immigration Policy on U.S. Agriculture and the Market for Hired Farm Labor: A Simulation Analysis." Economic Research Report 135. U.S. Department of Agriculture, Economic Research Service (http:// www.ers.usda.gov/publications/err-economic-research-report/ err135.aspx).

A P P E N D I X A

REPORT TO THE PRESIDENT ON THE ACTIVITIES OF THE COUNCIL OF ECONOMIC ADVISERS DURING 2012

LETTER OF TRANSMITTAL

COUNCIL OF ECONOMIC ADVISERS Washington, D.C., December 31, 2012

Mr. President:

The Council of Economic Advisers submits this report on its activities during calendar year 2012 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 yours,

Alan B. Krueger, Chairman Katharine G. Abraham, Member James H. Stock, 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
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

COUNCIL MEMBERS AND THEIR DATES OF SERVICE

Name	Position	Oath of office date	Separation date
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) diffe 3, 2003
Traire y of Robert	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	January 20, 2009
Donald B. Marron	Member	July 17, 2008	January 20, 2009
Christina D. Romer	Chair	January 29, 2009	September 3, 2010
Austan D. Goolsbee	Member	March 11, 2009	5cptciliber 5, 2010
Tradian D. Gooldocc	Chairman	September 10, 2010	August 5, 2011
Cecilia Elena Rouse	Member	March 11, 2009	February 28, 2011
Katharine G. Abraham	Member	April 19, 2011	1 001 uai y 20, 2011
Carl Shapiro	Member	April 19, 2011 April 19, 2011	May 4, 2012
Alan B. Krueger	Chairman	November 7, 2011	1v1ay 7, 2012
James H. Stock	Member	February 7, 2013	
James 11. Stock	ivieilinei	1 euruary /, 2015	

REPORT TO THE PRESIDENT ON THE ACTIVITIES OF THE COUNCIL OF ECONOMIC ADVISERS **DURING 2012**

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 Council is governed by a Chairman and two Members. The Chairman is appointed by the President and confirmed by the United States Senate. The Members are appointed by the President.

THE CHAIRMAN OF THE COUNCIL

Alan B. Krueger continued to chair the Council during 2012. Dr. Krueger is on a leave of absence from Princeton University, where he is the Bendheim Professor of Economics and Public Affairs. He served as Assistant Secretary for Economic Policy at the Treasury Department from 2009 to 2010.

Chairman Krueger is a member of the President's Cabinet and is responsible for communicating the Council's views on economic matters directly to the President through personal discussions and written reports. Chairman Krueger represents the Council at Presidential economic briefings, daily White House senior staff meetings, budget meetings, Cabinet meetings, a variety of inter-agency meetings, and other formal and informal meetings with the President, the Vice President, and other senior government officials. He also meets with members of Congress well as with business, academic and labor leaders to discuss economic policy issues.

THE MEMBERS OF THE COUNCIL

Katharine G. Abraham is a Member of the Council of Economic Advisers. She is on a leave of absence from the University of Maryland, where she is a faculty associate in the Maryland Population Research Center and a professor in the Joint Program in Survey Methodology. Dr. Abraham served as the Commissioner of the Bureau of Labor Statistics from 1993 to 2001.

James H. Stock was appointed by the President on February 7, 2013. He served as Chief Economist of the Council of Economic Advisers from September 12, 2012 until then. Dr. Stock is on leave from Harvard University, where he is the Harold Hitchings Burbank Professor of Political Economy. Dr. Stock served as the Chair of the Harvard University Department of Economics from 2006 to 2009.

Carl Shapiro resigned as Member of the Council on May 4, 2012 to return to the University of California, where he is the Transamerica Professor of Business Strategy at the Haas School of Business.

AREAS OF ACTIVITIES

A central function of the Council is to advise the President on all economic issues and developments. In the past year, as in the three previous years, advising the President on policies to spur economic growth and job creation, and evaluating the effects of the policies on the economy, have been a priority.

The Council works closely with various government agencies, including the National Economic Council, the Office of Management and Budget, White House senior staff, and other officials and engages in discussions on numerous policy matters. In the area of international economic policy, the Council coordinates with other units of the White House, the Treasury Department, the State Department, the Commerce Department, and the Federal Reserve on matters related to the global financial system.

Among the specific economic policy areas that received attention in 2012 were: housing policies, including foreclosure mitigation and prevention and refinancing; implementation of the Affordable Care Act; income inequality; individual and corporate taxation; college affordability; small business lending; regional development; intellectual property and innovation; infrastructure investment; regulatory measures; trade policies; unemployment insurance; job training; and policies to promote the international competitiveness of American manufacturing companies. The Council also worked on several issues related to the quality of the data available for assessing economic conditions.

The Council prepares for the President, the Vice President, and the White House senior staff a daily economic briefing memo analyzing current economic developments, and almost-daily memos on key economic data releases. Chairman Krueger has also presented regular monthly briefings on the state of the economy to senior White House officials.

The Council, the Department of 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 initiates the forecasting process twice each year, consulting with a wide variety of outside sources, including leading private sector forecasters and other government agencies.

The Council was an active participant in the trade policy process, participating in the Trade Policy Staff Committee and the Trade Policy Review Group. The Council provided analysis and opinions on a range of trade-related issues involving the enforcement of existing trade agreements, reviews of current U.S. trade policies, and consideration of future policies. The Council also participated on the Trade Promotion Coordinating Committee, helping to examine the ways in which exports may support economic growth in the years to come. In the area of investment and security, the Council participated on the Committee on Foreign Investment in the United States (CFIUS), reviewing individual cases before the committee.

Council Members and staff regularly met with economists, policy officials, and government officials from other countries to discuss issues relating to the global economy. The Council's role also included policy development and planning for the G-20 Summit in Saint Petersburg, Russia, and the G-8 Summit in Northern Ireland.

The Council is a leading participant in the Organisation for Economic Co-operation and Development (OECD), an important forum for economic cooperation among high-income industrial economies. The Council coordinated and oversaw the OECD's review of the U.S. economy. Dr. Krueger is chairman of the OECD's Economic Policy Committee, and Council Members and staff participate actively in working-party meetings on macroeconomic policy and coordination and contribute to the OECD's research agenda.

The Council issued a series of reports in 2012. In February, the Council released two reports: Supporting Retirement for American Families and The Economic Benefits of New Spectrum for Wireless Broadband. In May, the Council led the preparation of a White House report on the labor market situation of America's veterans. In June, the Council was a primary contributor to a White House report on job creation in rural communities. In November, the Council led the preparation of a White House report on the impact of tax cuts on the middle class and the subsequent effect on consumer spending and retailers. The Council continued its efforts to improve the public's understanding of economic developments and of the Administration's economic policies through briefings with the economic and financial press, speeches, discussions with outside economists, presentations to outside organizations, and regular updates on major data releases on the CEA blog. The Chairman and Members also regularly met to exchange views on the economy with the Chairman and Members of the Board of Governors of the Federal Reserve System.

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.gpo.gov/erp.

The Council prepared numerous reports in 2012, and the Chairman and Members gave numerous public speeches. The reports and texts of speeches are available at the Council's website, www.whitehouse.gov/cea. Finally, the Council published the monthly *Economic Indicators*, which is available on-line at www.gpo.gov/economicindicators.

THE STAFF OF THE COUNCIL OF ECONOMIC ADVISERS

The staff of the Council consists of the senior staff, senior economists, economists, staff economists, research economists, a research assistant, and the administrative and support staff. The staff at the end of 2012 was:

Senior Staff

David P. Vandivier	Chief of Staff
Petra Smeltzer Starke	General Counsel
Steven N. Braun	Director of Macroeconomic Forecasting
Adrienne Pilot	Director of Statistical Office
Archana Snyder	Director of Finance and Administration

Senior Economists

Bevin Ashenmiller	Environment, Energy
Benjamin H. Harris	Tax, Budget
Susan Helper	Manufacturing, Innovation, Small Business
Chinhui Juhn	Labor
Paul Lengermann	Macroeconomics
Emily Y. Lin	Tax, Budget

Rodney D. Ludema	International
James M. Williamson	Agriculture, Transportation, Tax

Wesley Yin Health, Housing

Economist

David Cho..... Macroeconomics

Staff Economists

Ben Meiselman..... Macroeconomics, Public Finance

Nicholas Tilipman Labor, Health, Immigration

Lee Tucker..... Labor, Immigration, Housing

Jeffery Y. Zhang Energy, Environment, Macroeconomics

Research Economists

Matthew I Aks	 Macroeconomics	International
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Carys Golesworthy..... International, Trade

Dina Grossman..... Labor, Health, Immigration

Cordaye T. Ogletree. Energy, Environment, International

Trade

Spencer Smith...... Public Finance, Energy, Environment

Rudy Telles Jr Agriculture, Tax

Research Assistant

Philip K. Lambrakos Macroeconomics, International

Statistical Office

The Statistical Office gathers, administers, and produces statistical information for the Council. Duties include preparing the statistical appendix to the *Economic Report of the President* and the monthly publication *Economic Indicators.* The staff also creates background materials for economic analysis and verifies statistical content in Presidential memoranda. The Office serves as the Council's liaison to the statistical community.

Brian A. Amorosi	Statistical Analyst
Sarah Murray	Economic Statistician

Office of the Chairman

Michael P. Bourgeois	Special Assistant to the Chairman
Emily C. Berret	Special Assistant to the Members
Natasha S. Lawrence	. Staff Assistant

Administrative Office

The Administrative Office provides general support for the Council's activities. This includes financial management, human resource management, travel, operations of facilities, security, information technology, and telecommunications management support.

Doris T. Searles	. Administrative and Information
	Management Specialist
Thomas F. Hunt	. Staff Assistant

Interns

Student interns provide invaluable help with research projects, day- to-day operations, and fact-checking. Interns during the year were: Norm Dannen, Laura Du, Shawn Du, Conor Foley, Scott Freitag, Rebecca Freidman, Isaac Green, Sonya Huang, Christopher Kilgore, Zachary Kleinbart, Amaze Lusompa, Nathan Mayo, John McDonough, Joel Moore, Yolanda Ngo, Robert Owens, Scott Pippin, Katharine Rodihan, Charles Rubenfeld, Rebecca Sachs, Zachary Silvis, Craig Smyser, Michael Sullivan, David Wasser, William Weber, Derek Wu, and Barr Yaron.

DEPARTURES IN 2012

Judith K. Hellerstein left her position as Chief Economist of the Council in May, and she has returned to her position as Professor of Economics at the University of Maryland, College Park.

The senior economists who resigned in 2012 (with the institutions to which they returned after leaving the Council in parentheses) were: Gene Amromin (Federal Reserve Bank of Chicago), Lee G. Branstetter (Carnegie Mellon University, Heinz College), Thomas C. Buchmueller (University of Michigan, Ross School of Business), Lisa D. Cook (Michigan State University), Robert Johansson (U.S. Department of Agriculture), Craig T. Peters (Department of Justice), Charles R. Pierret (U.S. Bureau of Labor Statistics), and Daniel J. Vine (Federal Reserve Board).

The economist who departed in 2012 was Reid Stevens (UC, Berkeley). Reid served the CEA for more than two and a half years and was the first recipient of the Robert M. Solow Award for Distinguished Service.

The staff economists who departed in 2012 were Jeffrey Borowitz, Colleen M. Carey, Judd N.L. Cramer, and Edward Zhong.

The research economists who departed in 2012 at the were Julia H. Yoo and Pedro Spivakovsky-Gonzalez.

The research assistants who departed in 2012 were Sandra M. Levy, Carter Mundell and Seth H. Werfel.

Andres Bustamante resigned from his position as Special Assistant to the Chairman and Staff Economist to pursue other endeavors. Paige Shevlin resigned from her position as Special Assistant to the Chairman. Sharon Thomas resigned from her position as Administrative Support Assistant, after serving in the Federal Government for over 25 years. Lindsay M. Kuberka completed her detail as a statistical analyst and returned to the Census Bureau.

A P P E N D I X 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 (2005) 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 1995, 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 January 30, 2013 with two exceptions. Current employment statistics (CES) estimates from the Department of Labor (Bureau of Labor Statistics) include revisions released February 1, 2013, and national income and product account (NIPA) estimates from the Department of Commerce (Bureau of Economic Analysis) incorporate revisions released on February 28, 2013.

NATIONAL INCOME OR EXPENDITURE

Table B-1. Gross domestic product, 1964-2012

[Billions of dollars, except as noted; quarterly data at seasonally adjusted annual rates]

		Personal co	nsumption ex	penditures			Gross priva	ate domestic	investment		
	0						Fi	xed investme	nt		
Year or quarter	Gross domestic product	Tatal	0	0	Takal		١	Vonresidentia	il		Change in
	product	Total	Goods	Services	Total	Total	Total	Structures	Equip- ment and software	Resi- dential	private inven- tories
1964 1965 1966 1967 1968 1969	663.6 719.1 787.7 832.4 909.8 984.4 1,038.3	411.5 443.8 480.9 507.8 558.0 605.1 648.3	212.3 229.7 249.6 259.0 284.6 304.7 318.8	199.2 214.1 231.3 248.8 273.4 300.4 329.5	102.1 118.2 131.3 128.6 141.2 156.4 152.4	97.2 109.0 117.7 118.7 132.1 147.3	63.0 74.8 85.4 86.4 93.4 104.7	23.7 28.3 31.3 31.5 33.6 37.7 40.3	39.2 46.5 54.0 54.9 59.9 67.0 68.7	34.3 34.2 32.3 32.4 38.7 42.6 41.4	4.8 9.2 13.6 9.9 9.1 9.2 2.0
1971 1972 1973 1974 1975 1976 1977 1978	1,126.8 1,237.9 1,382.3 1,499.5 1,637.7 1,824.6 2,030.1 2,293.8 2,562.2	701.6 770.2 852.0 932.9 1,033.8 1,151.3 1,277.8 1,427.6 1,591.2	342.1 373.8 416.6 451.5 491.3 546.3 600.4 663.6 737.9	359.5 396.4 435.4 481.4 542.5 604.9 677.4 764.1 853.2	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
1980 1981 1982 1983 1984 1985 1986 1987 1988	2,788.1 3,126.8 3,253.2 3,534.6 3,930.9 4,217.5 4,460.1 4,736.4 5,100.4 5,482.1	1,755.8 1,939.5 2,075.5 2,288.6 2,501.1 2,717.6 2,896.7 3,097.0 3,350.1 3,594.5	799.8 869.4 899.3 973.8 1,063.7 1,137.6 1,256.3 1,337.3 1,423.8	956.0 1,070.1 1,176.2 1,314.8 1,437.4 1,580.0 1,701.1 1,840.7 2,012.7 2,170.7	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
1990 1991 1992 1993 1994 1995 1996 1997 1998	5,800.5 5,992.1 6,342.3 6,667.4 7,085.2 7,414.7 7,838.5 8,332.4 8,793.5 9,353.5	3,835.5 3,980.1 4,236.9 4,483.6 4,750.8 4,987.3 5,273.6 5,570.6 5,918.5 6,342.8	1,491.3 1,497.4 1,563.3 1,642.3 1,746.6 1,815.5 1,917.7 2,006.8 2,110.0 2,290.0	2,344.2 2,482.6 2,673.6 2,841.2 3,004.3 3,171.7 3,355.9 3,563.9 4,052.8	861.0 802.9 864.8 953.3 1,097.3 1,144.0 1,240.2 1,388.7 1,510.8 1,641.5	846.4 803.3 848.5 932.5 1,033.5 1,112.9 1,209.4 1,317.7 1,447.1 1,580.7	622.4 598.2 612.1 666.6 731.4 810.0 875.4 968.6 1,061.1 1,154.9	202.9 183.6 172.6 177.2 186.8 207.3 224.6 250.3 275.1 283.9	419.5 414.6 439.6 489.4 544.6 602.8 650.8 718.3 786.0 871.0	224.0 205.1 236.3 266.0 302.1 302.9 334.1 349.1 385.9 425.8	14.5 4 16.3 20.8 63.8 31.2 30.8 71.0 63.7 60.8
2000 2001 2002 2003 2004 2005 2006 2007 2008 2009	9,951.5 10,286.2 10,642.3 11,142.2 11,853.3 12,623.0 13,377.2 14,028.7 14,291.5 13,973.7	6,830.4 7,148.8 7,439.2 7,804.1 8,270.6 8,803.5 9,301.0 9,772.3 10,035.5 9,845.9	2,459.1 2,534.0 2,610.0 2,728.0 2,892.1 3,076.7 3,224.7 3,363.9 3,381.7 3,194.4	4,371.2 4,614.8 4,829.2 5,076.1 5,378.5 5,726.8 6,076.3 6,408.3 6,653.8 6,651.5	1,772.2 1,661.9 1,647.0 1,729.7 1,968.6 2,172.3 2,327.1 2,295.2 2,087.6 1,549.3	1,717.7 1,700.2 1,634.9 1,713.3 1,903.6 2,122.3 2,267.2 2,266.1 2,128.7 1,703.5	1,268.7 1,227.8 1,125.4 1,135.7 1,223.0 1,347.3 1,505.3 1,637.5 1,656.3 1,349.3	318.1 329.7 282.8 281.9 306.7 351.8 433.7 524.9 586.3 451.1	950.5 898.1 842.7 853.8 916.4 995.6 1,071.7 1,112.6 1,070.0 898.2	449.0 472.4 509.5 577.6 680.6 775.0 761.9 628.7 472.4 354.1	54.5 -38.3 12.0 16.4 64.9 50.0 60.0 29.1 -41.1 -154.2
2010 2011 2012 <i>P</i>	14,498.9 15,075.7 15,681.5	10,215.7 10,729.0 11,120.9	3,364.9 3,624.8 3,783.2	6,850.9 7,104.2 7,337.6	1,737.3 1,854.9 2,058.6	1,679.0 1,818.3 2,000.9	1,338.4 1,479.6 1,618.0	376.3 404.8 460.5	962.1 1,074.7 1,157.6	340.6 338.7 382.8	58.4 36.6 57.7
2009: 	13,923.4 13,885.4 13,952.2 14,133.6	9,768.4 9,763.9 9,888.8 9,962.5	3,125.5 3,142.0 3,244.4 3,265.5	6,642.9 6,621.9 6,644.4 6,697.0	1,645.8 1,495.3 1,465.6 1,590.4	1,812.5 1,698.0 1,666.1 1,637.2	1,442.9 1,356.0 1,312.9 1,285.4	530.5 467.1 421.0 385.6	912.4 888.9 891.9 899.8	369.6 342.0 353.1 351.9	-166.7 -202.7 -200.5 -46.8
2010: I II IV	14,270.3 14,413.5 14,576.0 14,735.9	10,069.1 10,148.3 10,243.6 10,401.9	3,318.2 3,321.7 3,361.0 3,458.6	6,750.9 6,826.6 6,882.6 6,943.3	1,660.4 1,724.7 1,793.3 1,770.9	1,627.2 1,683.0 1,683.8 1,721.9	1,285.8 1,325.2 1,353.8 1,388.8	362.7 376.6 377.1 389.0	923.1 948.6 976.8 999.8	341.3 357.8 330.0 333.1	33.2 41.7 109.5 49.0
2011: I II IV	14,814.9 15,003.6 15,163.2 15,321.0	10,566.3 10,684.9 10,791.2 10,873.8	3,561.4 3,604.3 3,643.6 3,690.0	7,004.9 7,080.6 7,147.6 7,183.8	1,755.9 1,819.0 1,853.8 1,991.1	1,722.3 1,784.2 1,857.8 1,909.0	1,390.8 1,448.0 1,519.4 1,560.1	362.4 397.0 421.8 438.2	1,028.4 1,051.0 1,097.6 1,122.0	331.4 336.2 338.5 348.8	33.7 34.8 -4.1 82.1
2012: V p	15,478.3 15,585.6 15,811.0 15,851.2	11,007.2 11,067.2 11,154.4 11,254.6	3,755.9 3,741.5 3,792.5 3,843.0	7,251.3 7,325.7 7,361.9 7,411.6	2,032.2 2,041.7 2,080.1 2,080.3	1,959.7 1,986.9 1,997.9 2,059.0	1,595.5 1,614.1 1,610.0 1,652.5	454.7 458.9 460.1 468.2	1,140.8 1,155.2 1,149.9 1,184.3	364.2 372.8 387.9 406.5	72.6 54.8 82.3 21.3

Table B-1. Gross domestic product, 1964-2012—Continued

[Billions of dollars, except as noted; quarterly data at seasonally adjusted annual rates]

	Ni good	et exports Is and serv	of rices	Gov	ernment c and (onsumption gross inves	n expenditu tment	ires	Final	Gross	Adden- dum:	from pr	change eceding iod
Year or quarter						Federal		State	sales of domes- tic	domes- tic pur-	Gross national	Gross	Gross domes-
	Net exports	Exports	Imports	Total	Total	National defense	Non- defense	and local	product	chases 1	prod- uct ²	domes- tic product	tic pur- chases 1
1964 1965	6.9 5.6	35.0 37.1	28.1 31.5	143.2 151.4	78.4 80.4	60.2 60.6	18.2 19.8	64.8 71.0	658.8 709.9	656.7 713.5	668.6 724.4	7.4 8.4	7.2 8.6
1966 1967	3.9 3.6 1.4	40.9 43.5	37.1 39.9	171.6 192.5	92.4 104.6	71.7 83.4	20.8 21.2 22.0	79.2 87.9	774.1 822.6	783.8 828.9	792.8 837.8	9.5 5.7	9.9 5.7
1968 1969	1.4 1.4	47.9 51.9	46.6 50.5	209.3 221.4	111.3 113.3	89.2 89.5	22.0 23.8	98.0 108.2	900.8 975.3	908.5 983.0	915.9 990.5	9.3 8.2	9.6 8.2
1970 1971	4.0 6	59.7 63.0	55.8 62.3	233.7 246.4	113.4 113.6	87.6 84.6	25.8 29.1	120.3 132.8	1,036.3 1,118.6	1,034.4 1 126.2	1,044.7 1,134.4	5.5 8.5	5.2 8.9
1972	-3.4 4.1	70.8 95.3	74.2 91.2	263.4 281.7	119.6 122.5	86.9 88.1	29.1 32.7 34.3	143.8 159.2	1,228.8 1,366.4	1,126.2 1,241.3 1,378.2	1,246.4	9.9	8.9 10.2 11.0
1974 1975	8 16.0	126.7 138.7	127.5 122.7	317.9 357.7	134.5 149.0	95.6 103.9	39.0 45.1	183.4 208.7	1,485.5 1,644.0	1,500.3 1,621.7	1,515.0 1,650.7	8.5 9.2	8.9 8.1
1976 1977	-1.6 -23.1 -25.4	149.5 159.4	151.1 182.4	383.0 414.1	159.7 175.4	111.1 120.9	48.6 54.5	223.3 238.7	1,807.5 2,007.8 2,268.0	1,826.2 2,053.2 2,319.1	1,841.4 2,050.4	11.4 11.3	12.6 12.4
1977 1978 1979	-25.4 -22.5	186.9 230.1	212.3 252.7	453.6 500.7	190.9 210.6	130.5 145.2	60.4 65.4	262.7 290.2	2,268.0 2,544.2	2,319.1 2,584.8	2,315.3 2,594.2	13.0 11.7	13.0 11.5
1980 1981 1982	-13.1 -12.5	280.8 305.2	293.8 317.8	566.1 627.5	243.7 280.2	168.0 196.2	75.8 83.9	322.4 347.3	2,794.5 3,097.0 3,268.1	2,801.2 3,139.4	2,822.3 3,159.8	8.8 12.1	8.4 12.1
	-20.0 -51.7	283.2 277.0	303.2 328.6	680.4 733.4	310.8 342.9	225.9 250.6	84.9 92.3	369.7 390.5	3,540.4	3,273.2 3,586.3	3,289.7 3,571.7	4.0 8.7	4.3 9.6
1984 1985	-102.7 -115.2	302.4 302.0	405.1 417.2	796.9 878.9	374.3 412.8	281.5 311.2	92.7 101.6	422.6 466.1	3,865.5 4,195.6	4,033.6 4,332.7	3,967.2 4,244.0	11.2 7.3	12.5 7.4
1986 1987 1988	-132.5 -145.0 -110.1	320.3 363.8 443.9	452.9 508.7 554.0	949.3 999.4 1,038.9	438.4 459.5 461.6	330.8 350.0 354.7	107.6 109.6 106.8	510.9 539.9 577.3	4,453.5 4,709.2 5,081.9	4,592.6 4,881.3 5,210.5	4,477.7 4,754.0 5,123.8	5.8 6.2 7.7	6.0 6.3 6.7
1989	-87.9	503.1	591.0	1,100.6	481.4	362.1	119.3	619.2	5,454.5	5,570.0	5,508.1	7.5	6.9
1990 1991	-77.6 -27.0 -32.8	552.1 596.6 635.0	629.7 623.5	1,181.7 1,236.1	507.5 526.6 532.9	373.9 383.1	133.6 143.4	674.2 709.5	5,786.0 5,992.5	5,878.1 6,019.1	5,835.0 6,022.0	5.8 3.3 5.8	5.5 2.4 5.9
1992	-32.6 -64.4 -92.7	655.6 720.7	667.8 720.0 813.4	1,273.5 1,294.8 1,329.8	525.0 518.6	376.8 363.0 353.8	156.1 162.0 164.8	740.6 769.8 811.2	6,326.0 6,646.5 7,021.4	6,375.1 6,731.7 7,177.9	6,371.4 6,698.5 7,109.2	5.0 5.1 6.3	5.6 6.6
1994 1995 1996	-90.7 -96.3	811.9 867.7	902.6 964.0	1,374.0 1,421.0	518.8 527.0	348.8 354.8	170.0 172.2	855.3 894.0	7,383.5 7,807.7	7,505.3 7,934.8	7,444.3 7,870.1	4.7 5.7	4.6 5.7
1997 1998	-101.4 -161.8	954.4 953.9	1,055.8 1,115.7	1,474.4 1,526.1	531.0 531.0	349.8 346.1	181.1 184.9	943.5 995.0	8,261.4 8,729.8	8,433.7 8,955.3	8,355.8 8,810.8	6.3 5.5	6.3 6.2
1999	-262.1 -382.1	989.3	1,251.4	1,631.3	554.9 576.1	361.1 371.0	193.8	1,076.3	9,292.7	9,615.6	9,381.3	6.4	7.4
2001	-371.0 -427.2	1,027.7 1,003.0	1,398.7 1,430.2	1,846.4 1,983.3	611.7 680.6	393.0 437.7	218.7 242.9	1,234.7 1,302.7	10,324.5	10,657.2 11,069.5	10,338.1 10,691.4	3.4 3.5	3.1
2002 2003 2004	-504.1 -618.7	1,041.0 1,180.2	1,545.1 1,798.9	2.112.6	756.5 824.6	497.9 550.8	258.5 273.9	1,356.1 1,408.2	11,125.8	11,646.3	11,210.9	4.7 6.4	3.9 5.2 7.1
2005 2006	-722.7 -769.3	1,305.1 1,471.0	2,027.8 2,240.3	2,232.8 2,369.9 2,518.4	876.3 931.7	589.0 624.9	287.3 306.8	1,493.6 1,586.7	12,573.0	13,345.7 14,146.5	12,720.1 13,449.6	6.5 6.0	7.0 6.0
2007 2008 2009	-713.1 -709.7	1,661.7 1,846.8	2,374.8 2,556.5	2,674.2 2,878.1	976.3 1,080.1	662.3 737.8	314.0 342.3	1,697.9 1,798.0	13,999.6 14,332.7	14,741.7 15,001.3	14,151.9 14,460.7	4.9 1.9	4.2 1.8
2009	-388.7 -511.6	1,587.4 1.844.4	1,976.2 2,356.1	2,967.2 3,057.5	1,143.6 1,223.1	776.0 817.7	367.6 405.3	1,823.6 1,834.4	14,127.9 14,440.6	14,362.4 15,010.6	14,117.2 14,708.2	-2.2 3.8	-4.3 4.5
2011 2012 P	-568.1 -560.8	2,094.2 2,182.6	2,662.3 2,743.3	3,059.8 3,062.9	1,222.1 1,214.3	820.8 809.2	401.3 405.1	1,837.7 1,848.6	15,039.0 15,623.8	15,643.7 16,242.3	15,327.5	4.0 4.0	4.2 3.8
2009: I	-385.4 -331.6	1,523.5 1,525.3	1,908.9 1,856.9	2,894.6 2,957.8	1,104.9 1,135.9	748.0 772.0	356.9 364.0	1,789.7 1,821.9	14,090.2 14,088.1	14,308.9 14,217.0	14,041.7 14,001.3	-4.4 -1.1	-9.6 -2.5
III IV	-398.6 -439.3	1,594.7 1,706.3	1,993.3 2,145.5	2,996.4 3,020.0	1,157.6 1,175.9	788.5 795.5	369.1 380.4	1,838.8 1,844.1	14,152.7 14,180.5	14,350.8 14,572.9	14,115.2 14,310.8	1.9 5.3	3.8 6.3
2010:	-490.2 -521.1	1,751.9 1,814.3	2,242.0 2,335.4	3,030.9 3,061.7	1,193.7 1,225.1	799.3 815.5	394.3 409.6	1,837.2 1,836.6	14,237.0 14,371.8	14,760.4 14,934.7	14,461.7 14,629.3	3.9 4.1	5.2 4.8
III IV	-533.1 -502.1	1,861.2 1,950.4	2,394.3 2,452.5	3,072.3 3,065.2	1,239.8 1,233.8	831.6 824.5	408.1 409.3	1,832.5 1,831.4	14,466.6 14,686.9	15,109.2 15,238.0	14,793.0 14,948.9	4.6 4.5	4.8 3.5
2011:	-555.4 -572.5	2,030.5 2,092.8	2,585.9 2,665.3	3,048.1 3,072.2	1,215.2 1,234.3	804.9 827.7	410.3 406.6	1,832.8 1,837.9	14,781.2 14,968.7	15,370.3 15,576.1	15,050.1 15,253.6	2.2 5.2	3.5 5.5
III IV	-549.5 -594.8	2,133.3 2,120.3	2,682.8 2,715.1	3,067.7 3,051.0	1,227.5 1,211.2	837.8 812.8	389.7 398.4	1,840.2 1,839.7	15,167.3 15,238.9	15,712.7 15,915.9	15,421.5 15,585.0	4.3 4.2	3.6 5.3
2012: I	-615.8 -576.9	2,157.9 2,188.5	2,773.7 2,765.4	3,054.6 3,053.7	1,207.7 1,210.7	806.4 807.8	401.3 402.9	1,846.9 1,843.0	15,405.7 15,530.8	16,094.0 16,162.5	15,693.2 15,832.9	4.2 2.8	4.6 1.7
III IV P	-516.8 -533.6	2,198.7 2,185.2	2,715.5 2,718.8	3,093.3 3,049.9	1,241.4 1,197.4	834.5 787.9	406.8 409.4	1,851.9 1,852.5	15,728.8 15,829.9	16,327.8 16,384.8	16,054.2	5.9 1.0	4.2 1.4

 $^{^1}$ 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, 1964-2012

[Billions of chained (2005) dollars, except as noted; quarterly data at seasonally adjusted annual rates]

		Personal co	nsumption e	xpenditures			Gross priva	ate domestic	investment		
	Cross						Fi	xed investme	ent		01
Year or quarter	Gross domestic product	Total	Coodo	Consisos	Total		N	Vonresidentia	al		Change in
	product	Total	Goods	Services	Total	Total	Total	Structures	Equip- ment and software	Resi- dential	private inven- tories
1964	3,389.4	2,107.5			382.1						
1965 1966	3,607.0 3.842.1	2,240.8 2.367.9			435.7 474.1						
1967	3,939.2	2,367.9 2,438.8			452.4						
1968 1969	4,129.9 4,258.2	2,579.6 2,676.2			478.7 506.6						
1970	4,266.3	2,738.9			473.4						
1971	4,409.5 4,643.8	2,843.3 3,018.1			527.3 589.8						
19/3	4,912.8	3,167.7			658.9						
1974 1975	4,885.7 4,875.4	3,141.4 3,212.6			610.3 502.2						
1976	5,136.9	3,391.5			603.7						
1977 1978	5,373.1 5,672.8	3,534.3 3,690.1			694.9 778.7						
1979	5,850.1	3,777.8			803.5						
1980	5,834.0	3,764.5			715.2						
1981 1982	5,982.1 5,865.9	3,821.6 3,874.9			779.6 670.3						
1983	6,130.9	4,096.4			732.8						
1984 1985	6,571.5 6,843.4	4,313.6 4,538.3			948.7 939.8						
1986	7,080.5	4,722.4			933.5						
1987 1988	7,307.0 7,607.4	4,868.0 5,064.3			962.2 984.9						
1989	7,879.2	5,207.5			1,024.4						
1990	8,027.1	5,313.7			989.9						
1991 1992	8,008.3 8,280.0	5,321.7 5,503.2			909.4 983.1						
1993	8,516.2 8,863.1	5,698.6			1,070.9 1,216.4						
1994 1995	9,086.0	5,916.2 6,076.2	1,896.0	4,208.5	1,254.3	1,231.2	787.9	342.0	489.4	456.1	32.1
1996	9,425.8 9,845.9	6,288.3 6,520.4	1,980.9	4,331.7 4,465.3	1,365.3 1,535.2	1,341.6 1,465.4	861.5 965.5	361.4 387.9	541.4 615.9	492.5 501.8	31.2 77.4
1997 1998	10,274.7	6,862.3	2,075.3 2,215.5	4,662.1	1,688.9	1,624.4	1,081.4	407.7	705.2	540.4	71.6
1999	10,770.7	7,237.6	2,392.0	4,853.1	1,837.6	1,775.5	1,194.3	408.2	805.0	574.2	68.5
2000 2001	11,216.4 11,337.5	7,604.6 7,810.3	2,518.2 2,597.3	5,093.6 5,219.1	1,963.1 1,825.2	1,906.8 1,870.7	1,311.3 1,274.8	440.0 433.3	889.2 860.6	580.0 583.3	60.2 -41.8
2002	11,543.1	8,018.3	2,597.3 2,702.9	5,318.5	1,800.4	1,791.5	1,1/3./	356.6	824.2	613.8	l 12.8
2003	11,836.4 12,246.9	8,244.5 8,515.8	2,827.2 2,953.3	5,418.2 5,562.7	1,870.1 2,058.2	1,854.7 1,992.5	1,189.6 1,263.0	343.0 346.7	850.0 917.3	664.3 729.5	17.3 66.3
2005	12,623.0	8,803.5	3,076.7	5,726.8	2,172.3	2,122.3	1,347.3	351.8	995.6	775.0	50.0 59.4
2006	12,958.5 13,206.4	9,054.5 9,262.9	3,178.9 3,273.5	5,875.6 5,990.2	2,231.8 2,159.5	2,172.7 2,130.6	1,455.5 1,550.0	384.0 438.2	1,071.1 1,106.8	718.2 584.2	27.7
2008	13,161.9 12,757.9	9,211.7 9,032.6	3,192.9 3,098.2	6,017.0 5,930.6	1,939.8 1,458.1	1,978.6 1,602.2	1,537.6 1,259.8	466.4 368.1	1,059.4 885.2	444.4 344.8	-36.3 -139.0
2010	13.063.0	9.196.2	3,209.1	5,987.6	1,456.1	1,502.2	1,255.6	310.6	963.9	332.2	50.9
2011	13,299.1	9,428.8	3,331.0	6,101.5	1,744.0	1,704.5	1,378.2	319.2	1,070.0	327.6	31.0
2012 P	13,591.1	9,604.9	3,433.0	6,178.0	1,911.0	1,850.1	1,484.9	351.3 417.7	1,143.5	367.1	42.7
2009: I	12,711.0 12,701.0	9,039.5 8,999.3	3,083.2 3,067.0	5,951.5 5,926.9	1,516.0 1,400.7	1,677.3 1,593.7	1,324.3 1,262.0	380.1	892.9 873.2	355.3 333.7	-150.2 -185.5
	12,746.7 12,873.1	9,046.2 9,045.4	3,123.1 3,119.5	5,920.7	1,394.8	1,581.2	1,236.7	351.7	880.8	347.2 343.0	-181.5 -38.8
IV 2010: I	12,947.6	9,100.8	3,159.5	5,923.2 5,940.4	1,521.1 1,591.4	1,556.8 1,553.1	1,216.4 1,222.7	323.1 302.6	893.8 925.0	332.7	30.5
II	13,019.6	9,159.4	3,185.4	5,973.6	1,646.4	1,606.5	1,258.6	312.1	951.6	350.5	33.2 94.9
III IV	13,103.5 13,181.2	9,216.0 9,308.5	3,215.1 3,276.5	6,001.4 6,034.9	1,710.1 1,684.3	1,602.7 1,632.3	1,282.1 1,310.5	310.4 317.4	978.7 1,000.4	322.2 323.3	94.9 45.0
2011: I	13,183.8	9,380.9	3,320.3	6,064.8	1,661.6	1,627.0	1,306.3	292.2	1,000.4	322.2	30.3
II	13.264.7	9,403.2	3,312.2	6,094.0	1 711 3	1,675.4	1.351.3	315.0	1,046.5	325.5	27.5 -4.3
III IV	13,306.9 13,441.0	9,441.9 9,489.3	3,323.5 3,367.9	6,121.1 6,126.0	1,735.8 1,867.3	1,736.8 1,778.7	1,411.3 1,443.7	330.2 339.3	1,091.5 1,114.8	326.6 336.0	-4.3 70.5
2012:	13,506.4	9,546.8	3,406.6	6,145.9	1,895.1	1,820.6	1,470.0	349.7	1,129.6	352.1	56.9
II	13,548.5 13,652.5	9,582.5	3,409.4 3,439.7	6,178.2 6,186.7	1,898.4 1,928.8	1,840.6 1,844.8	1,482.9 1,476.1	350.2 350.2	1,142.8 1,135.4	359.3 370.9	41.4 60.3
III	13,656.8	9,620.1 9,670.0	3,476.4	6,201.3	1,920.0	1,894.4	1,510.7	355.1	1,166.3	386.1	12.0

Table B-2. Real gross domestic product, 1964-2012—Continued

[Billions of chained (2005) dollars, except as noted; quarterly data at seasonally adjusted annual rates]

	N good	et exports ds and serv	of vices	Gov		onsumption gross invest		ıres	Final	Gross	Adden- dum:	from pr	t change receding riod
Year or quarter	Net	Exports	Imports	Total		Federal	N.	State and	sales of domes- tic product	domestic pur- chases ¹	Gross national prod- uct ²	Gross domes-	Gross domes- tic
	exports		,		Total	National defense	Non- defense	local			uct -	tic product	pur- chases ¹
1964 1965		124.5 128.0	136.9 151.5	1,018.0 1,048.7					3,390.8 3,587.6	3,423.4 3,656.1	3,417.5 3,636.4	5.8 6.4	5.5 6.8
1966		136.9	174.0	1.141.1					3,803.4	3,907.0	3,869.8	6.5 2.5	6.9 2.8
1967 1968		140.0 151.0	186.7 214.5	1,228.7 1,267.2					3,920.0	4,014.8 4,222.1	3,967.7 4,160.6	2.5 4.8	2.8 5.2
1969		158.3	226.7	1,264.3					4,115.8 4,245.0	4,222.1	4,100.0	3.1	3.1
1970		175.3	236.4	1,233.7					4,284.3	4,348.3	4,295.8	.2	-2
1971		178.3	249.0	1,206.9					4,403.6	4,503.1	4,442.2	3.4	3.6 5.5
1972 1973		191.7 227.8	277.0 289.9	1,198.1 1,193.9					4,636.7 4,884.0	4,751.8 4,987.0	4,678.9 4,960.3	5.3 5.8	5.5
1974		245.8	283.3	1,224.0					4,870.0	4,922.1	4,939.8	6	-1.3
19/5		244.3	251.8	1,251.6					4,922.1	4,867.9	4,917.2	2 5.4	-1.1
1976 1977		255.0 261.1	301.1 334.0	1,257.2 1,271.0					5,115.9 5,340.3	5,184.8 5,459.8	5,186.8 5,429.1	4.6	6.5 5.3
1978		288.6	362.9	1,308.4					5,634.9	5,758.4	5,728.4	5.6	5.5
1979		317.2	369.0	1,332.8					5,836.2	5,898.3	5,925.2	3.1	2.4
1980 1981		351.4 355.7	344.5 353.5	1,358.8 1,371.2					5,873.6 5,954.4	5,784.8 5,939.7	5,908.3 6,047.3	3 2.5	-1.9 2.7
1982		328.5	349.1	1,395.3					5,918.2	5,860.4	5,934.0	-1.9	-1.3
1983		320.1 346.2	393.1 488.8	1,446.3 1,494.9					6,167.6 6,490.0	6,203.1 6,739.7	6,197.1 6.634.1	4.5 7.2	5.8 8.7
1984 1985		356.7	520.5	1,599.0					6,833.1	7,039.4	6,888.0	4.1	4.4
1986		384.1	565.0	1,696.2					7,092.7	7,297.2	7,110.4	3.5 3.2	3.7
1987 1988		425.4 493.5	598.4 621.9	1,737.1 1,758.9					7,289.9 7,601.3	7,512.1 7,752.2	7,335.9 7,643.9	3.2	2.9 3.2
1989		550.2	649.3	1,806.8					7,860.8	7,984.2	7,917.3	3.6	3.0
1990		599.7	672.6	1,864.0					8,025.8	8,097.8	8,075.0	1.9	1.4
1991 1992		639.5 683.5	671.6 718.7	1,884.4 1,893.2					8,027.9 8,277.2	8,027.8 8,302.7	8,048.8 8,319.4	2 3.4	9 3.4
1993		705.9	780.8	1,878.2					8.508.0	8.585.7	8.556.0	2.9	3.4
1994		767.4	873.9	1.878.0					8,801.7	8,968.5	8,893.0	4.1	4.5
1995 1996	-98.8 -110.7	845.1 915.3	943.9 1,026.0	1,888.9 1,907.9	704.1 696.0	476.8 470.4	227.5 225.7	1,183.6 1,211.1	9,065.4 9,404.4	9,181.3 9,534.0	9,121.7 9,463.1	2.5 3.7	2.4 3.8
1997	-139.8	1.024.3	1,164.1	1.943.8	689.1	457.2	231.9	1.254.3	9.774.2	9.984.4	9.873.4	4.5	4.7
1998	-252.5	1,047.7	1,300.2	1,985.0	681.4	447.5	233.7	1,303.8	10,208.3	10,531.1	10,295.3	4.4	5.5
1999	-356.4 -451.3	1,093.4 1,187.4	1,449.9	2,056.1	694.6 698.1	455.8	238.7 244.4	1,361.8 1.400.1	10,706.5	11,131.8	10,802.9 11.259.2	4.8	5.7 4.8
2000 2001	-451.3 -471.8	1,120.8	1,638.7 1.592.6	2,097.8 2,178.3	726.5	453.5 470.7	255.5	1,400.1	11,158.0 11,382.0	11,671.6 11,815.8	11,395.0	1.1	1.2
2002	-548.5	1,098.3	1,646.8	2.279.6	726.5 779.5	505.3	273.9	1,500.6	11,382.0 11,533.6	12,097.5	11,597.1	1.8	2.4
2003	-603.7 -687.9	1,116.0 1,222.5	1,719.7 1.910.4	2,330.5 2,362.0	831.1 865.0	549.2 580.4	281.7 284.6	1,499.7 1,497.1	11,820.5 12,181.3	12,444.7 12,935.5	11,909.9 12,341.6	2.5 3.5	2.9
2005	-722.7	1,305.1	2,027.8	2,369.9	876.3	589.0	287.3	1,493.6	12,573.0	13,345.7	12,720.1	3.1	3.9 3.2
2006	-729.4 -648.8	1,422.1 1,554.4	2,151.5 2,203.2	2,402.1	894.9 906.1	598.4 611.8	296.6 294.2	1,507.2 1,528.1	12,899.3 13,177.5	13,688.1 13,855.3	13,028.3	2.7	2.6
2007 2008	-040.0 -494.8	1,554.4	2,203.2	2,434.2 2,497.4	971.1	657.7	313.3	1,526.1	13,177.5	13,653.1	13,322.0 13,316.9	3	1.2 -1.5
2009	-355.2	1,498.7	1,853.8	2,589.4	1,030.6	696.9	333.7	1,561.8	12,899.7	13,102.3	12,889.0	-3.1	-4.0
2010	-419.7	1,665.6	2,085.2	2,605.8	1,076.8	717.6	359.2	1,534.1	13,010.3	13,473.0	13,253.4	2.4	2.8
2011 2012 P	-408.0 -401.5	1,776.9 1,836.0	2,184.9 2,237.6	2,523.9 2,481.3	1,047.0 1,024.1	699.1 677.3	347.9 347.0	1,482.0 1,461.9	13,265.3 13,537.5	13,698.8 13,984.4	13,522.0	1.8 2.2	1.7 2.1
2009: I	-403.5	1,452.5	1,856.0	2,531.6	995.8	670.8	325.0	1,538.3	12,870.3	13,103.7	12,819.5	-5.3	
	-322.8	1,454.6	1,777.4	2,590.4	1,028.2	696.3	331.8	1,565.2	12,890.0	13,014.4	12,806.8	3	-7.3 -2.7
III IV	-346.9 -347.5	1,502.3 1,585.2	1,849.3 1,932.7	2,614.3 2,621.1	1,043.9 1,054.6	709.1 711.4	334.7 343.2	1,573.6 1,570.2	12,928.3 12,910.2	13,082.0 13,209.3	12,895.3 13,034.5	1.4 4.0	2.1 4.0
2010: I	-372.7	1.608.2	1.980.9	2.600.4	1.056.2	704.8	351.5	1,548.3	12,914.7	13.309.3	13.121.9		
II	-428.7	1,645.4	2,074.2	2,618.7	1,081.0	717.3	363.7	1,542.7	12,985.4	13,438.9	13,216.5	2.3 2.2	3.1 3.9
III IV	-458.9 -418.3	1,683.9 1,724.7	2,142.8 2,143.0	2,616.7 2,587.4	1,090.7 1,079.4	729.9 718.6	360.8 360.8	1,531.6 1,513.6	13,005.5 13,135.6	13,553.4 13,590.5	13,301.1 13,374.2	2.6 2.4	3.5 1.1
2011: I	-416.6	1,748.8	2,145.0	2,540.7	1,050.4	691.3	359.3	1,495.3	13,154.4	13,592.1	13,394.3	1	.0
II	-399.6	1,766.4	2,166.0	2,535.4	1,057.5	705.2	352.3	1,483.4	13,234.1	13,655.2	13,486.1	2.5	1.9 1.2
III	-397.9 -418.0	1,792.9 1,799.3	2,190.8 2,217.3	2,516.6 2,502.7	1,045.9 1,034.2	709.8	335.9 344.1	1,475.9 1,473.3	13,311.2	13,696.4 13,851.4	13,534.7	1.3	
IV	-418.0 -415.5	1,818.7	2,217.3	2,502.7		690.1	344.1	1,465.3	13,361.4	13,851.4	13,672.9 13.693.8	4.1	4.6 1.8
2012: I	-407.4	1,818.7	2,234.2	2,483.7	1,023.1 1,022.5	677.6 677.3	345.8	1,465.3	13,440.1	13,948.5	13,763.6	1.3	1.8
	-395.2	1,850.9	2,246.1	2,503.1	1,045.9	698.1	347.8	1,462.7	13,577.4	14,039.3	13,862.9	3.1	2.6
IV P	-387.9	1,832.5	2,220.4	2,458.9	1,005.0	656.0	349.3	1,458.0	13,634.7	14,035.5		.1	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–3. Quantity and price indexes for gross domestic product, and percent changes, $1964\hbox{--}2012$

[Quarterly data are seasonally adjusted]

		Index	numbers, 200		TO SOCIONIUM	,,	Percent char	nge from prece	eding period ¹	
	Gross d	omestic produc	et (GDP)	Personal co expendito	onsumption ures (PCE)	Gross de	omestic produ	ct (GDP)	Personal c expendit	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
1964	26.851 28.575 30.437 31.206 32.717 33.733	19.589 19.945 20.511 21.142 22.040 23.130	19.580 19.936 20.502 21.133 22.031 23.119	19.536 19.819 20.322 20.834 21.645 22.626	20.091 20.345 20.805 21.442 22.362 23.412	5.8 6.4 6.5 2.5 4.8 3.1	1.6 1.8 2.8 3.1 4.2 4.9	1.6 1.8 2.8 3.1 4.2 4.9	1.5 1.4 2.5 2.5 3.9 4.5	1.5 1.3 2.3 3.1 4.3 4.7
1970 1971 1972 1973 1974 1975 1976 1977 1978	33.798 34.932 36.788 38.920 38.705 38.623 40.695 42.566 44.940 46.345	24.349 25.567 26.670 28.148 30.695 33.606 35.535 37.796 40.447 43.811	24.338 25.554 26.657 28.136 30.690 33.591 35.519 37.783 40.435 43.798	23.685 24.692 25.536 26.913 29.716 32.198 33.966 36.171 38.705 42.137	24.510 25.664 26.493 27.505 29.687 32.174 34.130 36.320 38.749 41.569	.2 3.4 5.3 5.8 6 2 5.4 4.6 5.6 3.1	5.3 5.0 4.3 5.5 9.0 9.5 5.7 6.4 7.0 8.3	5.3 5.0 4.3 5.5 9.1 9.5 5.7 6.4 7.0 8.3	4.7 4.3 3.4 5.4 10.4 8.4 5.5 6.5 7.0 8.9	4.7 4.7 3.2 3.8 7.9 8.4 6.1 6.4 6.7 7.3
1980	46.217 47.390 46.470 48.570 52.060 54.214 56.092 57.887 60.266 62.420	47.817 52.326 55.514 57.705 59.874 61.686 63.057 64.818 67.047 69.579	47.791 52.270 55.459 57.652 59.817 61.628 62.991 64.819 67.046 69.577	46.663 50.833 53.640 55.948 58.065 59.965 61.427 63.618 66.151 69.025	45.377 49.342 52.526 55.247 57.541 59.724 61.974 64.331 67.120 69.889	3 2.5 -1.9 4.5 7.2 4.1 3.5 3.2 4.1 3.6	9.1 9.4 6.1 3.9 3.8 3.0 2.2 2.8 3.4 3.8	9.1 9.4 6.1 4.0 3.8 3.0 2.2 2.9 3.4 3.8	10.7 8.9 5.5 4.3 3.8 3.3 2.4 3.6 4.0 4.3	9.2 8.7 6.5 5.2 4.2 3.8 3.8 4.3 4.1
1990 1991 1992 1993 1994 1995 1996 1997 1998	63.591 63.442 65.595 67.466 70.214 71.980 74.672 78.000 81.397 85.326	72.274 74.826 76.602 78.288 79.935 81.602 83.154 84.627 85.580 86.840	72.262 74.824 76.598 78.290 79.940 81.606 83.159 84.628 85.584 86.842	72.180 74.789 76.989 78.679 80.302 82.078 83.864 85.433 86.246 87.636	72.872 75.709 78.256 80.106 81.875 83.761 85.386 87.022 88.284 89.597	1.9 -2 3.4 2.9 4.1 2.5 3.7 4.5 4.4	3.9 3.5 2.4 2.2 2.1 1.9 1.8 1.1	3.9 3.5 2.4 2.2 2.1 2.1 1.9 1.8 1.1	4.6 3.6 2.9 2.2 2.1 2.2 2.2 1.9 1.0	4.3 3.9 3.4 2.4 2.2 2.3 1.9 1.5 1.5
2000 2001 2002 2003 2004 2005 2006 2007 2008 2009	88.857 89.816 91.445 93.769 97.021 100.000 102.658 104.622 104.270 101.069	88.724 90.731 92.192 94.134 96.784 100.000 103.237 106.231 108.565 109.532	88.723 90.727 92.196 94.135 96.786 100.000 103.231 106.227 108.582 109.529	89.818 91.530 92.778 94.658 97.121 100.000 102.723 105.499 108.943 109.004	91.154 92.783 94.390 95.823 97.815 100.000 102.265 104.631 107.020 108.536	4.1 1.8 2.5 3.5 3.1 2.7 1.9 -3	2.2 2.3 1.6 2.1 2.8 3.3 3.2 2.9 2.2	2.2 2.3 1.6 2.1 2.8 3.3 3.2 2.9 2.2	2.5 1.9 1.4 2.0 2.6 3.0 2.7 2.7 3.3	1.7 1.8 1.7 1.5 2.1 2.2 2.3 2.3 2.3 1.4
2010 2011 2012 <i>P</i>	103.486 105.356 107.670	111.002 113.369 115.382	110.993 113.359 115.381	111.087 113.790 115.784	110.214 111.802 113.704	2.4 1.8 2.2	1.3 2.1 1.8	1.3 2.1 1.8	1.9 2.4 1.8	1.5 1.4 1.7
2009: I II IV	100.697 100.618 100.980 101.981	109.526 109.318 109.463 109.820	109.539 109.325 109.457 109.793	108.063 108.496 109.315 110.142	107.827 108.285 108.694 109.339	-5.3 3 1.4 4.0	1.0 8 .5 1.3	.9 8 .5 1.2	-2.1 1.6 3.1 3.1	.7 1.7 1.5 2.4
2010: I II IV	102.572 103.142 103.807 104.423	110.234 110.686 111.248 111.838	110.216 110.706 111.238 111.795	110.642 110.800 111.154 111.751	109.739 110.121 110.395 110.602	2.3 2.2 2.6 2.4	1.5 1.7 2.0 2.1	1.6 1.8 1.9 2.0	1.8 .6 1.3 2.2	1.5 1.4 1.0 .8
2011: I II IV	104.443 105.084 105.418 106.481	112.389 113.109 113.937 114.041	112.372 113.109 113.950 113.987	112.640 113.633 114.293 114.593	110.973 111.599 112.138 112.500	.1 2.5 1.3 4.1	2.0 2.6 3.0 .4	2.1 2.6 3.0 .1	3.2 3.6 2.3 1.1	1.3 2.3 1.9 1.3
2012: V p	106.999 107.333 108.156 108.190	114.608 115.050 115.807 116.063	114.599 115.035 115.810 116.068	115.300 115.496 115.952 116.389	113.122 113.603 113.912 114.181	2.0 1.3 3.1 .1	2.0 1.6 2.7 .9	2.2 1.5 2.7 .9	2.5 .7 1.6 1.5	2.2 1.7 1.1 .9

¹ Quarterly percent changes are at annual rates.

TABLE B-4. Percent changes in real gross domestic product, 1964-2012

[Percent change from preceding period; quarterly data at seasonally adjusted annual rates]

			nal consun expenditure		Gross	private don	nestic inves	stment	Expor imports and se	of goods	Govern exper	ment consi ditures and investmen	d gross
V .	Gross domes-				Noni	residential	fixed						
Year or quarter	tic product	Total	Goods	Services	Total	Struc- tures	Equip- ment and soft- ware	Resi- dential fixed	Exports	Imports	Total	Federal	State and local
1964	5.8 6.4 6.5 2.5 4.8 3.1	6.0 6.3 5.7 3.0 5.8 3.7	6.0 7.1 6.3 2.0 6.2 3.1	6.0 5.5 5.0 4.1 5.3 4.5	11.9 17.4 12.5 -1.3 4.5 7.6	10.4 15.9 6.8 -2.5 1.4 5.4	12.8 18.3 16.0 7 6.2 8.8	5.8 -2.9 -8.9 -3.1 13.6 3.0	11.8 2.8 6.9 2.3 7.9 4.8	5.3 10.6 14.9 7.3 14.9 5.7	2.2 3.0 8.8 7.7 3.1 2	-1.3 .0 11.1 10.0 .8 -3.4	6.8 6.7 6.3 5.1 5.9 3.4
1970 1971 1972 1973 1974 1975 1976 1977	.2 3.4 5.3 5.8 6 2 5.4 4.6 5.6	2.3 3.8 6.1 5.0 8 2.3 5.6 4.2 4.4	.8 4.2 6.5 5.2 -3.6 .7 7.0 4.3 4.1	3.9 3.5 5.8 4.7 1.9 3.8 4.3 4.1	5 .0 9.2 14.5 .8 -9.9 4.9 11.3	.3 -1.6 3.1 8.2 -2.2 -10.5 2.4 4.1 14.4	-1.0 1.0 12.9 18.3 2.6 -9.5 6.3 15.1 15.2	-6.0 27.4 17.8 6 -20.6 -13.0 23.5 21.5 6.3	10.7 1.7 7.5 18.9 7.9 6 4.4 2.4 10.5	4.3 5.3 11.3 4.6 -2.3 -11.1 19.6 10.9 8.7	-2.4 -2.2 7 4 2.5 2.3 .4 1.1 2.9	-7.4 -7.7 -4.1 -4.2 .9 .3 .0 2.1 2.5	2.8 3.1 2.2 2.9 3.8 3.7 .7 .4 3.3
1979 1980 1981 1982 1983 1984 1985 1986 1987	3.1 -3 2.5 -1.9 4.5 7.2 4.1 3.5 3.2 4.1	2.4 4 1.5 1.4 5.7 5.3 5.2 4.1 3.1	1.6 -2.5 1.2 .7 6.4 7.2 5.3 5.6 1.8 3.7 2.5	3.1 1.5 1.8 1.9 5.2 3.9 5.2 3.0 4.0 4.2	10.1 3 5.7 -3.8 -1.3 17.6 6.6 -2.9 1 5.2	12.7 5.9 8.0 -1.6 -10.8 13.9 7.1 -11.0 -2.9	8.7 -3.6 4.3 -5.2 5.4 19.8 6.4 1.9 7.5	-3.7 -21.2 -8.0 -18.2 41.4 14.8 1.6 12.3 2.0 -1.0	9.9 10.8 1.2 -7.6 -2.6 8.2 3.0 7.7 10.8 16.0	1.7 -6.6 2.6 -1.3 12.6 24.3 6.5 8.5 5.9 3.9	1.9 1.9 1.8 3.7 3.4 7.0 6.1 2.4 1.3	2.4 4.7 4.8 3.9 6.6 3.1 7.8 5.7 3.6 -1.6	1.5 1 -2.0 .0 1.2 3.6 6.2 6.4 1.4 3.7 3.7
1989 1990 1991 1992 1993 1994 1995 1996 1997 1998	3.6 1.9 2 3.4 2.9 4.1 2.5 3.7 4.5 4.4	2.8 2.0 2.3.4 3.6 3.8 2.7 3.5 3.7 5.2 5.5	2.5 .6 -2.0 3.2 4.2 5.3 3.0 4.5 4.8 6.8	3.0 3.0 1.5 3.6 3.2 3.0 2.5 2.9 3.1 4.4 4.1	5.6 -5.4 3.2 8.7 9.2 10.5 9.3 12.1 12.0	2.0 1.5 -11.1 -6.0 6 1.8 6.4 5.7 7.3 5.1	7.3 -0 -2.6 7.3 12.5 11.9 12.0 10.6 13.8 14.5	-3.0 -8.6 -9.6 13.8 8.2 9.7 -3.3 8.0 1.9 7.7 6.3	11.5 9.0 6.6 6.9 3.3 8.7 10.1 8.3 11.9 2.3 4.4	4.4 3.6 2 7.0 8.6 11.9 8.7 13.5 11.7	2.7 3.2 1.1 .5 8 .0 .6 1.0 1.9 2.1	1.6 2.0 -2 -1.8 -3.9 -3.8 -2.7 -1.2 -1.0 -1.1	3.7 4.1 2.1 2.2 1.5 2.6 2.7 2.3 3.6 3.9 4.5
2000 2001 2002 2003 2004 2005 2006 2007 2008 2009	4.1 1.1 1.8 2.5 3.5 3.1 2.7 1.9 -3	5.1 2.7 2.7 2.8 3.3 3.4 2.9 2.3 6 -1.9	5.3 3.1 4.1 4.6 4.5 4.2 3.3 3.0 -2.5 -3.0	5.0 2.5 1.9 1.9 2.7 3.0 2.6 1.9 .4 -1.4	9.8 -2.8 -7.9 1.4 6.2 6.7 8.0 6.5 8 -18.1	7.8 -1.5 -17.7 -3.8 1.1 1.4 9.2 14.1 6.4 -21.1	10.5 -3.2 -4.2 3.1 7.9 8.5 7.6 3.3 -4.3	1.0 .6 5.2 8.2 9.8 6.2 -7.3 -18.7 -23.9 -22.4	8.6 -5.6 -2.0 1.6 9.5 6.7 9.0 9.3 6.1 -9.1	13.0 -2.8 3.4 4.4 11.1 6.1 6.1 2.4 -2.7 -13.5	2.0 3.8 4.7 2.2 1.4 3 1.4 1.3 2.6 3.7	.5 4.1 7.3 6.6 4.1 1.3 2.1 1.2 7.2 6.1	2.8 3.7 3.3 1 2 2 .9 1.4 .0 2.2
2010 2011 2012 ^p 2009: I	2.4 1.8 2.2	1.8 2.5 1.9	3.6 3.8 3.1	1.0 1.9 1.3	.7 8.6 7.7	-15.6 2.7 10.1	8.9 11.0 6.9	-3.7 -1.4 12.1	11.1 6.7 3.3	12.5 4.8 2.4	.6 -3.1 -1.7	4.5 -2.8 -2.2	-1.8 -3.4 -1.4
2009: T II IV	-5.3 3 1.4 4.0	-1.6 -1.8 2.1 .0	.2 -2.1 7.5 5	-2.5 -1.6 4	-28.9 -17.5 -7.8 -6.4	-30.5 -31.4 -26.7 -28.8	-27.9 -8.6 3.6 6.0	-35.1 -22.2 17.2 -4.8	-28.7 .6 13.8 24.0	-33.9 -15.9 17.2 19.3	1.8 9.6 3.7 1.1	-3.0 13.7 6.3 4.2	4.9 7.2 2.2 9
2010: I II IV	2.3 2.2 2.6 2.4	2.5 2.6 2.5 4.1	5.2 3.3 3.8 7.9	1.2 2.3 1.9 2.3	2.1 12.3 7.7 9.2	-23.0 13.1 -2.2 9.3	14.7 12.0 11.9 9.2	-11.4 23.1 -28.6 1.5	5.9 9.6 9.7 10.0	10.4 20.2 13.9 .0	-3.1 2.8 3 -4.4	.6 9.7 3.7 –4.1	-5.5 -1.4 -2.9 -4.6
2011: I II III IV	.1 2.5 1.3 4.1	3.1 1.0 1.7 2.0	5.4 -1.0 1.4 5.4	2.0 1.9 1.8	-1.3 14.5 19.0 9.5	-28.2 35.2 20.7 11.5	11.1 7.8 18.3 8.8	-1.4 4.1 1.4 12.1	5.7 4.1 6.1 1.4	4.3 .1 4.7 4.9	-7.0 8 -2.9 -2.2	-10.3 2.8 -4.3 -4.4	-4.7 -3.2 -2.0 7
2012: V P	2.0 1.3 3.1	2.4 1.5 1.6 2.1	4.7 .3 3.6 4.3	1.3 2.1 .6	7.5 3.6 –1.8 9.7	12.9 .6 .0 5.8	5.4 4.8 -2.6 11.3	20.5 8.5 13.5 17.5	4.4 5.3 1.9 –3.9	3.1 2.8 6 -4.5	-3.0 7 3.9 -6.9	-4.4 -4.2 2 9.5 -14.8	-2.2 -1.0 .3 -1.3

Note: Percent changes based on unrounded data.

Table B-5. Contributions to percent change in real gross domestic product, 1964-2012

[Percentage points, except as noted; quarterly data at seasonally adjusted annual rates]

		Personal co	nsumption e	xpenditures			Gross priva	ate domestic	investment		
	Gross						Fiz	xed investme	nt		01
Year or quarter	domestic product (percent	Takal	04-	0	Total		١	Vonresidentia	ıl		Change in
	change)	Total	Goods	Services	iotai	Total	Total	Structures	Equip- ment and software	Resi- dential	private inven- tories
1964	5.8 6.4 6.2 5.2 4.8 3.1 1.2 3.4 4.5 3.3 5.8 86 6.5 5.4 4.6 5.6 6.5 6.7 7.2 4.1 3.5 3.2 2.5 3.2 2.5 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2 3.2	3.69 3.911 3.50 1.82 3.51 2.29 1.44 2.37 3.81 3.08 -5.22 1.40 3.51 2.66 2.77 1.48 -22 95 3.43 3.32 2.62 2.01 2.64 1.86 1.34 1.0 2.27	1.91 2.26 2.02 1.92 2.95 2.44 1.27 1.57 -1.12 2.08 1.28 1.22 47 -74 34 1.97 1.97 1.41 1.49 9.8 8.66 6.16	1.78 1.66 1.48 1.21 1.59 1.34 1.19 1.10 1.84 1.51 60 1.20 1.20 5.2 62 62 62 62 62 62 62 62 62 62 62 62 62	1.25 2.16 1.44 76 .90 -1.04 1.67 1.87 1.96 -1.31 -2.98 2.84 2.16 61 -1.31 -2.12 -2.12 1.55 -2.55 -2.55 4.63 -1.31 -1.20 -1.39 -1.20 -1.20 -1.20 -1.20 -1.20 -1.20 -1.20 -1.20 -1.20 -1.20 -1.20 -1.20 -1.20 -1.20 -1.20 -1.20 -1.20 -1.20 -1.20 -1.20 -1.20	1.37 1.50 87 -28 .99 .99 -31 1.10 1.81 1.47 -1.71 1.42 2.18 2.04 1.21 1.17 2.68 8 8 9 9.0 .99 3.3 4.7 -3.2 4.7 -3.2 4.7 -3.2 4.7 -3.2 4.7 -3.2 4.7 -3.2 4.7 -3.2 4.7 -3.2 4.7 -3.2 4.7 -3.2 4.7 -3.2 4.7 -3.2 4.7 -3.2 4.7 -3.2 4.7 -3.2 4.7 -3.2 4.7 -3.2 4.7 -3.2 -3.2 -3.2 -3.2 -3.2 -3.2 -3.2 -3.2	1.07 1.65 1.29 -15 46 .00 .03 1.50 .09 -1.14 .52 1.19 1.69 1.23 .74 -50 .25 .25 .25 .25 .25 .25 .25 .25 .25 .25	0.36 .57 .27 .10 .05 .05 .01 .09 .43 .09 .43 .09 .15 .54 .54 .53 .27 .40 .09 .09 .15 .54 .50 .00 .00 .00 .00 .00 .00 .00 .00 .00	0.71 1.07 1.02 -0.5 41 1.07 0.70 7.07 1.02 -0.5 41 1.19 1.19 1.18 1.70 4.3 1.04 4.1 1.15 -7.0 1.15 -7.1 1.15 -7.0 1.15 -7.1 1.15 -7.0 1.15 -7.1 1.15 -7.0 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.15 -7.1 1.	0.30 -155 -433 -133 -533 -266 1.10 -899 -044 -1.13 -1.57 -211 -1.17 -355 -211 -1.17 -35 -211 -1.17 -35 -1.14 -37 -47 -37 -47 -47 -47 -47 -47 -47 -47 -47 -47 -4	-0.13
1994 1995 1996 1997 1998	4.1 2.5 3.7 4.5 4.4 4.8	2.57 1.81 2.35 2.48 3.50 3.68	1.29 .73 1.09 1.16 1.61 1.90	1.27 1.08 1.26 1.33 1.90 1.78	1.94 .48 1.35 1.95 1.65 1.50	1.30 .94 1.33 1.41 1.70 1.52	.91 1.08 1.01 1.33 1.38 1.24	.05 .17 .16 .21 .16	.86 .91 .85 1.12 1.22	.39 14 .33 .08 .32 .28	.63 46 .02 .54 05 02
2000	4.1 1.1 1.8 2.5 3.5 3.1 2.7 1.9 3 -3.1 2.4	3.44 1.85 1.85 1.97 2.30 2.35 1.98 1.60 39 -1.36	1.29 .77 .99 1.12 1.09 1.01 .80 .71 59 69	2.15 1.09 .86 .85 1.22 1.34 1.18 .89 .21 67 .46	1.19 -1.24 -22 .60 1.57 .93 .47 56 -1.66 -3.59	1.24 32 70 .54 1.15 1.05 .40 33 -1.15 -2.80	1.20 35 94 .14 .63 .69 .86 .73 09 -2.08	.24 05 58 10 .03 .04 .27 .46 .24 85	.96 30 36 .24 .60 .65 .59 34 -1.23	.05 .03 .24 .40 .52 .36 -1.05 -1.05 -7.73	05 92 .48 .06 .42 13 .07 23 51 78
2011 2012 P 2009: I II IV	1.8 2.2 -5.3 3 1.4 4.0	1.79 1.33 -1.06 -1.21 1.50 01	.89 .74 .06 46 1.68 10	.90 .60 -1.12 75 18	.62 1.17 -7.02 -3.52 14 3.85	.76 1.03 -4.73 -2.49 32 69	.80 .76 -3.54 -1.86 73 57	.07 .27 -1.39 -1.31 98 98	.72 .49 -2.16 54 .25 .40	03 .27 -1.18 63 .40 12	14 .14 -2.29 -1.03 .19 4.55
2010: I	2.3 2.2 2.6 2.4	1.72 1.81 1.75 2.84 2.22	1.18 .76 .86 1.78 1.27	.54 1.05 .88 1.06	2.13 1.65 1.87 75 68	10 1.58 10 .87 14	.20 1.07 .70 .83 –.11	70 .31 06 .23 84	.90 .76 .76 .60	30 .51 80 .03 03	2.23 .07 1.97 –1.61 –.54
2012: I	2.5 1.3 4.1 2.0 1.3 3.1	.70 1.18 1.45 1.72 1.06 1.12 1.47	22 .33 1.29 1.11 .08 .85 1.03	.92 .85 .16 .61 .99 .26	1.40 .68 3.72 .78 .09 .85 20	1.39 1.75 1.19 1.18 .56 .12 1.36	1.30 1.71 .93 .74 .36 19	.77 .51 .31 .35 .02 .00	.53 1.20 .62 .39 .35 –.19	.09 .03 .26 .43 .19 .31	.01 -1.07 2.53 39 46 .73 -1.55

Table B–5. Contributions to percent change in real gross domestic product, $1964{-}2012{-}Continued$

[Percentage points, except as noted; quarterly data at seasonally adjusted annual rates]

		Torcontage		of goods a		ony data a	3003011011	y adjusted Go	overnment o		n expenditur	es
Year or quarter			Exports			Imports			unu ;	Federal	.mone	State
	Net exports	Total	Goods	Services	Total	Goods	Services	Total	Total	National defense	Non- defense	and local
1964	0.36 30 29 22 30 04	0.59 .15 .36 .12 .41 .25	0.52 .02 .27 .02 .30 .20	0.07 .13 .09 .10 .10	-0.23 45 65 34 71 29	-0.19 41 49 17 68 20	-0.04 04 16 16 03 09	0.49 .65 1.87 1.68 .73 05	-0.17 01 1.24 1.17 .10 42	-0.39 19 1.21 1.19 .16 49	0.23 .19 .03 02 06 .06	0.65 .66 .63 .51 .63 .37
1970	.34 19 21 .82 .75 .89 -1.08 72 .05	.56 .10 .42 1.12 .58 05 .37 .20 .82 .82	.44 02 .43 1.01 .46 16 .31 .08 .68	.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 60 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 1981 1982 1983 1984 1985 1986 1987 1988	1.68 15 60 -1.35 -1.58 42 30 .16 .82	.97 .12 73 22 .63 .23 .54 .77 1.24	.86 09 67 19 .46 .20 .26 .56 1.04	.11 06 03 .17 .02 .28 .21 .20	.71 27 .12 -1.13 -2.21 65 84 61 43 48	.67 18 .20 -1.01 -1.83 52 82 39 36 38	.04 09 08 13 39 13 02 22 07 09	.38 .19 .35 .76 .70 1.41 1.27 .51 .26	.39 .42 .35 .63 .30 .74 .55 .35 16	.25 .38 .48 .50 .35 .60 .47 .35 03	.14 .04 13 .13 05 .14 .08 .00 12	01 23 .01 .13 .40 .67 .71 .17 .42
1990 1991 1992 1993 1994 1995 1996 1997 1998	.43 .64 05 57 43 .11 15 32 -1.18	.81 .63 .68 .32 .85 1.03 .90 1.30 .26	.56 .46 .52 .23 .67 .85 .68 1.11 .18	.26 .16 .10 .19 .19 .22 .19 .08	38 .02 72 90 -1.28 92 -1.04 -1.62 -1.43 -1.45	26 04 78 85 -1.18 86 94 -1.44 -1.21 -1.31	13 .05 .06 05 10 10 17 22 14	.64 .22 .10 16 .00 .11 .19 .34 .38	.18 02 16 33 30 20 08 07 07	.00 07 32 31 27 19 06 13 09	.18 .05 .16 02 04 01 02 .06 .02	.46 .24 .26 .17 .30 .30 .27 .41 .45
2000 2001 2002 2003 2004 2005 2006 2007 2007 2008	85 20 65 45 66 27 06 62 1.21 1.14	.91 61 20 .15 .90 .67 .93 1.03 .73 -1.14	.82 48 25 .12 .56 .52 .68 .75 .53 -1.05	.08 13 .05 .03 .34 .15 .25 .28 .20 10	-1.76 .41 46 60 -1.55 95 98 40 .47	-1.52 .39 42 56 -1.29 87 81 37 .57 2.19	24 04 04 26 07 18 04 10	.36 .67 .84 .42 .26 .06 .26 .25 .50	.03 .24 .44 .43 .28 .09 .15 .09 .50	02 .14 .28 .36 .26 .07 .07 .11 .36	.05 .09 .15 .07 .02 .02 .07 02 .15	.33 .40 .40 01 02 03 .11 .17 .00
2010	52 .07 .03 2.45 2.47 70 05	1.29 .87 .46 -3.78 .10 1.48 2.55	1.11 .65 .41 -3.29 17 1.46 2.14	.18 .22 .05 49 .27 .02 .42	-1.81 80 43 6.24 2.37 -2.18 -2.60	-1.74 72 31 5.68 2.22 -2.12 -2.55	07 08 12 .56 .15 06 05	.14 67 34 .37 1.94 .79 .23	.37 23 18 23 1.04 .51	.17 15 17 37 .83 .42 .07	.20 09 01 .14 .21 .09	23 43 16 .60 .90 .28 12
2010: I II IV	83 -1.81 95 1.24	.70 1.14 1.18 1.24	.79 .97 .76 .96	09 .17 .41 .28	-1.53 -2.95 -2.13 01	-1.46 -2.92 -1.79 15	06 03 34 .15	69 .59 06 94	.04 .78 .31 –.35	22 .40 .40 35	.26 .38 09 .00	73 19 37 59
2011: I II IV	.03 .54 .02 –.64	.75 .56 .83 .21	.52 .35 .59 .58	.23 .21 .25 –.38	72 02 81 85	73 .10 43 90	.01 12 38 .05	-1.49 16 60 43	89 .23 36 35	84 .45 .15 60	05 22 51 .25	60 39 24 08
2012: V p	.06 .23 .38 .24	.60 .72 .27 –.55	.39 .67 .11 –.56	.21 .05 .16 .00	54 49 .11 .79	29 42 .18 .60	25 07 07 .19	60 14 .75 -1.38	34 02 .71 -1.23	39 01 .64 -1.28	.05 01 .08 .04	26 12 .04 15

Table B-6. Chain-type quantity indexes for gross domestic product, 1964–2012

[Index numbers, 2005=100; quarterly data seasonally adjusted]

			onsumption ex	nenditures	juditerry udio			nestic investm	ent	
								ixed investme		
Year or quarter	Gross domestic							Nonresidentia	I	
	product	Total	Goods	Services	Total	Total	Total	Structures	Equip- ment and software	Resi- dential
1964 1965 1966 1967 1968 1969 1970	26.851 28.575 30.437 31.206 32.717 33.733 33.798 34.932	23.939 25.453 26.897 27.703 29.301 30.399 31.112 32.297	22.994 24.623 26.184 26.697 28.350 29.216 29.447 30.679	23.885 25.204 26.453 27.541 29.009 30.303 31.487 32.574	17.589 20.058 21.825 20.827 22.039 23.323 21.791 24.275	17.882 19.708 20.838 20.453 21.881 23.242 22.754 24.477	13.701 16.088 18.100 17.856 18.654 20.070 19.963 19.964	57.399 66.553 71.109 69.313 70.299 74.096 74.300 73.082	7.303 8.641 10.024 9.958 10.578 11.513 11.399 11.512	34.011 33.017 30.063 29.117 33.086 34.063 32.026 40.808
1971 1972 1973 1974 1975 1976 1977 1978	36.788 38.920 38.705 38.623 40.695 42.566 44.940 46.345	34.283 35.982 35.683 36.492 38.525 40.146 41.916 42.912	32.685 34.378 33.124 33.349 35.684 37.215 38.753 39.373	34.458 36.091 36.783 38.164 39.802 41.447 43.375 44.700	27.150 30.331 28.097 23.120 27.791 31.989 35.846 36.989	27.420 29.926 28.055 25.042 27.511 31.465 35.274 37.265	21.797 24.968 25.177 22.689 23.800 26.486 30.450 33.517	75.359 81.520 79.755 71.355 73.073 76.079 87.058 98.098	12.997 15.381 15.774 14.272 15.164 17.449 20.106 21.861	48.061 47.752 37.895 32.975 40.740 49.486 52.602 50.672
1980 1981 1982 1983 1984 1985 1986 1987 1988	46.217 47.390 46.470 48.570 52.060 54.214 56.092 57.887 60.266 62.420	42.761 43.410 44.015 46.531 48.998 51.551 53.642 55.297 57.525 59.152	38.376 38.830 39.101 41.589 44.586 46.931 49.556 50.448 52.322 53.643	45.389 46.203 47.103 49.568 51.508 54.173 55.784 58.007 60.469 62.301	32.926 35.886 30.859 33.733 43.672 43.266 42.971 44.295 45.337 47.156	34.844 35.623 33.125 35.541 41.543 43.729 44.237 44.480 45.947 47.328	33.429 35.333 34.003 33.563 39.486 42.103 40.901 40.870 43.008 45.409	103.837 112.161 110.325 98.404 112.125 120.095 106.935 103.859 104.539	21.075 21.971 20.829 21.950 26.303 27.974 28.504 28.895 31.074 33.351	39.949 36.747 30.075 42.524 48.836 49.608 55.696 56.807 56.231 54.524
1990 1991 1992 1993 1994 1995 1996 1997 1998	63.591 63.442 65.595 67.466 70.214 71.980 74.672 78.000 81.397 85.326	60.359 60.450 62.511 64.731 67.203 69.021 71.429 74.066 77.950 82.213	53.975 52.904 54.571 56.838 59.836 61.623 64.383 67.453 72.010 77.745	64.151 65.110 67.431 69.589 71.666 73.488 75.640 77.973 81.409 84.744	45.569 41.862 45.254 49.299 55.998 57.743 62.851 70.672 77.747 84.592	46.340 43.335 45.904 49.839 54.500 58.010 63.213 69.045 76.537 83.658	45.633 43.186 44.565 48.456 52.915 58.478 63.940 71.658 80.264 88.640	108.187 96.150 90.354 89.768 91.405 97.235 102.744 110.280 115.911	33.361 32.504 34.873 39.226 43.904 49.158 54.383 61.861 70.837 80.857	49.819 45.032 51.263 55.450 60.840 58.850 63.550 64.752 74.092
2000 2001 2002 2003 2004 2005 2006 2007 2008 2009	88.857 89.816 91.445 93.769 97.021 100.000 102.658 104.622 104.270 101.069	86.382 88.718 91.080 93.650 96.731 100.000 102.850 105.218 104.637 102.602	81.847 84.417 87.848 91.890 95.988 100.000 103.322 106.394 103.776 100.697	88.944 91.134 92.870 94.611 97.134 100.000 102.599 104.599 105.067 103.558	90.371 84.023 82.879 86.090 94.749 100.000 102.742 99.412 89.296 67.124	89.843 88.142 84.412 87.390 93.880 100.000 102.375 100.390 93.228 75.494	97.327 94.614 87.112 88.290 93.740 100.000 108.027 115.039 114.125 93.507	125.101 123.191 101.377 97.514 98.571 100.000 109.180 124.578 132.595 104.659	89.320 86.438 82.789 85.377 92.138 100.000 107.590 111.168 106.411 88.911	74.834 75.258 79.204 85.712 94.130 100.000 92.667 75.379 57.345 44.489
2010 2011 2012 <i>P</i>	103.486 105.356 107.670	104.460 107.103 109.103	104.304 108.263 111.580	104.554 106.543 107.879	76.327 80.284 87.973	75.326 80.311 87.173	94.148 102.288 110.214	88.308 90.733 99.875	96.822 107.473 114.862	42.862 42.268 47.368
2009: I II IV	100.697 100.618 100.980 101.981	102.681 102.224 102.757 102.747	100.211 99.684 101.506 101.389	103.924 103.494 103.385 103.429	69.786 64.480 64.208 70.022	79.032 75.092 74.501 73.352	98.291 93.667 91.786 90.285	118.743 108.062 99.980 91.848	89.688 87.704 88.474 89.777	45.843 43.058 44.799 44.257
2010: I II IV	102.572 103.142 103.807 104.423	103.377 104.042 104.685 105.736	102.691 103.531 104.499 106.495	103.729 104.310 104.795 105.380	73.259 75.792 78.722 77.535	73.180 75.696 75.515 76.913	90.749 93.411 95.162 97.269	86.033 88.731 88.245 90.222	92.913 95.582 98.309 100.486	42.934 45.223 41.570 41.720
2011: I II IV	104.443 105.084 105.418 106.481	106.559 106.812 107.251 107.790	107.915 107.655 108.021 109.462	105.903 106.412 106.886 106.970	76.492 78.778 79.906 85.959	76.660 78.942 81.835 83.807	96.954 100.297 104.746 107.156	83.055 89.561 93.866 96.449	103.161 105.120 109.637 111.972	41.577 41.994 42.139 43.361
2012: I II IV P	106.999 107.333 108.156 108.190	108.443 108.849 109.276 109.843	110.722 110.812 111.796 112.992	107.318 107.882 108.031 108.286	87.241 87.394 88.793 88.463	85.785 86.724 86.923 89.258	109.108 110.065 109.557 112.124	99.421 99.560 99.558 100.962	113.460 114.790 114.049 117.148	45.433 46.364 47.855 49.819

TABLE B-6. Chain-type quantity indexes for gross domestic product, 1964-2012—Continued [Index numbers, 2005=100; quarterly data seasonally adjusted]

	Exports of	of goods and			of goods and	<u> </u>	Governmen		n expenditu	es and gross	investment
Year or quarter									Federal		State
	Total	Goods	Services	Total	Goods	Services	Total	Total	National defense	Non- defense	and local
1964 1965 1966 1967 1968	9.540 9.807 10.487 10.728 11.572 12.131	9.180 9.228 9.870 9.916 10.701 11.262	10.180 11.215 11.986 12.932 13.925 14.442	6.752 7.471 8.581 9.206 10.578 11.181	5.367 6.127 7.093 7.466 9.009 9.502	15.328 15.779 17.783 19.957 20.315 21.596	42.958 44.250 48.149 51.844 53.472 53.347	59.725 59.697 66.303 72.903 73.491 70.969	69.951 68.481 78.306 88.567 90.001 85.556	40.157 42.878 43.320 42.913 41.897 43.019	32.626 34.813 36.998 38.868 41.168 42.557
1970 1971 1972 1973 1974 1975 1976 1977 1978	13.435 13.663 14.689 17.458 18.837 18.718 19.536 20.006 22.115 24.307	12.546 12.497 13.840 17.020 18.371 17.944 18.796 19.042 21.170 23.671	15.729 16.942 16.835 18.025 19.432 20.626 21.236 22.606 24.496 25.250	11.658 12.280 13.662 14.296 13.972 12.419 14.848 16.471 17.898 18.195	9.874 10.702 12.158 13.016 12.654 11.059 13.560 15.213 16.577 16.861	22.722 22.075 23.011 22.235 22.210 21.247 22.714 23.846 25.546 25.897	52.059 50.926 50.556 50.379 51.648 52.812 53.049 53.630 55.210 56.241	65.738 60.677 58.197 55.748 56.243 56.426 56.453 57.647 59.092 60.519	77.800 68.981 63.588 60.061 59.595 59.030 58.828 59.511 60.019 61.845	42.567 44.575 47.722 47.429 49.891 51.594 52.085 54.324 57.700 58.309	43.738 45.077 46.068 47.381 49.164 50.970 51.346 51.532 53.216 53.998
1980 1981 1982 1983 1984 1985 1986 1987 1988 1988	26.925 27.256 25.173 24.524 26.526 27.331 29.429 32.594 37.815 42.161	26.492 26.205 23.837 23.151 24.982 25.903 27.233 30.252 35.953 40.237	26.826 29.683 28.860 28.380 30.911 31.279 35.820 39.390 42.939 47.375	16.987 17.433 17.214 19.386 24.105 25.669 27.863 29.511 30.671 32.022	15.610 15.931 15.531 17.641 21.908 23.279 25.665 26.855 27.943 29.146	25.319 26.778 28.205 30.483 38.126 41.026 41.488 46.378 47.954 50.278	57.337 57.860 58.876 61.027 63.078 67.471 71.573 73.300 74.220 76.240	63.390 66.420 68.989 73.561 75.829 81.771 86.407 89.477 88.010 89.379	64.541 68.628 73.814 79.110 82.971 90.002 95.766 100.301 99.826 99.335	61.573 62.396 59.402 62.471 61.279 64.900 67.130 67.081 63.499 68.795	53.958 52.873 52.898 53.514 55.444 58.879 62.669 63.575 65.933 68.340
1990 1991 1992 1993 1994 1995 1996 1997 1998	45.954 49.005 52.370 54.086 58.802 64.755 70.133 78.490 80.281 83.785	43.623 46.633 50.122 51.756 56.790 63.436 69.031 78.955 80.717 83.788	52.372 55.505 58.496 60.437 64.275 68.316 73.101 77.436 79.303 83.857	33.168 33.118 35.440 38.505 43.098 46.547 50.595 57.409 64.119 71.500	29.995 30.130 32.971 36.270 41.114 44.817 49.018 56.082 62.727 70.549	53.564 52.173 50.768 52.124 54.901 56.556 59.514 64.687 71.721 76.569	78.655 79.514 79.885 79.253 79.245 79.705 80.507 82.020 83.759 86.761	91.185 91.000 89.351 85.842 82.555 80.353 79.423 78.641 77.758 79.270	99.305 98.214 93.351 88.401 84.072 80.936 79.856 77.618 75.978 77.386	74.465 76.170 81.218 80.687 79.525 79.207 78.577 80.737 81.374 83.095	71.112 72.585 74.156 75.244 77.197 79.247 81.090 83.980 87.291 91.179
2000 2001 2002 2003 2004 2005 2006 2007 2007 2008	90.985 85.880 84.160 85.514 93.677 100.000 108.969 119.108 126.376 114.835	93.080 87.318 84.176 85.687 92.995 100.000 109.425 120.090 127.691 112.414	86.102 82.534 84.115 85.107 95.237 100.000 107.935 116.885 123.395 120.204	80.813 78.540 81.213 84.806 94.212 100.000 106.099 108.652 105.733 91.422	80.018 77.464 80.341 84.302 93.637 100.000 105.920 108.674 104.500 88.200	84.955 84.292 85.837 87.474 97.252 100.000 107.059 108.539 112.488 108.740	88.519 91.917 96.192 98.336 99.668 100.000 101.359 102.713 105.381 109.262	79.661 82.901 88.953 94.839 98.710 100.000 102.127 103.399 110.819 117.613	76.986 79.908 85.782 93.243 98.535 100.000 101.588 103.867 111.649 118.311	85.066 88.945 95.357 98.071 99.067 100.000 103.237 102.420 109.081 116.154	93.744 97.236 100.473 100.234 100.000 100.910 102.311 102.310
2010 2011 2012 <i>P</i>	127.623 136.152 140.687	128.479 137.695 143.462	125.805 132.793 134.517	102.832 107.746 110.345	101.309 106.561 108.779	111.507 114.630 119.335	109.955 106.497 104.701	122.883 119.480 116.871	121.829 118.683 114.977	125.049 121.114 120.804	102.711 99.224 97.877
2009: I II IV	111.295 111.460 115.116 121.467	108.374 107.650 112.939 120.692	117.732 119.859 119.966 123.258	91.526 87.652 91.196 95.312	88.241 83.843 87.957 92.760	109.184 107.866 108.625 109.284	106.825 109.307 110.312 110.602	113.639 117.333 119.129 120.352	113.880 118.200 120.387 120.776	113.123 115.522 116.510 119.460	102.992 104.794 105.359 105.128
2010: I II IV	123.231 126.079 129.030 132.151	123.571 127.096 129.877 133.371	122.563 123.912 127.228 129.517	97.689 102.286 105.672 105.680	95.478 100.897 104.287 104.571	109.935 110.262 113.646 112.185	109.727 110.498 110.416 109.179	120.535 123.355 124.468 123.172	119.646 121.776 123.906 121.987	122.357 126.607 125.617 125.614	103.665 103.292 102.544 101.342
2011: I II IV	134.004 135.352 137.379 137.871	135.239 136.464 138.516 140.559	131.342 132.979 134.954 131.896	106.787 106.816 108.037 109.345	105.907 105.723 106.491 108.122	112.023 113.188 116.906 116.402	107.210 106.985 106.189 105.604	119.864 120.681 119.351 118.024	117.354 119.717 120.496 117.163	125.072 122.662 116.929 119.792	100.117 99.317 98.818 98.643
2012: 	139.356 141.152 141.824 140.415	141.961 144.389 144.774 142.724	133.573 133.940 135.259 135.297	110.179 110.936 110.766 109.499	108.652 109.422 109.084 107.956	118.950 119.637 120.394 118.359	104.804 104.622 105.620 103.756	116.751 116.685 119.359 114.688	115.031 114.987 118.518 111.370	120.317 120.205 121.082 121.610	98.103 97.858 97.932 97.615

Table B–7. Chain-type price indexes for gross domestic product, 1964-2012

[Index numbers, 2005=100, except as noted; quarterly data seasonally adjusted]

				onsumption ex	penditures	, notou, quai	,	, ,	nestic investm	nent	
								F	ixed investme	nt	
Year	r or quarter	Gross domestic product	Total	Coodo	Consisso	Total			Nonresidentia	I	
		product	Total	Goods	Services	Total	Total	Total	Structures	Equip- ment and software	Resi- dential
1965 . 1966 . 1967 . 1968 . 1969 .		19.589 19.945 20.511 21.142 22.040 23.130 24.349	19.536 19.819 20.322 20.834 21.645 22.626 23.685	30.013 30.328 30.996 31.542 32.642 33.907 35.200	14.572 14.845 15.276 15.785 16.467 17.324 18.285	26.710 27.136 27.692 28.424 29.485 30.883 32.190 33.794	25.640 26.077 26.626 27.372 28.472 29.877 31.162	34.142 34.532 35.047 35.939 37.203 38.740 40.571	11.801 12.143 12.580 12.973 13.621 14.518	53.952 54.001 54.144 55.344 56.831 58.411 60.560	13.003 13.372 13.857 14.339 15.100 16.144 16.666
1972 . 1973 . 1974 . 1975 . 1976 . 1977 . 1978 .		25.567 26.670 28.148 30.695 33.606 35.535 37.796 40.447 43.811	24.692 25.536 26.913 29.716 32.198 33.966 36.171 38.705 42.137	36.258 37.186 39.404 44.322 47.903 49.777 52.435 55.653 60.916	19.284 20.102 21.077 22.866 24.834 26.556 28.558 30.777 33.350	35.206 37.107 40.797 45.833 48.366 51.994 56.235 61.323	32.731 34.135 36.020 39.568 44.525 47.106 50.803 55.094 60.088	42.479 43.914 45.605 50.008 56.893 60.048 64.157 68.453 74.013	16.664 17.863 19.247 21.910 24.534 25.741 27.973 30.675 34.238	62.360 63.112 64.184 68.917 79.100 83.754 88.730 93.412 99.335	17.632 18.703 20.359 22.460 24.547 26.124 28.759 32.281 35.902
1981 . 1982 . 1983 . 1984 . 1985 . 1986 . 1987 . 1988 .		47.817 52.326 55.514 57.705 59.874 61.686 63.057 64.818 67.047 69.579	46.663 50.833 53.640 55.948 58.065 59.965 61.427 63.618 66.151 69.025	67.737 72.769 74.753 76.102 77.541 78.785 78.417 80.939 83.072 86.268	36.802 40.555 43.709 46.429 48.846 51.049 53.375 55.409 58.123 60.840	67.080 73.422 77.180 76.987 77.538 78.332 80.029 81.561 83.424 85.418	65.710 71.816 75.747 75.628 76.070 77.028 78.870 80.332 82.415 84.410	80.541 88.316 93.181 92.350 92.127 92.850 94.427 95.275 97.392 99.435	37.421 42.567 45.927 44.757 45.147 46.219 47.106 47.863 49.895 51.848	107.819 115.524 120.030 120.284 119.234 119.090 120.976 121.637 123.155 124.695	39.789 43.036 45.340 46.380 47.713 48.944 50.994 53.079 54.913 56.680
1991 . 1992 . 1993 . 1994 . 1995 . 1996 . 1997 . 1998 .		72.274 74.826 76.602 78.288 79.935 81.602 83.154 84.627 85.580 86.840	72.180 74.789 76.989 78.679 80.302 82.078 83.864 85.433 86.246 87.636	89.801 91.996 93.106 93.915 94.870 95.757 96.809 96.696 95.237 95.735	63.808 66.581 69.236 71.294 73.200 75.365 77.473 79.812 81.689 83.509	87.064 88.302 87.993 88.997 90.157 91.173 90.786 90.449 89.435 89.315	86.125 87.404 87.152 88.163 89.352 90.393 90.149 89.921 89.085 89.029	101.339 102.906 102.048 102.100 102.592 102.811 101.612 100.326 98.125 96.704	53.522 54.491 54.502 56.103 58.089 60.601 62.141 64.516 67.480 69.559	126.310 128.112 126.605 125.322 124.604 123.163 120.199 116.639 111.454 108.195	58.011 58.771 59.486 61.890 64.069 66.403 67.828 69.557 71.412 74.151
2000 . 2001 . 2002 . 2003 . 2004 . 2005 . 2006 . 2007 . 2008 . 2009 .		88.724 90.731 92.192 94.134 96.784 100.000 103.237 106.231 108.565 109.532	89.818 91.530 92.778 94.658 97.121 100.000 102.723 105.499 108.943 109.004	97.655 97.563 96.563 96.492 97.929 100.000 101.441 102.764 105.912 103.105	85.818 88.422 90.801 93.686 96.688 100.000 103.414 106.981 110.584 112.157	90.283 91.080 91.451 92.483 95.633 100.000 104.302 106.313 107.501 106.274	90.083 90.888 91.261 92.374 95.543 100.000 104.347 106.360 107.587 106.318	96.750 96.317 95.889 95.471 96.837 100.000 103.425 105.645 107.717 107.102	72.298 76.087 79.292 82.174 88.441 100.000 112.922 119.780 125.706 122.527	106.893 104.364 102.240 100.450 99.900 100.000 100.049 100.525 101.000 101.477	77.415 80.994 83.002 86.953 93.297 100.000 106.081 107.612 106.296 102.713
2011 . 2012 P		111.002 113.369 115.382	111.087 113.790 115.784	104.852 108.822 110.202	114.418 116.435 118.770	104.854 106.439 107.743	105.023 106.680 108.170	105.514 107.359 108.990	121.158 126.850 131.221	99.806 100.445 101.232	102.520 103.406 104.272
2009.	I II III IV	109.526 109.318 109.463 109.820	108.063 108.496 109.315 110.142	101.386 102.455 103.890 104.687	111.614 111.724 112.224 113.065	108.487 106.695 105.130 104.784	108.076 106.579 105.414 105.203	108.975 107.494 106.224 105.714	127.259 123.208 120.038 119.605	102.166 101.799 101.266 100.678	104.065 102.494 101.716 102.576
2010:	l II III IV	110.234 110.686 111.248 111.838	110.642 110.800 111.154 111.751	105.025 104.283 104.540 105.561	113.647 114.282 114.687 115.057	104.474 104.573 104.916 105.453	104.784 104.762 105.061 105.487	105.188 105.304 105.589 105.973	119.968 120.670 121.442 122.552	99.799 99.690 99.797 99.939	102.573 102.064 102.421 103.020
2011:	l Il III IV	112.389 113.109 113.937 114.041	112.640 113.633 114.293 114.593	107.266 108.820 109.633 109.569	115.503 116.193 116.772 117.270	105.786 106.272 106.686 107.013	105.866 106.509 106.992 107.352	106.483 107.174 107.687 108.092	124.097 126.118 127.882 129.302	100.134 100.430 100.562 100.656	102.861 103.300 103.650 103.812
2012:	 V P	114.608 115.050 115.807 116.063	115.300 115.496 115.952 116.389	110.256 109.743 110.261 110.546	117.989 118.576 118.997 119.519	107.292 107.647 107.818 108.214	107.661 107.977 108.324 108.718	108.562 108.878 109.104 109.417	130.167 131.198 131.540 131.978	101.001 101.094 101.282 101.554	103.439 103.754 104.593 105.302

Table B-7. Chain-type price indexes for gross domestic product, 1964-2012—Continued

[Index numbers, 2005=100, except as noted; quarterly data seasonally adjusted]

	Exports ar of go and se	nd imports oods ervices	Go	vernment c and g	onsumptior gross invest	expenditu ment	res	Final	Gross o	lomestic lases ¹	Pen	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
1964	28.128 29.023 29.900 31.045 31.723 32.796	20.526 20.812 21.297 21.379 21.704 22.270	14.070 14.444 15.044 15.671 16.520 17.517	14.995 15.379 15.914 16.386 17.287 18.226	14.620 15.024 15.535 15.994 16.834 17.757	15.798 16.104 16.708 17.215 18.327 19.284	13.293 13.662 14.334 15.137 15.945 17.013	19.440 19.798 20.363 20.996 21.898 22.988	19.191 19.524 20.071 20.654 21.526 22.582		1.6 1.8 2.8 3.1 4.2 4.9	1.6 1.7 2.8 2.9 4.2 4.9	
1970	34.053 35.310 36.956 41.816 51.517 56.781 58.645 61.033 64.752 72.545	23.587 25.035 26.789 31.446 44.989 48.734 50.201 54.624 58.482 68.483	18.945 20.421 21.989 23.594 25.977 28.586 30.469 32.583 34.670 37.575	19.699 21.383 23.471 25.080 27.315 30.158 32.302 34.742 36.888 39.727	19.116 20.810 23.209 24.911 27.223 29.880 32.057 34.486 36.908 39.853	21.143 22.746 23.892 25.231 27.245 30.505 32.549 34.993 36.514 39.100	18.411 19.720 20.896 22.495 24.970 27.410 29.114 31.005 33.042 35.976	24.203 25.415 26.516 27.992 30.519 33.418 35.350 37.614 40.266 43.614	23.798 25.021 26.134 27.647 30.484 33.328 35.238 37.617 40.286 43.833		5.3 5.0 4.3 5.5 9.0 9.5 5.7 6.4 7.0 8.3	5.4 5.1 4.4 5.8 10.3 5.7 6.8 7.1 8.8	
1980	79.903 85.810 86.204 86.544 87.347 84.674 83.406 85.516 89.945 91.443	85.301 89.886 86.855 83.601 82.879 80.157 80.154 85.008 89.074 91.021	41.669 45.768 48.775 50.717 53.319 54.974 55.977 57.541 59.074 60.924	43.900 48.165 51.434 53.218 56.358 57.635 57.938 58.642 59.884 61.504	44.179 48.542 51.953 53.775 57.603 58.696 58.642 59.236 60.326 61.882	42.906 46.917 49.825 51.501 52.779 54.574 55.915 56.953 58.679 60.497	40.002 43.975 46.786 48.857 51.034 53.002 54.577 56.849 58.621 60.654	47.598 52.074 55.280 57.464 59.624 61.466 62.856 64.607 66.865 69.397	48.448 52.909 55.906 57.865 59.904 61.605 63.000 64.978 67.215 69.765	55.408 57.569 59.704 61.577 63.464 65.506 67.900 70.346	9.1 9.4 6.1 3.9 3.8 3.0 2.2 2.8 3.4 3.8	10.5 9.2 5.7 3.5 2.8 2.3 3.1 3.4 3.8	3.9 3.7 3.1 3.1 3.2 3.7 3.6
1990	92.063 93.283 92.904 92.879 93.914 96.070 94.799 93.174 91.042 90.477	93.630 92.848 92.922 92.210 93.075 95.625 93.958 90.691 85.809 86.311	63.405 65.606 67.276 68.949 70.819 72.753 74.488 75.854 76.879 79.337	63.548 66.070 68.101 69.830 71.725 73.717 75.763 77.047 77.931 79.886	63.917 66.222 68.522 69.712 71.438 73.161 75.431 76.517 77.328 79.225	62.568 65.672 67.034 70.002 72.267 74.830 76.406 78.095 79.120 81.188	63.474 65.443 66.856 68.494 70.351 72.252 73.806 75.219 76.320 79.036	72.102 74.655 76.436 78.123 79.775 81.449 83.024 84.522 85.516 86.795	72.601 74.980 76.788 78.404 80.029 81.743 83.220 84.468 85.034 86.377	73.043 75.539 77.520 79.228 80.947 82.722 84.077 85.344 86.171 87.463	3.9 3.5 2.4 2.2 2.1 2.1 1.9 1.8 1.1	4.1 3.3 2.4 2.1 2.1 2.1 1.8 1.5	3.8 3.4 2.6 2.2 2.2 2.2 1.6 1.5 1.0
2000	92.069 91.696 91.322 93.282 96.539 100.000 103.440 106.900 111.975 105.924	90.027 87.824 86.846 89.851 94.164 100.000 104.131 107.785 119.237 106.598	82.513 84.764 87.003 90.650 94.531 100.000 104.842 109.863 115.245 114.592	82.524 84.201 87.318 91.024 95.335 100.000 104.107 107.753 111.225 110.959	81.821 83.484 86.624 90.659 94.895 100.000 104.421 108.249 112.187 111.347	83.907 85.612 88.689 91.774 96.234 100.000 103.468 106.743 109.240 110.177	82.482 85.019 86.810 90.425 94.062 100.000 105.276 111.112 117.666 116.763	88.698 90.709 92.168 94.123 96.774 100.000 103.240 106.238 108.576 109.521	88.537 90.198 91.498 93.584 96.415 100.000 103.354 106.402 109.858 109.620	89.243 90.851 92.384 94.214 96.779 100.000 103.127 105.938 108.719 109.417	2.2 2.3 1.6 2.1 2.8 3.3 3.2 2.9 2.2	2.5 1.9 1.4 2.3 3.0 3.7 3.4 2.9 3.2 2	2.0 1.8 1.7 2.0 2.7 3.3 3.1 2.7 2.6 .6
2010 2011 2012 ^p	110.738 117.860 118.874	112.989 121.851 122.616	117.334 121.233 123.435	113.583 116.721 118.564	113.951 117.411 119.482	112.843 115.337 116.722	119.579 124.001 126.449	110.993 113.371 115.412	111.421 114.208 116.149	110.912 112.995 114.892	1.3 2.1 1.8	1.6 2.5 1.7	1.4 1.9 1.7
2009: I II IV	104.936 104.898 106.187 107.674	102.932 104.547 107.855 111.058	114.342 114.186 114.620 115.220	110.956 110.481 110.897 111.504	111.503 110.875 111.193 111.818	109.847 109.686 110.303 110.871	116.349 116.405 116.852 117.446	109.476 109.294 109.472 109.841	109.188 109.235 109.706 110.350	109.142 109.212 109.401 109.912	1.0 8 .5 1.3	-2.4 .2 1.7 2.4	4 .3 .7 1.9
2010: I II IV	108.972 110.303 110.562 113.117	113.200 112.595 111.726 114.434	116.555 116.916 117.406 118.461	113.016 113.339 113.668 114.309	113.420 113.696 113.947 114.742	112.206 112.624 113.105 113.435	118.654 119.038 119.639 120.985	110.242 110.680 111.238 111.814	110.920 111.110 111.488 112.165	110.403 110.728 111.050 111.466	1.5 1.7 2.0 2.1	2.1 .7 1.4 2.5	1.8 1.2 1.2 1.5
2011: I II III IV	116.123 118.485 118.992 117.839	119.417 123.057 122.466 122.463	119.964 121.168 121.898 121.903	115.696 116.714 117.365 117.111	116.440 117.375 118.047 117.780	114.207 115.384 115.994 115.764	122.565 123.895 124.678 124.866	112.371 113.111 113.948 114.056	113.099 114.067 114.709 114.958	112.079 112.825 113.394 113.682	2.0 2.6 3.0 .4	3.4 3.5 2.3 .9	2.2 2.7 2.0 1.0
2012: I II IV P	118.652 118.802 118.792 119.249	124.156 122.942 120.907 122.458	122.979 123.157 123.574 124.031	118.038 118.403 118.679 119.135	119.008 119.268 119.541 120.111	116.096 116.664 116.948 117.182	126.042 126.089 126.605 127.061	114.628 115.065 115.849 116.104	115.674 115.888 116.298 116.734	114.348 114.745 115.077 115.399	2.0 1.6 2.7 .9	2.5 .7 1.4 1.5	2.4 1.4 1.2 1.1

¹ Gross domestic product (GDP) less exports of goods and services plus imports of goods and services.

² Quarterly percent changes are at annual rates.

Table B-8. Gross domestic product by major type of product, 1964-2012

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

						Goods						
	_	Final	Change		Total		Durable	goods	Nondura	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
1964 1965 1966 1967 1968 1969	663.6 719.1 787.7 832.4 909.8 984.4	658.8 709.9 774.1 822.6 900.8 975.3	4.8 9.2 13.6 9.9 9.1 9.2	277.8 304.3 337.1 345.4 370.8 397.6	273.0 295.1 323.5 335.5 361.7 388.4	4.8 9.2 13.6 9.9 9.1 9.2	119.3 131.6 145.4 150.0 162.8 175.7	3.8 6.2 10.0 4.8 4.5 6.0	153.7 163.5 178.0 185.5 198.9 212.7	1.0 3.0 3.6 5.0 4.5 3.2	307.4 330.1 362.6 397.5 439.1 478.6	78.4 84.7 88.0 89.6 100.0 108.3
1970 1971 1972 1973 1974 1975 1976 1977 1978	1,038.3 1,126.8 1,237.9 1,382.3 1,499.5 1,637.7 1,824.6 2,030.1 2,293.8 2,562.2	1,036.3 1,118.6 1,228.8 1,366.4 1,485.5 1,644.0 1,807.5 2,007.8 2,268.0 2,544.2	2.0 8.3 9.1 15.9 14.0 -6.3 17.1 22.3 25.8 18.0	408.7 432.6 472.0 547.1 588.0 628.6 706.6 773.5 872.6 977.2	406.7 424.4 462.9 531.2 574.0 634.8 689.5 751.2 846.8 959.2	2.0 8.3 9.1 15.9 14.0 -6.3 17.1 22.3 25.8 18.0	178.6 186.7 208.4 243.6 262.4 293.2 330.9 374.6 424.9 483.9	2 2.9 6.4 13.0 10.9 -7.5 10.8 9.5 18.2 12.8	228.2 237.7 254.5 287.6 311.7 341.6 358.6 376.6 422.0 475.3	2.2 5.3 2.7 2.9 3.1 1.2 6.3 12.8 7.6 5.2	519.9 565.8 619.0 672.2 745.8 842.4 926.8 1,029.9 1,147.2 1,271.7	109.7 128.4 146.9 162.9 165.6 166.7 191.2 226.8 273.9 313.3
1980 1981 1982 1983 1984 1985 1986 1987 1988	2,788.1 3,126.8 3,253.2 3,534.6 3,930.9 4,217.5 4,460.1 4,736.4 5,100.4 5,482.1	2,794.5 3,097.0 3,268.1 3,540.4 3,865.5 4,195.6 4,453.5 4,709.2 5,081.9 5,454.5	-6.3 29.8 -14.9 -5.8 65.4 21.8 6.6 27.1 18.5 27.7	1,035.2 1,167.3 1,148.8 1,226.9 1,402.2 1,452.8 1,491.2 1,570.7 1,703.7	1,041.5 1,137.5 1,163.7 1,232.6 1,336.8 1,431.0 1,484.7 1,543.6 1,685.2 1,824.2	-6.3 29.8 -14.9 -5.8 65.4 21.8 6.6 27.1 18.5 27.7	512.3 554.8 552.5 592.3 665.9 727.9 758.3 785.3 863.3 939.7	-2.3 7.3 -16.0 2.5 41.4 4.4 -1.9 22.9 22.7 20.0	529.2 582.6 611.2 640.3 670.9 703.1 726.4 758.3 821.9 884.5	-4.0 22.5 1.1 -8.2 24.0 17.4 8.4 4.2 -4.3 7.7	1,431.6 1,606.9 1,759.9 1,939.1 2,102.9 2,305.9 2,488.7 2,668.0 2,881.7 3,101.2	321.3 352.6 344.5 368.7 425.8 458.7 480.1 497.6 515.0 529.0
1990 1991 1992 1993 1994 1995 1996 1997 1998	5,800.5 5,992.1 6,342.3 6,667.4 7,085.2 7,414.7 7,838.5 8,332.4 8,793.5 9,353.5	5,786.0 5,992.5 6,326.0 6,646.5 7,021.4 7,383.5 7,807.7 8,261.4 8,729.8 9,292.7	14.5 4 16.3 20.8 63.8 31.2 30.8 71.0 63.7 60.8	1,923.1 1,943.5 2,031.5 2,124.2 2,290.7 2,379.5 2,516.3 2,701.2 2,819.2 2,990.1	1,908.5 1,943.9 2,015.1 2,103.4 2,226.9 2,348.3 2,485.5 2,630.2 2,755.5 2,929.3	14.5 16.3 20.8 63.8 31.2 30.8 71.0 63.7 60.8	973.2 967.6 1,010.7 1,072.9 1,149.8 1,225.9 1,321.0 1,430.7 1,524.2 1,633.8	7.7 -13.6 -3.0 17.1 35.7 33.6 19.1 40.0 39.3 37.4	935.3 976.3 1,004.4 1,030.4 1,077.1 1,122.4 1,164.5 1,199.5 1,231.3 1,295.5	6.8 13.2 19.3 3.7 28.1 -2.4 11.7 31.0 24.4 23.4	3,343.9 3,548.6 3,788.1 3,985.1 4,187.2 4,396.7 4,625.5 4,882.5 5,159.7 5,485.1	533.5 499.9 522.7 558.1 607.3 638.5 696.7 748.6 814.5 878.2
2000	9,951.5 10,286.2 10,642.3 11,142.2 11,853.3 12,623.0 13,377.2 14,028.7 14,291.5 13,973.7	9,896.9 10,324.5 10,630.3 11,125.8 11,788.3 12,573.0 13,317.3 13,999.6 14,332.7 14,127.9	54.5 -38.3 12.0 16.4 64.9 50.0 60.0 29.1 -41.1 -154.2	3,124.5 3,077.6 3,101.2 3,170.7 3,333.8 3,475.7 3,663.7 3,844.1 3,758.6 3,614.5	3,070.0 3,115.9 3,089.1 3,154.3 3,268.9 3,425.8 3,603.7 3,815.0 3,799.7 3,768.6	54.5 -38.3 12.0 16.4 64.9 50.0 60.0 29.1 -41.1 -154.2	1,734.4 1,731.5 1,678.9 1,699.3 1,759.3 1,873.8 1,973.4 2,087.3 2,043.1 1,905.3	35.6 -44.4 17.7 13.0 37.3 35.2 25.9 11.2 -23.1 -118.6	1,335.6 1,384.4 1,410.3 1,455.0 1,509.6 1,552.0 1,630.3 1,727.7 1,756.6 1,863.3	19.0 6.2 -5.6 3.3 27.6 14.7 34.0 17.9 -18.0 -35.6	5,878.0 6,208.7 6,535.5 6,891.2 7,304.9 7,783.8 8,260.8 8,751.8 9,174.0 9,245.9	949.0 999.9 1,005.7 1,080.4 1,214.5 1,363.4 1,452.7 1,432.8 1,359.0 1,113.3
2010 2011 2012 ^p 2009: [14,498.9 15,075.7 15,681.5 13,923.4	14,440.6 15,039.0 15,623.8 14.090.2	58.4 36.6 57.7 –166.7	3,921.9 4,184.7 4,458.1 3,554.8	3,863.6 4,148.0 4,400.3 3,721.5	58.4 36.6 57.7 –166.7	1,941.7 2,090.7 2,212.4 1.907.9	42.5 37.6 66.1 -142.6	1,921.9 2,057.3 2,187.9 1.813.6	15.8 -1.0 -8.4 -24.1	9,559.6 9,870.4 10,116.5 9.157.7	1,017.4 1,020.5 1,107.0 1,211.0
II III IV	13,885.4 13,952.2 14,133.6	14,088.1 14,152.7 14,180.5	-202.7 -200.5 -46.8	3,563.1 3,604.5 3,735.5	3,765.7 3,804.9 3,782.3	-202.7 -200.5 -46.8	1,903.4 1,919.3 1,890.6	-150.1 -136.6 -45.0	1,862.3 1,885.6 1,891.7	-52.6 -63.9 -1.8	9,200.1 9,263.8 9,361.9	1,122.2 1,083.9 1,036.2
2010: V	14,270.3 14,413.5 14,576.0 14,735.9	14,237.0 14,371.8 14,466.6 14,686.9	33.2 41.7 109.5 49.0	3,840.1 3,841.3 3,964.4 4,041.9	3,806.9 3,799.6 3,854.9 3,992.9	33.2 41.7 109.5 49.0	1,908.3 1,921.4 1,940.3 1,996.7	28.2 43.7 66.4 31.8	1,898.5 1,878.2 1,914.6 1,996.2	5.0 -2.0 43.1 17.2	9,435.2 9,532.0 9,596.6 9,674.8	994.9 1,040.2 1,015.1 1,019.2
2011: I II IV	14,814.9 15,003.6 15,163.2 15,321.0	14,781.2 14,968.7 15,167.3 15,238.9	33.7 34.8 -4.1 82.1	4,082.9 4,131.2 4,199.2 4,325.3	4,049.2 4,096.4 4,203.3 4,243.2	33.7 34.8 -4.1 82.1	2,024.0 2,067.1 2,117.8 2,154.1	43.0 42.5 32.6 32.4	2,025.3 2,029.3 2,085.5 2,089.2	-9.3 -7.6 -36.7 49.7	9,754.3 9,862.5 9,930.2 9,934.8	977.6 1,009.9 1,033.8 1,060.9
2012: V p	15,478.3 15,585.6 15,811.0 15,851.2	15,405.7 15,530.8 15,728.8 15,829.9	72.6 54.8 82.3 21.3	4,373.5 4,399.3 4,530.0 4,529.4	4,301.0 4,344.5 4,447.7 4,508.1	72.6 54.8 82.3 21.3	2,180.1 2,186.7 2,215.3 2,267.7	59.9 78.8 84.8 40.8	2,120.9 2,157.9 2,232.5 2,240.4	12.7 -24.1 -2.5 -19.5	10,021.0 10,090.9 10,169.3 10,184.7	1,083.7 1,095.4 1,111.8 1,137.1

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, 1964-2012

[Billions of chained (2005) dollars; quarterly data at seasonally adjusted annual rates]

					,	,	Goods	- dajaotoa t				
		Final	Change		Total			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
1964	3,389.4 3,607.0 3,842.1 3,939.2 4,129.9 4,258.2	3,390.8 3,587.6 3,803.4 3,920.0 4,115.8 4,245.0	17.3 32.9 47.1 33.9 30.8 30.3	718.1 778.4 846.0 848.3 882.2 912.6		17.3 32.9 47.1 33.9 30.8 30.3					2,189.6 2,299.2 2,441.1 2,577.0 2,712.9 2,801.0	631.5 663.1 663.9 654.2 694.5 703.3
1970 1971 1972 1973 1973 1974 1975 1976 1977 1978	4,266.3 4,409.5 4,643.8 4,912.8 4,885.7 4,875.4 5,136.9 5,373.1 5,672.8 5,850.1	4,284.3 4,403.6 4,636.7 4,884.0 4,870.0 4,922.1 5,115.9 5,340.3 5,634.9 5,836.2	5.6 25.0 25.7 39.0 29.1 -12.8 34.3 43.1 45.6 28.0	905.0 931.8 995.5 1,101.4 1,090.8 1,063.5 1,147.0 1,202.1 1,282.9 1,335.9		5.6 25.0 25.7 39.0 29.1 -12.8 34.3 43.1 45.6 28.0					2,858.4 2,927.0 3,034.9 3,125.7 3,194.8 3,309.3 3,400.4 3,517.3 3,651.8 3,740.4	673.0 735.5 790.2 807.1 723.4 657.6 719.2 787.2 862.8 887.4
1980	5,834.0 5,982.1 5,865.9 6,130.9 6,571.5 6,843.4 7,080.5 7,307.0 7,607.4 7,879.2	5,873.6 5,954.4 5,918.2 6,167.6 6,490.0 6,833.1 7,092.7 7,289.9 7,601.3 7,860.8	-9.3 39.0 -19.7 -7.7 78.3 25.4 8.5 33.2 21.9 30.6	1,324.2 1,384.0 1,312.8 1,369.5 1,539.3 1,576.1 1,622.2 1,687.5 1,792.5		-9.3 39.0 -19.7 -7.7 78.3 25.4 8.5 33.2 21.9 30.6					3,811.4 3,887.6 3,957.1 4,120.4 4,234.4 4,449.0 4,635.5 4,785.6 4,961.7 5,115.1	823.0 811.9 742.6 796.3 903.9 951.0 965.1 969.3 967.6
1990	8,027.1 8,008.3 8,280.0 8,516.2 8,863.1 9,086.0 9,425.8 9,845.9 10,274.7 10,770.7	8,025.8 8,027.9 8,277.2 8,508.0 8,801.7 9,065.4 9,404.4 9,774.2 10,208.3 10,706.5	16.6 -1.4 17.9 22.3 69.3 32.1 31.2 77.4 71.6 68.5	1,914.2 1,881.9 1,958.7 2,034.1 2,177.1 2,257.1 2,380.4 2,566.0 2,714.7 2,905.1	2,234.2 2,356.6 2,502.1 2,654.8 2,847.0	16.6 -1.4 17.9 22.3 69.3 32.1 31.2 77.4 71.6 68.5	1,017.9 1,105.4 1,216.7 1,334.8 1,469.2	31.4 17.9 40.2 40.6 39.5	1,259.3 1,286.0 1,309.2 1,333.6 1,384.2	-3.3 12.5 36.1 29.5 27.7	5,269.7 5,363.4 5,522.0 5,648.3 5,781.5 5,902.9 6,045.7 6,208.7 6,422.2 6,664.0	941.9 869.1 902.4 930.5 978.4 988.9 1,053.1 1,097.8 1,155.1 1,202.2
2000 2001 2002 2003 2004 2005 2006 2007 2008 2009	11,216.4 11,337.5 11,543.1 11,836.4 12,246.9 12,623.0 12,958.5 13,206.4 13,161.9 12,757.9	11,158.0 11,382.0 11,533.6 11,820.5 12,181.3 12,573.0 12,899.3 13,177.5 13,200.5 12,899.7	60.2 -41.8 12.8 17.3 66.3 50.0 59.4 27.7 -36.3 -139.0	3,046.9 2,997.7 3,049.9 3,160.3 3,324.4 3,475.7 3,659.1 3,819.6 3,789.7 3,569.1	2,993.5 3,034.2 3,038.0 3,142.4 3,259.1 3,425.8 3,599.9 3,792.1 3,834.7 3,726.1	60.2 -41.8 12.8 17.3 66.3 50.0 59.4 27.7 -36.3 -139.0	1,582.7 1,606.7 1,588.8 1,658.0 1,750.4 1,873.8 1,989.5 2,133.1 2,129.9 1,989.3	37.7 -46.4 18.1 13.5 38.1 35.2 25.2 10.8 -21.1 -110.7	1,411.0 1,427.4 1,451.0 1,485.2 1,508.8 1,552.0 1,610.6 1,660.7 1,704.8 1,729.5	21.4 7.3 -6.4 3.6 28.1 14.7 34.1 16.9 -15.5 -30.9	6,919.2 7,095.8 7,276.1 7,415.9 7,598.2 7,783.8 7,961.0 8,131.5 8,216.6 8,221.8	1,245.3 1,254.1 1,223.2 1,263.6 1,325.6 1,363.4 1,341.1 1,267.0 1,169.9 974.5
2010 2011 2012 ^p	13,063.0 13,299.1 13,591.1	13,010.3 13,265.3 13,537.5	50.9 31.0 42.7	3,893.0 4,091.4 4,312.9	3,837.8 4,057.2 4,257.0	50.9 31.0 42.7	2,053.3 2,216.3 2,346.0	38.8 33.2 57.4	1,777.4 1,839.8 1,913.4	13.6 .6 -8.2	8,310.8 8,389.3 8,429.1	893.8 869.8 919.1
2009: I II III IV	12,711.0 12,701.0 12,746.7 12,873.1	12,870.3 12,890.0 12,928.3 12,910.2	-150.2 -185.5 -181.5 -38.8	3,495.5 3,506.4 3,559.6 3,715.0	3,671.8 3,714.7 3,759.9 3,758.1	-150.2 -185.5 -181.5 -38.8	1,983.3 1,981.4 2,011.1 1,981.5	-133.4 -141.1 -126.7 -41.7	1,683.6 1,725.8 1,741.8 1,766.5	-20.4 -47.5 -57.1 1.5	8,179.7 8,216.9 8,231.6 8,259.2	1,035.6 980.6 962.7 919.0
2010: I II IV	12,947.6 13,019.6 13,103.5 13,181.2	12,914.7 12,985.4 13,005.5 13,135.6	30.5 33.2 94.9 45.0	3,839.6 3,829.2 3,923.4 3,979.9	3,806.0 3,794.2 3,818.3 3,932.6	30.5 33.2 94.9 45.0	2,012.5 2,033.0 2,053.3 2,114.2	26.1 40.0 60.0 29.0	1,783.8 1,754.6 1,759.1 1,812.3	5.5 -4.9 36.4 17.3	8,260.3 8,301.5 8,326.5 8,355.0	879.7 917.4 890.6 887.6
2011: I II IV	13,183.8 13,264.7 13,306.9 13,441.0	13,154.4 13,234.1 13,311.2 13,361.4	30.3 27.5 -4.3 70.5	4,017.0 4,050.3 4,071.8 4,226.5	3,987.7 4,019.7 4,079.7 4,141.5	30.3 27.5 -4.3 70.5	2,146.2 2,191.5 2,243.2 2,284.1	38.1 37.4 28.6 28.7	1,835.6 1,826.4 1,837.7 1,859.7	-4.5 -6.1 -28.2 41.3	8,366.2 8,396.9 8,407.3 8,386.6	846.1 864.7 876.4 891.8
2012: I II IV P	13,506.4 13,548.5 13,652.5 13,656.8	13,440.1 13,497.9 13,577.4 13,634.7	56.9 41.4 60.3 12.0	4,266.9 4,281.0 4,345.2 4,358.3	4,196.8 4,228.4 4,265.4 4,337.5	56.9 41.4 60.3 12.0	2,310.5 2,314.8 2,348.9 2,409.8	52.0 68.2 73.8 35.5	1,887.9 1,913.2 1,918.5 1,933.8	9.5 -18.6 -5.5 -18.0	8,398.7 8,423.3 8,459.2 8,435.4	907.8 911.5 920.2 936.8

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-10. Gross value added by sector, 1964-2012

[Billions of 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
1964	663.6 719.1 787.7 832.4 909.8 984.4	524.9 570.7 624.3 653.6 713.5 769.1	507.5 550.7 603.5 633.5 693.0 746.3	17.3 19.9 20.8 20.1 20.5 22.8	57.7 61.8 66.6 71.8 77.5 85.4	41.2 43.6 46.2 49.1 51.9 56.0	16.5 18.2 20.4 22.7 25.6 29.4	81.1 86.6 96.8 107.0 118.8 130.0	40.7 42.4 47.2 51.5 56.3 59.9	40.4 44.2 49.6 55.5 62.5 70.0	51.6 54.9 58.2 62.1 65.9 71.3
1970 1971 1972 1973 1974 1975 1976 1977 1978	1,038.3 1,126.8 1,237.9 1,382.3 1,499.5 1,637.7 1,824.6 2,030.1 2,293.8 2,562.2	802.2 868.3 957.1 1,077.4 1,164.5 1,265.8 1,420.7 1,590.0 1,809.4 2,028.5	778.5 842.9 927.5 1,030.6 1,120.3 1,220.1 1,377.7 1,546.5 1,758.7	23.7 25.4 29.7 46.8 44.2 45.6 43.0 43.5 50.7 60.1	92.6 102.2 111.4 121.7 133.6 147.5 160.5 175.5 196.9 220.8	59.8 65.5 70.8 76.5 83.0 90.8 98.7 107.9 121.3 136.0	32.8 36.7 40.5 45.2 50.6 56.7 61.8 67.6 75.6 84.8	143.5 156.4 169.4 183.2 201.3 224.5 243.5 264.6 287.5 313.0	64.0 67.7 71.5 73.9 79.6 87.3 93.8 102.0 109.7 117.6	79.5 88.6 97.9 109.3 121.8 137.2 149.7 162.6 177.8 195.4	76.7 83.9 91.1 98.3 106.8 117.2 126.6 140.5 155.5
1980 1981 1982 1983 1984 1985 1986 1986 1987	2,788.1 3,126.8 3,253.2 3,534.6 3,930.9 4,217.5 4,460.1 4,736.4 5,100.4 5,482.1	2,186.1 2,454.0 2,514.9 2,741.1 3,065.5 3,283.9 3,461.5 3,662.0 3,940.2 4,235.7	2,134.7 2,389.0 2,454.5 2,696.2 3,001.3 3,220.5 3,402.1 3,600.5 3,879.4 4,162.0	51.4 65.0 60.4 44.9 64.2 63.4 59.5 61.5 60.7 73.8	253.5 287.5 319.3 348.2 380.3 410.1 442.3 482.8 529.7 574.2	156.5 177.8 196.7 212.5 231.0 250.3 268.0 288.0 313.1 337.2	97.0 109.7 122.7 135.6 149.3 159.8 174.3 194.8 216.6 237.0	348.5 385.3 419.0 445.4 485.1 523.4 556.3 591.5 630.6 672.2	131.2 147.4 161.2 171.2 192.1 205.0 212.6 223.3 234.8 246.4	217.3 237.9 257.7 274.1 293.1 318.4 343.7 368.2 395.8 425.8	199.8 228.8 255.7 277.7 301.3 333.1 359.7 385.5 415.3 443.4
1990 1991 1992 1993 1994 1995 1996 1997 1997	5,800.5 5,992.1 6,342.3 6,667.4 7,085.2 7,414.7 7,838.5 8,332.4 8,793.5 9,353.5	4,453.9 4,558.6 4,829.2 5,084.1 5,425.2 5,677.8 6,030.2 6,442.8 6,810.8 7,249.0	4,376.6 4,488.0 4,748.9 5,012.7 5,341.3 5,608.7 5,936.9 6,354.9 6,731.6 7,177.8	77.3 70.6 80.4 71.4 83.9 69.1 93.3 87.9 79.2 71.2	624.0 665.9 711.1 752.1 800.0 852.1 897.0 949.2 1,010.1 1,082.9	363.3 383.7 405.3 428.3 461.3 492.2 519.8 550.9 583.9 628.4	260.6 282.2 305.9 323.8 338.7 359.9 377.2 398.3 426.3 454.5	722.7 767.6 801.9 831.2 859.9 884.8 911.3 940.3 972.5 1,021.6	258.8 274.8 282.0 285.2 285.2 283.6 287.6 290.0 292.2 300.4	463.9 492.8 519.9 546.0 574.7 601.2 623.7 650.3 680.3 721.2	477.8 508.1 538.6 562.9 602.6 640.7 671.3 708.6 745.3 798.3
2000 2001 2002 2003 2004 2005 2006 2007 2008	9,951.5 10,286.2 10,642.3 11,142.2 11,853.3 12,623.0 13,377.2 14,028.7 14,291.5 13,973.7	7,715.5 7,913.6 8,132.8 8,502.8 9,070.1 9,680.1 10,262.4 10,738.3 10,787.8	7,641.9 7,837.4 8,060.5 8,410.4 8,951.9 9,578.0 10,169.4 10,623.4 10,657.4 10,253.7	73.6 76.2 72.3 92.4 118.3 102.0 93.1 114.9 130.5 113.2	1,157.2 1,232.9 1,298.0 1,347.2 1,423.8 1,506.4 1,602.9 1,685.8 1,805.7 1,844.9	673.5 719.5 746.0 762.7 806.0 864.4 924.8 968.1 1,042.8 1,048.3	483.7 513.4 552.1 584.5 617.7 642.0 678.1 717.8 762.9 796.5	1,078.8 1,139.6 1,211.4 1,292.2 1,359.3 1,436.5 1,512.0 1,604.6 1,698.0 1,761.9	315.1 324.9 351.8 382.9 412.0 438.7 460.6 486.0 517.7 553.2	763.7 814.7 859.6 909.3 947.3 997.7 1,051.3 1,118.6 1,180.3	849.9 904.4 932.5 938.2 988.7 1,054.0 1,130.8 1,200.6 1,299.7 1,322.4
2010	14,498.9 15,075.7 15,681.5 13,923.4 13,885.4 13,952.2	10,836.0 11,341.2 11,880.2 10,341.7 10,282.6 10,339.1	10,711.2 11,202.5 11,747.0 10,236.6 10,171.1 10,224.9	124.8 138.7 133.2 105.1 111.5 114.2	1,851.2 1,892.1 1,928.5 1,836.6 1,843.4 1,846.3	1,038.5 1,055.2 1,066.1 1,054.1 1,047.6 1,048.0	812.7 836.9 862.4 782.6 795.8 798.3	1,811.7 1,842.4 1,872.9 1,745.1 1,759.4 1,766.9	589.2 607.0 616.7 543.5 550.9 556.2	1,222.5 1,235.4 1,256.2 1,201.6 1,208.5 1,210.7	1,322.0 1,352.0 1,375.4 1,323.8 1,321.1 1,323.8
2010: IIIIIIIV	14,133.6 14,270.3 14,413.5 14,576.0 14,735.9	10,504.4 10,619.7 10,742.3 10,912.5 11,069.5	10,382.3 10,498.8 10,618.7 10,787.5 10,939.8	122.1 120.9 123.6 124.9 129.6	1,853.1 1,852.4 1,857.3 1,849.4 1,845.9	1,043.6 1,049.1 1,047.1 1,029.4 1,028.6	809.5 803.3 810.2 820.0 817.3	1,776.1 1,798.1 1,814.0 1,814.2 1,820.5	562.3 581.1 592.1 590.7 593.1	1,213.8 1,217.0 1,221.9 1,223.6 1,227.4	1,321.1 1,331.1 1,330.8 1,312.8 1,313.4
2011: I	14,814.9 15,003.6 15,163.2 15,321.0	11,108.7 11,272.8 11,417.6 11,565.7	10,969.4 11,137.1 11,277.5 11,426.0	139.3 135.6 140.1 139.7	1,874.9 1,889.5 1,896.8 1,907.1	1,045.9 1,055.2 1,056.9 1,062.9	829.0 834.3 839.9 844.2	1,831.3 1,841.3 1,848.8 1,848.2	601.4 606.0 610.0 610.5	1,229.9 1,235.3 1,238.7 1,237.8	1,337.0 1,350.9 1,355.4 1,364.6
2012: I II IV P	15,478.3 15,585.6 15,811.0 15,851.2	11,693.0 11,793.3 12,006.8 12,027.5	11,555.7 11,662.7 11,876.7 11,892.9	137.3 130.6 130.1 134.6	1,923.7 1,923.7 1,926.3 1,940.3	1,066.4 1,065.8 1,062.9 1,069.5	857.4 858.0 863.4 870.8	1,861.5 1,868.5 1,878.0 1,883.4	613.9 615.7 617.6 619.5	1,247.6 1,252.8 1,260.3 1,264.0	1,371.5 1,373.1 1,373.1 1,383.8

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 trenant-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, 1964-2012

[Billions of chained (2005) dollars; quarterly data at seasonally adjusted annual rates]

		Business ¹				olds and ins	titutions		eral governme	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
1964 1965 1966 1967 1968	3,389.4 3,607.0 3,842.1 3,939.2 4,129.9 4,258.2	2,325.4 2,489.6 2,658.0 2,708.9 2,843.7 2,930.7	2,297.1 2,459.8 2,635.6 2,681.0 2,821.6 2,907.6	24.9 26.5 25.5 27.6 26.6 27.5	399.9 419.7 438.9 457.1 480.1 501.2	236.0 246.9 256.8 267.1 274.6 285.9	159.4 168.6 178.5 186.6 204.9 214.9	768.4 794.2 843.9 888.7 923.6 947.2	400.7 403.4 429.9 457.9 465.7 467.1	377.5 400.5 424.2 442.1 468.6 490.0	291.6 307.1 320.9 335.6 348.3 364.6
1970 1971 1972 1973 1974 1975 1976 1977 1977 1978	4,266.3 4,409.5 4,643.8 4,912.8 4,885.7 4,875.4 5,136.9 5,373.1 5,672.8 5,850.1	2,930.0 3,042.6 3,238.5 3,465.5 3,413.7 3,381.8 3,605.2 3,805.8 4,045.6 4,179.9	2,904.4 3,014.8 3,215.2 3,450.9 3,400.3 3,344.8 3,579.3 3,778.7 4,027.9 4,155.0	28.3 29.8 29.8 29.5 28.8 34.3 32.7 34.5 33.3 36.3	510.2 531.7 554.8 574.6 597.7 617.9 628.2 637.5 666.4 695.3	292.6 305.9 319.1 330.6 345.0 354.2 360.9 365.0 387.4 405.0	216.7 224.5 234.4 242.7 251.0 262.5 265.8 271.3 276.7 287.8	950.8 952.4 950.6 954.9 974.4 990.1 998.7 1,009.2 1,028.5 1,039.5	447.1 426.5 405.8 390.7 389.4 387.3 387.9 389.0 393.9 393.5	511.7 532.5 550.9 570.2 590.9 608.9 616.9 626.4 641.0 652.4	376.6 393.6 412.5 427.8 448.5 462.2 469.3 481.2 503.2 523.0
1980 1981 1982 1983 1984 1985 1986 1987 1988	5,834.0 5,982.1 5,865.9 6,130.9 6,571.5 6,843.4 7,080.5 7,307.0 7,607.4 7,879.2	4,132.8 4,247.7 4,119.1 4,341.0 4,717.9 4,937.0 5,121.2 5,289.8 5,516.6 5,720.9	4,110.3 4,197.8 4,062.4 4,323.6 4,679.3 4,880.9 5,070.4 5,239.3 5,478.3 5,671.7	35.2 46.5 48.8 31.9 43.3 52.9 50.8 51.3 45.6 52.3	730.9 754.1 778.9 801.0 826.8 841.2 863.4 895.8 937.2 974.8	430.6 444.1 452.1 460.5 476.4 487.4 493.7 506.8 525.7 542.0	297.1 306.8 324.3 338.5 348.3 351.2 368.0 411.1 432.9	1,054.4 1,060.2 1,071.0 1,077.9 1,091.3 1,122.5 1,150.1 1,175.3 1,205.8 1,234.6	399.7 405.9 412.5 422.0 431.6 443.9 451.8 463.6 469.3 475.1	661.2 660.9 665.2 662.5 666.4 685.6 705.4 719.0 743.6 766.4	555.0 576.7 592.3 605.4 624.6 649.1 661.1 676.8 696.4 712.2
1990	8,027.1 8,008.3 8,280.0 8,516.2 8,863.1 9,086.0 9,425.8 9,845.9 10,274.7 10,770.7	5,808.8 5,757.9 5,985.1 6,178.1 6,481.0 6,663.3 6,966.8 7,327.5 7,693.8 8,123.7	5,753.4 5,700.5 5,914.6 6,121.3 6,407.0 6,610.4 6,901.6 7,253.2 7,624.8 8,051.5	56.0 56.9 66.2 57.8 70.5 56.4 65.3 72.5 69.4 72.8	1,009.6 1,038.5 1,071.4 1,106.9 1,140.0 1,175.5 1,199.8 1,240.5 1,280.2 1,325.5	555.7 572.0 589.0 603.5 631.9 651.3 665.4 687.6 703.7 740.3	454.9 467.4 483.5 504.9 508.7 524.8 535.0 553.5 577.8 585.3	1,266.2 1,279.4 1,283.7 1,286.5 1,286.8 1,287.7 1,289.8 1,299.6 1,314.3 1,326.3	483.8 486.7 476.5 467.4 452.2 435.1 423.2 415.2 410.4 407.1	789.2 799.4 813.0 824.2 838.5 855.1 868.4 885.6 904.6 919.5	730.2 754.6 776.7 789.1 821.7 846.9 860.4 885.6 900.9 942.3
2000	11,216.4 11,337.5 11,543.1 11,836.4 12,246.9 12,623.0 12,958.5 13,206.4 13,161.9 12,757.9	8,491.4 8,559.5 8,726.8 9,001.6 9,363.0 9,680.1 9,974.0 10,172.5 10,038.4 9,604.7	8,408.3 8,482.3 8,646.1 8,910.5 9,265.1 9,578.0 9,874.6 10,082.1 9,934.2 9,484.7	83.5 77.7 81.2 91.6 97.9 102.0 99.1 90.3 101.7 117.5	1,376.2 1,407.0 1,417.3 1,417.8 1,457.4 1,506.4 1,539.8 1,571.9 1,628.6 1,621.5	774.1 793.1 789.9 787.1 821.7 864.4 898.0 914.2 954.8 943.0	601.8 613.4 627.7 631.1 635.9 642.0 657.8 674.2 678.6	1,349.4 1,373.7 1,401.4 1,418.2 1,426.8 1,436.5 1,445.0 1,462.5 1,492.3 1,522.4	410.5 412.1 420.2 431.5 435.8 438.7 438.4 441.8 459.0 486.0	939.0 961.3 980.9 986.7 991.0 997.7 1,006.5 1,020.8 1,033.3 1,036.7	977.8 997.8 988.5 969.3 1,008.4 1,054.0 1,098.6 1,132.4 1,183.9 1,181.8
2010	13,063.0 13,299.1 13,591.1 12,711.0 12,701.0 12,746.7 12,873.1	9,888.9 10,123.4 10,425.4 9,608.5 9,553.4 9,570.8 9,686.1	9,774.2 10,032.3 10,340.4 9,496.8 9,436.3 9,442.3 9,563.4	111.7 91.9 87.9 108.4 114.4 127.3 120.1	1,634.8 1,647.7 1,646.4 1,584.2 1,614.2 1,639.9 1,647.8	948.0 948.2 933.6 947.8 938.8 941.7 943.5	686.7 698.8 711.3 638.0 675.2 697.6 703.6	1,532.7 1,524.7 1,519.8 1,511.6 1,523.3 1,525.1 1,529.5	503.8 507.8 505.5 475.1 485.7 489.8 493.4	1,029.5 1,017.7 1,015.0 1,036.7 1,037.9 1,035.7 1,036.6	1,196.3 1,203.5 1,192.4 1,182.7 1,176.4 1,182.0 1,186.2
2010: I II IV	12,947.6 13,019.6 13,103.5 13,181.2	9,759.3 9,828.9 9,942.0 10,025.4	9,641.2 9,707.1 9,827.5 9,921.0	115.0 118.6 111.1 102.0	1,648.3 1,644.1 1,624.7 1,622.2	954.2 958.2 942.1 937.6	693.9 686.2 682.4 684.3	1,531.3 1,538.7 1,531.5 1,529.4	498.7 507.2 504.4 505.0	1,033.2 1,032.1 1,027.7 1,025.1	1,201.3 1,206.9 1,190.5 1,186.5
2011: I II IV	13,183.8 13,264.7 13,306.9 13,441.0	10,014.0 10,086.5 10,129.3 10,263.6	9,917.9 10,000.8 10,040.5 10,169.9	95.4 87.9 90.3 94.2	1,636.8 1,648.5 1,652.1 1,653.6	946.9 951.3 948.4 946.2	689.6 696.7 702.8 706.3	1,528.4 1,525.9 1,522.4 1,522.1	507.2 507.8 507.5 508.6	1,021.9 1,018.8 1,015.6 1,014.3	1,199.7 1,207.1 1,204.6 1,202.6
2012: I II IV P	13,506.4 13,548.5 13,652.5 13,656.8	10,332.0 10,381.9 10,489.8 10,498.0	10,237.4 10,290.7 10,409.9 10,423.5	95.0 92.5 84.0 80.2	1,652.4 1,648.1 1,643.5 1,641.6	941.5 936.5 930.4 926.0	709.7 710.2 711.5 713.8	1,521.2 1,518.5 1,520.5 1,518.8	507.4 505.6 504.8 504.2	1,014.6 1,013.7 1,016.4 1,015.3	1,199.0 1,194.8 1,189.4 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.
 Zequals 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-12. Gross domestic product (GDP) by industry, value added, in current dollars and as a percentage of GDP, 1981-2011

[Billions of dollars; except as noted]

						Privato i	ndustries				
			A								
Year	Gross domestic product	Total private industries	Agricul- ture, forestry, fishing, and hunting	Mining	Con- struc- tion	Total manufac- turing	Manufacturino Durable goods	Non- durable goods	Utilities	Wholesale trade	Retail trade
						Value added					
1981 1982 1983 1984 1985 1986 1987 1988 1989	3,126.8 3,253.2 3,534.6 3,930.9 4,217.5 4,460.1 4,736.4 5,100.4 5,482.1	2,701.6 2,791.4 3,041.7 3,393.0 3,634.6 3,840.4 4,077.9 4,395.3 4,729.7	75.6 71.6 57.2 77.0 76.6 73.7 78.8 78.1 91.6	121.5 118.5 102.8 107.2 106.2 70.3 73.1 74.1 78.6	133.1 131.0 139.6 160.7 177.0 197.2 210.1 226.5 238.6	619.6 606.5 657.5 731.8 751.4 777.4 823.1 900.2 950.2	376.2 359.2 385.5 451.0 458.6 468.4 492.5 537.9 562.4	243.4 247.3 272.0 280.7 292.8 308.9 330.6 362.2 387.7	72.0 83.2 94.4 105.7 113.0 117.5 125.8 125.1 138.2	206.2 206.6 222.4 249.8 269.2 279.3 285.6 314.3 335.7	218.0 226.9 255.3 286.8 309.1 331.4 345.7 366.8 390.7
1990 1991 1992 1993 1994 1996 1997 1998	5,800.5 5,992.1 6,342.3 6,667.4 7,085.2 7,414.7 7,838.5 8,332.4 8,793.5 9,353.5	4,994.3 5,133.2 5,442.0 5,735.9 6,119.9 6,420.0 6,812.6 7,271.0 7,694.4 8,199.6	95.7 88.3 99.3 90.6 105.6 91.3 114.2 108.4 100.3 92.8	88.4 79.5 73.6 74.4 75.9 76.7 90.0 94.8 81.0 82.0	243.6 228.8 233.2 250.4 277.2 294.2 320.9 346.7 383.7 428.4	968.9 976.7 1,016.7 1,058.9 1,127.3 1,180.9 1,208.5 1,277.3 1,326.7	558.9 554.2 574.5 603.0 650.2 675.4 705.0 748.9 781.2 802.4	410.1 422.5 442.2 456.0 477.1 505.5 503.5 528.3 545.6 565.6	145.5 153.8 159.7 164.3 171.2 175.3 173.4 169.9 165.1 172.7	347.7 362.6 380.1 402.5 444.5 460.2 492.5 524.9 557.3 579.1	400.4 407.9 430.0 462.9 500.5 525.0 556.8 589.9 626.9 653.4
2000	9,951.5 10,286.2 10,642.3 11,142.2 11,853.3 12,623.0 13,377.2 14,028.7 14,291.5 13,973.7	8,736.1 9,010.8 9,289.3 9,706.9 10,345.6 11,037.1 11,709.4 12,268.8 12,437.1 12,056.7	95.6 98.6 94.4 115.5 142.7 127.1 122.5 144.5 159.4 142.4	108.9 119.3 109.5 134.9 159.3 192.3 229.8 254.5 319.2 221.7	467.3 490.5 494.3 516.1 554.2 612.5 651.0 653.0 614.2 542.9	1,415.6 1,343.9 1,355.5 1,374.3 1,482.7 1,569.3 1,648.4 1,628.5 1,540.1	839.1 758.8 767.8 766.4 822.0 878.3 921.3 939.9 904.1 787.0	576.5 585.2 587.8 607.9 660.6 691.0 727.1 758.1 724.4 753.2	173.9 177.6 181.0 192.0 208.0 205.9 236.0 248.6 257.7 264.7	617.7 613.3 614.9 638.1 684.2 725.5 769.7 816.7 824.1 766.3	686.2 703.9 731.2 769.5 795.1 837.6 875.8 887.9 848.6 846.8
2010 2011	14,498.9 15,075.7	12,532.3 13,081.8	157.6 173.5	251.9 289.9	523.3 529.5	1,630.5 1,731.5	866.7 910.1	763.8 821.3	284.5 297.9	799.0 845.1	876.0 905.7
	Percent				Industry value	e added as a p	ercentage of	GDP (percent)		
1981 1982 1983 1984 1985 1986 1987 1988 1989	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	86.4 85.8 86.1 86.3 86.2 86.1 86.1 86.2 86.3	2.4 2.2 1.6 2.0 1.8 1.7 1.7 1.5 1.7	3.9 3.6 2.9 2.7 2.5 1.6 1.5 1.4	4.3 4.0 3.9 4.1 4.2 4.4 4.4 4.4 4.4	19.8 18.6 18.6 18.6 17.8 17.4 17.6 17.3	12.0 11.0 10.9 11.5 10.9 10.5 10.4 10.5 10.3	7.8 7.6 7.7 7.1 6.9 6.9 7.0 7.1 7.1	2.3 2.6 2.7 2.7 2.7 2.6 2.7 2.5 2.5	6.6 6.4 6.3 6.4 6.3 6.0 6.2 6.1	7.0 7.0 7.2 7.3 7.3 7.4 7.3 7.2 7.1 6.9
1991 1992 1993 1994 1996 1997 1998	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	85.7 85.8 86.0 86.4 86.6 86.9 87.3 87.5 87.7	1.5 1.6 1.4 1.5 1.2 1.5 1.3 1.1	1.3 1.2 1.1 1.1 1.0 1.1 1.1 .9	3.8 3.7 3.8 3.9 4.0 4.1 4.2 4.4 4.6	16.3 16.0 15.9 15.9 15.4 15.3 15.1	9.2 9.1 9.0 9.2 9.1 9.0 9.0 8.9 8.6	7.1 7.0 6.8 6.7 6.8 6.4 6.3 6.2 6.0	2.6 2.5 2.5 2.4 2.4 2.2 2.0 1.9	6.1 6.0 6.0 6.3 6.2 6.3 6.3 6.3 6.3	6.8 6.9 7.1 7.1 7.1 7.1 7.1 7.0
2000	100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0	87.8 87.6 87.3 87.1 87.3 87.4 87.5 87.5 87.0 86.3	1.0 1.0 9 1.0 1.2 1.0 9 1.0 1.1	1.1 1.2 1.0 1.2 1.3 1.5 1.7 1.8 2.2 1.6	4.7 4.8 4.6 4.6 4.7 4.9 4.9 4.7 4.3 3.9	14.2 13.1 12.7 12.3 12.5 12.4 12.3 12.1 11.4 11.0	8.4 7.4 7.2 6.9 6.9 7.0 6.9 6.7 6.3 5.6	5.8 5.7 5.5 5.5 5.5 5.4 5.4 5.1 5.4	1.7 1.7 1.7 1.7 1.8 1.6 1.8 1.8 1.9 2.0	6.2 6.0 5.8 5.7 5.8 5.7 5.8 5.8 5.8 5.5	6.9 6.8 6.9 6.7 6.6 6.5 6.3 5.9 6.1
2011	100.0	86.8	1.2	1.9	3.5	11.5	6.0	5.4	2.0	5.6	6.0

 $[\]begin{tabular}{ll} 1 Consists of agriculture, forestry, fishing, and hunting; mining; construction; and manufacturing. \end{tabular}$

Note: Data shown in Tables B–12 and B–13 are consistent with the 2012 annual revision of the industry accounts released in December 2012. For details see Survey of Current Business, December 2012.

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-12. Gross domestic product (GDP) by industry, value added, in current dollars and as a percentage of GDP, 1981-2011-Continued

[Billions of dollars; except as noted]

Year	Transpor- tation and ware-	Information	Finance, insurance, real estate, rental, and	Profes- sional and business	Educational services, health care, and social	Arts, entertain- ment, recreation, accommo- dation,	Other services, except government	Government	Private goods- producing industries ¹	Private services- producing industries ²
	housing		leasing	services	assistance	and food services	government			
					Value	added				
1981 1982 1983 1984	110.1 106.3 118.0 131.4	123.5 135.3 152.5 160.0	502.8 544.7 611.6 677.5	197.3 213.2 242.4 280.9	152.9 169.2 189.7 207.1	92.9 100.0 111.5 120.8	76.0 78.3 86.8 96.3	425.2 461.8 492.9 537.9	949.9 927.7 957.1 1,076.7	1,751.7 1,863.7 2,084.6 2,316.3
1985 1986 1987 1988 1989	137.1 147.0 152.6 161.4 166.3	176.4 185.6 197.4 205.4 222.4	739.4 804.0 850.3 915.7 981.0	316.3 352.4 384.5 424.3 470.4	225.4 245.2 277.7 301.5 337.4	132.0 144.0 152.3 168.8 184.0	105.3 115.3 121.1 133.0 144.8	582.9 619.7 658.4 705.1 752.4	1,111.2 1,118.6 1,185.0 1,278.8 1,358.9	2,523.4 2,721.8 2,892.9 3,116.5 3,370.8
1990 1991 1992 1993 1994	172.8 182.3 192.0 206.4 223.7	235.6 244.3 260.5 279.6 299.4	1,049.2 1,109.8 1,192.1 1,259.3 1,321.6	516.5 524.0 566.6 600.9 639.7	376.7 413.4 452.9 476.4 500.2	199.6 205.9 219.0 230.9 242.3	153.9 155.9 166.3 178.3 190.7	806.2 858.9 900.3 931.4 965.3	1,396.5 1,373.2 1,422.8 1,474.3 1,586.1	3,597.7 3,760.0 4,019.2 4,261.6 4,533.8
1995 1996 1997 1998	231.7 231.7 241.3 261.8 275.6 287.1	311.5 338.6 349.4 386.1 438.5	1,405.7 1,490.3 1,610.6 1,696.8 1,834.0	687.3 756.5 842.1 927.0 1,010.2	523.9 545.4 571.4 601.2 638.5	255.3 272.8 300.3 321.1 355.4	200.7 211.2 223.8 245.6 259.3	994.6 1,025.9 1,061.3 1,099.1 1,153.9	1,643.1 1,733.6 1,827.2 1,891.7 1,971.3	4,776.9 5,079.0 5,443.8 5,802.7 6,228.3
2000 2001 2002 2003	301.4 302.6 302.4 319.8	417.8 451.1 499.7 506.6	1,997.7 2,154.8 2,222.3 2,316.5	1,116.8 1,170.7 1,198.3 1,260.0	678.0 729.2 789.8 847.1	381.6 391.2 411.1 427.8	277.6 264.2 285.0 288.8	1,215.4 1,275.4 1,353.0 1,435.3	2,087.4 2,052.3 2,053.7 2,140.8	6,648.7 6,958.5 7,235.6 7,566.1 8,006.6
2004 2005 2006 2007 2008	347.0 369.5 394.0 404.9 415.0 396.6	558.8 586.5 590.6 635.5 636.8 604.8	2,400.4 2,598.8 2,765.3 2,857.0 2,916.6	1,347.5 1,460.2 1,567.2 1,697.6 1,783.2	906.1 953.5 1,015.3 1,076.9 1,153.9	458.7 485.4 512.4 549.0 537.3	300.8 313.0 331.6 343.8 342.7 344.4	1,507.7 1,585.9 1,667.8 1,759.9 1,854.4	2,338.9 2,501.2 2,651.6 2,750.9 2,721.2	8,535.8 9,057.8 9,517.9 9,715.9
2009 2010 2011	422.6 447.9	612.2 646.6	2,941.8 3,021.8 3,058.1	1,693.2 1,769.6 1,883.9	1,225.6 1,269.2 1,311.1	525.4 558.0 591.1	356.0 369.9	1,917.0 1,966.6 1,993.8	2,447.1 2,563.4 2,724.4	9,609.6 9,968.9 10,357.4
		2.5.5	2,000		ue added as a p			1,20010	_,	
1981	3.5 3.3 3.3 3.3 3.3 3.2 3.2 3.2	4.0 4.2 4.3 4.1 4.2 4.2 4.2 4.0 4.1	16.1 16.7 17.3 17.2 17.5 18.0 18.0 18.0	6.3 6.6 6.9 7.1 7.5 7.9 8.1 8.3	4.9 5.2 5.4 5.3 5.5 5.9 6.2	3.0 3.1 3.2 3.1 3.1 3.2 3.2 3.3 3.3	2.4 2.4 2.5 2.4 2.5 2.6 2.6 2.6 2.6	13.6 14.2 13.9 13.7 13.8 13.9 13.9 13.8 13.7	30.4 28.5 27.1 27.4 26.3 25.1 25.0 25.1 24.8	56.0 57.3 59.0 58.9 59.8 61.0 61.1 61.1
1990	3.0 3.0 3.1 3.2 3.1 3.1 3.1	4.1 4.1 4.2 4.2 4.2 4.3 4.4	18.1 18.5 18.8 18.9 18.7 19.0 19.3 19.3	8.9 8.7 8.9 9.0 9.3 9.7 10.1 10.5	6.5 6.9 7.1 7.1 7.1 7.0 6.9 6.8	3.4 3.5 3.5 3.4 3.4 3.5 3.6 3.7	2.7 2.6 2.6 2.7 2.7 2.7 2.7 2.7 2.8	13.9 14.3 14.2 14.0 13.6 13.4 13.1 12.7 12.5	24.1 22.9 22.4 22.1 22.4 22.2 22.1 21.9 21.5	62.0 62.8 63.4 63.9 64.0 64.4 64.8 65.3 66.0
1999	3.1 3.0 2.9 2.8 2.9 2.9 2.9 2.9 2.9 2.9 2.9	4.7 4.2 4.4 4.7 4.5 4.7 4.6 4.4 4.5 4.3	19.6 20.1 20.9 20.9 20.8 20.3 20.6 20.7 20.4 20.4 21.1	10.8 11.2 11.4 11.3 11.3 11.4 11.6 11.7 12.1 12.5	6.8 6.8 7.1 7.4 7.6 7.6 7.6 7.7 8.1 8.8	3.8 3.8 3.9 3.8 3.9 3.8 3.9 3.8 3.9 3.8	2.8 2.8 2.6 2.7 2.6 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	12.3 12.2 12.4 12.7 12.9 12.7 12.6 12.5 13.0 13.7	21.1 21.0 20.0 19.3 19.2 19.7 19.8 19.8 19.6 19.0	66.6 66.8 67.6 68.0 67.9 67.5 67.6 67.7 67.8 68.0 68.8
2010 2011	2.9 3.0	4.2 4.3	20.8 20.3	12.2 12.5	8.8 8.7	3.8 3.9	2.5 2.5	13.6 13.2	17.7 18.1	68.8 68.7

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 2002 North American Industry Classification System (NAICS). Source: Department of Commerce (Bureau of Economic Analysis).

Table B–13. Real gross domestic product by industry, value added, and percent changes, $1981\hbox{--}2011$

					1701-	Data-sea :					
							ndustries				
Year	Gross domestic product	Total private industries	Agricul- ture, forestry, fishing, and hunting	Mining	Con- struc- tion	Total manufac- turing	Manufacturino Durable goods	Non- durable goods	Utilities	Wholesale trade	Retail trade
				Chain-t	ype quantity i	ndexes for va	lue added (20	05=100)			
1981	47.390 46.470 48.570 52.060 54.214 56.092 57.887 60.266 62.420	45.387 44.282 46.325 49.753 51.961 53.470 55.466 58.098 60.243	48.384 51.011 36.388 47.087 55.753 54.881 56.750 50.675 56.742	114.882 109.757 104.252 114.545 121.137 116.810 122.364 136.911 132.276	68.529 60.546 62.785 70.655 75.849 77.499 79.148 82.976 85.326	45.199 41.913 45.226 49.545 51.109 51.078 54.843 58.683 59.359	34.438 31.046 33.064 38.389 39.540 39.836 42.637 46.870 47.610	66.320 64.152 70.536 70.782 73.192 72.251 77.950 80.123 80.544	58.963 57.737 60.798 66.262 70.538 74.025 82.732 82.022 90.437	30.726 30.871 32.224 34.845 36.656 40.323 39.192 41.306 43.307	35.287 35.240 38.504 42.183 44.468 47.777 46.100 50.726 52.973
1990 1991 1992 1993 1994 1995 1996 1997 1998	63.591 63.442 65.595 67.466 70.214 71.980 74.672 78.000 81.397 85.326	61.264 61.161 63.537 65.296 68.374 70.112 73.146 76.840 80.541 84.778	60.074 60.756 67.964 58.983 70.448 59.555 66.286 71.591 69.837 73.031	130.787 133.113 129.022 131.161 142.428 143.474 133.682 138.097 148.848 137.847	84.779 78.616 80.403 82.649 87.293 88.224 92.982 95.170 98.277 103.607	58.575 57.674 59.597 61.987 66.078 68.798 70.997 75.261 79.022 83.268	46.726 45.243 46.187 48.129 51.830 55.832 59.253 64.194 70.550 75.962	80.093 80.651 84.672 87.853 92.380 91.805 91.157 93.699 92.120 94.101	95.576 96.834 97.689 96.434 99.397 102.620 101.716 97.108 95.007 104.692	42.692 44.438 48.490 49.957 53.134 52.901 57.783 64.068 74.157 78.059	53.825 53.661 56.467 59.225 63.523 66.714 72.881 79.185 84.195 86.596
2000	88.857 89.816 91.445 93.769 97.021 100.000 102.658 104.622 104.270 101.069	88.667 89.792 91.300 93.464 96.945 100.000 102.980 104.953 103.909 99.908	81.603 78.861 82.079 90.644 96.510 100.000 100.756 93.149 101.279 114.472	121.027 136.785 138.414 120.511 119.237 100.000 108.435 111.427 107.236 134.267	106.961 104.536 100.882 101.161 101.134 100.000 96.982 91.606 85.547 74.490	88.584 84.499 86.606 89.347 96.658 100.000 104.159 107.847 101.545 92.209	84.443 79.298 82.246 85.053 93.004 100.000 106.663 110.655 108.932 91.138	93.958 91.571 92.420 95.052 101.453 100.000 101.069 104.394 93.038 92.674	108.309 93.854 97.378 100.904 104.815 100.000 100.539 104.004 108.818 98.997	83.510 87.671 88.479 93.901 98.912 100.000 102.995 108.619 107.416 93.075	89.942 92.731 95.770 97.961 97.982 100.000 102.176 102.473 96.613 94.746
2010 2011	103.486 105.356	102.626 104.711	111.233 96.068	121.976 122.020	73.620 73.388	98.564 101.039	103.223 110.238	93.049 91.132	109.020 111.834	96.225 99.098	101.361 101.521
					Percent c	hange from ye	ear earlier				
1981 1982 1983 1984 1985 1986 1987 1988	2.5 -1.9 4.5 7.2 4.1 3.5 3.2 4.1 3.6	2.6 -2.4 4.6 7.4 4.4 2.9 3.7 4.7 3.7	25.8 5.4 -28.7 29.4 18.4 -1.6 3.4 -10.7 12.0	-0.6 -4.5 -5.0 9.9 5.8 -3.6 4.8 11.9 -3.4	-8.8 -11.6 3.7 12.5 7.4 2.2 2.1 4.8 2.8	4.8 -7.3 7.9 9.5 3.2 1 7.4 7.0 1.2	2.8 -9.8 6.5 16.1 3.0 .7 7.0 9.9	7.9 -3.3 10.0 .3 3.4 -1.3 7.9 2.8 .5	-0.2 -2.1 5.3 9.0 6.5 4.9 11.8 9	6.1 .5 4.4 8.1 5.2 10.0 -2.8 5.4 4.8	2.9 1 9.3 9.6 5.4 7.4 -3.5 10.0 4.4
1990 1991 1992 1993 1994 1996 1997 1998	1.9 2 3.4 2.9 4.1 2.5 3.7 4.5 4.4	1.7 2 3.9 2.8 4.7 2.5 4.3 5.1 4.8 5.3	5.9 1.1 11.9 -13.2 19.4 -15.5 11.3 8.0 -2.5 4.6	-1.1 1.8 -3.1 1.7 8.6 .7 -6.8 3.3 7.8 -7.4	6 -7.3 2.8 5.6 1.1 5.4 2.4 3.3 5.4	-1.3 -1.5 3.3 4.0 6.6 4.1 3.2 6.0 5.0	-1.9 -3.2 2.1 4.2 7.7 7.7 6.1 8.3 9.9 7.7	6 .7 5.0 3.8 5.2 6 7 2.8 -1.7 2.2	5.7 1.3 .9 -1.3 3.1 3.2 9 -4.5 -2.2	-1.4 4.1 9.1 3.0 6.4 4 9.2 10.9 15.7 5.3	1.6 3 5.2 4.9 7.3 5.0 9.2 8.6 6.3 2.9
2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011	4.1 1.1 1.8 2.5 3.5 3.1 2.7 1.9 3 -3.1 2.4	4.6 1.3 1.7 2.4 3.7 3.2 3.0 1.9 -1.0 -3.8 2.7 2.0	11.7 -3.4 4.1 10.4 6.5 3.6 .8 -7.5 8.7 13.0 -2.8 -13.6	-12.2 13.0 1.2 -12.9 -1.1 -16.1 8.4 2.8 -3.8 25.2 -9.2	3.2 -2.3 -3.5 .3 .0 -1.1 -3.0 -5.5 -6.6 -12.9 -1.2	6.4 -4.6 2.5 3.2 8.2 3.5 4.2 3.5 -5.8 -9.2 6.9 2.5	11.2 -6.1 3.7 3.4 9.3 7.5 6.7 -1.6 -16.3 13.3 6.8	2 -2.5 .9 2.8 6.7 -1.4 1.1 3.3 -10.9 4 -2.1	3.5 -13.3 3.8 3.6 3.9 -4.6 5 3.4 4.6 -9.0	7.0 5.0 9 6.1 5.3 1.1 3.0 5.5 -1.1 -13.4	3.9 3.1 3.3 2.3 .0 2.1 2.2 .3 -5.7 -1.9 7.0

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.

Table B–13. Real gross domestic product by industry, value added, and percent changes, $1981{-}2011{-}Continued$

			Private i	industries—Co	ontinued					
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 (2005=100)		ı	
1981	40.790 38.832 43.831 45.938 46.619 46.696 48.989 50.432 52.397 55.147 57.664 61.325	32.049 31.956 34.198 33.874 34.821 34.983 37.356 38.579 41.288 42.649 43.057	48.938 49.393 50.583 52.452 53.847 54.648 56.560 58.607 60.088 61.497 62.438 64.388	35.550 35.428 37.922 42.010 45.365 48.917 51.538 54.138 57.635 60.141 58.046 59.787	57.200 57.034 59.229 60.919 62.423 63.597 67.638 68.238 70.866 73.463 75.173 77.453	46.189 47.380 51.042 53.218 55.848 59.483 59.082 62.454 64.701 66.671 64.814 67.092	73.651 70.878 74.147 78.074 80.627 82.446 83.865 87.958 91.973 93.971 91.234 93.331	75.162 75.297 75.976 76.794 78.818 80.650 82.216 84.340 86.397 88.511 88.991 89.513	52.361 48.901 50.241 55.880 58.708 58.664 62.184 65.702 66.909 66.431 64.989 67.163	42.951 42.869 45.236 47.804 49.789 51.881 53.341 55.673 58.155 59.704 60.060 62.511
1994 1995 1996 1997 1998	64.042 69.180 71.236 75.138 79.006 78.063 80.801	45.429 47.837 50.285 52.034 55.321 56.402 62.107 70.528	66.268 67.851 69.615 71.251 74.419 76.667 81.686	61.282 63.418 65.656 70.179 75.051 79.327 82.819 86.923	77.728 78.052 79.293 80.204 81.559 82.657 84.776	69.166 71.235 73.630 76.742 80.225 82.504 87.572	96.564 101.126 103.010 103.940 102.674 108.399 109.304	89.512 89.780 89.719 90.120 91.101 92.284 93.395	68.816 73.841 75.400 78.077 82.210 85.786 89.880 94.368	64.309 66.769 68.566 71.717 75.282 79.023 83.304 87.019
2000	86.201 83.090 81.948 86.133 93.911 100.000 104.049 105.231 106.182 95.382	67.832 72.885 80.958 82.501 92.679 100.000 101.530 109.310 111.156 104.993	87.064 92.351 92.155 93.538 94.519 100.000 104.035 105.125 104.357 105.607	89.035 89.058 89.688 92.228 95.440 100.000 103.229 106.140 110.288 103.846	86.688 88.822 92.487 95.460 98.332 100.000 103.265 104.978 109.833 112.056	91.104 89.691 91.313 93.634 97.751 100.000 102.563 105.614 100.271 94.050	110.957 99.325 102.420 100.428 100.685 100.000 101.704 101.659 97.388 93.221	95.142 95.941 97.802 98.749 99.445 100.000 100.437 101.209 103.008 103.940	94.368 91.430 92.368 94.040 99.161 100.000 102.528 103.194 97.973 92.363	87.019 89.318 90.987 93.288 96.307 100.000 103.112 105.471 105.673 102.135
2010 2011	101.721 106.590	108.313 114.722	106.040 106.391	106.089 111.203	113.472 115.397	100.114 105.492	93.916 95.105	104.589 103.820	95.059 95.631	104.860 107.386
				Р	ercent change	from year earli	ier			
1981 1982 1983 1984 1985 1986 1987 1988 1989 1990	-2.5 -4.8 12.9 4.8 1.5 .2 4.9 2.9 3.9 5.2 4.6 6.3	5.5 3 7.0 9 2.8 .5 6.8 3.3 7.0 3.3 1.0 5.5	1.4 .9 2.4 3.7 2.7 1.5 3.5 3.6 2.5 2.3 1.5 3.1	2.5 3 7.0 10.8 8.0 7.8 5.4 5.0 6.5 4.3 -3.5 3.0	1.9 3 3.8 2.9 2.5 1.9 6.4 .9 3.9 3.7 2.3	3.5 2.6 7.7 4.3 4.9 6.5 7 5.7 3.6 3.0 -2.8 3.5	-3.0 -3.8 4.6 5.3 3.3 2.3 1.7 4.9 4.6 2.2 -2.9 2.3	0.4 .2 .9 1.1 2.6 2.3 1.9 2.6 2.4 2.4 .5 .6	3.5 -6.6 2.7 11.2 5.1 1 6.0 5.7 1.8 7 -2.2 3.3 2.5	2.2 2 5.5 5.7 4.2 4.2 2.8 4.4 4.5 2.7 .6
1993 1995 1995 1996 1997 1998 1999 2000 2001 2001 2002 2003 2004 2004	4.4 8.0 3.0 5.5 5.1 -1.2 3.5 6.7 -3.6 -1.4 5.1 9.0 6.5	5.3 5.1 3.5 6.3 2.0 10.1 13.6 -3.8 7.5 11.1 1.9 12.3 7.9	2.9 2.4 2.4 4.4 3.0 6.5 6.1 2 1.5 5.8	2.5 3.5 6.9 6.9 5.7 4.4 5.0 2.4 7.7 2.8 3.5 4.8	.4 .4 .1.6 .1.1 .1.7 .1.3 .2.6 .2.3 .2.5 .4.1 .3.2 .3.0 .1.7	3.1 3.0 3.4 4.2 4.5 2.8 6.1 4.0 -1.6 1.8 2.5 4.4 2.3	3.5 4.7 1.9 9 -1.2 5.6 8 1.5 -10.5 3.1 -1.9 3.7	3 -1 -1 1.1 1.3 1.2 1.9 8 1.9 1.0	7.3 2.1 3.6 5.3 4.3 4.8 5.0 -3.1 1.0 1.8 5.4	2.9 3.8 2.7 4.6 5.0 5.4 4.5 2.6 1.9 2.5 3.2 3.8
2006 2007 2008 2009 2010	4.0 1.1 .9 -10.2 6.6 4.8	1.5 7.7 1.7 –5.5 3.2 5.9	4.0 1.0 7 1.2 .4 .3	3.2 2.8 3.9 -5.8 2.2 4.8	3.3 1.7 4.6 2.0 1.3 1.7	2.6 3.0 -5.1 -6.2 6.4 5.4	1.7 .0 -4.2 -4.3 .7 1.3	.4 .8 1.8 .9 .6 7	2.5 .6 -5.1 -5.7 2.9	3.1 2.3 .2 -3.3 2.7 2.4

Note: Data are based on the 2002 North American Industry Classification System (NAICS). See Note, Table B–12.

Table B-14. Gross value added of nonfinancial corporate business, 1964-2012

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

			Net value added										Addenda	
	Gross							Net operat	ting surplus	3				
Year or quarter	value added of non- financial corpo-	Con- sump- tion of fixed	Total	Com- pensa- tion of	Taxes on produc- tion and imports		Net interest and	Busi- ness current	tory val	e profits wi uation and ption adjus	capital	Profits before	Inven- tory valua- tion	Capital con- sumption
	rate busi- ness 1	capital		employ- ees	less sub- sidies	Total	miscel- laneous pay- ments	transfer pay- ments	Total	Taxes on corpo- rate income	Profits after tax ²	tax	adjust- ment	adjust- ment
1964 1965 1966 1966 1967 1968 1969 1971 1973 1974 1975 1976 1977 1978 1978 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 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840.1 864.5 669.6 743.0 862.5 860.1 893.7 933.6 874.2	329.0 362.1 397.1 497.5 510.8 551.1 613.0 687.6 735.7 788.0 892.0 1,147.5 1,270.2 1,147.5 1,270.2 1,147.5 1,270.2 2,149.8 1,589.8 1,932.6 2,478.1 2,595.3 2,714.2 2,586.3 3,479.7 3,684.4 3,945.6 4,620.5 4,653.1 4,846.8 4,416.3 4,689.4 4,416.3 4,689.4 4,620.5 4,653.1 5,728.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 6,092.3 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4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,150.5 4,	33.9 36.0 37.0 39.3 45.5 50.2 59.5 63.7 70.1 74.4 80.2 86.7 102.7 108.8 121.5 146.7 152.9 168.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 185.0 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694.3 760.3	55.9 66.1 771.4 67.6 67.4 771.5 67.4 79.5 67.4 79.5 67.4 79.5 67.4 79.5 67.4 110.2 159.5 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 140.0 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-12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12.6 -12	7.0 7.8 8.1 8.3 8.6 9.1 8.3 8.0 9.9 9.0 5.5 -1.2 -3.2 -5.3 -7.2 6.5 17.8 35.2 56.2 76.2 62.7 62.6 62.3 56.7 40.3 40.3 40.3 40.3 40.3 40.3 40.3 40.3
IV 2010: I II IV	6,680.7 6,828.1 6,894.9 7,033.7 7,053.0	855.7 855.3 857.8 860.7 866.6	5,825.0 5,972.8 6,037.1 6,173.0 6,186.4	4,160.9 4,176.8 4,235.0 4,288.6 4,307.5	600.0 605.8 609.4 614.2 619.3	1,064.2 1,190.1 1,192.6 1,270.3 1,259.6	214.9 216.2 215.1 220.7 234.9	79.4 85.3 88.2 91.9 91.8	769.9 888.6 889.4 957.6 932.9	211.7 211.9 221.1 231.5 227.0	558.2 676.7 668.3 726.1 705.9	892.0 980.5 974.1 1,020.3 987.0	-66.2 -27.2 -14.3 -26.0 -87.2	-56.0 -64.7 -70.4 -36.7 33.1
2011: I II III IV	7,200.6 7,367.0 7,418.6 7,480.5	876.0 888.8 900.3 909.7	6,324.6 6,478.2 6,518.4 6,570.8	4,435.1 4,465.0 4,487.9 4,502.9	637.8 646.3 646.0 653.1	1,251.7 1,367.0 1,384.4 1,414.8	248.5 248.9 263.7 262.5	91.9 91.7 91.2 91.3	911.3 1,026.4 1,029.6 1,061.0	244.0 253.9 248.1 241.2	667.3 772.5 781.4 819.8	963.0 1,037.8 1,010.8 1,016.3	-121.7 -75.0 -40.6 -12.9	70.1 63.6 59.3 57.6
2012: 	7,605.5 7,670.8 7,693.7	920.8 930.8 937.1 945.7	6,684.7 6,740.1 6,756.5	4,607.1 4,644.8 4,673.7 4,713.1	656.1 657.8 656.9 659.7	1,421.6 1,437.5 1,425.9	263.2 254.2 263.4	90.0 87.1 80.5 81.2	1,068.3 1,096.1 1,082.0	304.3 304.6 307.9	764.0 791.6 774.1	1,240.4 1,229.8 1,256.5	-23.7 16.0 -26.8	-148.4 -149.7 -147.7 -147.1

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.

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

TABLE B-15. Gross value added and price, costs, and profits of nonfinancial corporate business, 1964-2012

[Quarterly data at seasonally adjusted annual rates]

	Gross valu	e added of	[2007	Price per u			ded of nonfina	ancial corpora	ate business	(dollars) 1, 2	
Year or quarter	nonfinancia business of dol	al corporate		Com- pensation of		Unit nonl	abor cost		valuation a	e profits with and capital co adjustments '	onsumption
	Current dollars	Chained (2005) 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
1964	356.1 391.2 429.0 451.2 497.8 540.5	1,368.1 1,481.8 1,588.1 1,630.9 1,736.7 1,806.9	0.260 .264 .270 .277 .287 .299	0.165 .166 .172 .178 .185 .198	0.050 .050 .049 .053 .056	0.020 .020 .020 .022 .022 .024	0.026 .026 .025 .026 .028 .030	0.004 .004 .004 .005 .006	0.046 .049 .049 .046 .045	0.017 .018 .019 .017 .019 .018	0.028 .031 .030 .029 .026 .023
1970 1971 1972 1973 1974 1975 1976 1977 1978	558.3 603.0 669.4 750.8 809.8 876.7 989.7 1,119.4 1,272.7 1,414.4	1,792.4 1,866.3 2,009.0 2,132.7 2,099.0 2,068.2 2,237.2 2,402.9 2,560.2 2,640.4	.311 .323 .333 .352 .386 .424 .442 .466 .497	.210 .214 .221 .235 .263 .278 .291 .306 .330	.067 .071 .071 .075 .085 .098 .098 .101 .106	.026 .028 .028 .030 .035 .043 .044 .046 .049	.032 .034 .035 .037 .041 .042 .043 .044	.009 .009 .009 .010 .013 .014 .012 .012	.034 .038 .041 .042 .037 .048 .054 .059	.015 .016 .017 .019 .020 .024 .025 .026	.018 .022 .024 .023 .016 .028 .030 .034 .035
1980	1,534.5 1,742.2 1,802.6 1,929.1 2,161.4 2,293.9 2,383.2 2,551.0 2,765.4 2,899.2	2,613.4 2,717.8 2,653.0 2,781.1 3,027.7 3,157.9 3,235.5 3,402.5 3,599.1 3,658.8	.587 .641 .679 .694 .714 .726 .737 .750 .768	.401 .426 .452 .454 .462 .474 .487 .493 .501	.135 .154 .170 .171 .169 .173 .182 .180 .183	.064 .071 .080 .079 .076 .077 .080 .079	.050 .058 .061 .064 .065 .067 .072 .073 .073	.021 .025 .029 .028 .028 .029 .030 .028 .030	.052 .061 .057 .069 .083 .079 .068 .076	.026 .024 .018 .022 .025 .023 .024 .028 .029	.025 .037 .038 .047 .057 .057 .044 .049
1990 1991 1992 1993 1994 1995 1996 1997 1998	3,035.2 3,104.1 3,241.1 3,398.4 3,677.6 3,888.0 4,119.4 4,412.5 4,668.3 4,955.5	3,713.1 3,695.4 3,804.9 3,905.0 4,155.3 4,349.0 4,588.6 4,887.8 5,167.3 5,452.4	.817 .840 .852 .870 .885 .894 .903 .903	.540 .553 .566 .575 .573 .577 .573 .576 .590	.203 .214 .208 .207 .207 .209 .207 .208 .208	.086 .091 .090 .092 .091 .094 .095 .096	.078 .085 .088 .089 .092 .089 .088 .086	.039 .038 .030 .026 .024 .026 .024 .028	.075 .073 .078 .089 .104 .108 .117 .120 .105	.027 .024 .025 .028 .032 .032 .033 .033 .031	.048 .049 .053 .061 .072 .076 .084 .087 .075
2000 2001 2002 2003 2004 2005 2006 2007 2008 2009	5,279.4 5,252.5 5,307.7 5,503.7 5,877.5 6,302.8 6,740.3 6,946.0 6,991.4 6,590.8	5,745.7 5,637.8 5,675.5 5,818.1 6,085.1 6,302.8 6,543.2 6,606.4 6,515.9 6,036.8	.919 .932 .935 .946 .966 1.000 1.030 1.051 1.073	.616 .631 .624 .628 .622 .631 .639 .660	.222 .235 .235 .234 .232 .243 .249 .264 .276	.103 .112 .115 .115 .114 .118 .122 .127 .133	.085 .088 .091 .094 .096 .101 .102 .102 .103	.034 .035 .029 .025 .022 .024 .025 .035 .040	.081 .066 .075 .084 .111 .127 .141 .127 .116	.030 .020 .017 .023 .031 .043 .047 .044 .035	.052 .046 .058 .061 .081 .083 .094 .082 .081
2010	6,952.4 7,366.7 6,633.6 6,527.7 6,521.4 6,680.7	6,369.1 6,595.6 6,028.2 5,963.9 5,992.1 6,162.9	1.092 1.117 1.100 1.095 1.088 1.084	.668 .678 .698 .700 .693 .675	.280 .286 .298 .295 .289 .284	.135 .135 .145 .145 .143	.110 .112 .110 .112 .110	.035 .039 .043 .038 .036 .035	.144 .153 .105 .100 .108 .125	.035 .037 .028 .027 .028 .034	.109 .115 .077 .073 .079
2010: 	6,828.1 6,894.9 7,033.7 7,053.0	6,312.8 6,347.1 6,421.9 6,394.8	1.082 1.086 1.095 1.103	.662 .667 .668 .674	.278 .279 .278 .284	.135 .135 .134 .136	.109 .110 .110 .111	.034 .034 .034 .037	.141 .140 .149 .146	.034 .035 .036 .035	.107 .105 .113 .110
2011: I	7,200.6 7,367.0 7,418.6 7,480.5 7,605.5	6,499.2 6,611.2 6,586.5 6,685.6 6,768.5	1.108 1.114 1.126 1.119 1.124	.682 .675 .681 .674	.285 .284 .289 .286	.135 .134 .137 .136	.112 .112 .112 .111 .110	.038 .038 .040 .039	.140 .155 .156 .159	.038 .038 .038 .036	.103 .117 .119 .123
	7,670.8 7,693.7	6,803.6 6,738.6	1.127 1.142	.683 .694	.283 .287	.137 .139	.109 .109	.037	.161 .161	.045 .045 .046	.116 .115

¹ 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.

⁴ Unit profits from current production.

⁵ With inventory valuation and capital consumption adjustments.

TABLE B-16. Personal consumption expenditures, 1964-2012

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

				Go	ods					Services			Adden-
			Dura	able		Nondurable			ı	Household of expen	consumptio ditures	n	dum: Personal con-
Year or quarter	Personal con- sump- tion expendi- tures	Total	Total ¹	Motor vehicles and parts	Total ¹	Food and bever- ages pur- chased for off- premises consump- tion	Gasoline and other energy goods	Total	Total ¹	Housing and utilities	Health care	Financial services and insur- ance	sumption expenditures excluding food and energy 2
1964 1965 1966 1969 1967 1971 1972 1973 1974 1975 1976 1978 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 19	411.5 443.8 440.9 507.8 558.0 605.1 648.3 701.6 7702.0 932.9 1.033.8 1.551.3 1.277.8 1.591.2 1.755.8 2.501.1 2.717.8 2.896.7 3.097.0 3.350.1 2.789.4 2.896.7 3.097.0 3.594.5 3.835.5 2.501.1 2.717.8 6.830.4 4.750.8 4.987.3 5.570.6 6.342.8 6.830.4 7.148.8 7.439.2 7.804.1 8.270.6 6.342.8 6.830.4 7.148.8 7.439.2 7.804.1 8.270.6 10.215.7 10.729.0 11.120.9 9.848.9 9.962.5 10.069.1 10.120.9 10.243.6 10.401.9 10.5684.9	212.3 229.7 249.6 259.0 284.6 304.7 318.8 342.1 373.8 416.6 451.5 491.3 546.3 600.4 491.3 546.3 600.4 491.3 1,195.6 1,256.3 1,195.6 1,256.3 1,491.3 1,491.4 1,563.3 1,491.4 1,563.3 1,491.4 1,563.3 1,491.4 1,563.3 1,491.4 1,563.3 1,491.3 1,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 2,290.0 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206.9 223.5 240.4 318.4 264.0 290.4 318.4 420.7 465.0 524.4 924.1 1,033.9 1,136.1 1,271.9 1,271.9 2,099.0 2,264.5 2,398.4 2,581.3 2,746.6 2,290.9 3,064.6 3,451.6 3,451.6 3,451.6 3,451.6 4,624.2 4,864.8 4,624.2 4,864.8 5,515.1 5,515.1 5,836.3 6,372.0 6,571.2 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 6,365.6 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 V	10,791.2 10,873.8	3,604.3 3,643.6 3,690.0	1,131.8 1,144.8 1,175.1	362.2 367.4 390.3	2,472.4 2,498.7 2,515.0	807.3 817.3 824.4	431.4 435.0 427.6	7,147.6 7,183.8	6,848.1 6,888.5	1,945.2 1,938.9	1,749.6 1,754.2 1,775.9	800.6 815.0 812.5	9,139.0 9,223.8 9,310.3 9,411.4
2012: V ^p	11,007.2 11,067.2 11,154.4 11,254.6	3,755.9 3,741.5 3,792.5 3,843.0	1,204.6 1,200.3 1,218.9 1,252.5	402.1 396.0 404.5 425.6	2,551.3 2,541.2 2,573.6 2,590.5	827.0 827.5 829.2 832.6	440.5 428.5 443.1 447.1	7,251.3 7,325.7 7,361.9 7,411.6	6,956.4 7,019.4 7,060.6 7,104.5	1,935.2 1,968.3 1,983.5 1,976.5	1,800.4 1,803.5 1,825.9 1,841.9	827.5 830.9 825.3 831.0	9,544.2 9,593.0 9,659.9 9,772.3

Includes other items not shown separately.
 Food consists of food and beverages purchased for off-premises consumption; food services, which include purchased meals and beverages, are not classified as food.

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

TABLE B-17. Real personal consumption expenditures, 1995-2012

[Billions of chained (2005) dollars; quarterly data at seasonally adjusted annual rates]

				Go	ods					Services			Adden-
	D		Dur	able		Nondurable			ŀ	Household (expen	consumptio ditures	n	dum: Personal con-
Year or quarter	Personal con- sump- tion expendi- tures	Total	Total ¹	Motor vehicles and parts	Total ¹	Food and bever- ages pur- chased for off- premises consump- tion	Gasoline and other energy goods	Total	Total ¹	Housing and utilities	Health care	Financial services and insur- ance	sump- tion expendi- tures exclud- ing food and energy ²
1995	6,076.2	1,896.0	510.5	255.6	1,437.7	548.4	264.3	4,208.5	4,068.9	1,234.8	947.6	489.9	5,123.9
1996	6,288.3	1,980.9	548.6	268.0	1,479.2	553.9	268.5	4,331.7	4,183.6	1,261.6	967.2	508.2	5,319.4
1997	6,520.4	2,075.3	593.3	286.1	1,522.7	558.8	273.9	4,465.3	4,327.6	1,290.3	997.2	525.7	5,540.7
1998	6,862.3	2,215.5	665.6	316.0	1,580.2	565.5	283.7	4,662.1	4,511.0	1,329.7	1,029.6	559.1	5,860.1
1999	7,237.6	2,392.0	752.0	345.1	1,660.7	587.3	292.4	4,853.1	4,690.8	1,371.7	1,045.7	606.2	6,199.5
2000	7,604.6	2,518.2	818.0	356.1	1,714.5	600.5	287.1	5,093.6	4,918.2	1,413.6	1,081.6	666.0	6,545.5
	7,810.3	2,597.3	862.4	374.3	1,745.4	607.5	289.2	5,219.1	5,029.3	1,451.4	1,135.6	661.3	6,742.5
	8,018.3	2,702.9	927.9	394.0	1,780.1	608.9	294.0	5,318.5	5,109.8	1,461.9	1,202.4	658.9	6,938.6
	8,244.5	2,827.2	989.1	404.8	1,840.7	616.5	301.9	5,418.2	5,199.4	1,480.2	1,228.3	659.2	7,145.2
	8,515.8	2,953.3	1,060.9	410.4	1,892.8	623.9	305.9	5,562.7	5,345.1	1,512.8	1,267.4	675.5	7,401.8
	8,803.5	3,076.7	1,123.4	408.2	1,953.4	644.5	303.8	5,726.8	5,515.1	1,582.6	1,308.9	698.4	7,665.3
	9,054.5	3,178.9	1,174.2	394.4	2,005.0	663.0	296.9	5,875.6	5,640.6	1,616.8	1,333.0	716.4	7,911.5
	9,262.9	3,273.5	1,232.4	401.4	2,042.9	673.2	294.4	5,990.2	5,745.2	1,626.6	1,364.0	739.8	8,110.4
	9,211.7	3,192.9	1,171.8	346.8	2,019.1	666.0	280.6	6,017.0	5,745.6	1,637.8	1,396.5	732.3	8,087.2
	9,032.6	3,098.2	1,109.1	322.6	1,982.8	654.8	282.4	5,930.6	5,656.3	1,655.2	1,420.8	680.6	7,913.4
2010	9,196.2	3,209.1	1,178.3	329.5	2,029.3	668.8	281.3	5,987.6	5,710.2	1,668.7	1,439.0	683.7	8,058.0
2011	9,428.8	3,331.0	1,262.6	347.4	2,075.2	685.3	271.5	6,101.5	5,814.3	1,677.7	1,488.5	681.8	8,292.4
2012 <i>P</i>	9,604.9	3,433.0	1,361.0	373.3	2,094.4	685.8	268.3	6,178.0	5,880.6	1,677.7	1,516.6	685.6	8,480.3
2009: I II IV	9,039.5 8,999.3 9,046.2 9,045.4	3,083.2 3,067.0 3,123.1 3,119.5	1,091.4 1,085.8 1,138.6 1,120.7	312.8 313.7 347.7 316.3	1,983.7 1,973.3 1,981.4 1,992.9	646.4 652.3 657.0 663.5	289.0 282.9 280.0 277.6	5,951.5 5,926.9 5,920.7 5,923.2	5,676.1 5,655.8 5,647.9 5,645.2	1,652.3 1,653.6 1,655.7 1,659.3	1,410.4 1,421.0 1,427.2 1,424.6	693.3 683.1 675.0 670.9	7,922.2 7,882.8 7,927.9 7,920.7
2010: I II IV	9,100.8 9,159.4 9,216.0 9,308.5	3,159.5 3,185.4 3,215.1 3,276.5	1,135.9 1,164.5 1,184.9 1,227.7	312.4 324.2 331.0 350.3	2,017.7 2,018.3 2,029.4 2,052.0	669.4 663.2 666.1 676.7	285.9 282.2 281.5 275.6	5,940.4 5,973.6 6,001.4 6,034.9	5,664.3 5,694.5 5,724.2 5,757.8	1,662.7 1,665.2 1,672.8 1,673.9	1,418.3 1,429.1 1,445.1 1,463.7	682.2 690.0 682.2 680.3	7,958.7 8,027.3 8,077.2 8,168.7
2011:	9,380.9	3,320.3	1,249.4	355.0	2,075.3	682.8	280.2	6,064.8	5,786.1	1,672.4	1,478.8	680.8	8,235.6
	9,403.2	3,312.2	1,242.3	336.6	2,073.5	686.0	269.9	6,094.0	5,810.1	1,679.6	1,489.3	678.3	8,265.4
	9,441.9	3,323.5	1,258.6	338.1	2,071.4	685.9	267.9	6,121.1	5,826.6	1,686.7	1,486.2	685.8	8,302.8
W	9,489.3	3,367.9	1,300.1	360.1	2,080.5	686.4	268.2	6,126.0	5,834.5	1,672.0	1,499.7	682.2	8,366.0
2012:	9,546.8	3,406.6	1,336.1	371.2	2,088.9	686.4	266.5	6,145.9	5,855.1	1,662.7	1,513.3	688.6	8,437.3
	9,582.5	3,409.4	1,335.3	361.8	2,092.0	685.4	272.0	6,178.2	5,877.6	1,685.2	1,508.4	688.4	8,444.6
	9,620.1	3,439.7	1,364.0	370.5	2,098.2	685.9	270.0	6,186.7	5,888.8	1,690.6	1,518.4	680.0	8,480.4
	9,670.0	3,476.4	1,408.8	389.9	2,098.7	685.7	264.8	6,201.3	5,900.8	1,672.5	1,526.5	685.3	8,558.8

Note: See Table B-2 for data for total personal consumption expenditures for 1964-94.

Includes other items not shown separately.
 Pood consists of food and beverages purchased for off-premises consumption; food services, which include purchased meals and beverages, are not classified as food.

TABLE B-18. Private fixed investment by type, 1964-2012

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

		Nonresidential											Residentia	
						Eq	uipment a	nd softwa	ire				Struc	tures
	Private	Total			Informa	ation proce and so		ipment						
Year or quarter	fixed invest- ment	Total non- resi- den- tial	Struc- tures	Total	Total	Com- puters and periph- eral equip- ment	Soft- ware	Other	Indus- trial equip- ment	Trans- por- tation equip- ment	Other equip- ment	Total resi- den- tial ¹	Total ¹	Single family
1964	97.2 109.0 117.7 118.7 132.1 147.3 150.4 169.9 198.5 228.6 235.4 236.5 274.8 339.0 412.2 474.9 485.6 532.1 570.1 670.2 714.4 739.9 757.8 846.4 803.3 846.4 932.5 1,112.9 932.5 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9 1,112.9	63.0 74.8 85.4 86.4 93.4 104.7 109.0 114.1 128.8 153.3 169.5 173.7 192.4 228.6 333.9 362.4 420.0 426.5 447.2 489.6 526.2 519.8 526.1 1563.8 607.7 622.4 810.0 875.4 98.6 98.6 1,267.7 1,227.8 1,125.4 1,125.4 1,125.4 1,125.4 1,125.7 1,237.7 1,223.0 1,347.3 1,635.3 1,635.3 1,635.3	23.7 28.3 31.3 31.5 33.6 37.7 47.2 47.2 66.9 7,46.6 61.4 66.9 93.6 61.2 61.4 65.9 7,46.6 61.4 61.4 61.4 61.4 61.4 61.4 61.4	39.2 46.5 54.0 54.9 67.0 68.7 71.5 81.7 98.3 108.2 112.4 126.4 154.1 187.0 216.2 226.2 2252.7 248.9 240.2 331.7 343.3 349.9 312.2 331.7 341.6 419.6 499.6 499.6 602.8 871.0 950.5 888.1 842.7 853.8 995.6 1,071.7	7.4 8.5 5.10.7 7.11.3 11.9 11.9 11.9 11.9 11.9 11.9 11.9		0.5 .7 1.0 1.2 2.3 3.9 4.2 2.8 3.9 9.8 4.5 2.5 5.5 6.3 8.1 1.1 4.0 0.1 4.7 6.8 2.9 0.0 1.5 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	5.9 6.7 8.0 8.2 8.7 10.4 112.2 132.2 20.2 23.1 128.0 8.7 7.7 7.7 7.6 4.8 8.8 8.7 6.9 8.1 114.6 8.1 114.6 1122.3 122.3 131.9 1141.4 1152.2 162.5 190.6 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6.9 6	11.4 13.7 16.2 16.9 17.3 19.1 20.3 19.5 21.4 26.0 30.7 31.3 34.1 39.4 47.7 56.2 60.7 65.5 62.7 68.1 72.5 58.9 68.1 72.5 54.7 84.2 93.3 93.0 102.2 113.6 129.0 136.5 140.4 141.7 142.0 151.9 141.7 142.0 151.9 141.7 142.0 151.9 142.0 151.9 142.0 151.9 142.0	10.6 13.2 14.5 14.3 17.6 18.9 16.2 18.4 21.8 26.3 25.2 30.0 39.3 47.3 53.6 48.4 50.6 48.8 53.5 64.4 69.0 70.5 67.9 70.0 71.5 74.7 89.4 107.7 116.1 123.2 147.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177.4 177	9.9 11.0 12.7 12.4 13.0 15.6 16.3 19.0 27.4 29.6 36.3 36.3 43.2 47.9 48.3 55.2 47.9 68.0 68.0 80.2 80.2 80.2 80.2 80.2 80.2 10.1 10.1 10.1 10.1 10.1 10.1 10.1 1	34.3 34.2 32.3 32.4 32.4 41.4 45.8 69.7 66.0 60.0 60.0 60.0 60.0 60.0 60.0 60	33.6 31.6 31.6 31.6 31.6 40.2 54.5 68.1 60.8 80.4 107.9 128.9 112.0 119.8 119.8 118.9 1214.6 227.9 233.2 233.4 218.0 24.5 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25	17.6 17.8 16.6 16.8 19.5 19.7 17.5 32.8 32.8 32.8 32.8 32.8 32.7 29.6 44.9 52.0 41.5 72.5 86.4 87.4 104.1 117.2 120.1 112.9 99.4 122.0 140.1 162.3 153.5 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170.8 170
2009 2010 2011 2012 <i>P</i> 2009: I	1,703.5 1,679.0 1,818.3 2,000.9 1,812.5	1,349.3 1,338.4 1,479.6 1,618.0 1,442.9	451.1 376.3 404.8 460.5 530.5 467.1	962.1 1,074.7 1,157.6 912.4 888.9	502.1 517.7 539.6 555.2 495.5 494.1	73.5 72.8 78.3 79.3 73.8	256.9 260.9 278.7 293.2 253.7	171.7 183.9 182.6 182.7 168.0	155.2 155.3 181.2 197.4 163.8 155.2	75.9 123.2 164.7 196.9 73.5 74.4	165.0 165.9 189.2 208.1 179.5 165.2	354.1 340.6 338.7 382.8 369.6 342.0	345.4 331.7 329.7 373.5 360.6	105.3 112.6 108.2 128.7 112.1
2010: I	1,698.0 1,666.1 1,637.2 1,627.2 1,683.0 1,683.8 1,721.9 1,722.3 1,784.2	1,356.0 1,312.9 1,285.4 1,285.8 1,325.2 1,353.8 1,388.8 1,390.8 1,448.0	421.0 385.6 362.7 376.6 377.1 389.0 362.4 397.0	891.9 899.8 923.1 948.6 976.8 999.8 1,028.4 1,051.0	505.4 513.5 511.9 511.1 518.5 529.1 529.8 538.6	73.4 71.9 75.1 73.1 73.3 71.7 73.1 72.3 79.0	255.6 256.8 261.5 259.5 257.5 261.3 265.5 271.1 275.8	165.2 176.7 177.0 179.4 180.4 185.5 190.4 186.5 183.8	151.7 149.9 146.9 156.4 156.5 161.3 169.6 171.6	76.5 79.4 101.9 117.3 135.1 138.6 149.2 155.6	158.3 156.9 162.4 163.8 166.7 170.9 179.8 185.2	353.1 351.9 341.3 357.8 330.0 333.1 331.4 336.2	333.3 344.5 343.1 332.6 348.8 321.2 324.3 322.7 327.3	92.9 105.0 111.3 114.7 118.8 110.4 106.4 107.4 106.1 108.2
2012:	1,857.8 1,909.0 1,959.7 1,986.9 1,997.9 2,059.0	1,519.4 1,560.1 1,595.5 1,614.1 1,610.0 1,652.5	421.8 438.2 454.7 458.9 460.1 468.2	1,097.6 1,122.0 1,140.8 1,155.2 1,149.9 1,184.3	541.6 548.5 556.3 552.0 547.2 565.2	80.3 81.6 84.3 79.3 71.9 81.8	281.1 286.9 288.1 292.1 293.7 298.7	180.3 180.0 183.9 180.5 181.6 184.7	187.0 196.6 190.7 197.8 198.0 203.2	170.7 183.1 193.6 200.5 193.4 200.0	198.2 193.7 200.1 204.9 211.3 216.0	338.5 348.8 364.2 372.8 387.9 406.5	329.4 339.6 354.8 363.5 378.5 397.1	108.2 111.1 117.1 122.3 131.9 143.4

¹ Includes other items not shown separately.

TABLE B-19. Real private fixed investment by type, 1995-2012

[Billions of chained (2005) dollars; quarterly data at seasonally adjusted annual rates]

		[DIIIIGI]	o or orian		, donaro,	Nonres		boasonai	ry dajaott		Tutooj		Residentia	
													1	
						Eq	uipment a	nd softwa	ire				Struc	tures
	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
1995 1996 1997 1998	1,231.2 1,341.6 1,465.4 1,624.4 1,775.5	787.9 861.5 965.5 1,081.4 1,194.3	342.0 361.4 387.9 407.7 408.2	489.4 541.4 615.9 705.2 805.0	147.3 176.5 217.6 267.1 327.2		66.9 78.5 101.7 122.8 151.5	90.1 98.7 107.2 120.7 134.6	145.5 150.9 154.1 160.8 161.8	131.5 136.8 148.2 162.0 190.3	110.6 114.8 125.9 138.8 142.4	456.1 492.5 501.8 540.4 574.2	450.1 486.8 496.3 534.5 567.5	240.2 262.4 261.6 290.1 311.5
2000 2001 2002 2003 2004 2005 2006 2007 2008 2009	1,906.8 1,870.7 1,791.5 1,854.7 1,992.5 2,122.3 2,172.7 2,130.6 1,978.6 1,602.2	1,311.3 1,274.8 1,173.7 1,189.6 1,263.0 1,347.3 1,455.5 1,550.0 1,537.6 1,259.8	440.0 433.3 356.6 343.0 346.7 351.8 384.0 438.2 466.4 368.1	889.2 860.6 824.2 850.0 917.3 995.6 1,071.1 1,106.8 1,059.4 885.2	386.2 384.5 373.9 403.7 443.1 475.3 516.3 558.2 569.7 546.4		172.4 173.7 173.4 185.6 204.6 218.0 227.1 240.9 250.8 252.9	162.0 157.0 142.7 155.1 168.1 178.4 192.8 208.4 202.4 182.4	175.8 162.8 151.9 151.6 147.4 159.6 172.9 179.9 136.2	186.2 169.6 154.2 140.4 162.3 181.7 196.5 185.8 142.7 69.1	150.4 149.3 148.2 155.0 164.4 178.9 185.5 184.2 177.8 145.5	580.0 583.3 613.8 664.3 729.5 775.0 718.2 584.2 444.4 344.8	572.6 575.6 605.9 655.9 720.1 765.2 708.1 574.2 434.9 336.1	315.0 315.4 327.7 362.6 406.1 433.5 391.1 284.0 178.4 105.5
2010 2011 2012 <i>P</i>	1,598.7 1,704.5 1,850.1	1,268.5 1,378.2 1,484.9	310.6 319.2 351.3	963.9 1,070.0 1,143.5	571.7 600.2 622.9		259.4 277.2 292.8	197.6 196.7 198.4	134.6 152.6 163.3	119.6 156.7 183.6	149.9 168.6 179.6	332.2 327.6 367.1	323.0 318.0 357.2	114.5 109.3 128.9
2009: 	1,677.3 1,593.7 1,581.2 1,556.8	1,324.3 1,262.0 1,236.7 1,216.4	417.7 380.1 351.7 323.1	892.9 873.2 880.8 893.8	533.9 537.3 551.9 562.4		248.2 251.2 254.1 258.0	177.5 176.0 187.4 188.7	143.9 136.6 133.2 131.2	66.8 65.8 68.6 75.0	157.0 144.9 140.4 139.6	355.3 333.7 347.2 343.0	346.6 325.2 338.5 334.1	109.6 93.2 106.9 112.1
2010: 	1,553.1 1,606.5 1,602.7 1,632.3	1,222.7 1,258.6 1,282.1 1,310.5	302.6 312.1 310.4 317.4	925.0 951.6 978.7 1,000.4	563.7 564.1 573.7 585.1		257.1 255.7 260.1 264.5	192.5 193.9 200.0 204.2	128.3 135.9 135.6 138.9	99.4 114.2 131.0 133.8	146.9 148.7 149.9 154.1	332.7 350.5 322.2 323.3	323.7 341.2 313.0 314.0	115.8 121.8 112.8 107.8
2011: 	1,627.0 1,675.4 1,736.8 1,778.7	1,306.3 1,351.3 1,411.3 1,443.7	292.2 315.0 330.2 339.3	1,027.0 1,046.5 1,091.5 1,114.8	585.9 598.2 603.5 613.4		269.5 274.3 279.5 285.4	199.1 197.5 194.6 195.4	144.5 144.7 156.6 164.4	143.1 147.9 162.3 173.6	162.9 165.8 175.7 169.9	322.2 325.5 326.6 336.0	312.8 315.9 316.9 326.2	108.8 107.4 109.3 111.7
2012: V P	1,820.6 1,840.6 1,844.8 1,894.4	1,470.0 1,482.9 1,476.1 1,510.7	349.7 350.2 350.2 355.1	1,129.6 1,142.8 1,135.4 1,166.3	622.2 618.4 614.5 636.3		286.8 291.1 293.8 299.6	199.4 195.9 197.4 200.9	158.5 163.6 163.7 167.5	181.7 188.5 180.4 183.7	174.7 177.6 181.6 184.7	352.1 359.3 370.9 386.1	342.3 349.5 360.9 376.0	118.5 123.4 131.5 142.1

¹ Because computers exhibit rapid changes in prices relative to other prices in the economy, the chained-dollar estimates should not be used to measure the component's relative importance or its contribution to the growth rate of more aggregate series. The quantity index for computers can be used to accurately measure the real growth rate of this series. For information on this component, see *Survey of Current Business* Table 5.3.1 (for growth rates), Table 5.3.2 (for current business), 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, $1964\hbox{--}2012$

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

	[Billions of dollars; quarterly data at seasonally adjusted annual rates] Government consumption expenditures and gross investment													
					Governine	Federal	ption expe	- Indituies	anu gross	IIIVESUIIEI		State a	nd local	
				National	defense	Todordi		Nonde	efense			Otato a		vestment
Year or quarter					Gross inv	estment/			Gross in	vestment		Con-		
	Total	Total	Total	Con- sump- tion expen- ditures	Struc- tures	Equip- ment and soft- ware	Total	Con- sump- tion expen- ditures	Struc- tures	Equip- ment and soft- ware	Total	sump- tion expen- ditures	Struc- tures	Equip- ment and soft- ware
1964 1965 1966 1968 1969 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1980 1981 1982 1983 1984 1985 1988 1989 1989 1990 1991 1992 1993 1994 1995 1999 1999 1999 1999 1999 1999	143.2 151.4 177.6 192.5 209.3 221.4 233.7 246.4 263.4 281.7 317.9 357.7 383.0 414.1 453.6 500.7 566.1 4733.4 796.9 878.9 949.3 999.4 1,100.6 1,181.7 1,236.1 1,236.1 1,242.8 1,374.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 1,421.0 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120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1 120.9 91.1	48.8 8.50.6 6.59.9 9.69.9 77.1 1.78.1 76.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 1.79.5 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7.1 6.8 6.9 9.0 6.9 9.0 9.0 10.3 11.2 10.8 10.7 8.3 9.9 10.3 9.9 10.3 11.4 11.4 11.4 11.4 11.4 11.3 11.3 11		64.8 71.0 79.2 87.9 98.0 108.2 120.3 132.8 143.8 143.8 143.8 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9 150.9	45.8 50.2 56.1 62.6 670.4 79.8 91.5 56.1 102.7 113.2 233.3 258.4 347.7 381.8 418.1 4471.0 504.5 547.0 567.5 666.2 634.2 7601.3 730.2 764.5 808.6 870.6 930.6 994.2 1,049.4 1,096.5 1,139.1 1,212.0 1,282.3 1,368.9 1,449.2 1,049.4 1,096.5 1,139.1 1,212.0 1,139.1 1,212.0 1,139.1 1,212.0 1,144.4 1,144.2 1,045.8 1,145.3 1,445.8 1,447.9 1,503.5 1,505.2 1,505.2 1,505.2	17.2 19.0 21.0 22.2 25.6 27.0 27.1 38.1 36.9 38.1 36.9 36.1 27.1 27.1 27.1 27.1 27.1 27.1 27.1 27	**************************************
III	3,072.3 3,065.2 3,048.1 3,072.2 3,067.7	1,239.8 1,233.8 1,215.2 1,234.3 1,227.5	831.6 824.5 804.9 827.7 837.8	713.2 707.0 697.3 716.7 730.5	17.3 16.8 15.6 14.6 12.8	101.1 100.7 92.1 96.4 94.5	408.1 409.3 410.3 406.6 389.7	355.1 356.6 356.9 354.3 338.5	17.2 16.8 17.6 16.6 15.6	35.8 35.9 35.8 35.6 35.6	1,832.5 1,831.4 1,832.8 1,837.9 1,840.2	1,488.6 1,496.9 1,511.4 1,520.3 1,522.0	282.3 272.3 259.4 254.3 254.2	61.6 62.2 62.1 63.4 64.0
IV 2012: I III IV ^p	3,051.0 3,054.6 3,053.7 3,093.3 3,049.9	1,211.2 1,207.7 1,210.7 1,241.4 1,197.4	812.8 806.4 807.8 834.5 787.9	704.0 703.5 701.1 728.1 681.4	11.1 9.5 8.3 7.2 8.8	97.7 93.4 98.4 99.2 97.8	398.4 401.3 402.9 406.8 409.4	348.0 352.1 353.7 358.2 359.8	14.5 13.4 13.1 12.3 12.8	35.9 35.8 36.1 36.3 36.9	1,839.7 1,846.9 1,843.0 1,851.9 1,852.5	1,518.4 1,531.4 1,525.5 1,532.4 1,534.4	257.5 251.3 251.6 253.6 250.3	63.8 64.2 65.9 65.9 67.9

TABLE B-21. Real government consumption expenditures and gross investment by type, 1995-2012

[Billions of chained (2005) dollars; quarterly data at seasonally adjusted annual rates]

					Governme	nt consum	ption expe	enditures a	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
1995 1996 1997 1998	1,888.9 1,907.9 1,943.8 1,985.0 2,056.1	704.1 696.0 689.1 681.4 694.6	476.8 470.4 457.2 447.5 455.8	424.5 418.5 412.2 401.2 407.6	10.1 9.2 8.7 8.1 7.2	43.7 43.8 38.9 40.1 42.4	227.5 225.7 231.9 233.7 238.7	201.2 196.2 203.2 201.2 202.9	15.7 15.9 13.8 14.5 14.0	13.7 15.5 16.6 18.7 21.7	1,183.6 1,211.1 1,254.3 1,303.8 1,361.8	983.0 1,001.0 1,027.7 1,070.8 1,109.5	175.4 184.3 196.7 196.5 210.9	29.1 29.9 33.1 37.7 41.8
2000	2,097.8 2,178.3 2,279.6 2,330.5 2,362.0 2,369.9 2,402.1 2,434.2 2,497.4 2,589.4	698.1 726.5 779.5 831.1 865.0 876.3 894.9 906.1 971.1 1,030.6	453.5 470.7 505.3 549.2 580.4 589.0 598.4 611.8 657.7 696.9	403.9 418.5 445.8 484.1 509.4 514.8 519.1 528.0 559.6 592.1	6.9 6.5 7.0 8.5 7.8 7.5 7.5 8.8 11.5	43.6 46.3 52.7 57.0 63.3 66.8 71.9 75.1 87.0 90.7	244.4 255.5 273.9 281.7 284.6 287.3 296.6 294.2 313.3 333.7	212.4 224.2 239.7 247.1 250.2 251.0 257.5 254.7 271.0 289.8	10.4 9.8 11.8 11.9 9.9 8.3 8.8 9.8 9.6 10.1	21.5 21.6 22.7 23.0 24.6 28.0 30.3 29.7 33.0 33.7	1,400.1 1,452.3 1,500.6 1,499.7 1,497.1 1,493.6 1,507.2 1,528.1 1,561.8	1,133.7 1,172.6 1,211.3 1,207.5 1,207.4 1,212.0 1,220.7 1,239.8 1,237.1 1,275.9	222.2 234.8 244.2 245.5 241.3 230.8 231.4 227.6 227.9 224.8	44.3 45.3 45.8 47.2 48.6 50.8 55.2 61.6 64.4 62.6
2010 2011 2012 ^p	2,605.8 2,523.9 2,481.3	1,076.8 1,047.0 1,024.1	717.6 699.1 677.3	610.0 599.0 580.4	14.2 11.2 6.8	93.7 89.1 90.7	359.2 347.9 347.0	308.8 298.4 300.2	14.0 13.2 10.2	36.2 36.3 36.8	1,534.1 1,482.0 1,461.9	1,258.9 1,229.4 1,219.1	214.8 192.9 182.3	62.7 63.6 65.5
2009: I II IV	2,531.6 2,590.4 2,614.3 2,621.1	995.8 1,028.2 1,043.9 1,054.6	670.8 696.3 709.1 711.4	571.5 590.4 601.9 604.4	13.7 14.2 14.9 14.5	85.7 92.0 92.6 92.7	325.0 331.8 334.7 343.2	281.8 289.2 290.7 297.5	9.9 9.4 10.2 11.1	33.3 33.3 33.7 34.5	1,538.3 1,565.2 1,573.6 1,570.2	1,253.2 1,275.5 1,285.1 1,289.9	224.1 228.5 227.6 219.0	62.4 62.4 62.3 63.5
2010: 	2,600.4 2,618.7 2,616.7 2,587.4	1,056.2 1,081.0 1,090.7 1,079.4	704.8 717.3 729.9 718.6	601.5 609.5 619.2 609.8	13.6 14.3 14.7 14.2	89.8 93.7 96.3 95.0	351.5 363.7 360.8 360.8	303.2 312.4 309.6 309.8	12.5 15.0 14.5 14.1	35.6 35.9 36.6 36.8	1,548.3 1,542.7 1,531.6 1,513.6	1,276.4 1,263.6 1,252.2 1,243.3	211.3 218.8 219.2 210.1	63.4 62.4 62.0 62.8
2011: 	2,540.7 2,535.4 2,516.6 2,502.7	1,050.4 1,057.5 1,045.9 1,034.2	691.3 705.2 709.8 690.1	591.9 602.9 611.0 590.0	13.0 12.2 10.5 9.0	86.2 90.2 88.2 91.7	359.3 352.3 335.9 344.1	307.8 302.4 287.3 296.1	14.7 13.7 12.7 11.7	36.6 36.2 36.0 36.4	1,495.3 1,483.4 1,475.9 1,473.3	1,237.3 1,231.0 1,225.8 1,223.5	198.7 192.6 190.1 190.1	62.6 63.7 64.1 63.8
2012: V	2,483.7 2,479.4 2,503.1 2,458.9	1,023.1 1,022.5 1,045.9 1,005.0	677.6 677.3 698.1 656.0	582.9 579.8 600.5 558.7	7.8 6.7 5.8 7.0	87.2 91.5 92.5 91.4	345.6 345.3 347.8 349.3	298.7 298.6 301.6 302.1	10.7 10.4 9.7 10.1	36.3 36.6 36.8 37.5	1,465.3 1,461.6 1,462.7 1,458.0	1,221.9 1,218.7 1,219.4 1,216.5	184.0 182.5 183.0 179.8	64.0 65.5 65.3 67.4

Note: See Table B-2 for data for total government consumption expenditures and gross investment for 1964-94.

TABLE B-22. Private inventories and domestic final sales by industry, 1964-2012

[Billions of dollars, except as noted; seasonally adjusted]

				Private in	ventories ¹			I	Final sales	inven	f private tories sales of
Quarter	Total ²	Farm	Mining, utilities, and construc-	Manufac- turing	Wholesale trade	Retail trade	Other indus- tries ²	Non- farm ²	of domestic busi- ness ³	domestic	business Non-
F			tion ²								farm
Fourth quarter: 1964 1965 1966 1967 1968 1969	154.5 169.4 185.6 194.8 208.1 227.4	42.2 47.2 47.3 45.7 48.8 52.8		58.6 63.4 73.0 79.9 85.1 92.6	20.8 22.5 25.8 28.1 29.3 32.5	25.2 28.0 30.6 30.9 34.2 37.5	7.7 8.3 8.9 10.1 10.6 12.0	112.2 122.2 138.3 149.1 159.3 174.6	40.8 44.9 47.4 49.9 55.0 58.7	3.79 3.77 3.92 3.90 3.79 3.88	2.75 2.72 2.92 2.99 2.90 2.98
1970 1971 1972 1973 1974 1975 1976 1977 1978	235.7 253.7 283.6 351.5 405.6 408.5 439.6 482.0 570.9 667.6	52.4 59.3 73.7 102.2 87.6 89.5 85.3 90.6 119.3 134.9		95.5 96.6 102.1 121.5 162.6 162.2 178.7 193.2 219.8 261.8	36.4 39.4 43.1 51.7 66.9 66.5 74.1 84.0 99.0 119.5	38.5 44.7 49.8 58.4 63.9 64.4 73.0 80.9 94.1 104.7	12.9 13.7 14.8 17.7 24.7 25.9 28.5 33.3 38.8 46.6	183.3 194.4 209.9 249.4 318.1 319.0 354.2 391.4 451.7 532.6	61.9 67.5 75.7 83.7 89.8 101.1 111.2 124.0 143.6 159.4	3.81 3.76 3.74 4.20 4.52 4.04 3.95 3.89 3.98 4.19	2.96 2.88 2.77 2.98 3.54 3.16 3.19 3.16 3.15 3.34
1980	739.0 779.1 773.9 796.9 869.0 875.9 858.0 924.2 999.7 1,044.3	140.3 127.4 131.3 131.7 131.4 125.8 113.0 119.9 130.7 129.6		293.4 313.1 304.6 308.9 344.5 333.3 320.6 339.6 372.4 390.5	139.4 148.8 147.9 153.4 169.1 175.9 182.0 195.8 213.9 222.8	111.7 123.2 123.2 137.6 157.0 171.4 176.2 199.1 213.2 231.4	54.1 66.6 66.8 65.2 66.9 69.5 66.3 69.9 70.1	598.7 651.7 642.6 665.1 737.6 750.2 745.1 804.4 869.1 914.7	174.1 186.7 194.8 215.7 233.6 249.5 264.2 277.7 304.1 322.8	4.24 4.17 3.97 3.69 3.72 3.51 3.25 3.33 3.29 3.23	3.44 3.49 3.30 3.08 3.16 3.01 2.82 2.90 2.86 2.83
1990	1,082.0 1,057.2 1,082.6 1,116.0 1,194.5 1,257.2	133.1 123.2 133.1 132.3 134.5 131.1		404.5 384.1 377.6 380.1 404.3 424.5	236.8 239.2 248.3 258.6 281.5 303.7	236.6 240.2 249.4 268.6 293.6 312.2	71.0 70.5 74.3 76.5 80.6 85.6	948.9 934.0 949.5 983.7 1,060.0 1,126.1	335.9 345.7 370.9 391.4 413.9 436.0	3.22 3.06 2.92 2.85 2.89 2.88	2.82 2.70 2.56 2.51 2.56 2.58
1996 1997 1998 1999	1,284.7 1,327.3 1,341.6 1,432.7	136.6 136.9 120.5 124.3	31.1 33.0 36.6 38.5	421.0 432.0 432.3 457.6	285.1 302.5 312.0 334.8	328.7 335.9 349.2 377.7	82.1 87.1 91.1 99.8	1,148.1 1,190.4 1,221.1 1,308.4	465.6 492.2 525.8 557.2	2.76 2.70 2.55 2.57	2.47 2.42 2.32 2.35
2000	1,524.0 1,447.3 1,489.1 1,545.7 1,681.5 1,804.6 1,917.1 2,077.5 2,024.3	132.1 126.2 135.9 151.0 157.2 165.2 165.1 188.3 185.4	42.3 45.3 46.5 54.7 64.1 81.7 90.7 95.6 94.0	476.5 440.9 443.7 447.6 487.2 531.5 575.7 635.6 604.5	357.7 335.8 343.2 352.6 388.9 422.8 456.4 497.2 496.9	400.8 386.0 408.0 425.5 460.9 473.7 491.6 511.8 488.9	114.6 113.0 111.8 114.3 123.2 129.8 137.7 148.9 154.6	1,391.8 1,321.1 1,353.2 1,394.7 1,524.3 1,639.4 1,752.0 1,889.2 1,838.9	588.3 603.0 608.5 646.2 683.4 727.5 769.6 807.0 782.5	2.59 2.40 2.45 2.39 2.46 2.48 2.49 2.57 2.59	2.37 2.19 2.22 2.16 2.23 2.25 2.28 2.34 2.35
2009: I II IV	1,950.6 1,905.7 1,866.8 1,889.7	180.9 176.0 171.2 173.1	89.3 85.9 85.1 84.3	586.4 580.9 578.8 588.6	472.9 455.9 438.6 447.6	471.1 458.9 445.1 447.0	150.0 148.1 148.1 149.1	1,769.6 1,729.7 1,695.6 1,716.5	775.3 768.8 770.2 768.7	2.52 2.48 2.42 2.46	2.28 2.25 2.20 2.23
2010: I II III IV	1,930.8 1,936.9 1,998.6 2,080.8	182.5 181.3 191.0 208.7	86.7 86.9 88.0 89.8	603.0 599.5 613.8 643.7	455.6 459.1 485.5 512.3	452.7 460.3 470.3 474.1	150.3 149.7 149.9 152.1	1,748.3 1,755.6 1,807.6 1,872.1	772.1 781.3 787.4 805.4	2.50 2.48 2.54 2.58	2.26 2.25 2.30 2.32
2011: I II III IV	2,180.6 2,211.1 2,225.7 2,249.5	232.9 231.3 235.8 240.4	92.1 95.0 95.7 97.5	681.3 690.7 690.8 699.5	535.0 549.7 554.8 562.8	482.5 485.6 489.5 489.2	156.8 158.9 159.1 160.1	1,947.7 1,979.8 1,989.8 2,009.1	811.0 823.2 837.2 844.8	2.69 2.69 2.66 2.66	2.40 2.40 2.38 2.38
2012: W p	2,286.1 2,272.5 2,320.9 2,337.7	242.8 238.3 236.6 236.4	99.4 98.6 98.1 103.9	711.3 694.8 710.7 710.7	574.1 570.2 594.5 597.6	498.4 507.9 517.2 522.6	160.1 162.7 163.8 166.5	2,043.3 2,034.2 2,084.3 2,101.3	855.6 865.6 877.7 888.2	2.67 2.63 2.64 2.63	2.39 2.35 2.37 2.37

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 imputed rental of owner-occupied nonfarm 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).

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

TABLE B-23. Real private inventories and domestic final sales by industry, 1964-2012

[Billions of chained (2005) 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-		sales of business
			construc- tion ²	turniy	lidue	udue	tries ²	Idilli-	ness 3	Total	Non- farm
Fourth quarter: 1964	557.9 590.8 637.9 671.8 702.6 732.9	135.1 137.7 136.3 138.8 142.9 142.9		198.2 212.2 240.6 259.6 271.5 284.1	82.2 87.8 99.5 107.7 111.5 119.7	81.1 89.3 96.6 96.6 104.8 112.1	44.7 46.6 47.9 53.5 55.1 57.9	407.3 437.8 487.9 519.5 545.9 576.8	176.1 191.3 195.4 200.3 211.2 215.5	3.17 3.09 3.26 3.35 3.33 3.40	2.31 2.29 2.50 2.59 2.58 2.68
1970	738.5 763.5 789.1 828.1 857.2 844.4 878.7 921.8 967.4 995.4	140.5 144.6 145.0 146.8 142.4 148.2 146.6 153.9 155.9		284.0 280.6 288.3 309.6 333.0 324.6 340.1 349.6 365.6 379.7	128.7 135.5 141.6 145.4 158.9 152.1 162.2 175.3 189.3 198.7	112.2 127.4 137.3 148.4 146.2 138.8 149.5 158.1 168.7	58.6 60.7 63.7 67.0 71.4 73.3 74.0 79.6 84.4 84.3	585.5 606.1 632.8 673.3 712.3 690.9 728.5 764.2 809.1 832.8	218.1 229.3 248.4 257.1 247.5 259.3 272.0 286.4 307.8 315.0	3.39 3.33 3.18 3.22 3.46 3.26 3.23 3.22 3.14 3.16	2.68 2.64 2.55 2.62 2.88 2.66 2.68 2.67 2.63 2.64
1980	986.0 1,025.0 1,005.3 997.7 1,075.9 1,101.3 1,109.8 1,143.0 1,164.9 1,195.6	153.0 163.1 170.6 153.1 159.4 166.5 164.2 155.1 142.0		380.1 385.2 367.9 367.5 399.4 392.4 388.3 397.6 416.2 431.8	204.0 209.8 207.2 206.3 222.8 229.2 237.7 245.4 254.9 258.5	163.8 172.8 168.9 182.7 205.0 220.8 224.3 246.1 253.9 268.8	82.9 92.3 89.4 88.3 89.7 94.8 98.3 100.8 99.3 94.8	832.4 860.6 833.3 844.0 916.3 934.7 945.1 986.2 1,021.6 1,052.4	314.7 312.4 311.2 334.7 353.1 369.4 383.3 393.8 414.2 426.4	3.13 3.28 3.23 2.98 3.05 2.98 2.90 2.90 2.81 2.80	2.65 2.75 2.68 2.52 2.60 2.53 2.47 2.50 2.47 2.47
1990 1991 1992 1993 1994 1995	1,212.1 1,210.7 1,228.6 1,250.8 1,320.1 1,352.2	148.6 146.7 153.8 146.3 160.0 147.0		441.6 434.2 429.0 432.9 446.3 461.7	267.2 271.5 280.3 286.5 302.7 316.2	267.2 267.7 272.5 288.3 309.4 321.9	91.2 94.8 97.7 101.2 106.1 108.6	1,066.4 1,066.8 1,077.7 1,107.6 1,163.4 1,207.7	427.7 427.4 450.6 466.3 484.9 502.7	2.83 2.83 2.73 2.68 2.72 2.69	2.49 2.50 2.39 2.38 2.40 2.40
1996 1997 1998	1,383.4 1,460.8 1,532.4 1,600.9	155.3 159.0 160.6 156.9	47.6 50.1 59.1 57.1	465.7 490.0 507.6 523.8	298.0 324.9 348.6 369.7	335.3 349.5 364.7 390.5	87.6 93.2 99.0 106.6	1,230.9 1,304.4 1,373.9 1,444.7	528.6 550.7 585.4 615.6	2.62 2.65 2.62 2.60	2.33 2.37 2.35 2.35
2000	1,661.1 1,619.4 1,632.1 1,649.5 1,715.8 1,765.8 1,825.2 1,852.9 1,816.6	155.2 155.3 152.2 152.4 160.3 160.4 156.7 155.9 156.9	54.3 65.1 61.0 68.2 69.6 73.4 90.3 90.3 81.8	531.9 505.7 500.5 492.0 498.0 519.0 536.0 551.4 537.3	390.4 376.8 376.7 376.3 396.8 415.0 428.3 432.8 441.7	411.1 400.5 424.2 441.5 465.2 469.8 480.6 484.8 458.3	119.3 119.1 118.0 119.6 126.0 128.3 132.9 137.2 138.8	1,505.9 1,464.4 1,480.0 1,497.2 1,555.6 1,605.4 1,668.6 1,697.3 1,659.7	638.0 644.2 644.8 676.3 696.6 718.7 744.4 766.1 730.4	2.60 2.51 2.53 2.44 2.46 2.46 2.45 2.42 2.49	2.36 2.27 2.30 2.21 2.23 2.23 2.24 2.22 2.27
2009: I II III IV	1,779.1 1,732.7 1,687.3 1,677.6	156.8 156.6 155.4 155.5	82.1 81.6 80.1 75.5	530.2 520.6 511.9 511.7	425.3 404.9 386.8 386.1	444.5 430.5 415.4 411.5	137.9 136.4 135.7 135.0	1,622.0 1,575.7 1,531.5 1,521.8	723.6 717.4 716.5 713.3	2.46 2.42 2.35 2.35	2.24 2.20 2.14 2.13
2010: I II III IV	1,685.3 1,693.6 1,717.3 1,728.5	155.2 154.2 151.6 149.3	74.4 75.9 75.9 76.9	514.5 513.4 520.1 528.8	389.6 393.2 406.3 411.8	414.5 420.8 427.7 426.6	134.7 134.0 133.6 133.2	1,529.7 1,539.1 1,565.7 1,579.8	715.5 721.6 723.9 736.6	2.36 2.35 2.37 2.35	2.14 2.13 2.16 2.14
2011: I II III IV	1,736.1 1,743.0 1,741.9 1,759.6	148.0 146.6 145.8 145.5	75.8 76.1 76.2 78.1	534.1 538.2 538.8 547.7	415.5 421.6 422.3 429.8	426.8 424.4 423.2 422.3	134.0 134.1 133.7 134.2	1,589.0 1,597.9 1,597.7 1,616.3	739.9 745.9 751.9 758.2	2.35 2.34 2.32 2.32	2.15 2.14 2.12 2.13
2012: I II IV P	1,773.8 1,784.2 1,799.2 1,802.2	144.8 142.8 138.1 134.3	82.0 82.8 81.6 82.1	550.7 550.2 559.3 559.2	434.6 438.0 446.0 448.5	427.6 434.9 439.7 444.6	132.7 135.3 136.3 137.0	1,631.8 1,645.1 1,667.2 1,675.5	765.2 770.5 775.0 783.6	2.32 2.32 2.32 2.30	2.13 2.14 2.15 2.14

¹ 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.

² Inventories of construction, mining, and utilities estate a rainbal 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 imputed rental of owner-occupied nonfarm 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 (2005) dollar inventory series.

TABLE B-24. Foreign transactions in the national income and product accounts, 1964-2012

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

	Curre	Current receipts from rest of the world							Current p	ayments 1	to rest of	the world			
		Exp	orts of go nd service	ods s	ln.			orts of go nd service		In-	to	transfer p	axes and payments world (n	iet)	Balance
Year or quarter	Total	Total	Goods ¹	Serv- ices ¹	In- come re- ceipts	Total	Total	Goods ¹	Serv- ices ¹	come pay- ments	Total	From per- sons (net)	From gov- ern- ment (net)	From busi- ness (net)	on current account, NIPA ²
1964 1965 1966 1967 1968	42.3 45.0 49.0 52.1 58.0 63.7	35.0 37.1 40.9 43.5 47.9 51.9	26.7 27.8 30.7 32.2 35.3 38.3	8.3 9.4 10.2 11.3 12.6 13.7	7.2 7.9 8.1 8.7 10.1 11.8	34.8 38.9 45.2 48.7 56.5 62.1	28.1 31.5 37.1 39.9 46.6 50.5	19.4 22.2 26.3 27.8 33.9 36.8	8.7 9.3 10.7 12.2 12.6 13.7	2.3 2.6 3.0 3.3 4.0 5.7	4.4 4.7 5.1 5.5 5.9 5.9	0.7 .8 .8 1.0 1.0	3.5 3.8 4.1 4.2 4.6 4.5	0.2 .2 .2 .2 .3	7.5 6.2 3.8 3.5 1.5
1970 1971 1972 1973 1974 1975 1976 1977 1978	72.5 77.0 87.1 118.8 156.5 166.7 181.9 196.6 233.1 298.5	59.7 63.0 70.8 95.3 126.7 138.7 149.5 159.4 186.9 230.1	44.5 45.6 51.8 73.9 101.0 109.6 117.8 123.7 145.4 184.0	15.2 17.4 19.0 21.3 25.7 29.1 31.7 35.7 41.5 46.1	12.8 14.0 16.3 23.5 29.8 28.0 32.4 37.2 46.3 68.3	68.8 76.7 91.2 109.9 150.5 146.9 174.8 207.5 245.8 299.6	55.8 62.3 74.2 91.2 127.5 122.7 151.1 182.4 212.3 252.7	40.9 46.6 56.9 71.8 104.5 99.0 124.6 152.6 177.4 212.8	14.9 15.8 17.3 19.3 22.9 23.7 26.5 29.8 34.8 39.9	6.4 7.7 10.9 14.3 15.0 15.5 16.9 24.7 36.4	6.6 7.9 9.2 7.9 8.7 9.1 8.1 8.1 8.8 10.6	1.3 1.4 1.6 1.3 1.4 1.4 1.6	4.9 6.1 7.4 5.6 6.4 7.1 5.7 5.3 6.8	.4 .5 .7 1.0 .7 1.1 1.4 2.0	3.7 .3 -4.0 8.9 6.0 19.8 7.1 -10.9 -12.6 -1.2
1980 1981 1982 1983 1984 1985 1986 1987 1987	359.9 397.3 384.2 378.9 424.2 414.5 431.3 486.6 595.5 680.3	280.8 305.2 283.2 277.0 302.4 302.0 320.3 363.8 443.9 503.1	225.8 239.1 215.0 207.3 225.6 222.2 226.0 257.5 325.8 369.4	55.0 66.1 68.2 69.7 76.7 79.8 94.3 106.2 118.1 133.8	79.1 92.0 101.0 101.9 121.9 112.4 111.0 122.8 151.6 177.2	351.4 393.9 387.5 413.9 514.3 528.8 574.0 640.7 711.2 772.7	293.8 317.8 303.2 328.6 405.1 417.2 452.9 508.7 554.0 591.0	248.6 267.8 250.5 272.7 336.3 343.3 370.0 414.8 452.1 484.8	45.3 49.9 52.6 56.0 68.8 73.9 82.9 93.9 101.9 106.2	44.9 59.1 64.5 64.8 85.6 85.9 93.4 105.2 128.3 151.2	12.6 17.0 19.8 20.5 23.6 25.7 27.8 26.8 29.0 30.4	2.0 5.6 6.7 7.0 7.9 8.3 9.1 10.0 10.8 11.6	8.3 9.7 10.1 12.2 14.4 15.4 13.4 13.7 14.2	2.4 3.2 3.4 3.5 2.9 3.2 3.4 4.5 4.6	8.5 3.4 -3.3 -35.1 -90.1 -114.3 -142.7 -154.1 -115.7 -92.4
1990 1991 1992 1993 1994 1995 1996 1997 1998	740.6 764.7 786.8 810.8 904.8 1,041.1 1,113.5 1,233.9 1,240.1 1,308.8	552.1 596.6 635.0 655.6 720.7 811.9 867.7 954.4 953.9 989.3	396.6 423.6 448.0 459.9 510.1 583.3 618.3 687.7 680.9 697.2	155.5 173.0 187.0 195.7 210.6 228.6 249.3 266.7 273.0 292.1	188.5 168.1 151.8 155.2 184.1 229.3 245.8 279.5 286.2 319.5	815.6 756.9 832.4 889.4 1,019.5 1,146.2 1,227.6 1,363.3 1,444.6 1,600.7	629.7 623.5 667.8 720.0 813.4 902.6 964.0 1,055.8 1,115.7 1,251.4	508.1 500.7 544.9 592.8 676.8 757.4 807.4 885.7 930.8 1,047.7	121.7 122.8 122.9 127.2 136.6 145.1 156.5 170.1 184.9 203.7	154.1 138.2 122.7 124.0 160.0 199.6 214.2 256.1 268.9 291.7	31.7 -4.9 41.9 45.4 46.1 44.1 49.5 51.4 60.0 57.6	12.2 14.1 14.5 17.1 18.9 20.3 22.6 25.7 29.7 32.2	14.7 -24.0 22.0 22.9 21.1 15.6 20.0 16.7 17.4 18.0	4.8 5.0 5.4 5.4 6.0 8.2 6.9 9.1 13.0 7.4	-74.9 7.9 -45.6 -78.6 -114.7 -105.1 -114.1 -129.3 -204.5 -291.9
2000 2001 2002 2003 2004 2005 2006 2007 2008 2009	1,473.7 1,350.8 1,316.5 1,394.4 1,628.8 1,878.1 2,192.1 2,532.7 2,702.9 2,229.9	1,093.2 1,027.7 1,003.0 1,041.0 1,180.2 1,305.1 1,471.0 1,661.7 1,846.8 1,587.4	784.3 731.2 700.3 726.8 817.0 906.1 1,024.4 1,162.0 1,297.5 1,064.7	308.9 296.5 302.7 314.2 363.2 399.0 446.6 499.7 549.3 522.7	380.5 323.0 313.5 353.3 448.6 573.0 721.1 871.0 856.1 642.4	1,884.1 1,742.4 1,768.1 1,910.5 2,253.4 2,618.6 2,990.5 3,248.7 3,381.9 2,612.0	1,475.3 1,398.7 1,430.2 1,545.1 1,798.9 2,027.8 2,240.3 2,374.8 2,556.5 1,976.2	1,246.5 1,171.7 1,193.9 1,289.3 1,501.7 1,708.0 1,884.9 2,000.7 2,146.3 1,587.5	228.8 227.0 236.3 255.9 297.3 319.8 355.4 374.0 410.1 388.7	342.8 271.1 264.4 284.6 357.4 475.9 648.6 747.7 686.9 498.9	66.1 72.6 73.5 80.7 97.1 115.0 101.5 126.2 138.4 137.0	34.6 38.1 40.6 41.2 43.6 48.4 51.6 59.3 66.2 66.1	20.0 16.2 21.6 25.8 27.2 35.3 28.8 36.1 37.1 49.7	11.4 18.3 11.3 13.7 26.3 31.3 21.1 30.8 35.2 21.2	-410.4 -391.6 -451.6 -516.1 -624.6 -740.5 -798.4 -716.0 -679.0 -382.2
2010 2011 2012 ^p 2009: I	2,560.9 2,877.9 2,151.3	1,844.4 2,094.2 2,182.6 1,523.5	1,278.5 1,474.5 1,542.3 1,012.0	565.9 619.7 640.2 511.5	716.5 783.7 627.8	3,009.8 3,343.7 2,546.6	2,356.1 2,662.3 2,743.3 1,908.9	1,947.0 2,229.2 2,291.6 1,521.5	409.1 433.0 451.8 387.4	507.2 531.8 509.6	146.5 149.6 157.1 128.2	73.5 73.9 76.4 63.7	51.2 55.5 54.3 39.6	21.9 20.2 26.4 24.9	-448.8 -465.8 -395.4
II III IV	2,140.3 2,234.0 2,393.9	1,525.3 1,594.7 1,706.3	1,010.6 1,073.7 1,162.5	514.7 521.1 543.8	615.0 639.2 687.6	2,494.3 2,615.0 2,792.1	1,856.9 1,993.3 2,145.5	1,475.1 1,605.1 1,748.1	381.8 388.2 397.4	499.2 476.2 510.5	138.2 145.4 136.0	65.2 65.9 69.4	53.3 61.0 45.0	19.7 18.5 21.6	-354.0 -381.0 -398.2
2010: I II IV	2,438.9 2,519.3 2,587.2 2,698.3	1,751.9 1,814.3 1,861.2 1,950.4	1,206.1 1,257.3 1,288.1 1,362.6	545.7 557.0 573.0 587.7	687.1 705.1 726.1 747.9	2,891.6 2,966.7 3,051.8 3,129.0	2,242.0 2,335.4 2,394.3 2,452.5	1,841.2 1,932.6 1,978.3 2,035.8	400.8 402.8 416.0 416.7	495.6 489.3 509.1 534.9	154.0 142.0 148.4 141.7	73.4 73.2 74.2 73.1	56.3 46.2 51.6 50.6	24.2 22.6 22.6 18.0	-452.7 -447.4 -464.6 -430.8
2011: I II III IV	2,791.8 2,890.2 2,922.2 2,907.3	2,030.5 2,092.8 2,133.3 2,120.3	1,425.8 1,471.8 1,498.5 1,501.9	604.7 621.0 634.8 618.4	761.4 797.4 788.9 787.1	3,269.5 3,364.3 3,357.1 3,383.7	2,585.9 2,665.3 2,682.8 2,715.1	2,165.2 2,234.9 2,239.6 2,277.3	420.7 430.4 443.2 437.8	526.1 547.4 530.6 523.1	157.5 151.6 143.8 145.5	73.5 73.8 73.3 75.1	54.4 63.0 51.7 52.9	29.7 14.8 18.7 17.5	-477.7 -474.1 -434.9 -476.3
2012: V p	2,927.5 2,963.6 2,974.5	2,157.9 2,188.5 2,198.7 2,185.2	1,525.8 1,550.5 1,555.1 1,537.8	632.1 637.9 643.5 647.5	769.6 775.1 775.8	3,480.7 3,448.5 3,408.2	2,773.7 2,765.4 2,715.5 2,718.8	2,324.3 2,312.4 2,260.6 2,268.9	449.3 453.0 454.9 449.9	554.7 527.8 532.7	152.3 155.4 160.0 160.5	75.5 76.4 76.6 77.1	57.4 54.6 55.7 49.6	19.3 24.4 27.8 33.9	-553.2 -485.0 -433.7

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, 1995-2012

[Billions of chained (2005) 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
1995 1996 1997 1998	845.1 915.3 1,024.3 1,047.7 1,093.4	574.8 625.5 715.4 731.4 759.2	363.0 404.8 478.0 493.4 517.0	216.2 223.4 237.9 237.6 240.8	272.6 291.7 308.9 316.4 334.6	943.9 1,026.0 1,164.1 1,300.2 1,449.9	765.5 837.2 957.9 1,071.4 1,205.0	422.3 467.5 544.6 616.4 706.2	360.0 384.1 424.1 462.9 500.2	180.9 190.3 206.9 229.4 244.9
2000	1,187.4 1,120.8 1,098.3 1,116.0 1,222.5 1,305.1 1,422.1 1,554.4 1,649.3 1,498.7	843.4 791.2 762.7 776.4 842.6 906.1 991.5 1,088.1 1,157.0 1,018.6	583.7 535.1 504.8 513.7 570.7 624.9 692.0 756.1 795.8 660.4	256.5 255.2 259.1 263.8 272.2 281.2 299.6 331.9 359.8 351.1	343.5 329.3 335.6 339.6 380.0 399.0 430.6 466.3 492.3 479.6	1,638.7 1,592.6 1,646.8 1,719.7 1,910.4 2,027.8 2,151.5 2,203.2 2,144.0 1,853.8	1,366.7 1,323.1 1,372.2 1,439.9 1,599.3 1,708.0 1,806.1 1,784.8 1,506.4	813.7 763.4 795.4 829.7 944.6 1,025.4 1,115.6 1,141.2 1,099.3 870.9	549.2 564.2 580.2 615.2 655.8 682.6 694.5 715.7 686.6 626.4	271.7 269.6 274.5 279.8 311.0 319.8 342.4 347.1 359.8 347.8
2010 2011 2012 ^p	1,665.6 1,776.9 1,836.0	1,164.1 1,247.6 1,299.9	770.8 841.1 881.5	387.2 403.0 415.9	501.9 529.8 536.7	2,085.2 2,184.9 2,237.6	1,730.3 1,820.0 1,857.9	1,066.6 1,161.7 1,244.5	662.0 666.2 639.7	356.6 366.6 381.6
2009: I II IV	1,452.5 1,454.6 1,502.3 1,585.2	982.0 975.4 1,023.3 1,093.6	644.0 625.7 660.0 711.8	332.1 342.4 355.7 374.3	469.7 478.2 478.6 491.8	1,856.0 1,777.4 1,849.3 1,932.7	1,507.1 1,432.0 1,502.3 1,584.3	846.1 811.3 874.2 952.0	649.8 610.4 619.1 626.5	349.2 345.0 347.4 349.5
2010: I II IV	1,608.2 1,645.4 1,683.9 1,724.7	1,119.7 1,151.6 1,176.8 1,208.5	730.3 768.0 783.0 801.9	381.9 378.3 388.1 400.3	489.0 494.4 507.6 516.7	1,980.9 2,074.2 2,142.8 2,143.0	1,630.8 1,723.3 1,781.2 1,786.1	984.2 1,057.9 1,101.3 1,123.1	641.1 662.8 678.6 665.4	351.6 352.6 363.5 358.8
2011: I II IV	1,748.8 1,766.4 1,792.9 1,799.3	1,225.4 1,236.5 1,255.1 1,273.6	817.8 837.3 852.9 856.4	402.2 396.6 400.3 413.0	524.0 530.5 538.4 526.2	2,165.4 2,166.0 2,190.8 2,217.3	1,808.9 1,805.7 1,818.8 1,846.7	1,145.2 1,141.4 1,165.9 1,194.1	668.3 668.7 662.4 665.3	358.3 362.0 373.9 372.3
2012: I II IV P	1,818.7 1,842.1 1,850.9 1,832.5	1,286.3 1,308.3 1,311.8 1,293.2	883.2 884.6 886.0 872.1	403.4 420.6 422.4 417.4	532.9 534.4 539.6 539.8	2,234.2 2,249.6 2,246.1 2,220.4	1,855.8 1,868.9 1,863.1 1,843.9	1,238.0 1,253.5 1,243.0 1,243.6	642.4 642.4 645.1 628.8	380.4 382.6 385.0 378.5

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 1964-94. 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, 1964-2012

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

		Plus:	Less:	. ,	Less: Cons	sumption of fix	ed capital	·		
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
1964 1965 1966 1967	663.6 719.1 787.7 832.4 909.8	7.2 7.9 8.1 8.7 10.1	2.3 2.6 3.0 3.3 4.0	668.6 724.4 792.8 837.8 915.9	66.4 70.7 76.5 82.9 90.4	48.3 51.9 56.5 61.6 67.4	18.1 18.9 20.0 21.4 23.0	602.2 653.7 716.3 754.9 825.5	0.8 1.5 6.2 4.5 4.3	601.4 652.2 710.1 750.4 821.2
1969 1970 1971 1972 1973 1974 1975 1976 1977	984.4 1,038.3 1,126.8 1,237.9 1,382.3 1,499.5 1,637.7 1,824.6 2,030.1	11.8 12.8 14.0 16.3 23.5 29.8 28.0 32.4 37.2	5.7 6.4 6.4 7.7 10.9 14.3 15.0 15.5	990.5 1,044.7 1,134.4 1,246.4 1,394.9 1,515.0 1,650.7 1,841.4 2,050.4	99.2 108.3 117.8 127.2 140.8 163.7 190.4 208.2 231.8	74.5 81.7 89.5 97.7 109.5 127.8 150.4 165.5 186.1	24.7 26.6 28.2 29.4 31.3 35.9 39.9 42.6 45.6	891.4 936.4 1,016.6 1,119.3 1,254.1 1,351.3 1,460.3 1,633.3 1,818.6	2.9 6.9 11.0 8.9 8.0 9.8 16.3 23.5 21.2	888.5 929.5 1,005.6 1,110.3 1,246.1 1,341.5 1,609.8 1,797.4
1979 1980 1981 1982 1983 1984 1985 1986 1987	2,293.8 2,562.2 2,788.1 3,126.8 3,253.2 3,534.6 3,930.9 4,217.5 4,460.1 4,736.4 5,100.4	46.3 68.3 79.1 92.0 101.0 121.9 112.4 111.0 122.8 151.6	24.7 36.4 44.9 59.1 64.5 64.8 85.6 85.9 93.4 105.2 128.3	2,315.3 2,594.2 2,822.3 3,159.8 3,289.7 3,571.7 3,967.2 4,244.0 4,477.7 4,754.0 5,123.8	261.4 298.9 344.1 393.3 433.5 451.1 474.3 505.4 538.5 571.1 611.0	212.0 244.5 282.3 323.2 356.4 369.5 387.5 412.8 439.1 464.5 497.1	49.5 54.4 61.8 70.1 77.1 81.6 86.9 92.7 99.4 106.6 113.9	2,053.9 2,295.3 2,478.2 2,766.4 2,856.2 3,120.6 3,492.8 3,738.6 3,939.2 4,182.9 4,512.8	26.1 47.0 45.3 36.6 4.8 49.7 31.5 42.3 67.7 32.9 -9.5	2,027.9 2,248.3 2,433.0 2,729.8 2,851.4 3,070.9 3,461.3 3,696.3 3,871.5 4,150.0 4,522.3
1989	5,482.1 5,800.5 5,992.1 6,342.3 6,667.4 7,085.2 7,414.7 7,838.5 8,332.4 8,793.5 9,353.5	177.2 188.5 168.1 151.8 155.2 184.1 229.3 245.8 279.5 286.2 319.5	151.2 154.1 138.2 122.7 124.0 160.0 199.6 214.2 256.1 268.9 291.7	5,508.1 5,835.0 6,022.0 6,371.4 6,698.5 7,109.2 7,444.3 7,870.1 8,355.8 8,810.8 9,381.3	651.5 691.2 724.4 744.4 778.0 819.2 869.5 912.5 963.8 1,020.5 1,094.4	529.6 560.4 585.4 599.9 626.4 661.0 704.6 743.4 789.7 841.6 907.2	121.8 130.8 138.9 144.5 151.6 158.2 164.8 169.2 174.1 179.0 187.2	4,856.6 5,143.7 5,297.6 5,627.1 5,920.5 6,290.1 6,574.9 6,957.6 7,392.0 7,790.3 8,286.9	56.1 84.2 79.7 110.0 135.8 108.8 52.5 25.9 -14.0 -85.3 -71.1	4,800.5 5,059.5 5,217.9 5,517.1 5,784.7 6,181.3 6,522.3 6,931.7 7,406.0 7,875.6 8,358.0
2000	9,951.5 10,286.2 10,642.3 11,142.2 11,853.3 12,623.0 13,377.2 14,028.7 14,291.5 13,973.7	380.5 323.0 313.5 353.3 448.6 573.0 721.1 871.0 856.1 642.4	342.8 271.1 264.4 284.6 357.4 475.9 648.6 747.7 686.9 498.9	9,989.2 10,338.1 10,691.4 11,210.9 11,944.5 12,720.1 13,449.6 14,151.9 14,460.7 14,117.2	1,184.3 1,256.2 1,305.0 1,354.1 1,432.8 1,541.4 1,660.7 1,767.5 1,854.1 1,866.3	986.8 1,051.6 1,094.0 1,135.9 1,200.9 1,290.8 1,391.4 1,476.2 1,542.9	197.5 204.6 210.9 218.1 231.9 250.6 269.3 291.3 311.2 323.5	8,804.9 9,081.9 9,386.4 9,856.9 10,511.7 11,178.7 11,789.0 12,384.4 12,606.6 12,250.9	-134.0 -103.4 -22.1 16.7 -22.3 -95.1 -242.3 -12.0 -2.4 118.3	8,938.9 9,185.2 9,408.5 9,840.2 10,534.0 11,273.8 12,031.2 12,396.4 12,609.1 12,132.6
2010 2011 2012 <i>p</i>	14,498.9 15,075.7 15,681.5	716.5 783.7	507.2 531.8	14,708.2 15,327.5	1,873.4 1,936.8 2,011.8	1,539.9 1,587.4 1,647.8	333.5 349.4 363.9	12,834.8 13,390.8	23.3 31.9	12,811.4 13,358.9
2009: I II IV	13,923.4 13,885.4 13,952.2 14,133.6	627.8 615.0 639.2 687.6	509.6 499.2 476.2 510.5	14,041.7 14,001.3 14,115.2 14,310.8	1,885.5 1,867.7 1,854.4 1,857.6	1,562.9 1,544.7 1,531.1 1,532.3	322.5 323.0 323.3 325.3	12,156.2 12,133.5 12,260.7 12,453.1	55.5 132.5 158.6 126.5	12,100.7 12,001.0 12,102.1 12,326.6
2010: V	14,270.3 14,413.5 14,576.0 14,735.9	687.1 705.1 726.1 747.9	495.6 489.3 509.1 534.9	14,461.7 14,629.3 14,793.0 14,948.9	1,863.1 1,867.5 1,875.5 1,887.7	1,534.5 1,535.4 1,540.5 1,549.3	328.6 332.1 335.0 338.4	12,598.6 12,761.8 12,917.5 13.061.2	15.6 39.7 -3.8 41.8	12,583.0 12,722.1 12,921.3 13,019.4
2011: I	14,814.9 15,003.6 15,163.2 15,321.0	761.4 797.4 788.9 787.1	526.1 547.4 530.6 523.1	15,050.1 15,253.6 15,421.5 15,585.0	1,904.3 1,927.4 1,948.9 1,966.6	1,561.7 1,580.4 1,596.5 1,611.0	342.6 347.1 352.4 355.5	13,145.8 13,326.2 13,472.6 13,618.4	-50.4 25.1 82.5 70.3	13,196.3 13,301.1 13,390.1 13,548.1
2012: I II IV P	15,478.3 15,585.6 15,811.0 15,851.2	769.6 775.1 775.8	554.7 527.8 532.7	15,693.2 15,832.9 16,054.2	1,984.9 2,004.8 2,019.8 2,037.6	1,625.9 1,642.0 1,654.2 1,669.2	359.0 362.8 365.6 368.4	13,708.3 13,828.1 14,034.4	1.1 77.7 138.5	13,707.2 13,750.5 13,895.9

TABLE B-27. Relation of national income and personal income, 1964-2012

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

			10118 01 00118	Plu	JS:	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, domestic	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
1964	601.4 652.2 710.1 750.4 821.2 888.5	75.5 86.5 92.5 90.2 97.3 94.5	54.5 57.7 59.3 64.1 72.2 79.3	22.4 23.4 31.3 34.9 38.7 44.1	17.4 19.6 22.4 25.5 27.1 32.7	3.1 3.6 3.5 3.8 4.3 4.9	1.3 1.3 1.0 .9 1.2 1.0	0.0 .0 .0 .0 .0	53.8 59.4 64.1 69.0 75.2 84.1	33.5 36.2 39.6 48.0 56.1 62.3	514.3 555.5 603.8 648.1 711.7 778.3
1970 1971 1971 1972 1973 1974 1975 1976 1976 1977 1978	929.5 1,005.6 1,110.3 1,246.1 1,341.5 1,444.0 1,609.8 1,797.4 2,027.9 2,248.3	82.5 96.1 111.4 124.5 115.1 133.3 161.6 191.8 218.4 225.4	86.6 95.8 101.3 112.0 121.6 130.8 141.3 152.6 162.0	46.4 51.2 59.2 75.5 85.2 89.3 101.3 113.1 131.3	39.1 43.9 47.9 55.2 70.8 81.6 85.5 101.1 115.0 138.9	4.5 4.3 4.9 6.0 7.1 9.4 9.5 8.5 10.8 13.3	.0 -2 .5 4 9 -3.2 -1.8 -2.7 -2.2 -2.9	.0 .6 .0 1 5 .1 .1 .3 2	93.5 101.0 109.6 124.7 146.4 162.2 178.4 205.3 234.8 274.7	74.7 88.1 97.9 112.6 133.3 170.0 184.0 194.2 209.6 235.3	838.6 903.1 992.6 1,110.5 1,222.7 1,334.9 1,474.7 1,632.5 1,836.7 2,059.5
1980	2,433.0 2,729.8 2,851.4 3,070.9 3,461.3 3,696.3 3,871.5 4,150.0 4,522.3 4,800.5	201.4 223.3 205.7 259.8 318.6 332.5 314.1 367.8 426.6 425.6	190.5 224.2 225.9 242.0 268.7 286.8 298.5 317.3 345.0 371.4	166.2 195.7 208.9 226.0 257.5 281.4 303.4 323.1 361.5 385.2	181.8 232.3 271.1 285.3 327.1 341.5 367.1 366.7 385.3 434.1	14.7 17.9 20.6 22.6 30.3 35.2 36.9 34.1 33.6 39.2	-5.1 -5.6 -4.5 -3.2 -1.9 .9 2 2.6 4.9	.0 .1 .0 4 .2 2 .0 .0	338.7 421.9 488.4 529.6 607.9 653.2 694.5 715.8 767.0 874.8	279.5 318.4 354.8 383.7 400.1 424.9 451.0 467.6 496.5 542.6	2,301.5 2,582.3 2,766.8 2,952.2 3,268.9 3,496.7 3,696.0 3,924.4 4,231.2 4,557.5
1990 1991 1992 1993 1994 1995 1996 1997 1998	5,059.5 5,217.9 5,517.1 5,784.7 6,181.3 6,522.3 6,931.7 7,406.0 7,875.6 8,358.0	434.4 457.3 496.2 543.7 628.2 716.2 801.5 884.8 812.4 856.3	398.0 429.6 453.3 466.4 512.7 523.1 545.5 577.8 603.1 628.4	410.1 430.2 455.0 477.4 508.2 532.8 555.1 587.2 624.7 661.3	444.2 418.2 387.7 364.6 362.2 358.3 371.1 407.6 479.3 481.4	40.1 39.9 40.7 40.5 41.9 45.8 53.8 51.3 65.2 69.0	1.6 5.7 8.2 8.7 9.6 13.1 14.4 14.1 13.3	.1 -15.8 6.4 17.6 16.4 3.6 -2.9 7 5.2	920.8 928.6 909.7 900.5 947.7 1,005.4 1,080.7 1,165.5 1,269.2 1,246.8	594.9 665.9 745.8 790.8 826.4 878.9 924.1 949.2 977.9	4,846.7 5,031.5 5,347.3 5,568.1 5,874.8 6,200.9 6,591.6 7,000.7 7,525.4 7,910.8
2000	8,938.9 9,185.2 9,408.5 9,840.2 10,534.0 11,273.8 12,031.2 12,396.4 12,609.1 12,132.6	819.2 784.2 872.2 977.8 1,246.9 1,456.1 1,608.3 1,510.6 1,248.4 1,342.3	662.7 669.0 721.4 757.7 817.0 869.3 935.5 972.6 985.7 963.5	705.8 733.2 751.5 778.9 827.3 872.7 921.8 959.5 987.3 963.1	539.3 544.4 506.4 504.1 461.6 543.0 652.2 731.6 870.1 640.5	87.0 101.3 82.4 76.1 81.7 95.9 83.0 103.3 123.0 133.4	9.1 4.0 6.3 7.0 1.2 -3.5 -4.2 -11.8 -16.0 -15.6	.0 .0 .0 15.0 -15.0 5.0 1.3 -6.3 -5.0	1,360.7 1,346.0 1,309.6 1,312.9 1,408.5 1,542.0 1,829.7 2,057.0 2,165.4 1,626.5	1,083.0 1,188.1 1,282.1 1,341.7 1,415.5 1,508.6 1,605.0 1,718.5 1,879.2 2,140.1	8,559.4 8,883.3 9,060.1 9,378.1 9,937.2 10,485.9 11,268.1 11,912.3 12,460.2 11,867.0
2010 2011 2012 P	12,811.4 13,358.9	1,702.4 1,827.0	998.0 1,036.2 1,069.5	983.3 919.3 948.3	567.9 527.4 503.2	140.0 132.6 127.9	-19.5 -26.5 -34.0	.0 .0 .0	1,598.3 1,685.1 1,747.3	2,284.3 2,319.2 2,375.6	12,321.9 12,947.3 13,405.9
2009: V	12,100.7 12,001.0 12,102.1 12,326.6	1,198.4 1,243.3 1,403.2 1,524.5	953.8 959.6 959.2 981.5	965.4 965.8 960.9 960.4	765.8 633.3 582.6 580.3	134.7 140.7 123.2 134.8	-16.6 -15.4 -14.5 -15.8	20.0 .0 .0 .0	1,814.8 1,634.4 1,537.8 1,519.1	2,033.6 2,171.2 2,169.6 2,186.1	11,927.5 11,879.3 11,794.9 11,866.2
2010: 	12,583.0 12,722.1 12,921.3 13,019.4	1,648.0 1,625.4 1,747.5 1,788.8	987.1 994.1 1,001.9 1,008.8	974.7 983.0 987.1 988.2	586.9 568.5 559.6 556.8	138.7 139.7 143.9 137.7	-16.8 -18.5 -20.1 -22.5	.0 .0 .0 .0	1,568.6 1,594.4 1,598.0 1,632.1	2,256.9 2,266.2 2,297.9 2,316.2	12,089.8 12,290.6 12,397.2 12,509.9
2011: I II IV	13,196.3 13,301.1 13,390.1 13,548.1	1,723.3 1,800.9 1,830.5 1,953.1	1,024.8 1,037.1 1,035.7 1,047.1	914.5 919.2 920.8 922.8	551.4 513.8 528.4 515.9	145.7 127.9 129.5 127.4	-23.1 -24.4 -27.5 -31.1	.0 .0 .0 .0	1,674.3 1,692.4 1,689.1 1,684.6	2,322.5 2,319.9 2,314.7 2,319.9	12,856.5 12,938.9 12,976.3 13,017.4
2012: I	13,707.2 13,750.5 13,895.9	1,900.1 1,921.9 1,967.6	1,067.7 1,069.8 1,067.8 1,072.7	942.6 944.4 948.7 957.6	515.6 489.5 518.2 489.6	130.5 127.9 123.8 129.3	-32.0 -34.1 -35.5 -34.4	.0 .0 .0 .0	1,696.4 1,730.8 1,712.8 1,849.1	2,348.0 2,365.2 2,388.0 2,401.3	13,227.1 13,327.0 13,406.2 13,663.2

Table B-28. National income by type of income, 1964-2012

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

					sation of em		any adjuste		Proprie	etors' incom valuation an option adjus	nd capital	Rental income
			Wage a	and salary a	ccruals		upplements ges and sala					of per- sons
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	with capital con- sump- tion adjust- ment
1964	601.4 652.2 710.1 750.4 821.2 888.5	370.7 399.5 442.7 475.1 524.3 577.6	337.8 363.8 400.3 429.0 472.0 518.3	64.9 69.9 78.4 86.5 96.7 105.6	272.9 293.8 321.9 342.5 375.3 412.7	32.9 35.7 42.3 46.1 52.3 59.3	20.3 22.7 25.5 28.1 32.4 36.5	12.6 13.1 16.8 18.0 20.0 22.8	59.4 63.9 68.2 69.8 74.2 77.5	9.8 12.0 13.0 11.6 11.7 12.8	49.6 51.9 55.2 58.2 62.5 64.7	19.4 19.9 20.5 20.9 20.6 20.9
1970 1971 1972 1973 1974 1975 1976 1977 1977	929.5 1,005.6 1,110.3 1,246.1 1,341.5 1,444.0 1,609.8 1,797.4 2,027.9 2,248.3	617.2 658.9 725.1 811.2 890.2 949.1 1,059.3 1,180.5 1,335.5 1,498.3	551.6 584.5 638.8 708.8 772.3 814.8 899.7 994.2 1,120.6 1,253.3	117.2 126.8 137.9 148.8 160.5 176.2 188.9 202.6 220.0 237.1	434.3 457.8 500.9 560.0 611.8 638.6 710.8 791.6 900.6 1,016.2	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	78.5 84.7 96.0 113.6 113.5 119.6 132.2 146.0 167.5 181.1	12.9 13.4 17.0 29.1 23.5 22.0 17.2 16.0 19.9 22.2	65.6 71.3 79.0 84.6 90.0 97.6 115.0 130.1 147.6 159.0	21.1 22.2 23.1 23.9 24.0 23.4 22.1 19.6 20.9 22.6
1980 1981 1982 1983 1984 1985 1986 1987 1987	2,433.0 2,729.8 2,851.4 3,070.9 3,461.3 3,696.3 3,871.5 4,150.0 4,522.3 4,800.5	1,647.6 1,819.7 1,919.6 2,035.5 2,245.4 2,411.7 2,557.7 2,735.6 2,954.2 3,131.3	1,373.4 1,511.4 1,587.5 1,677.5 1,844.9 1,982.6 2,102.3 2,256.3 2,439.8 2,583.1	261.5 285.8 307.5 324.8 348.1 373.9 397.2 423.1 452.0 481.1	1,112.0 1,225.5 1,280.0 1,352.7 1,496.8 1,608.7 1,705.1 1,833.1 1,987.7 2,101.9	274.2 308.3 332.1 358.0 400.5 429.2 455.3 479.4 514.4 548.3	185.2 204.7 222.4 238.1 261.5 281.5 297.5 313.1 329.7 354.6	88.9 103.6 109.8 119.9 139.0 147.7 157.9 166.3 184.6 193.7	173.5 181.6 174.8 190.7 233.1 246.1 262.6 294.2 334.8 351.6	11.7 19.0 13.3 6.2 20.9 21.0 22.8 28.9 26.8 33.0	161.8 162.6 161.5 184.5 212.1 225.1 239.7 265.3 308.0 318.6	28.5 36.5 38.1 38.2 40.0 41.9 33.8 34.2 40.2 42.4
1990 1991 1992 1993 1994 1995 1996 1997 1998	5,059.5 5,217.9 5,517.1 5,784.7 6,181.3 6,522.3 6,931.7 7,406.0 7,875.6 8,358.0	3,326.3 3,438.3 3,631.4 3,797.1 3,998.5 4,195.2 4,391.4 4,665.6 5,023.2 5,353.9	2,741.2 2,814.5 2,957.8 3,083.0 3,248.5 3,434.4 3,620.0 3,873.6 4,180.9 4,465.2	519.0 548.8 572.0 589.0 609.5 629.0 648.1 671.8 701.2 733.7	2,222.2 2,265.7 2,385.8 2,494.0 2,639.0 2,805.4 2,971.9 3,201.8 3,479.7 3,731.5	585.1 623.9 673.6 714.1 750.1 760.8 771.4 792.0 842.3 888.8	378.6 408.7 445.2 474.4 495.9 496.7 496.6 502.4 535.1	206.5 215.1 228.4 239.7 254.1 264.1 274.8 289.6 307.2 323.3	365.1 367.3 414.9 449.6 485.1 516.0 583.7 628.2 687.5 746.8	32.2 27.5 35.8 32.0 35.6 23.4 32.6 28.9 28.5	333.0 339.8 379.1 417.6 449.5 492.6 545.2 595.6 658.7 718.3	49.8 61.6 84.6 114.1 142.9 154.6 170.4 176.5 191.5 208.2
2000 2001 2002 2003 2004 2005 2006 2007 2008 2009	8,938.9 9,185.2 9,408.5 9,840.2 10,534.0 11,273.8 12,031.2 12,396.4 12,609.1 12,132.6	5,788.8 5,979.3 6,110.8 6,382.6 6,693.4 7,065.0 7,477.0 7,855.9 8,068.3 7,799.4	4,827.7 4,952.2 4,997.3 5,154.6 5,410.7 5,706.0 6,070.1 6,415.5 6,545.9 6,275.3	779.7 821.9 873.1 913.3 952.8 991.5 1,035.2 1,089.0 1,144.1 1,175.2	4,048.0 4,130.3 4,124.2 4,241.3 4,457.9 4,714.5 5,035.0 5,326.4 5,401.8 5,100.1 5,213.3	961.2 1,027.1 1,113.5 1,228.0 1,282.7 1,359.1 1,406.9 1,440.4 1,522.5 1,524.0	615.9 669.1 747.4 845.6 874.6 931.6 960.1 980.5 1,052.4 1,067.2	345.2 358.0 366.1 382.4 408.1 427.5 446.7 459.9 470.1 456.9	817.5 870.7 890.3 930.6 1,033.8 1,069.8 1,133.0 1,090.4 1,097.9 979.4	29.6 30.5 18.5 36.5 49.7 43.9 29.3 37.8 51.8 39.9	787.8 840.2 871.8 894.1 1,025.9 1,103.6 1,052.6 1,046.1 939.5	215.3 232.4 218.7 204.2 198.4 178.2 146.5 143.7 231.6 289.7
2010 2011 2012 <i>p</i>	12,811.4 13,358.9	7,970.0 8,295.2 8,565.7	6,404.6 6,661.3 6,880.6	1,191.3 1,195.3 1,201.5	5,466.0 5,679.2	1,565.4 1,633.9 1,685.1	1,097.3 1,139.0 1,172.1	468.1 494.9 512.9	1,103.4 1,157.3 1,202.5	44.3 54.6 56.3	1,059.1 1,102.8 1,146.2	349.2 409.7 463.1
2009: I II III IV	12,100.7 12,001.0 12,102.1 12,326.6	7,824.9 7,801.1 7,773.6 7,797.8	6,299.1 6,278.2 6,252.2 6,271.9	1,167.0 1,176.1 1,177.8 1,180.1	5,132.1 5,102.1 5,074.4 5,091.8	1,525.8 1,523.0 1,521.4 1,526.0	1,067.6 1,064.5 1,065.7 1,070.9	458.2 458.5 455.7 455.1	969.5 957.0 975.8 1,015.3	33.7 38.5 40.6 46.7	935.8 918.5 935.2 968.6	270.2 281.5 298.9 308.3
2010: I II IV	12,583.0 12,722.1 12,921.3 13,019.4	7,846.6 7,955.4 8,021.4 8,056.6	6,298.7 6,394.6 6,449.7 6,475.2	1,188.0 1,195.8 1,190.1 1,191.2	5,110.7 5,198.8 5,259.6 5,284.0	1,547.9 1,560.8 1,571.7 1,581.4	1,082.8 1,092.4 1,102.0 1,112.1	465.0 468.4 469.7 469.3	1,052.4 1,104.8 1,117.1 1,139.2	41.5 43.6 44.6 47.6	1,010.9 1,061.2 1,072.5 1,091.6	340.1 352.7 350.0 354.0
2011: I II III	13,196.3 13,301.1 13,390.1 13,548.1	8,236.3 8,286.4 8,318.1 8,340.1	6,618.5 6,656.2 6,678.1 6,692.4	1,193.8 1,197.4 1,197.7 1,192.5	5,424.7 5,458.8 5,480.4 5,499.9	1,617.8 1,630.2 1,640.0 1,647.7	1,125.0 1,135.4 1,144.2 1,151.5	492.7 494.8 495.8 496.2	1,148.0 1,154.7 1,161.4 1,165.3	56.0 52.6 55.3 54.4	1,092.0 1,102.1 1,106.1 1,110.9	390.0 404.7 413.8 430.3
2012: I II IV ^p	13,707.2 13,750.5 13,895.9	8,495.7 8,527.7 8,577.6 8,661.8	6,825.9 6,849.2 6,888.5 6,959.0	1,199.1 1,199.8 1,203.3 1,203.7	5,626.8 5,649.4 5,685.3 5,755.3	1,669.8 1,678.5 1,689.1 1,702.8	1,159.6 1,167.7 1,176.2 1,185.0	510.2 510.8 512.9 517.8	1,184.3 1,194.9 1,205.4 1,225.1	52.3 52.5 59.4 61.0	1,132.1 1,142.4 1,146.0 1,164.1	445.3 452.8 471.0 483.5

TABLE B-28. National income by type of income, 1964-2012—Continued

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

	Corp	orate profi					consumption							
			Profits w	ith invento	ory valuati consumpt	on adjustr	nent and ment			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-
		Total	before tax	corpo- rate income	Total	Net divi- dends	Undis- tributed profits	tion adjust- ment	ment	ments			(net)	prises
1964	75.5 86.5 92.5 90.2 97.3 94.5	68.6 78.9 84.6 82.0 88.8 85.5	69.1 80.2 86.7 83.5 92.4 91.4	28.2 31.1 33.9 32.9 39.6 40.0	40.9 49.1 52.8 50.6 52.8 51.4	18.2 20.2 20.7 21.5 23.5 24.2	22.7 28.9 32.1 29.1 29.3 27.2	-0.5 -1.2 -2.1 -1.6 -3.7 -5.9	6.9 7.6 8.0 8.2 8.5 9.0	17.4 19.6 22.4 25.5 27.1 32.7	57.3 60.7 63.2 67.9 76.4 83.9	2.7 3.0 3.9 3.8 4.2 4.5	3.1 3.6 3.5 3.8 4.3 4.9	1.3 1.3 1.0 .9 1.2 1.0
1970 1971 1972 1973 1974 1975 1976 1976 1977 1978	82.5 96.1 111.4 124.5 115.1 133.3 161.6 191.8 218.4 225.4	74.4 88.3 101.6 115.4 109.6 135.0 165.6 194.8 222.4 232.0	81.0 92.9 108.2 135.0 147.8 145.5 179.7 210.5 246.1 272.1	34.8 38.2 42.3 50.0 52.8 51.6 65.3 74.4 84.9 90.0	46.2 54.7 65.9 85.0 95.0 93.9 114.5 136.1 161.3 182.1	24.3 25.0 26.8 29.9 33.2 33.0 39.0 44.8 50.8 57.5	21.9 29.7 39.0 55.1 61.8 60.9 75.4 91.3 110.5 124.6	-6.6 -4.6 -6.6 -19.6 -38.2 -10.5 -14.1 -15.7 -23.7 -40.1	8.1 7.8 9.8 9.1 5.6 -1.7 -4.0 -3.0 -4.0 -6.6	39.1 43.9 47.9 55.2 70.8 81.6 85.5 101.1 115.0 138.9	91.4 100.5 107.9 117.2 124.9 135.3 146.4 159.7 170.9 180.1	4.8 4.7 6.6 5.2 3.3 4.5 5.1 7.1 8.9 8.5	4.5 4.3 4.9 6.0 7.1 9.4 9.5 8.5 10.8	.0 2 .5 4 9 -3.2 -1.8 -2.7 -2.2 -2.9
1980 1981 1982 1983 1984 1985 1986 1987 1988	201.4 223.3 205.7 259.8 318.6 332.5 314.1 367.8 426.6 425.6	211.4 219.1 191.1 226.6 264.6 257.5 253.0 306.9 367.7 374.1	253.5 243.7 198.6 234.0 268.6 257.5 246.0 323.1 389.9 390.5	87.2 84.3 66.5 80.6 97.5 99.4 109.7 130.4 141.6 146.1	166.4 159.4 132.1 153.4 171.1 158.1 136.3 192.7 248.3 244.4	64.1 73.8 77.7 83.5 90.8 97.6 106.2 112.3 129.9	102.3 85.6 54.4 69.9 80.3 60.5 30.1 80.3 118.4 86.4	-42.1 -24.6 -7.5 -7.4 -4.0 .0 7.1 -16.2 -22.2 -16.3	-10.0 4.2 14.6 33.3 54.0 75.1 61.1 61.0 58.9 51.5	181.8 232.3 271.1 285.3 327.1 341.5 367.1 366.7 385.3 434.1	200.3 235.6 240.9 263.3 289.8 308.1 323.4 347.5 374.5 398.9	9.8 11.5 15.0 21.3 21.1 21.4 24.9 30.3 29.5 27.4	14.7 17.9 20.6 22.6 30.3 35.2 36.9 34.1 33.6 39.2	-5.1 -5.6 -4.5 -3.2 -1.9 .6 .9 .2 2.6
1990 1991 1992 1993 1994 1995 1996 1997 1998	434.4 457.3 496.2 543.7 628.2 716.2 801.5 884.8 812.4 856.3	398.8 430.3 471.6 515.0 586.6 666.0 743.8 815.9 738.6 776.6	411.7 425.4 474.4 519.0 599.0 684.3 740.7 801.8 722.9 780.5	145.4 138.6 148.7 171.0 193.1 217.8 231.5 245.4 248.4 258.8	266.3 286.8 325.7 348.0 405.9 466.5 509.3 556.3 474.5 521.7	169.1 180.7 188.0 202.9 235.7 254.4 297.7 331.2 351.5 337.4	97.2 106.1 137.7 145.1 170.2 212.1 211.5 225.1 123.1 184.3	-12.9 4.9 -2.8 -4.0 -12.4 -18.3 3.1 14.1 15.7 -4.0	35.7 27.0 24.6 28.7 41.6 50.2 57.7 69.0 73.8 79.7	444.2 418.2 387.7 364.6 362.2 358.3 371.1 407.6 479.3 481.4	425.0 457.1 483.4 503.1 545.2 557.9 580.8 611.6 639.5 673.6	27.0 27.5 30.1 36.7 32.5 34.8 35.2 33.8 36.4 45.2	40.1 39.9 40.7 40.5 41.9 45.8 53.8 51.3 65.2 69.0	1.6 5.7 8.2 8.7 9.6 13.1 14.4 14.1 13.3
2000	819.2 784.2 872.2 977.8 1,246.9 1,456.1 1,608.3 1,510.6 1,248.4 1,342.3	755.7 720.8 762.8 892.2 1,195.1 1,609.5 1,784.7 1,691.1 1,315.5 1,443.6	772.5 712.7 765.3 903.5 1,229.4 1,640.2 1,822.7 1,738.4 1,359.9 1,440.5	265.1 203.3 192.3 243.8 306.1 412.4 473.3 445.5 309.0 269.4	507.4 509.4 573.0 659.7 923.3 1,227.8 1,349.5 1,292.9 1,050.9 1,171.1	377.9 370.9 399.3 424.9 550.3 557.3 704.8 794.5 786.9 554.1	129.5 138.5 173.8 234.8 373.0 670.5 644.7 498.4 264.0 617.0	-16.8 8.0 -2.6 -11.3 -34.3 -30.7 -38.0 -47.2 -44.5 3.2	63.6 63.4 109.4 85.6 51.8 -153.4 -176.4 -180.5 -67.1 -101.3	539.3 544.4 506.4 504.1 461.6 543.0 652.2 731.6 870.1 640.5	708.6 727.7 762.8 806.8 863.4 930.2 986.8 1,027.2 1,038.6 1,023.2	45.8 58.7 41.4 49.1 46.4 60.9 51.4 54.6 52.9 59.7	87.0 101.3 82.4 76.1 81.7 95.9 83.0 103.3 123.0 133.4	9.1 4.0 6.3 7.0 1.2 -3.5 -4.2 -11.8 -16.0 -15.6
2010 2011 2012 ^p	1,702.4 1,827.0	1,777.7 1,791.6	1,816.3 1,854.1	373.3 379.0	1,443.0 1,475.1	600.9 697.2 779.2	842.1 777.9	-38.7 -62.6	-75.2 35.4 -200.6	567.9 527.4 503.2	1,055.0 1,097.9 1,130.4	57.0 61.6 60.9	140.0 132.6 127.9	-19.5 -26.5 -34.0
2009: I	1,198.4 1,243.3 1,403.2 1,524.5	1,306.6 1,342.9 1,499.3 1,625.7	1,225.3 1,327.9 1,516.9 1,691.9	214.9 240.5 285.0 337.0	1,010.3 1,087.4 1,231.9 1,354.9	652.4 548.4 502.4 513.3	357.9 538.9 729.5 841.6	81.4 15.0 –17.6 –66.2	-108.2 -99.6 -96.1 -101.3	765.8 633.3 582.6 580.3	1,010.1 1,016.5 1,027.7 1,038.4	56.4 56.8 68.5 57.0	134.7 140.7 123.2 134.8	-16.6 -15.4 -14.5 -15.8
2010: I II IV	1,648.0 1,625.4 1,747.5 1,788.8	1,758.0 1,741.0 1,824.6 1,787.0	1,785.2 1,755.3 1,850.6 1,874.2	351.1 350.2 385.5 406.6	1,434.1 1,405.1 1,465.1 1,467.6	554.9 585.8 618.1 645.0	879.3 819.3 847.0 822.6	-27.2 -14.3 -26.0 -87.2	-110.0 -115.6 -77.1 1.9	586.9 568.5 559.6 556.8	1,043.3 1,050.5 1,058.6 1,067.5	56.2 56.4 56.7 58.6	138.7 139.7 143.9 137.7	-16.8 -18.5 -20.1 -22.5
2011: 	1,723.3 1,800.9 1,830.5 1,953.1	1,679.4 1,764.6 1,798.8 1,923.5	1,801.1 1,839.7 1,839.3 1,936.4	398.7 385.1 362.0 370.4	1,402.5 1,454.5 1,477.3 1,566.1	677.6 687.5 705.9 717.9	724.9 767.1 771.4 848.2	-121.7 -75.0 -40.6 -12.9	43.9 36.3 31.7 29.6	551.4 513.8 528.4 515.9	1,084.5 1,099.0 1,098.2 1,109.8	59.6 61.9 62.4 62.7	145.7 127.9 129.5 127.4	-23.1 -24.4 -27.5 -31.1
2012: <i>V</i> <i>P</i>	1,900.1 1,921.9 1,967.6	2,100.8 2,124.3 2,167.5	2,124.5 2,108.2 2,194.4	453.6 443.3 452.4	1,670.9 1,664.9 1,742.0	727.1 747.5 760.3 881.8	943.7 917.4 981.6	-23.7 16.0 -26.8	-200.7 -202.4 -200.0 -199.4	515.6 489.5 518.2 489.6	1,128.5 1,130.9 1,128.4 1,133.7	60.8 61.0 60.6 61.0	130.5 127.9 123.8 129.3	-32.0 -34.1 -35.5 -34.4

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

Table B-29. Sources of personal income, 1964-2012

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

					on of emplo		ed		Proprie	etors' incom valuation a option adjus	nd capital	Rental
			Wa di	age and sal	ary ts	S wa	upplements ges and sala	to ries				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	Non- farm	with capital con- sump- tion adjust- ment
1964 1965 1966 1967 1968	514.3 555.5 603.8 648.1 711.7 778.3	370.7 399.5 442.7 475.1 524.3 577.6	337.8 363.8 400.3 429.0 472.0 518.3	272.9 293.8 321.9 342.5 375.3 412.7	64.9 69.9 78.4 86.5 96.7 105.6	32.9 35.7 42.3 46.1 52.3 59.3	20.3 22.7 25.5 28.1 32.4 36.5	12.6 13.1 16.8 18.0 20.0 22.8	59.4 63.9 68.2 69.8 74.2 77.5	9.8 12.0 13.0 11.6 11.7 12.8	49.6 51.9 55.2 58.2 62.5 64.7	19.4 19.9 20.5 20.9 20.6 20.9
1970 1971 1972 1973 1974 1975 1976 1977 1978	838.6 903.1 992.6 1,110.5 1,222.7 1,334.9 1,474.7 1,632.5 1,836.7 2,059.5	617.2 658.3 725.1 811.3 890.7 949.0 1,059.2 1,180.4 1,335.2 1,498.5	551.6 584.0 638.8 708.8 772.8 814.7 899.6 994.1 1,120.3 1,253.5	434.3 457.4 501.2 560.0 611.8 638.6 710.8 791.6 900.6 1,016.2	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	78.5 84.7 96.0 113.6 113.5 119.6 132.2 146.0 167.5 181.1	12.9 13.4 17.0 29.1 23.5 22.0 17.2 16.0 19.9 22.2	65.6 71.3 79.0 84.6 90.0 97.6 115.0 130.1 147.6 159.0	21.1 22.2 23.1 23.9 24.0 23.4 22.1 19.6 20.9 22.6
1980	2,301.5 2,582.3 2,766.8 2,952.2 3,268.9 3,496.7 3,696.0 3,924.4 4,231.2 4,557.5	1,647.6 1,819.6 1,919.6 2,036.0 2,245.2 2,412.0 2,557.7 2,735.6 2,954.2 3,131.3	1,373.5 1,511.3 1,587.5 1,678.0 1,844.7 1,982.8 2,102.3 2,256.3 2,439.8 2,583.1	1,112.0 1,225.5 1,280.0 1,352.7 1,496.8 1,608.7 1,705.1 1,833.1 1,987.7 2,101.9	261.5 285.8 307.5 325.2 347.9 374.1 397.2 423.1 452.0 481.1	274.2 308.3 332.1 358.0 400.5 429.2 455.3 479.4 514.4 548.3	185.2 204.7 222.4 238.1 261.5 281.5 297.5 313.1 329.7 354.6	88.9 103.6 109.8 119.9 139.0 147.7 157.9 166.3 184.6 193.7	173.5 181.6 174.8 190.7 233.1 246.1 262.6 294.2 334.8 351.6	11.7 19.0 13.3 6.2 20.9 21.0 22.8 28.9 26.8 33.0	161.8 162.6 161.5 184.5 212.1 225.1 239.7 265.3 308.0 318.6	28.5 36.5 38.1 38.2 40.0 41.9 33.8 34.2 40.2 42.4
1990 1991 1992 1993 1994 1995 1996 1997 1998	4,846.7 5,031.5 5,347.3 5,568.1 5,874.8 6,200.9 6,591.6 7,000.7 7,525.4 7,910.8	3,326.2 3,438.4 3,647.2 3,790.6 3,980.9 4,178.8 4,387.7 4,668.6 5,023.9 5,348.8	2,741.1 2,814.5 2,973.5 3,076.6 3,230.8 3,418.0 3,616.3 3,876.6 4,181.6 4,460.0	2,222.2 2,265.7 2,401.5 2,487.6 2,621.3 2,789.0 2,968.3 3,204.8 3,480.4 3,726.3	519.0 548.8 572.0 589.0 609.5 629.0 648.1 671.8 701.2 733.7	585.1 623.9 673.6 714.1 750.1 760.8 771.4 792.0 842.3 888.8	378.6 408.7 445.2 474.4 495.9 496.7 496.6 502.4 535.1	206.5 215.1 228.4 239.7 254.1 264.1 274.8 289.6 307.2 323.3	365.1 367.3 414.9 449.6 485.1 516.0 583.7 628.2 687.5 746.8	32.2 27.5 35.8 32.0 35.6 23.4 38.4 32.6 28.9 28.5	333.0 339.8 379.1 417.6 449.5 492.6 545.2 595.6 658.7 718.3	49.8 61.6 84.6 114.1 142.9 154.6 170.4 176.5 191.5 208.2
2000	8,559.4 8,883.3 9,060.1 9,378.1 9,937.2 10,485.9 11,268.1 11,912.3 12,460.2 11,867.0 12,321.9	5,788.8 5,979.3 6,110.8 6,367.6 6,708.4 7,060.0 7,475.7 7,862.2 8,073.3 7,794.4	4,827.7 4,952.2 4,997.3 5,139.6 5,425.7 5,701.0 6,068.9 6,421.7 6,550.9 6,270.3 6,404.6	4,048.0 4,130.3 4,124.2 4,226.3 4,472.9 4,709.5 5,033.7 5,332.7 5,406.8 5,095.1 5,213.3	779.7 821.9 873.1 913.3 952.8 991.5 1,035.2 1,089.0 1,144.1 1,175.2	961.2 1,027.1 1,113.5 1,228.0 1,282.7 1,359.1 1,406.9 1,440.4 1,522.5 1,524.0	615.9 669.1 747.4 845.6 874.6 931.6 960.1 980.5 1,052.4 1,067.2	345.2 358.0 366.1 382.4 408.1 427.5 446.7 459.9 470.1 456.9	817.5 870.7 890.3 930.6 1,033.8 1,069.8 1,133.0 1,090.4 1,097.9 979.4	29.6 30.5 18.5 36.5 49.7 43.9 29.3 37.8 51.8 39.9	787.8 840.2 871.8 894.1 1,025.9 1,103.6 1,052.6 1,046.1 939.5	215.3 232.4 218.7 204.2 198.4 178.2 146.5 143.7 231.6 289.7
2011 2012 ^p 2009: I II	12,947.3 13,405.9 11,927.5 11,879.3 11,794.9	8,295.2 8,565.7 7,804.9 7,801.1 7,773.6	6,661.3 6,880.6 6,279.1 6,278.2 6,252.2	5,466.0 5,679.2 5,112.1 5,102.1 5,074.4	1,195.3 1,201.5 1,167.0 1,176.1 1,177.8	1,633.9 1,685.1 1,525.8 1,523.0 1,521.4	1,139.0 1,172.1 1,067.6 1,064.5 1,065.7	494.9 512.9 458.2 458.5 455.7	1,157.3 1,202.5 969.5 957.0 975.8	54.6 56.3 33.7 38.5 40.6	1,102.8 1,146.2 935.8 918.5 935.2	409.7 463.1 270.2 281.5 298.9
2010: I II	11,866.2 12,089.8 12,290.6 12,397.2 12,509.9	7,797.8 7,846.6 7,955.4 8,021.4 8,056.6	6,271.9 6,298.7 6,394.6 6,449.7 6,475.2	5,091.8 5,110.7 5,198.8 5,259.6 5,284.0	1,180.1 1,188.0 1,195.8 1,190.1 1,191.2	1,526.0 1,547.9 1,560.8 1,571.7 1,581.4	1,070.9 1,082.8 1,092.4 1,102.0 1,112.1	455.1 465.0 468.4 469.7 469.3	1,015.3 1,052.4 1,104.8 1,117.1 1,139.2	46.7 41.5 43.6 44.6 47.6	968.6 1,010.9 1,061.2 1,072.5 1,091.6	308.3 340.1 352.7 350.0 354.0
2011: I II IV	12,856.5 12,938.9 12,976.3 13,017.4	8,236.3 8,286.4 8,318.1 8,340.1	6,618.5 6,656.2 6,678.1 6,692.4	5,424.7 5,458.8 5,480.4 5,499.9	1,193.8 1,197.4 1,197.7 1,192.5	1,617.8 1,630.2 1,640.0 1,647.7	1,125.0 1,135.4 1,144.2 1,151.5	492.7 494.8 495.8 496.2	1,148.0 1,154.7 1,161.4 1,165.3	56.0 52.6 55.3 54.4	1,092.0 1,102.1 1,106.1 1,110.9	390.0 404.7 413.8 430.3
2012: I II IV P	13,227.1 13,327.0 13,406.2 13,663.2	8,495.7 8,527.7 8,577.6 8,661.8	6,825.9 6,849.2 6,888.5 6,959.0	5,626.8 5,649.4 5,685.3 5,755.3	1,199.1 1,199.8 1,203.3 1,203.7	1,669.8 1,678.5 1,689.1 1,702.8	1,159.6 1,167.7 1,176.2 1,185.0	510.2 510.8 512.9 517.8	1,184.3 1,194.9 1,205.4 1,225.1	52.3 52.5 59.4 61.0	1,132.1 1,142.4 1,146.0 1,164.1	445.3 452.8 471.0 483.5

See next page for continuation of table.

Table B-29. Sources of personal income, 1964-2012—Continued

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

	Person	al income re on assets	eceipts			Perso	onal current	transfer red	eipts			Less: Contribu-
						Governi	ment social	benefits to	persons		Other	tions for
Year or quarter	Total	Personal interest income	Personal dividend income	Total	Total ¹	Social security ²	Medi- care ³	Medicaid	Un- employ- ment insurance	Other	current transfer receipts, from business (net)	govern- ment social insurance, domestic
1964 1965 1966 1967 1968 1969	53.8 59.4 64.1 69.0 75.2 84.1 93.5	35.6 39.2 43.4 47.5 51.6 59.9 69.2	18.2 20.2 20.7 21.5 23.5 24.2 24.3	33.5 36.2 39.6 48.0 56.1 62.3 74.7	31.3 33.9 37.5 45.8 53.3 59.0 71.7	16.0 18.1 19.8 21.1 24.6 26.4 31.4	1.0 4.7 5.9 6.7 7.3	1.9 2.7 4.0 4.6 5.5	2.8 2.4 1.9 2.2 2.2 2.3 4.2	7.9 8.6 8.1 9.4 10.8 12.4 16.0	2.2 2.3 2.1 2.3 2.8 3.3 2.9	22.4 23.4 31.3 34.9 38.7 44.1
1971 1972 1973 1974 1975 1976 1977 1978	101.0 109.6 124.7 146.4 162.2 178.4 205.3 234.8 274.7	75.9 82.8 94.8 113.2 129.3 139.5 160.6 184.0 217.3	25.0 26.8 29.9 33.2 32.9 39.0 44.7 50.7 57.4	88.1 97.9 112.6 133.3 170.0 184.0 194.2 209.6 235.3	85.4 94.8 108.6 128.6 163.1 177.3 189.1 203.2 227.1	36.6 40.9 50.7 57.6 65.9 74.5 83.2 91.4 102.6	8.0 8.8 10.2 12.7 15.6 18.8 22.1 25.5 29.9	6.7 8.2 9.6 11.2 13.9 15.5 16.7 18.6 21.1	6.2 6.0 4.6 7.0 18.1 16.4 13.1 9.4 9.7	19.4 21.4 23.3 28.4 35.7 38.4 40.6 44.6 49.7	2.7 3.1 3.9 4.7 6.8 6.7 5.1 6.5 8.2	51.2 59.2 75.5 85.2 89.3 101.3 113.1 131.3 152.7
1980 1981 1982 1983 1984 1985 1986 1987 1987	338.7 421.9 488.4 529.6 607.9 653.2 694.5 715.8 767.0 874.8	274.7 348.3 410.8 446.3 517.2 555.8 588.4 603.6 637.3 717.0	64.0 73.6 77.6 83.3 90.6 97.4 106.0 112.2 129.7 157.8	279.5 318.4 354.8 383.7 400.1 424.9 451.0 467.6 496.5 542.6	270.8 307.2 342.4 369.9 380.4 402.6 428.0 447.4 475.9 519.4	118.6 138.6 153.7 164.4 173.0 183.3 193.6 201.0 213.9 227.4	36.2 43.5 50.9 57.8 64.7 69.7 75.3 81.6 86.3 98.2	23.9 27.7 30.2 33.9 36.6 39.7 43.6 47.8 53.0 60.8	16.1 15.9 25.2 26.4 16.0 15.9 16.5 14.6 13.3	61.4 65.6 66.1 71.0 73.8 77.6 82.4 85.9 92.6 101.4	8.6 11.2 12.4 13.8 19.7 22.3 22.9 20.2 20.6 23.2	166.2 195.7 208.9 226.0 257.5 281.4 303.4 323.1 361.5 385.2
1990	920.8 928.6 909.7 900.5 947.7 1,005.4 1,080.7 1,165.5 1,269.2	751.9 748.2 722.2 698.1 712.7 751.9 784.4 835.8 919.3 910.9	168.8 180.3 187.6 202.3 235.0 253.4 296.4 329.7 349.8 335.9	594.9 665.9 745.8 790.8 826.4 878.9 924.1 949.2 977.9 1,021.6	572.7 648.2 729.5 776.7 813.1 860.2 901.2 929.8 951.9 987.6	244.1 264.2 281.8 297.9 312.2 327.7 342.0 356.6 369.2 379.9	107.6 117.5 132.6 146.8 164.4 181.2 194.9 206.9 205.6	73.1 96.9 116.2 130.1 139.4 149.6 158.2 163.1 170.2 184.6	18.2 26.8 39.6 34.8 23.9 21.7 22.3 20.1 19.7 20.5	111.9 124.7 140.6 147.7 153.5 159.5 162.4 160.7 164.0 169.8	22.2 17.6 16.3 14.1 13.3 18.7 22.9 19.4 26.0 34.0	410.1 430.2 455.0 477.4 508.2 532.8 555.1 587.2 624.7 661.3
2000 2001 2002 2003 2004 2005 2006 2007 2008 2009	1,360.7 1,346.0 1,309.6 1,312.9 1,408.5 1,542.0 1,829.7 2,057.0 2,165.4 1,626.5	984.2 976.5 911.9 889.8 860.2 987.0 1,127.5 1,265.1 1,382.0 1,093.3	376.5 369.5 397.7 423.1 548.3 555.0 702.2 791.9 783.4 533.2	1,083.0 1,188.1 1,282.1 1,341.7 1,415.5 1,508.6 1,605.0 1,718.5 1,879.2 2,140.1	1,040.6 1,141.3 1,247.9 1,316.0 1,398.6 1,482.7 1,583.6 1,687.9 1,842.4 2,100.5	401.4 425.1 446.9 463.5 512.7 544.1 575.6 605.5 664.5	219.1 242.6 259.2 276.9 304.7 331.9 399.2 427.6 461.6 494.5	199.5 227.3 250.1 264.6 289.7 304.4 299.0 324.1 338.2 369.2	20.7 31.9 53.5 53.2 36.4 31.8 30.4 32.7 50.9 131.2	174.8 187.9 208.8 226.1 248.3 265.6 272.1 286.2 341.1 389.7	42.4 46.8 34.2 25.7 16.9 25.8 21.4 30.5 36.8 39.6	705.8 733.2 751.5 778.9 827.3 872.7 921.8 959.5 987.3 963.1
2010 2011 2012 <i>p</i>	1,598.3 1,685.1 1,747.3	1,016.6 1,008.8 990.9	581.7 676.3 756.3	2,284.3 2,319.2 2,375.6	2,236.9 2,274.3 2,329.7	690.2 713.3 762.2	515.3 545.1 562.0	396.6 403.9 415.7	138.9 108.0 80.9	438.1 440.8 436.6	47.4 44.9 45.9	983.3 919.3 948.3
2009: I II III IV	1,814.8 1,634.4 1,537.8 1,519.1	1,177.5 1,108.8 1,056.5 1,030.4	637.3 525.6 481.3 488.8	2,033.6 2,171.2 2,169.6 2,186.1	1,996.6 2,132.7 2,129.3 2,143.4	651.9 662.4 667.9 675.7	483.3 492.2 499.0 503.7	357.0 368.3 381.6 369.8	102.2 130.1 145.3 147.3	352.5 429.3 383.7 393.2	37.0 38.4 40.3 42.7	965.4 965.8 960.9 960.4
2010: I II III IV	1,568.6 1,594.4 1,598.0 1,632.1	1,030.9 1,027.1 1,000.7 1,007.7	537.6 567.3 597.3 624.4	2,256.9 2,266.2 2,297.9 2,316.2	2,211.5 2,218.9 2,249.8 2,267.3	678.7 688.3 693.9 699.8	506.8 511.2 517.5 525.6	381.6 385.2 405.4 414.0	155.7 139.6 133.2 126.9	432.8 437.2 441.0 441.5	45.4 47.3 48.0 49.0	974.7 983.0 987.1 988.2
2011: I II IV	1,674.3 1,692.4 1,689.1 1,684.6	1,017.5 1,025.3 1,004.4 988.0	656.9 667.1 684.7 696.6	2,322.5 2,319.9 2,314.7 2,319.9	2,276.0 2,274.8 2,270.4 2,276.0	703.1 712.0 716.0 721.9	535.1 543.1 549.1 553.1	418.8 408.7 396.1 392.0	119.1 108.8 103.0 100.9	438.7 439.8 441.3 443.5	46.5 45.1 44.3 43.9	914.5 919.2 920.8 922.8
2012: I	1,696.4 1,730.8 1,712.8 1,849.1	991.8 1,006.1 975.3 990.5	704.6 724.6 737.5 858.7	2,348.0 2,365.2 2,388.0 2,401.3	2,302.7 2,319.5 2,341.8 2,354.8	753.2 759.4 765.1 771.0	555.9 556.9 566.2 569.1	397.6 413.9 424.2 427.0	94.2 83.8 74.9 70.8	433.0 433.9 437.4 442.3	45.3 45.8 46.1 46.6	942.6 944.4 948.7 957.6

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

¹ Includes Veterans' benefits, not shown seperately.
² Includes old-age, survivors, and disability insurance benefits that are distributed from the federal old-age and survivors insurance trust fund and the disability insurance trust fund.

³ Includes hospital and supplementary medical insurance benefits that are distributed from the federal hospital insurance trust fund and the supplementary medical insurance trust fund.

Table B-30. Disposition of personal income, 1964-2012

[Billions of dollars, except as noted; quarterly data at seasonally adjusted annual rates]

					Less: Perso	nal outlays			Pero	ent of dispos	able e ²
		Less:	Equals: Dispos-					Equals:	Persona	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
1964 1965 1966 1967 1968 1969	514.3 555.5 603.8 648.1 711.7 778.3	52.1 57.7 66.4 73.0 87.0 104.5	462.3 497.8 537.4 575.1 624.7 673.8	421.7 455.1 493.1 520.9 572.2 621.4	411.5 443.8 480.9 507.8 558.0 605.1	8.9 9.9 10.7 11.1 12.2 14.0	1.3 1.4 1.6 2.0 2.0 2.2	40.5 42.7 44.3 54.2 52.5 52.5	91.2 91.4 91.8 90.6 91.6 92.2	89.0 89.2 89.5 88.3 89.3	8.8 8.6 8.2 9.4 8.4 7.8
1970 1971 1972 1973 1974 1975 1976 1977 1978	838.6 903.1 992.6 1,110.5 1,222.7 1,334.9 1,474.7 1,632.5 1,836.7 2,059.5	103.1 101.7 123.6 132.4 151.0 147.6 172.3 197.5 229.4 268.7	735.5 801.4 869.0 978.1 1,071.7 1,187.3 1,302.3 1,435.0 1,607.3 1,790.9	666.1 721.0 791.5 875.2 957.5 1,061.3 1,179.6 1,309.7 1,465.0	648.3 701.6 770.2 852.0 932.9 1,033.8 1,151.3 1,277.8 1,427.6 1,591.2	15.2 16.6 18.1 19.8 21.2 23.7 23.9 27.0 31.9 36.2	2.6 2.8 3.2 3.4 3.4 3.8 4.4 4.8 5.4 6.0	69.4 80.4 77.5 102.9 114.2 125.9 122.8 125.3 142.4 157.5	90.6 90.0 91.1 89.5 89.3 89.4 90.6 91.3 91.1	88.1 87.5 88.6 87.1 87.0 87.1 88.4 89.0 88.8	9.4 10.0 8.9 10.5 10.7 10.6 9.4 8.7 8.9
1980	2,301.5 2,582.3 2,766.8 2,952.2 3,268.9 3,496.7 3,696.0 3,924.4 4,231.2 4,557.5	298.9 345.2 354.1 352.3 377.4 417.3 437.2 489.1 504.9 566.1	2,002.7 2,237.1 2,412.7 2,599.8 2,891.5 3,079.3 3,258.8 3,435.3 3,726.3 3,991.4	1,806.4 2,000.4 2,148.8 2,372.9 2,595.2 2,825.7 3,012.4 3,211.9 3,469.7 3,726.4	1,755.8 1,939.5 2,075.5 2,288.6 2,501.1 2,717.6 2,896.7 3,097.0 3,350.1 3,594.5	43.6 49.3 59.5 69.2 77.0 89.4 94.5 91.7 94.0 103.9	6.9 11.5 13.8 15.1 17.1 18.8 21.1 23.2 25.6 28.0	196.3 236.7 263.9 226.9 296.3 253.6 246.5 223.4 256.6 265.0	90.2 89.4 89.1 91.3 89.8 91.8 92.4 93.5 93.1	87.7 86.7 86.0 88.0 86.5 88.3 88.9 90.2 89.9	9.8 10.6 10.9 8.7 10.2 8.2 7.6 6.5 6.9
1990 1991 1992 1993 1994 1995 1996 1997 1998	4,846.7 5,031.5 5,347.3 5,568.1 5,874.8 6,200.9 6,591.6 7,000.7 7,525.4 7,910.8	592.7 586.6 610.5 646.5 690.5 743.9 832.0 926.2 1,026.4	4,254.0 4,444.9 4,736.7 4,921.6 5,184.3 5,457.0 5,759.6 6,074.6 6,498.9 6,803.3	3,977.3 4,131.7 4,388.7 4,636.2 4,913.6 5,170.8 5,478.5 5,794.2 6,157.5 6,595.5	3,835.5 3,980.1 4,236.9 4,483.6 4,750.8 4,987.3 5,273.6 5,570.6 5,918.5 6,342.8	111.3 115.0 111.3 107.0 113.0 130.6 147.3 159.7 169.5	30.6 36.7 40.5 45.6 49.8 52.9 57.6 63.9 69.5	276.7 313.2 348.1 285.4 270.7 286.3 281.1 280.4 341.5 207.8	93.5 93.0 92.7 94.2 94.8 95.1 95.4 94.7 96.9	90.2 89.5 89.4 91.1 91.6 91.6 91.7 91.1 93.2	6.5 7.0 7.3 5.8 5.2 5.2 4.9 4.6 5.3 3.1
2000	8,559.4 8,883.3 9,060.1 9,378.1 9,937.2 10,485.9 11,268.1 11,912.3 12,460.2 11,867.0	1,232.3 1,234.8 1,050.4 1,000.3 1,047.8 1,208.6 1,352.4 1,488.7 1,435.7	7,327.2 7,648.5 8,009.7 8,377.8 8,889.4 9,277.3 9,915.7 10,423.6 11,024.5 10,722.4	7,114.1 7,443.5 7,727.5 8,088.1 8,571.2 9,134.1 9,659.1 10,174.9 10,432.2 10,214.3	6,830.4 7,148.8 7,439.2 7,804.1 8,270.6 8,803.5 9,301.0 9,772.3 10,035.5 9,845.9	200.3 203.7 191.3 182.7 190.3 210.8 230.1 260.9 245.6 217.1	83.4 91.0 97.0 101.3 110.3 119.8 128.0 141.7 151.0	213.1 204.9 282.2 289.6 318.2 143.2 256.6 248.7 592.3 508.2	97.1 97.3 96.5 96.5 96.4 98.5 97.4 97.6 94.6	93.2 93.5 92.9 93.2 93.0 94.9 93.8 93.8 91.0 91.8	2.9 2.7 3.5 3.5 3.6 1.5 2.6 2.4 5.4
2010 2011 2012 ^p	12,321.9 12,947.3 13,405.9	1,194.8 1,398.0 1,474.7	11,127.1 11,549.3 11,931.2	10,560.4 11,059.9 11,461.2	10,215.7 10,729.0 11,120.9	183.8 168.0 172.2	160.9 162.8 168.1	566.7 489.4 470.1	94.9 95.8 96.1	91.8 92.9 93.2	5.1 4.2 3.9
2009: I II III IV	11,927.5 11,879.3 11,794.9 11,866.2	1,199.7 1,121.3 1,125.6 1,131.7	10,727.8 10,758.1 10,669.2 10,734.6	10,138.1 10,135.4 10,259.6 10,323.9	9,768.4 9,763.9 9,888.8 9,962.5	221.2 221.5 219.6 206.1	148.5 150.1 151.2 155.3	589.8 622.7 409.6 410.6	94.5 94.2 96.2 96.2	91.1 90.8 92.7 92.8	5.5 5.8 3.8 3.8
2010: I II IV	12,089.8 12,290.6 12,397.2 12,509.9	1,156.9 1,173.0 1,211.8 1,237.5	10,932.9 11,117.5 11,185.4 11,272.4	10,428.2 10,498.4 10,581.5 10,733.3	10,069.1 10,148.3 10,243.6 10,401.9	199.0 189.7 176.0 170.2	160.0 160.4 161.9 161.1	504.8 619.1 603.8 539.1	95.4 94.4 94.6 95.2	92.1 91.3 91.6 92.3	4.6 5.6 5.4 4.8
2011: I II IV	12,856.5 12,938.9 12,976.3 13,017.4	1,372.5 1,396.6 1,403.8 1,419.1	11,484.1 11,542.3 11,572.6 11,598.3	10,898.1 11,015.1 11,120.9 11,205.6	10,566.3 10,684.9 10,791.2 10,873.8	170.1 167.8 167.3 167.0	161.7 162.4 162.4 164.8	585.9 527.2 451.6 392.7	94.9 95.4 96.1 96.6	92.0 92.6 93.2 93.8	5.1 4.6 3.9 3.4
2012: I	13,227.1 13,327.0 13,406.2 13,663.2	1,450.8 1,465.2 1,476.5 1,506.2	11,776.4 11,861.8 11,929.7 12,157.0	11,348.7 11,406.1 11,494.7 11,595.1	11,007.2 11,067.2 11,154.4 11,254.6	175.4 171.2 171.6 170.7	166.1 167.7 168.6 169.8	427.7 455.7 435.1 561.9	96.4 96.2 96.4 95.4	93.5 93.3 93.5 92.6	3.6 3.8 3.6 4.6

¹ Consists of nonmortgage interest paid by households. ² Percents based on data in millions of dollars.

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

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, 1964-2012

[Quarterly data at seasonally adjusted annual rates, except as noted]

	0	isposable pe	ersonal incom	ie	Perso	nal consump	ntion expendi	tures	Gross d	omestic	
Year or quarter	Tot (billions o		Per c (doll		To: (billions o	tal of dollars)	Per c (doll			duct apita lars)	Population (thou-
	Current dollars	Chained (2005) dollars	Current dollars	Chained (2005) dollars	Current dollars	Chained (2005) dollars	Current dollars	Chained (2005) dollars	Current dollars	Chained (2005) dollars	sands) 1
1964	462.3 497.8 537.4 575.1 624.7 673.8	2,367.6 2,513.6 2,646.1 2,762.2 2,887.9 2,979.9	2,408 2,562 2,733 2,894 3,112 3,324	12,336 12,933 13,460 13,898 14,386 14,699	411.5 443.8 480.9 507.8 558.0 605.1	2,107.5 2,240.8 2,367.9 2,438.8 2,579.6 2,676.2	2,144 2,284 2,446 2,555 2,780 2,985	10,980 11,530 12,044 12,271 12,850 13,200	3,458 3,700 4,007 4,188 4,532 4,856	17,660 18,560 19,543 19,819 20,573 21,003	191,927 194,347 196,599 198,752 200,745 202,736
1970 1971 1972 1973 1974 1975 1976 1977 1978	735.5 801.4 869.0 978.1 1,071.7 1,187.3 1,302.3 1,435.0 1,607.3 1,790.9	3,107.3 3,247.7 3,405.2 3,636.6 3,689.5 3,836.6 3,969.0 4,154.6 4,251.9	3,586 3,859 4,140 4,615 5,010 5,497 5,972 6,514 7,220 7,956	15,151 15,637 16,221 17,159 16,871 17,083 17,592 18,017 18,662 18,888	648.3 701.6 770.2 852.0 932.9 1,033.8 1,151.3 1,277.8 1,427.6 1,591.2	2,738.9 2,843.3 3,018.1 3,167.7 3,141.4 3,212.6 3,391.5 3,534.3 3,690.1 3,777.8	3,161 3,378 3,669 4,020 4,362 4,786 5,279 5,801 6,413 7,069	13,355 13,690 14,377 14,946 14,686 14,874 15,551 16,044 16,575 16,782	5,063 5,425 5,897 6,522 7,010 7,583 8,366 9,216 10,303 11,382	20,802 21,231 22,121 23,180 22,841 22,573 23,555 24,391 25,481 25,988	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	2,002.7 2,237.1 2,412.7 2,599.8 2,891.5 3,079.3 3,258.8 3,435.3 3,726.3 3,991.4	4,293.7 4,407.9 4,504.4 4,653.5 4,986.9 5,142.4 5,312.6 5,399.9 5,633.0 5,782.5	8,794 9,726 10,390 11,095 12,232 12,911 13,540 14,146 15,206 16,134	18,855 19,164 19,397 19,859 21,096 21,561 22,073 22,236 22,986 23,374	1,755.8 1,939.5 2,075.5 2,288.6 2,501.1 2,717.6 2,896.7 3,097.0 3,350.1 3,594.5	3,764.5 3,821.6 3,874.9 4,096.4 4,313.6 4,538.3 4,722.4 4,868.0 5,064.3 5,207.5	7,710 8,432 8,938 9,766 10,580 11,394 12,036 12,753 13,670 14,530	16,531 16,615 16,686 17,481 18,247 19,028 19,621 20,046 20,665 21,050	12,243 13,594 14,009 15,084 16,629 17,683 18,531 19,504 20,813 22,160	25,618 26,008 25,260 26,163 27,799 28,693 29,418 30,090 31,043 31,850	227,726 230,008 232,218 234,333 236,334 238,506 240,683 242,843 245,061 247,387
1990 1991 1992 1993 1994 1995 1996 1997 1998	4,254.0 4,444.9 4,736.7 4,921.6 5,184.3 5,457.0 5,759.6 6,074.6 6,498.9 6,803.3	5,893.6 5,943.2 6,152.5 6,255.3 6,456.0 6,648.6 6,867.8 7,110.4 7,535.4 7,763.1	17,004 17,532 18,436 18,909 19,678 20,470 21,355 22,255 23,534 24,356	23,557 23,442 23,947 24,033 24,505 24,939 25,463 26,049 27,287 27,792	3,835.5 3,980.1 4,236.9 4,483.6 4,750.8 4,987.3 5,273.6 5,570.6 5,918.5 6,342.8	5,313.7 5,321.7 5,503.2 5,698.6 5,916.2 6,076.2 6,288.3 6,520.4 6,862.3 7,237.6	15,331 15,699 16,491 17,226 18,033 18,708 19,553 20,408 21,432 22,707	21,240 20,991 21,420 21,894 22,456 22,793 23,315 23,888 24,850 25,911	23,185 23,635 24,686 25,616 26,893 27,813 29,062 30,526 31,843 33,486	32,085 31,587 32,228 32,719 33,642 34,082 34,948 36,071 37,207 38,559	250,181 253,530 256,922 260,282 263,455 266,588 269,714 272,958 276,154 279,328
2000 2001 2002 2003 2004 2005 2006 2007 2008 2009	7,327.2 7,648.5 8,009.7 8,377.8 8,889.4 9,277.3 9,915.7 10,423.6 11,024.5 10,722.4	8,157.8 8,356.2 8,633.2 8,850.5 9,152.9 9,277.3 9,652.8 9,880.3 10,119.5 9,836.7	25,946 26,816 27,816 28,827 30,312 31,343 33,183 34,550 36,200 34,899	28,888 29,297 29,981 30,453 31,211 31,343 32,303 32,749 33,229 32,016	6,830.4 7,148.8 7,439.2 7,804.1 8,270.6 8,803.5 9,301.0 9,772.3 10,035.5 9,845.9	7,604.6 7,810.3 8,018.3 8,244.5 8,515.8 8,803.5 9,054.5 9,262.9 9,211.7 9,032.6	24,187 25,064 25,835 26,853 28,202 29,742 31,126 32,391 32,953 32,046	26,929 27,383 27,846 28,368 29,038 29,742 30,301 30,703 30,248 29,399	35,239 36,063 36,958 38,339 40,419 42,646 44,767 46,499 46,928 45,481	39,718 39,749 40,087 40,727 41,761 42,646 43,366 43,774 43,219 41,524	282,398 285,225 287,955 290,626 293,262 295,993 298,818 301,696 304,543 307,240
2010	11,127.1 11,549.3 11,931.2 10,727.8 10,758.1 10,669.2 10,734.6	10,016.5 10,149.7 10,304.8 9,927.3 9,915.6 9,760.2 9,746.4	35,920 37,013 37,964 35,031 35,058 34,689 34,820	32,335 32,527 32,789 32,417 32,313 31,733 31,615	10,215.7 10,729.0 11,120.9 9,768.4 9,763.9 9,888.8 9,962.5	9,196.2 9,428.8 9,604.9 9,039.5 8,999.3 9,046.2 9,045.4	32,978 34,384 35,385 31,898 31,818 32,151 32,316	29,686 30,217 30,562 29,518 29,327 29,412 29,341	46,805 48,314 49,897 45,466 45,249 45,362 45,846	42,169 42,620 43,245 41,507 41,389 41,443 41,757	309,776 312,036 314,278 306,237 306,866 307,573 308,285
2010: I II IV	10,734.0 10,932.9 11,117.5 11,185.4 11,272.4	9,881.6 10,034.1 10,063.3 10,087.4	35,393 35,926 36,074 36,283	31,990 32,425 32,455 32,469	10,069.1 10,148.3 10,243.6 10,401.9	9,100.8 9,159.4 9,216.0 9,308.5	32,597 32,794 33,037 33,481	29,462 29,598 29,723 29,962	46,197 46,577 47,009 47,431	41,915 42,072 42,260 42,427	308,900 309,457 310,067 310,679
2011: I II III IV	11,484.1 11,542.3 11,572.6 11,598.3	10,195.7 10,157.8 10,125.6 10,121.5	36,903 37,028 37,054 37,065	32,763 32,587 32,421 32,346	10,566.3 10,684.9 10,791.2 10,873.8	9,380.9 9,403.2 9,441.9 9,489.3	33,954 34,277 34,552 34,750	30,145 30,166 30,232 30,325	47,607 48,132 48,550 48,962	42,365 42,553 42,607 42,954	311,192 311,718 312,319 312,917
2012: I II IV ^p	11,776.4 11,861.8 11,929.7 12,157.0	10,213.9 10,270.6 10,288.8 10,445.4	37,573 37,781 37,925 38,574	32,588 32,713 32,708 33,143	11,007.2 11,067.2 11,154.4 11,254.6	9,546.8 9,582.5 9,620.1 9,670.0	35,119 35,250 35,460 35,711	30,460 30,522 30,582 30,683	49,384 49,642 50,263 50,295	43,093 43,154 43,401 43,333	313,425 313,960 314,564 315,162

¹ Population of the United States including Armed Forces overseas. 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, 1964-2012

[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 qu	artor	Total			Net priva	te saving		Net g	overnment s	saving			
rear or qu	iaitei	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
1964 1965 1966 1967 1968		143.4 158.5 168.7 170.6 182.0 198.4	77.0 87.7 92.3 87.6 91.6 99.3	69.7 78.0 82.3 89.9 86.6 82.7	40.5 42.7 44.3 54.2 52.5 52.5	29.2 35.3 38.0 35.8 34.1 30.3	0.0 .0 .0 .0	7.3 9.8 10.0 –2.3 5.1 16.5	0.9 3.2 2.3 -9.3 -2.4 8.6	6.4 6.5 7.8 7.0 7.5 8.0	66.4 70.7 76.5 82.9 90.4 99.2	48.3 51.9 56.5 61.6 67.4 74.5	18.1 18.9 20.0 21.4 23.0 24.7
1970 1971 1972 1973 1974 1976 1977 1978 1979		192.8 209.2 237.3 292.2 301.8 296.9 342.0 396.7 476.3 533.2	84.5 91.5 110.1 151.4 138.1 106.5 133.8 164.9 214.9 234.3	92.9 113.7 119.4 147.5 143.3 174.6 180.1 197.9 225.2 235.3	69.4 80.4 77.5 102.9 114.2 125.9 122.8 125.3 142.4 157.5	23.4 32.9 42.2 44.6 29.1 48.7 57.3 72.6 82.8 77.8	.0 .4 3 .0 .0 .0 .0 .0	-8.4 -22.2 -9.3 3.9 -5.2 -68.2 -46.3 -33.0 -10.2	-15.5 -28.7 -24.9 -11.8 -14.5 -70.6 -53.7 -46.1 -28.9 -14.0	7.1 6.5 15.6 15.7 9.3 2.5 7.4 13.1 18.7	108.3 117.8 127.2 140.8 163.7 190.4 208.2 231.8 261.4 298.9	81.7 89.5 97.7 109.5 127.8 150.4 165.5 186.1 212.0 244.5	26.6 28.2 29.4 31.3 35.9 39.9 42.6 45.6 49.5
1980 1981 1982 1983 1984 1986 1987 1988 1989		542.7 646.1 621.5 602.4 753.4 738.4 709.3 782.3 901.5 924.1	198.6 252.7 187.9 151.3 279.0 232.9 170.8 211.2 290.5 272.7	246.5 301.9 325.4 322.6 426.5 389.2 344.7 348.5 411.7 386.5	196.3 236.7 263.9 226.9 296.3 253.6 246.5 223.4 256.6 265.0	50.2 65.2 61.5 95.7 130.3 135.6 98.3 125.1 155.1 121.5	.0 .0 .0 .0 .0 .0 .0	-47.8 -49.2 -137.5 -171.4 -147.5 -156.3 -173.9 -137.4 -121.2 -113.8	-56.6 -56.8 -135.3 -176.2 -171.5 -178.6 -194.6 -149.3 -138.4 -133.9	8.8 7.6 -2.2 4.9 23.9 22.4 20.7 12.0 17.2 20.1	344.1 393.3 433.5 451.1 474.3 505.4 538.5 571.1 611.0 651.5	282.3 323.2 356.4 369.5 387.5 412.8 439.1 464.5 497.1 529.6	61.8 70.1 77.1 81.6 86.9 92.7 99.4 106.6 113.9 121.8
1990 1991 1992 1993 1994 1995 1997 1998 1999		917.6 951.3 932.3 958.4 1,094.7 1,219.0 1,344.4 1,525.7 1,654.4 1,708.0	226.4 227.0 187.9 180.4 275.5 349.6 431.8 561.9 633.9 613.6	396.7 451.2 491.8 461.6 487.7 546.6 557.1 585.7 553.4 473.0	276.7 313.2 348.1 285.4 270.7 286.3 281.1 280.4 341.5 207.8	120.0 138.0 159.5 169.7 199.4 243.9 272.3 308.2 212.6 260.1	.0 .0 -15.8 6.4 17.6 16.4 3.6 -2.9 7	-170.3 -224.2 -303.9 -281.2 -212.2 -197.0 -125.3 -23.8 80.5 140.6	-176.4 -218.4 -302.5 -280.2 -220.4 -206.2 -148.2 -60.1 33.6 98.8	6.2 -5.8 -1.4 9 8.2 9.2 23.0 36.3 46.9 41.8	691.2 724.4 744.4 778.0 819.2 869.5 912.5 963.8 1,020.5 1,094.4	560.4 585.4 599.9 626.4 661.0 704.6 743.4 789.7 841.6 907.2	130.8 138.9 144.5 151.6 158.2 164.8 169.2 174.1 179.0
2000		1,800.1 1,695.7 1,560.9 1,552.6 1,738.7 1,918.8 2,196.1 2,047.7 1,908.2 1,555.8	615.8 439.4 255.9 198.6 305.9 377.5 535.4 280.2 54.1 -310.5	389.4 414.9 562.8 613.8 693.7 634.5 688.1 513.2 739.8 1,032.0	213.1 204.9 282.2 289.6 318.2 143.2 256.6 248.7 592.3 508.2	176.3 210.0 280.6 309.2 390.5 486.4 430.3 270.7 152.5 518.8	.0 .0 .0 15.0 -15.0 5.0 1.3 -6.3 -5.0	226.5 24.6 -306.9 -415.2 -387.8 -257.1 -152.7 -233.0 -685.7 -1,342.6	185.2 40.5 -252.8 -376.4 -379.5 -283.0 -203.8 -245.2 -613.5 -1,229.3	41.3 -15.9 -54.1 -38.8 -8.4 25.9 51.0 12.2 -72.2 -113.2	1,184.3 1,256.2 1,305.0 1,354.1 1,432.8 1,541.4 1,660.7 1,767.5 1,854.1 1,866.3	986.8 1,051.6 1,094.0 1,135.9 1,200.9 1,290.8 1,391.4 1,476.2 1,542.9	197.5 204.6 210.9 218.1 231.9 250.6 269.3 291.3 311.2 323.5
2010 2011 2012 <i>P</i>		1,770.7 1,837.5	-102.8 -99.3	1,294.9 1,240.1	566.7 489.4 470.1	728.2 750.7	.0 .0 .0	-1,397.7 -1,339.4	-1,308.0 -1,237.4	-89.7 -102.0	1,873.4 1,936.8 2,011.8	1,539.9 1,587.4 1,647.8	333.5 349.4 363.9
		1,698.9 1,521.3 1,435.8 1,567.1	-186.6 -346.4 -418.7 -290.5	940.8 1,077.0 1,025.5 1,084.8	589.8 622.7 409.6 410.6	331.1 454.3 615.9 674.1	20.0 .0 .0 .0	-1,127.4 -1,423.4 -1,444.1 -1,375.3	-1,011.8 -1,313.5 -1,318.6 -1,273.5	-115.6 -109.9 -125.5 -101.8	1,885.5 1,867.7 1,854.4 1,857.6	1,562.9 1,544.7 1,531.1 1,532.3	322.5 323.0 323.3 325.3
2010: I II		1,683.7 1,748.1 1,847.9 1,803.0	-179.4 -119.5 -27.6 -84.6	1,246.9 1,308.5 1,347.8 1,276.4	504.8 619.1 603.8 539.1	742.1 689.4 744.0 737.3	.0 .0 .0 .0	-1,426.3 -1,427.9 -1,375.4 -1,361.0	-1,315.2 -1,319.5 -1,303.1 -1,294.4	-111.1 -108.4 -72.4 -66.7	1,863.1 1,867.5 1,875.5 1,887.7	1,534.5 1,535.4 1,540.5 1,549.3	328.6 332.1 335.0 338.4
III		1,811.2 1,800.7 1,813.1 1,925.0	-93.1 -126.7 -135.8 -41.6	1,232.9 1,255.6 1,214.2 1,257.5	585.9 527.2 451.6 392.7	647.0 728.4 762.6 864.9	.0 .0 .0 .0	-1,326.0 -1,382.3 -1,350.0 -1,299.1	-1,227.3 -1,307.7 -1,232.0 -1,182.6	-98.7 -74.6 -118.0 -116.5	1,904.3 1,927.4 1,948.9 1,966.6	1,561.7 1,580.4 1,596.5 1,611.0	342.6 347.1 352.4 355.5
2012: I II		1,945.6 1,952.4 1,982.5	-39.3 -52.3 -37.3	1,147.1 1,186.7 1,189.9	427.7 455.7 435.1 561.9	719.4 731.0 754.8	.0 .0 .0	-1,186.4 -1,239.0 -1,227.2	-1,058.7 -1,115.4 -1,087.2	-127.6 -123.7 -140.0	1,984.9 2,004.8 2,019.8 2,037.6	1,625.9 1,642.0 1,654.2 1,669.2	359.0 362.8 365.6 368.4

¹ With inventory valuation and capital consumption adjustments. See next page for continuation of table.

TABLE B-32. Gross saving and investment, 1964-2012—Continued

[Billions of dollars, except as noted; quarterly data at seasonally adjusted annual rates]

	(Gross dom	estic inves		pital acco	unt					Addenda:			
			mestic in		9,111171		Statis-		Gross a	overnment	saving			
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}	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
1964 1965 1966 1967 1968 1969	144.2 160.0 174.9 175.1 186.4 201.3	136.7 153.8 171.1 171.6 184.8 199.7	102.1 118.2 131.3 128.6 141.2 156.4	34.6 35.6 39.8 43.0 43.6 43.3	0.0	7.5 6.2 3.8 3.5 1.5	0.8 1.5 6.2 4.5 4.3 2.9	118.0 129.8 138.7 151.5 154.0 157.2	25.4 28.6 30.0 19.1 28.0 41.2	13.2 15.9 15.3 4.5 12.2 23.9	12.1 12.8 14.6 14.5 15.8 17.3	70.3 83.1 94.6 88.6 94.4 100.5	21.5 21.9 21.5 20.5 20.0 20.1	11.5 12.1 11.7 10.5 10.1 10.0
1970 1971 1972 1973 1974 1975 1976 1976 1977 1978	199.7 220.2 246.2 300.2 311.6 313.2 365.4 417.9 502.4 580.2	196.0 219.9 250.2 291.3 305.7 293.3 358.4 428.8 515.0 581.4	152.4 178.2 207.6 244.5 249.4 230.2 292.0 361.3 438.0 492.9	43.6 41.8 42.6 46.8 56.3 63.1 66.4 67.5 77.1 88.5	.0 .0 .0 .0 .0 .1 .1 .1	3.7 .3 -4.1 8.8 5.9 19.8 7.0 -11.0 -12.7 -1.3	6.9 11.0 8.9 8.0 9.8 16.3 23.5 21.2 26.1 47.0	174.6 203.2 217.1 257.0 271.1 325.1 345.6 384.1 437.1 479.7	18.2 6.0 20.2 35.2 30.7 -28.2 -3.7 12.6 39.2 53.5	.6 -12.2 -8.3 5.2 3.7 -50.9 -32.3 -23.1 -3.9 13.0	17.7 18.3 28.5 30.0 27.0 22.7 28.6 35.7 43.2 40.5	87.6 102.2 123.1 150.6 142.0 102.9 150.2 197.1 253.6 282.4	18.6 18.6 19.2 21.1 20.1 18.2 18.8 19.6 20.8 20.9	8.1 8.9 10.9 9.2 6.5 7.4 8.1 9.4
1980 1981 1982 1983 1984 1985 1986 1987 1988	588.0 682.6 626.2 652.1 784.9 780.7 777.1 815.1 892.0 980.3	579.5 679.3 629.5 687.2 875.0 895.0 919.7 969.2 1,007.7	479.3 572.4 517.2 564.3 735.6 736.2 746.5 785.0 821.6 874.9	100.3 106.9 112.3 122.9 139.4 158.8 173.2 184.3 186.1	.1 .1 .1 .1 .1 .1 .1 .1	8.4 3.2 -3.4 -35.2 -90.2 -114.5 -142.8 -154.2 -115.9 -92.7	45.3 36.6 4.8 49.7 31.5 42.3 67.7 32.9 -9.5 56.1	528.8 625.2 681.9 692.2 814.0 802.0 783.8 813.0 908.8 916.1	14.0 20.9 -60.4 -89.8 -60.6 -63.6 -74.5 -30.8 -7.3 8.0	-26.6 -23.0 -97.7 -135.6 -126.9 -130.6 -143.0 -94.2 -79.3 -70.6	40.6 43.8 37.3 45.8 66.3 67.0 68.6 63.4 72.0 78.7	235.4 285.9 196.0 236.0 400.6 389.5 381.3 398.1 396.7 421.2	19.5 20.7 18.9 17.1 19.1 17.6 16.1 16.6 17.6	7.2 8.1 5.7 4.3 7.1 5.5 3.9 4.5 5.7
1990 1991 1992 1993 1994 1995 1996 1997 1998	1,001.8 1,031.0 1,042.3 1,094.2 1,203.5 1,271.6 1,370.3 1,511.7 1,569.1 1,637.0	1,076.7 1,023.2 1,087.9 1,172.8 1,318.2 1,376.6 1,484.4 1,641.0 1,773.6 1,928.9	861.0 802.9 864.8 953.3 1,097.3 1,144.0 1,240.2 1,388.7 1,510.8 1,641.5	215.7 220.3 223.1 219.4 220.9 232.6 244.2 252.4 262.9 287.4	7.4 5.3 -1.3 .9 1.3 .4 .2 .5 .2 4.5	-82.3 2.6 -44.3 -79.4 -116.0 -105.5 -114.4 -129.8 -204.8 -296.4	84.2 79.7 110.0 135.8 108.8 52.5 25.9 -14.0 -85.3 -71.1	957.1 1,036.6 1,091.7 1,088.0 1,148.6 1,251.2 1,300.5 1,375.4 1,394.9 1,380.3	-39.5 -85.3 -159.4 -129.5 -53.9 -32.2 43.9 150.3 259.5 327.8	-108.7 -146.4 -227.9 -202.4 -140.3 -124.5 -66.3 22.4 116.4 183.9	69.2 61.1 68.5 72.9 86.4 92.3 110.2 127.9 143.1 143.9	385.5 298.8 343.5 394.8 499.0 507.2 571.9 677.2 753.1 834.5	16.0 16.0 14.9 14.6 15.6 16.5 17.1 18.2 18.6	3.9 3.8 3.0 2.7 3.9 4.7 5.5 6.7 7.1
2000	1,666.2 1,592.3 1,538.9 1,569.3 1,716.3 1,823.8 1,953.8 2,035.7 1,905.8 1,674.1	2,076.5 1,984.0 1,990.4 2,085.4 2,340.9 2,564.3 2,752.2 2,751.7 2,584.8 2,056.2	1,772.2 1,661.9 1,647.0 1,729.7 1,968.6 2,172.3 2,327.1 2,295.2 2,087.6 1,549.3	304.3 322.0 343.5 355.8 372.4 392.0 425.1 456.5 497.2 506.9	.3 -12.9 .5 2.1 -2.8 -12.9 2.1 -1 -5.4 .6	-410.7 -378.7 -452.1 -518.2 -621.8 -727.7 -800.5 -715.9 -673.6 -382.7	-134.0 -103.4 -22.1 16.7 -22.3 -95.1 -242.3 -12.0 -2.4 118.3	1,376.2 1,466.5 1,656.8 1,749.7 1,894.6 1,925.4 2,079.5 1,989.4 2,282.8 2,574.8	424.0 229.2 -95.9 -197.1 -155.9 -6.5 116.5 58.3 -374.6 -1,019.0	273.0 129.1 -163.6 -285.5 -284.6 -182.6 -97.2 -132.6 -493.5 -1,104.6	151.0 100.1 67.7 88.4 128.7 176.1 213.8 190.9 119.0 85.5	892.2 727.7 685.4 731.4 908.2 1,022.9 1,091.5 984.2 730.7 189.9	17.8 16.2 14.6 13.9 14.5 15.0 16.0 14.5 13.2	6.1 4.2 2.4 1.8 2.6 2.9 3.9 2.0 .4 -2.2
2010 2011 2012 ^p	1,794.0 1,869.4	2,242.9 2,335.1 2,531.1	1,737.3 1,854.9 2,058.6	505.5 480.2 472.5	.7 1.7	-449.5 -467.4	23.3 31.9	2,834.8 2,827.4	-1,064.1 -990.0	-1,177.8 -1,100.4	113.6 110.4	369.4 398.4 519.3	12.1 12.0	7 6
2009: III	1,754.4 1,653.8 1,594.4 1,693.6	2,149.7 2,007.8 1,975.5 2,091.8	1,645.8 1,495.3 1,465.6 1,590.4	503.9 512.5 509.9 501.4	.4 .5 .6	-395.8 -354.5 -381.6 -398.9	55.5 132.5 158.6 126.5	2,503.8 2,621.7 2,556.6 2,617.1	-804.9 -1,100.4 -1,120.8 -1,050.0	-888.7 -1,189.4 -1,193.4 -1,146.8	83.8 89.0 72.6 96.8	264.3 140.1 121.0 234.2	12.1 11.0 10.3 11.0	-1.3 -2.5 -3.0 -2.0
2010: I II IV	1,699.3 1,787.8 1,844.1 1,844.9	2,152.0 2,235.2 2,308.7 2,275.6	1,660.4 1,724.7 1,793.3 1,770.9	491.6 510.5 515.4 504.7	.5 .6 1.1 .5	-453.2 -447.9 -465.7 -431.3	15.6 39.7 -3.8 41.8	2,781.4 2,843.9 2,888.3 2,825.7	-1,097.7 -1,095.8 -1,040.4 -1,022.6	-1,187.1 -1,189.9 -1,172.3 -1,161.8	89.4 94.1 131.9 139.2	288.9 367.6 433.2 387.9	11.7 12.0 12.5 12.1	-1.2 8 2 6
2011: I II IV	1,760.8 1,825.8 1,895.6 1,995.3	2,238.5 2,300.0 2,330.5 2,471.6	1,755.9 1,819.0 1,853.8 1,991.1	482.6 480.9 476.8 480.5	.6 3.8 1.6 .7	-478.3 -477.9 -436.6 -477.0	-50.4 25.1 82.5 70.3	2,794.6 2,836.0 2,810.7 2,868.5	-983.4 -1,035.3 -997.7 -943.6	-1,092.6 -1,171.5 -1,093.5 -1,043.8	109.3 136.2 95.9 100.3	334.2 372.5 381.7 505.0	12.0 11.8 11.8 12.4	6 8 9 3
2012: 	1,946.7 2,030.1 2,121.0	2,499.9 2,515.1 2,554.7 2,554.6	2,032.2 2,041.7 2,080.1 2,080.3	467.6 473.4 474.5 474.3	.5 .5 .5	-553.6 -485.4 -434.2	1.1 77.7 138.5	2,773.0 2,828.7 2,844.1	-827.4 -876.3 -861.6	-919.0 -974.3 -945.2	91.6 98.1 83.6	515.0 510.3 534.9 517.1	12.4 12.4 12.5	3 3 2

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

National income and product accounts (NIPA).
 For details on government investment, see Table B–20.
 4 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).

TABLE B-33. Median money income (in 2011 dollars) and poverty status of families and people, by race, 2002-2011

			Fami	lies ¹			People	halau	Median i	money inco	me (in 201	1 dollars)
				Below por	verty level		povert		of pe	eople 15 ye with in	ars old and	over
Race, Hispanic origin, and year	Number (mil- lions)	Median money income (in 2011	То	tal	housel no hu		Number	Porcent	Ma	ales	Fem	nales
	iiuiisj	dol- lars) ²	Number (mil- lions)	Percent	Number (mil- lions)	Percent	(mil- lions)	Percent	All people	Year- round full-time workers	All people	Year- round full-time workers
TOTAL (all races) 3 2002 2003 2004 2005 2006 2007 2008 2009 2010 6 2011	75.6 76.2 76.9 77.4 78.5 77.9 78.9 78.9 79.6 80.5	\$64,610 64,421 64,370 64,740 65,153 66,554 64,264 63,007 62,136 60,974	7.2 7.6 7.8 7.7 7.7 7.6 8.1 8.8 9.4 9.5	9.6 10.0 10.2 9.9 9.8 9.8 10.3 11.1 11.8	3.6 3.9 4.0 4.0 4.1 4.1 4.2 4.4 4.8 4.9	26.5 28.0 28.3 28.7 28.3 28.3 28.7 29.9 31.7 31.2	34.6 35.9 37.0 36.5 37.3 39.8 43.6 46.3 46.2	12.1 12.5 12.7 12.6 12.3 12.5 13.2 14.3 15.1 15.0	\$36,553 36,602 36,335 36,031 35,992 36,009 34,640 33,747 33,221 32,986	\$50,641 50,753 49,613 48,604 50,151 50,141 49,910 51,552 51,733 50,316	\$21,018 21,106 21,036 21,401 22,326 22,695 21,798 21,975 21,430 21,102	\$38,718 38,708 38,241 38,313 39,030 39,231 38,324 39,043 39,651 38,685
WHITE, non-Hispanic 7 2002 2003 2004 2004 2005 2006 2007 2007 2008 2010 6 2010 6	53.9 54.0 54.3 54.3 54.7 53.9 54.5 54.5 53.8 54.2	72,849 73,296 72,626 72,760 73,474 75,863 73,195 70,612 71,076 69,829	3.2 3.3 3.5 3.4 3.2 3.4 3.8 3.9 4.0	6.0 6.1 6.5 6.1 6.2 5.9 6.2 7.0 7.2	1.4 1.5 1.5 1.6 1.5 1.5 1.7 1.7	19.4 20.8 21.5 22.0 20.7 20.7 23.3 24.1 23.4	15.6 15.9 16.9 16.2 16.0 17.0 18.5 19.3	8.0 8.2 8.7 8.3 8.2 8.6 9.4 9.9 9.8	40,049 39,537 40,100 40,720 40,787 40,540 39,077 38,572 38,326 38,148	56,450 56,612 55,941 55,437 56,270 55,826 54,680 55,017 56,377 55,763	21,740 22,380 21,951 22,409 23,121 23,525 22,719 23,005 22,400 22,226	40,440 41,623 41,583 41,241 41,146 41,955 41,230 42,221 42,636 41,373
BLACK 7 2002 2003 2004 2004 2005 2006 2007 2007 2008 2009 5 2010 6 2011	8.9 8.9 9.1 9.3 9.4 9.4 9.6	41,913 42,029 41,851 40,857 42,689 43,544 41,657 40,275 39,811 40,495	1.9 2.0 2.0 2.0 2.0 2.0 2.1 2.1 2.3 2.3	21.5 22.3 22.8 22.1 21.6 22.1 22.0 22.7 24.1 24.2	1.4 1.5 1.5 1.5 1.5 1.5 1.5 1.7	35.8 36.9 37.6 36.1 36.6 37.3 37.2 36.7 38.7 39.0	8.6 8.8 9.0 9.2 9.0 9.2 9.4 9.9 10.7	24.1 24.4 24.7 24.9 24.3 24.5 24.7 25.8 27.4 27.6	26,955 26,886 27,017 26,098 27,959 28,010 26,380 24,891 24,031 23,475	39,921 40,880 37,769 39,439 39,575 39,849 40,334 41,274 38,914 40,273	20,914 20,277 20,669 20,312 21,309 21,426 21,098 20,416 20,266 19,755	34,536 33,778 34,703 34,980 34,509 34,268 33,621 34,047 35,117 35,146
ASIAN 7 2002 2003 2004 2004 2005 2006 2007 2007 2008 2009 5 2010 6 2011	2.8 3.1 3.1 3.2 3.3 3.3 3.5 3.6 3.9 4.2	76,242 77,348 77,896 79,444 83,230 83,668 76,859 78,671 77,590 72,996	.2 .3 .2 .3 .3 .3 .3 .4 .4	7.4 10.2 7.4 9.0 7.8 7.9 9.8 9.4 9.3	.0 .1 .0 .1 .1 .1 .1	14.2 23.8 13.6 19.7 15.4 16.1 16.7 16.9 21.1	1.2 1.4 1.2 1.4 1.3 1.6 1.7 1.9 2.0	10.1 11.8 9.8 11.1 10.3 10.2 11.8 12.5 12.2	38,862 39,488 39,316 39,418 41,739 40,344 38,239 39,143 36,953 36,334	53,351 56,522 55,741 57,290 58,119 55,552 54,094 56,023 54,161 56,283	22,612 21,619 24,436 24,932 24,765 26,419 24,139 25,525 24,306 22,039	40,000 42,292 43,597 42,411 44,897 44,816 46,179 46,795 43,242 41,411
HISPANIC (any race) 7 2002 2003 2004 4 2005 2006 2007 2008 2009 5 2011 6 2011	9.1 9.3 9.5 9.9 10.2 10.4 10.5 10.4 11.3	42,738 41,911 42,198 43,626 44,620 44,003 42,270 41,660 40,540 40,061	1.8 1.9 2.0 1.9 2.0 2.2 2.4 2.7	19.7 20.8 20.5 19.7 18.9 19.7 21.3 22.7 24.3 22.9	.7 .8 .9 .9 .9 1.0 1.1 1.3	35.3 37.0 38.9 36.0 38.4 39.2 38.8 42.6 41.2	8.6 9.1 9.4 9.2 9.9 11.0 12.4 13.5 13.2	21.8 22.5 21.9 21.8 20.6 21.5 23.2 25.3 26.5 25.3	25,881 25,745 25,667 25,448 26,161 26,523 25,073 23,337 23,127 23,731	32,676 32,301 32,027 31,067 32,986 33,034 32,611 33,175 32,847 32,088	16,708 16,683 17,208 17,323 17,578 18,167 17,149 16,997 16,806 16,829	27,948 28,202 28,928 28,827 28,662 29,455 28,665 29,237 30,014 30,102

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.

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.

² Adjusted by consumer price index research series (CPI-U-RS).
³ Data for American Indians and Alaska natives, native Hawaiians and other Pacific Islanders, and those reporting two or more races are included in the total but not shown separately.

out not snown separately.

4 For 2004, figures are revised to reflect a correction to the weights in the 2005 Annual Social and Economic Supplement.

5 Beginning with data for 2009, the upper income interval used to calculate median incomes was expanded to \$250,000 or more.

6 Reflects implementation of Census 2010-based population controls comparable to succeeding years.

7 The Current Population Survey allows respondents to choose more than one race. Data shown are for "white alone, non-Hispanic," "black alone," and "Asian alone" race categories. ("Black" is also "black or African American.") Family race and Hispanic origin are based on the reference person.

POPULATION, EMPLOYMENT, WAGES, AND PRODUCTIVITY Table B-34. Population by age group, 1940-2012

[Thousands of persons]

					Age (years)			
July 1	Total	Under 5	5–15	16–19	20–24	25–44	45-64	65 and over
1940	132,122 133,402 134,860 136,739 138,397 139,928	10,579 10,850 11,301 12,016 12,524 12,979	24,811 24,516 24,231 24,093 23,949 23,907	9,895 9,840 9,730 9,607 9,561 9,361	11,690 11,807 11,955 12,064 12,062 12.036	39,868 40,383 40,861 41,420 42,016 42,521	26,249 26,718 27,196 27,671 28,138 28,630	9,031 9,288 9,584 9,867 10,147 10,494
1945 1946 1947 1948 1949	139,926 141,389 144,126 146,631 149,188 152,271	12,979 13,244 14,406 14,919 15,607	23,907 24,103 24,468 25,209 25,852 26,721	9,381 9,119 9,097 8,952 8,788 8,542	12,036 12,004 11,814 11,794 11,700	42,321 43,027 43,657 44,288 44,916 45,672	29,064 29,498 29,931 30,405 30,849	10,434 10,828 11,185 11,538 11,921
1951	154,878 157,553 160,184 163,026 165,931 168,903 171,984 174,882	17,333 17,312 17,638 18,057 18,566 19,003 19,494 19,887	27,279 28,894 30,227 31,480 32,682 33,994 35,272 36,445	8,446 8,414 8,460 8,637 8,744 8,916 9,195 9,543	11,552 11,350 11,062 10,832 10,714 10,616 10,603 10,756	46,103 46,495 46,786 47,001 47,194 47,379 47,440 47,337	31,362 31,884 32,394 32,942 33,506 34,057 34,591 35,109	12,803 13,203 13,617 14,076 14,525 14,938 15,388 15,886
1959	177,830 180,671 183,691 186,538 189,242 191,889 194,303 196,560 198,712 200,706	20,175 20,341 20,522 20,469 20,342 20,165 19,824 19,208 18,563 17,913 17,376	37,368 38,494 39,765 41,205 41,626 42,297 42,938 43,702 44,244 44,622	10,215 10,683 11,025 11,180 12,007 12,736 13,516 14,311 14,200 14,452	10,969 11,134 11,483 11,959 12,714 13,269 13,746 14,050 15,248	47,192 47,140 47,084 47,013 46,994 46,958 46,912 47,001 47,194 47,721	35,663 36,203 36,722 37,255 37,782 38,338 38,916 39,534 40,193 40,846	16,248 16,675 17,089 17,457 17,778 18,127 18,451 18,755 19,071
1969 1970 1971 1972 1973 1974 1975 1976 1976 1977 1978	202,677 205,052 207,661 209,869 211,909 213,854 215,973 218,035 220,239 222,585 225,055	17,376 17,166 17,244 17,101 16,851 16,487 16,121 15,617 15,564 15,735	44,840 44,816 44,591 44,203 43,582 42,989 42,508 42,099 41,298 40,428 39,552	14,800 15,289 15,688 16,039 16,446 16,769 17,017 17,194 17,276 17,288 17,242	16,480 17,202 18,159 18,153 18,521 18,975 19,527 19,986 20,499 20,946 21,297	48,064 48,473 48,936 50,482 51,749 53,051 54,302 55,852 57,561 59,400 61,379	41,437 41,999 42,482 42,898 43,235 43,522 43,801 44,008 44,150 44,286 44,390	19,680 20,107 20,561 21,020 21,525 22,061 22,696 23,278 23,892 24,502 25,134
1980 1981 1982 1983 1984 1985 1986 1987 1988 1989	227,726 229,966 232,188 234,307 236,348 238,466 240,651 242,804 245,021 247,342	16,451 16,893 17,228 17,547 17,695 17,842 17,963 18,052 18,195	38,838 38,144 37,784 37,526 37,461 37,450 37,404 37,333 37,593	17,167 16,812 16,332 15,823 15,295 15,005 15,024 15,215 15,198 14,913	21,590 21,869 21,902 21,844 21,737 21,478 20,942 20,385 19,846 19,442	63,470 65,528 67,692 69,733 71,735 73,673 75,651 77,338 78,595 79,943	44,504 44,500 44,462 44,474 44,547 44,602 44,660 44,854 45,471 45,882	25,707 26,221 26,787 27,361 27,878 28,416 29,008 29,626 30,124 30,682
1990 1991 1992 1993 1994 1995 1996 1997 1998	250,132 253,493 256,894 260,255 263,436 266,557 269,657 272,912 276,115 279,295	18,856 19,208 19,528 19,729 19,777 19,627 19,408 19,233 19,145	38,632 39,349 40,161 40,904 41,689 42,510 43,172 43,833 44,332 44,755	14,466 13,992 13,781 13,953 14,228 14,522 15,057 15,433 15,856 16,164	19,323 19,414 19,314 19,101 18,758 18,391 17,965 17,992 18,250 18,672	81,291 82,844 83,201 83,766 84,334 84,933 85,527 85,737 85,663 85,408	46,316 46,874 48,553 49,899 51,318 52,806 54,396 56,283 58,249 60,362	31,247 31,812 32,356 32,902 33,331 33,769 34,143 34,402 34,619 34,798
2000 1 2001 1 2002 1 2002 1 2003 1 2004 1 2005 1 2006 1 2007 1 2008 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 2009 1 20	282,162 284,969 287,625 290,108 292,805 295,517 298,380 301,231 304,094 306,772	19,178 19,298 19,429 19,592 19,786 19,917 19,939 20,126 20,271 20,245	45,166 45,236 45,232 45,209 45,131 45,059 44,984 44,920 44,955 45,103	16,230 16,372 16,512 16,625 16,838 17,029 17,401 17,703 17,893	19,117 19,757 20,244 20,592 20,846 20,960 21,036 21,078 21,181 21,384	84,973 84,523 83,990 83,398 83,067 82,764 82,639 82,510 82,400 82,211	62,428 64,492 66,696 68,829 70,935 73,137 75,216 77,068 78,618 80,273	35,070 35,290 35,522 35,864 36,203 36,650 37,164 37,826 38,778 39,623
2010 ^{1, 2} 2011 ^{1, 2} 2012 ¹	309,350 311,592 313,914	20,201 20,162	45,323 45,196	17,712 17,487	21,668 22,154	82,229 82,418	81,780 82,780	40,438 41,394

 $^{^1}$ Data for 2000–2012 reflect the results of the 2010 Census, and do not include Armed Forces overseas. 2 Revised total population data are available as follows: 2010, 309,326; and 2011, 311,588.

Note: Includes Armed Forces overseas beginning with 1940. Includes Alaska and Hawaii beginning with 1950. All estimates are consistent with decennial census enumerations.

TABLE B-35. Civilian population and labor force, 1929-2012

[Monthly data seasonally adjusted, except as noted]

				vilian labor for	ce		,			
V	Civilian noninsti-			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
		Tho	usands of per	rsons 14 years	of age and ov	er			Percent	
1929		49,180	47,630	10,450	37,180	1,550				3.2
1933		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	14.6
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
1942 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
		Tho	usands of per	rsons 16 years	of age and ov	er				
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	104.995	62,208	58,918	7,160	51.758	3,288	42,787	59.2	56.1	5.3
1951 1952 ₋	104,621 105,231	62,017 62,138	59,961 60,250	6,726 6,500	53,235 53,749	2,055 1,883	42,604 43,093	59.2 59.0	57.3 57.3	3.3 3.0
1952 1953 ⁵ 1954	107,056 108,321	63,015 63,643	61,179 60,109	6,260 6,205	54,919 53,904	1,834 3,532	44,041 44,678	58.9 58.8	57.1 55.5	2.9 5.5
1955 1956	109,683 110,954	65,023 66,552	62,170 63,799	6,450 6,283	55,722 57,514	2,852 2,750	44,660 44,402	59.3 60.0	56.7 57.5	4.4 4.1
1957 1958	112,265 113,727	66,929 67,639	64,071 63,036	5,947 5,586	58,123 57,450	2,859 4,602	45,336 46,088	59.6 59.5	57.1 55.4	4.1 4.3 6.8
1959	115,329	68,369	64,630	5,565 5,458	59,065	3,740	46,960	59.3 59.4	56.0 56.1	5.5 5.5
1960 ⁵ 1961	117,245 118,771	69,628 70,459	65,778 65,746	5,200	60,318 60,546	3,852 4,714	47,617 48,312	59.3	55.4	6.7
1961 1962 ⁵ 1963 1964	120,153 122,416 124,485	70,614 71,833 73,091	66,702 67,762 69,305	4,944 4,687 4,523	61,759 63,076 64,782	3,911 4,070 3,786	49,539 50,583 51,394	58.8 58.7 58.7	55.5 55.4 55.7	5.5 5.7 5.2
1965	126,513	74,455 75,770	71,088	4,361	66,726 68,915	3,366	52,058	58.9 59.2	56.2 56.9	4.5
1966 1967	128,058 129,874	//,34/	72,895 74,372	3,979 3,844	70,527	2,875 2,975	52,288 52,527	59.6	57.3	3.8
1968 1969	132,028 134,335	78,737 80,734	75,920 77,902	3,817 3,606	72,103 74,296	2,817 2,832	53,291 53,602	59.6 60.1	57.5 58.0	3.6 3.5
1970 1971 <u>.</u>	137,085 140,216	82,771 84,382	78,678 79,367	3,463 3,394	75,215 75,972	4,093 5,016	54,315 55,834	60.4 60.2	57.4 56.6	4.9 5.9
1977 1972 ⁵ 1973 ⁵ 1974	144,126 147,096	87,034 89,429	82,153 85,064	3,484 3,470	78,669 81,594	4,882 4,365	57,091 57,667	60.4 60.8	57.0 57.8	5.6 4.9
1974 1975	150,120 153,153	91,949 93,775	86,794 85,846	3,515 3,408	83,279 82,438	5,156 7,929	58,171 59,377	61.3 61.2	57.8 56.1	5.6 8.5
1976	156,150 159,033	96,158 99,009	88,752 92,017	3,331 3,283	85,421 88,734	7,406 6,991	59,991 60,025	61.6 62.3	56.8 57.9	7.7 7.1
1977 1978 ⁵ 1979	161,910 164,863	102,251 104,962	96,048 98,824	3,387 3,347	92,661 95,477	6,202 6,137	59,659 59,900	63.2 63.7	59.3 59.9	6.1 5.8
1980	167.745	106 940	99.303	3,364	95,938	7 637	60.806	63.8	59.2	7.1
1981 1982	170,130 172,271	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
1983 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 1987	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	64.8 65.3	60.1 60.7	7.2 7.0
1987 1988	182,753 184,613	119,865 121,669	112,440	3,208 3,169	106,434 109,232 111,800	7,425 6,701	62,888 62,944	65.6 65.9	61.5 62.3	6.2
1989 1990 ⁵	186,393	123,869	114,968 117,342	3,199	114,142 115,570	6,528	62,523	66.5	63.0	5.5 5.3 5.6
1991	189,164 190,925	125,840 126,346	118,793 117,718 118,492 120,259	3,223 3,269	115,570 114,449 115,245	7,047 8,628	63,324 64,578 64,700	66.5 66.2	62.8 61.7	5.b 6.8
1992 1993 1994 ⁵	192,805 194,838 196,814	128,105 129,200 131,056	118,492 120,259 123,060	3,247 3,115 3,409	115,245 117,144 119,651	9,613 8,940 7,996	65,638 65,758	66.4 66.3 66.6	61.5 61.7 62.5	6.8 7.5 6.9 6.1
1995	198,584 200,591	132.304	124,900 126,708	3.440	121,460 123,264	7.404	66,280 66,647	66.6 66.8	62.9 63.2	5.6
1996 1997 ⁵ 1998 ⁵	203,133 205,220	133,943 136,297 137,673	129,558 131,463	3,443 3,399 3,378	125,264 126,159 128,085	7,236 6,739 6,210	66,837 67,547	67.1 67.1	63.8 64.1	5.4 4.9 4.5
1999	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.

¹ Not seasonally adjusted.
2 Civilian labor force as percent of civilian noninstitutional population.
3 Civilian employment as percent of civilian noninstitutional population.
4 Unemployed as percent of civilian labor force.

TABLE B-35. Civilian population and labor force, 1929-2012—Continued

[Monthly data seasonally adjusted, except as noted]

				vilian labor for		5,00pt do 110				
Year or month	Civilian noninsti-			Employment		II-	Not in labor	Civilian labor force	Civilian employ- ment/	Unemploy- ment
real of filoritii	tutional population ¹	Total	Total	Agricultural	Non- agricultural	Un- employ- ment	force	participa- tion rate ²	population ratio ³	rate, civilian workers ⁴
		Tho	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	142,583 143,734 144,863 146,510	136,891 136,933 136,485 137,736 139,252	2,464 2,299 2,311 2,275 2,232	134,427 134,635 134,174 135,461	5,692 6,801 8,378 8,774	69,994 71,359 72,707 74,658	67.1 66.8 66.6 66.2	64.4 63.7 62.7 62.3 62.3	4.0 4.7 5.8 6.0
2004 5	223,357 226,082 228,815 231,867 233,788 235,801	147,401 149,320 151,428 153,124 154,287 154,142	139,252 141,730 144,427 146,047 145,362 139,877	2,232 2,197 2,206 2,095 2,168 2,103	137,020 139,532 142,221 143,952 143,194 137,775	8,149 7,591 7,001 7,078 8,924 14,265	75,956 76,762 77,387 78,743 79,501 81,659	66.0 66.2 66.0 66.0 65.4	62.3 62.7 63.1 63.0 62.2 59.3	5.5 5.1 4.6 4.6 5.8 9.3
2010 ⁵ 2011 ⁵ 2012 ⁵	237,830 239,618 243,284	153,889 153,617 154,975	139,064 139,869 142,469	2,206 2,254 2,186	136,858 137,615 140,283	14,825 13,747 12,506	83,941 86,001 88,310	64.7 64.1 63.7	58.5 58.4 58.6	9.6 8.9 8.1
2009: Jan ⁵	234,739 234,913 235,086 235,271 235,452 235,655 235,870 236,322 236,550 236,743 236,924	154,232 154,526 154,142 154,479 154,742 154,710 154,505 154,300 153,815 153,804 153,887 153,120	142,153 141,644 140,751 140,652 140,005 139,898 139,481 138,810 138,421 138,665 138,025	2,147 2,131 2,026 2,137 2,144 2,158 2,126 2,098 2,036 2,044 2,102 2,091	140,022 139,500 138,666 138,447 138,044 137,835 137,822 137,360 136,728 136,453 136,645 135,925	12,079 12,881 13,421 13,826 14,492 14,705 14,607 14,819 15,005 15,382 15,223 15,095	80,507 80,387 80,944 80,793 80,710 80,944 81,365 81,787 82,507 82,746 82,855 83,804	65.7 65.8 65.6 65.7 65.7 65.5 65.4 65.0 65.0 65.0	60.6 60.3 59.9 59.8 59.6 59.4 59.3 59.1 58.7 58.5 58.6 58.3	7.8 8.3 8.7 9.0 9.4 9.5 9.5 9.6 9.8 10.0 9.9
2010: Jan ⁵	236,832 236,998 237,159 237,329 237,499 237,690 238,099 238,322 238,530 238,715 238,889	153,455 153,702 153,960 154,577 154,110 153,623 153,709 154,078 153,966 153,681 154,140 153,649	138,439 138,624 138,767 139,295 139,148 139,167 139,405 139,097 139,046 139,295	2,130 2,308 2,200 2,269 2,196 2,129 2,175 2,183 2,168 2,347 2,194 2,195	136,382 136,353 136,580 136,982 137,024 136,935 137,158 137,208 136,829 136,882 137,110	15,016 15,078 15,192 15,281 14,856 14,475 14,577 14,577 14,584 15,094	83,378 83,296 83,199 82,752 83,389 84,067 84,180 84,022 84,356 84,849 84,575 85,241	64.8 64.9 65.1 64.9 64.6 64.6 64.7 64.6 64.4 64.6	58.5 58.5 58.7 58.6 58.5 58.5 58.5 58.3 58.2 58.3	9.8 9.8 9.9 9.6 9.5 9.5 9.5 9.5 9.8 9.8
2011: Jan ⁵	238,704 238,851 239,000 239,146 239,313 239,489 239,671 240,071 240,269 240,441 240,584	153,244 153,269 153,358 153,478 153,552 153,369 153,325 153,707 154,074 154,010 154,096 153,945	139,253 139,471 139,643 139,606 139,681 139,405 139,509 139,870 140,164 140,314 140,771	2,267 2,263 2,241 2,117 2,228 2,235 2,232 2,378 2,245 2,225 2,251 2,380	137,033 137,225 137,457 137,457 137,455 137,112 137,214 137,410 137,904 138,182 138,525 138,508	13,992 13,798 13,716 13,872 13,871 13,964 13,817 13,837 13,910 13,696 13,325 13,049	85,460 85,582 85,641 85,668 85,761 86,120 86,345 86,165 85,997 86,260 86,345 86,640	64.2 64.2 64.2 64.2 64.0 64.0 64.1 64.1 64.1 64.1 64.1	58.3 58.4 58.4 58.4 58.2 58.2 58.3 58.4 58.4 58.5 58.6	9.1 9.0 8.9 9.0 9.1 9.0 9.0 9.0 8.9 8.6
2012: Jan ⁵	242,269 242,435 242,604 242,784 242,966 243,155 243,354 243,566 243,772 243,983 244,174 244,350	154,356 154,825 154,707 154,451 154,998 155,149 154,647 155,576 155,576 155,319 155,511	141,608 142,019 142,020 141,934 142,302 142,448 142,250 142,164 142,974 143,328 143,277 143,305	2,205 2,188 2,217 2,166 2,274 2,200 2,224 2,146 2,198 2,195 2,121 2,088	139,446 139,856 139,871 139,734 140,033 140,218 140,013 139,918 140,767 141,245 141,149	12,748 12,806 12,686 12,518 12,695 12,701 12,745 12,483 12,082 12,248 12,042	87,913 87,611 87,898 88,332 87,968 88,006 88,359 88,919 88,716 88,407 88,855 88,839	63.7 63.9 63.8 63.6 63.8 63.7 63.5 63.6 63.6 63.6	58.5 58.6 58.5 58.6 58.6 58.6 58.5 58.4 58.7 58.7 58.7 58.6	8.3 8.3 8.2 8.1 8.2 8.2 8.2 8.1 7.8 7.9 7.8

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.

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 employment.

TABLE B-36. Civilian employment and unemployment by sex and age, 1966-2012

[Thousands of persons 16 years of age and over; monthly data seasonally adjusted]

			Civili	an employ	ment			,		Un	nemployme	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
1966 1967 1968 1969	72,895 74,372 75,920 77,902	46,919 47,479 48,114 48,818	3,253 3,186 3,255 3,430	43,668 44,294 44,859 45,388	25,976 26,893 27,807 29,084	2,468 2,496 2,526 2,687	23,510 24,397 25,281 26,397	2,875 2,975 2,817 2,832	1,551 1,508 1,419 1,403	432 448 426 440	1,120 1,060 993 963	1,324 1,468 1,397 1,429	405 391 412 413	921 1,078 985 1,015
1970 1971 1972 1973 1974 1975 1976 1977 1978	78,678 79,367 82,153 85,064 86,794 85,846 88,752 92,017 96,048 98,824	48,990 49,390 50,896 52,349 53,024 51,857 53,138 54,728 56,479 57,607	3,409 3,478 3,765 4,039 4,103 3,839 3,947 4,174 4,336 4,300	45,581 45,912 47,130 48,310 48,922 48,018 49,190 50,555 52,143 53,308	29,688 29,976 31,257 32,715 33,769 33,989 35,615 37,289 39,569 41,217	2,735 2,730 2,980 3,231 3,345 3,263 3,389 3,514 3,734 3,783	26,952 27,246 28,276 29,484 30,424 30,726 32,226 33,775 35,836 37,434	4,093 5,016 4,882 4,365 5,156 7,929 7,406 6,991 6,202 6,137	2,238 2,789 2,659 2,275 2,714 4,442 4,036 3,667 3,142 3,120	599 693 711 653 757 966 939 874 813	1,638 2,097 1,948 1,624 1,957 3,476 3,098 2,794 2,328 2,308	1,855 2,227 2,222 2,089 2,441 3,486 3,369 3,324 3,061 3,018	506 568 598 583 665 802 780 789 769 743	1,349 1,658 1,625 1,507 1,777 2,684 2,588 2,535 2,292 2,276
1980 1981 1982 1983 1984 1985 1986 1986 1987	99,303 100,397 99,526 100,834 105,005 107,150 109,597 112,440 114,968 117,342	57,186 57,397 56,271 56,787 59,091 59,891 60,892 62,107 63,273 64,315	4,085 3,815 3,379 3,300 3,322 3,328 3,323 3,381 3,492 3,477	53,101 53,582 52,891 53,487 55,769 56,562 57,569 58,726 59,781 60,837	42,117 43,000 43,256 44,047 45,915 47,259 48,706 50,334 51,696 53,027	3,625 3,411 3,170 3,043 3,122 3,105 3,149 3,260 3,313 3,282	38,492 39,590 40,086 41,004 42,793 44,154 45,556 47,074 48,383 49,745	7,637 8,273 10,678 10,717 8,539 8,312 8,237 7,425 6,701 6,528	4,267 4,577 6,179 6,260 4,744 4,521 4,530 4,101 3,655 3,525	913 962 1,090 1,003 812 806 779 732 667 658	3,353 3,615 5,089 5,257 3,932 3,715 3,751 3,369 2,987 2,867	3,370 3,696 4,499 4,457 3,794 3,791 3,707 3,324 3,046 3,003	755 800 886 825 687 661 675 616 558 536	2,615 2,895 3,613 3,632 3,107 3,129 3,032 2,709 2,487 2,467
1990 1991 1992 1993 1994 1995 1996 1997 1998	118,793 117,718 118,492 120,259 123,060 124,900 126,708 129,558 131,463 133,488	65,104 64,223 64,440 65,349 66,450 67,377 68,207 69,685 70,693 71,446	3,427 3,044 2,944 2,994 3,156 3,292 3,310 3,401 3,558 3,685	61,678 61,178 61,496 62,355 63,294 64,085 64,897 66,284 67,135 67,761	53,689 53,496 54,052 54,910 56,610 57,523 58,501 59,873 60,771 62,042	3,154 2,862 2,724 2,811 3,005 3,127 3,190 3,260 3,493 3,487	50,535 50,634 51,328 52,099 53,606 54,396 55,311 56,613 57,278 58,555	7,047 8,628 9,613 8,940 7,996 7,404 7,236 6,739 6,210 5,880	3,906 4,946 5,523 5,055 4,367 3,983 3,880 3,577 3,266 3,066	667 751 806 768 740 744 733 694 686 633	3,239 4,195 4,717 4,287 3,627 3,239 3,146 2,882 2,580 2,433	3,140 3,683 4,090 3,885 3,629 3,421 3,356 3,162 2,944 2,814	544 608 621 597 580 602 573 577 519 529	2,596 3,074 3,469 3,288 3,049 2,819 2,783 2,585 2,424 2,285
2000 2001 2002 2003 2004 2005 2006 2007 2008 2009	136,891 136,933 136,485 137,736 139,252 141,730 144,427 146,047 145,362 139,877	73,305 73,196 72,903 73,332 74,524 75,973 77,502 78,254 77,486 73,670	3,671 3,420 3,169 2,917 2,952 2,923 3,071 2,917 2,736 2,328	69,634 69,734 70,415 71,572 73,050 74,431 75,337 74,750 71,341	63,586 63,737 63,582 64,404 64,728 65,757 66,925 67,792 67,876 66,208	3,519 3,320 3,162 3,002 2,955 3,055 3,091 2,994 2,837 2,509	60,067 60,417 60,420 61,402 61,773 62,702 63,834 64,799 65,039 63,699	5,692 6,801 8,378 8,774 8,149 7,591 7,001 7,078 8,924 14,265	2,975 3,690 4,597 4,906 4,456 4,059 3,753 3,882 5,033 8,453	599 650 700 697 664 667 622 623 736 898	2,376 3,040 3,896 4,209 3,791 3,392 3,131 3,259 4,297 7,555	2,717 3,111 3,781 3,868 3,694 3,531 3,247 3,196 3,891 5,811	483 512 553 554 543 519 496 478 549 654	2,235 2,599 3,228 3,314 3,150 3,013 2,751 2,718 3,342 5,157
2010 2011 2012 2011: Jan	139,064 139,869 142,469 139,253	73,359 74,290 75,555 73,773	2,129 2,108 2,152 2,198	71,230 72,182 73,403 71,575	65,705 65,579 66,914 65,479	2,249 2,219 2,274 2,140	63,456 63,360 64,640 63,339	14,825 13,747 12,506 13,992	8,626 7,684 6,771 7,907	863 786 787 834	7,763 6,898 5,984 7,073	6,199 6,063 5,734 6,084	665 613 609 651	5,534 5,450 5,125 5,433
Feb Mar Apr May June July Aug Sept Oct Nov Dec	139,471 139,643 139,606 139,681 139,405 139,509 139,870 140,164 140,314 140,771 140,896	74,036 74,025 73,982 74,167 74,075 74,061 74,263 74,477 74,460 74,989 75,217	2,170 2,151 2,023 2,051 2,071 2,063 2,112 2,115 2,103 2,118 2,167	71,866 71,874 71,959 72,116 72,004 71,998 72,151 72,363 72,357 72,871 73,050	65,435 65,618 65,624 65,514 65,331 65,448 65,607 65,687 65,854 65,782 65,679	2,140 2,200 2,251 2,219 2,221 2,166 2,228 2,268 2,281 2,280 2,233	63,295 63,418 63,373 63,294 63,110 63,282 63,379 63,419 63,572 63,502 63,446	13,798 13,716 13,872 13,871 13,964 13,817 13,837 13,910 13,696 13,325 13,049	7,740 7,710 7,814 7,782 7,868 7,754 7,732 7,665 7,649 7,341 7,152	751 775 793 762 789 775 808 801 787 774 782	6,989 6,936 7,022 7,021 7,079 6,978 6,923 6,864 6,861 6,567 6,370	6,058 6,005 6,058 6,089 6,095 6,063 6,105 6,245 6,047 5,984 5,897	608 633 606 587 619 628 653 616 605 606 528	5,433 5,450 5,372 5,452 5,502 5,476 5,434 5,452 5,628 5,442 5,378 5,369
2012: Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec	141,608 142,019 142,020 141,934 142,302 142,448 142,250 142,164 142,974 143,328 143,277 143,305	75,257 75,271 75,344 75,301 75,415 75,522 75,512 75,174 75,769 76,027 75,983 76,060	2,119 2,092 2,106 2,156 2,185 2,223 2,224 2,077 2,157 2,182 2,163 2,111	73,138 73,179 73,238 73,145 73,230 73,299 73,288 73,097 73,612 73,845 73,821 73,949	66,351 66,748 66,676 66,632 66,887 66,926 66,738 66,990 67,206 67,301 67,294 67,245	2,272 2,291 2,254 2,178 2,234 2,311 2,301 2,273 2,272 2,287 2,305 2,291	64,080 64,457 64,422 64,454 64,653 64,616 64,437 64,716 64,934 65,014 64,988 64,954	12,748 12,806 12,686 12,518 12,695 12,701 12,745 12,483 12,082 12,248 12,042 12,206	6,794 6,885 6,844 6,762 6,946 6,936 6,895 6,817 6,627 6,634 6,530 6,486	730 763 769 804 803 802 806 829 802 800 783 739	6,065 6,123 6,075 5,958 6,143 6,133 6,089 5,988 5,825 5,834 5,747 5,746	5,953 5,921 5,842 5,755 5,749 5,765 5,850 5,666 5,455 5,614 5,512 5,721	612 603 684 629 625 604 614 583 575 587 594 615	5,341 5,318 5,158 5,126 5,124 5,161 5,236 5,083 4,879 5,027 4,918 5,105

Note: See footnote 5 and Note, Table B-35.

TABLE B-37. Civilian employment by demographic characteristic, 1966-2012

[Thousands of persons 16 years of age and over; monthly data seasonally adjusted]

		[THOUSE	Wh		yours or a	go una ov		d other 1	asunany a		ack or Afric	an 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
1966 1967 1968 1969	72,895 74,372 75,920 77,902	65,021 66,361 67,750 69,518	42,331 42,833 43,411 44,048	22,690 23,528 24,339 25,470	5,176 5,114 5,195 5,508	7,877 8,011 8,169 8,384	4,588 4,646 4,702 4,770	3,289 3,365 3,467 3,614	545 568 584 609				
1970 1971 1972 1973 1974 1975 1976 1977 1978	78,678 79,367 82,153 85,064 86,794 85,846 88,752 92,017 96,048 98,824	70,217 70,878 73,370 75,708 77,184 76,411 78,853 81,700 84,936 87,259	44,178 44,595 45,944 47,085 47,674 46,697 47,775 49,150 50,544 51,452	26,039 26,283 27,426 28,623 29,511 29,714 31,078 32,550 34,392 35,807	5,571 5,670 6,173 6,623 6,796 6,487 6,724 7,068 7,367 7,356	8,464 8,488 8,783 9,356 9,610 9,435 9,899 10,317 11,112 11,565	4,813 4,796 4,952 5,265 5,352 5,161 5,363 5,579 5,936 6,156	3,650 3,692 3,832 4,092 4,258 4,275 4,536 4,739 5,177 5,409	574 538 573 647 652 615 611 619 703 727	7,802 8,128 8,203 7,894 8,227 8,540 9,102 9,359	4,368 4,527 4,527 4,275 4,404 4,565 4,796 4,923	3,433 3,601 3,677 3,618 3,823 3,975 4,307 4,436	509 570 554 507 508 508 508 571 579
1980 1981 1982 1983 1983 1985 1986 1987 1987	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 1991 1992 1993 1994 1995 1996 1997 1998	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 2005 2006 2007 2008 2009	136,891 136,933 136,485 137,736 139,252 141,730 144,427 146,047 145,362 139,877	114,424 114,430 114,013 114,235 115,239 116,949 118,833 119,792 119,126 114,996	62,289 62,212 61,849 61,866 62,712 63,763 64,883 65,289 64,624 61,630	52,136 52,218 52,164 52,369 52,527 53,186 53,950 54,503 54,501 53,366	6,160 5,817 5,441 5,064 5,039 5,105 5,215 4,990 4,697 4,138					15,156 15,006 14,872 14,739 14,909 15,313 15,765 16,051 15,953 15,025	7,082 6,938 6,959 6,820 6,912 7,155 7,354 7,500 7,398 6,817	8,073 8,068 7,914 7,919 7,997 8,158 8,410 8,551 8,554 8,208	711 637 611 516 520 536 618 566 541 442
2010 2011 2012	139,064 139,869 142,469	114,168 114,690 114,769	61,252 61,920 61,990	52,916 52,770 52,779	3,733 3,691 3,665					15,010 15,051 15,856	6,865 6,953 7,302	8,145 8,098 8,553	386 380 438
2011: Jan Feb Mar Apr Apr Jule July Aug Sept Oct Nov Dec Dec Mar Apr Aug Sept Cot Sept Cot Sept Aug Dec Mov Dec Market Aug	139,253 139,471 139,643 139,606 139,681 139,405 139,509 139,870 140,164 140,314 140,771 140,896	114,309 114,294 114,630 114,719 114,816 114,458 114,538 114,750 114,733 114,751 115,110 115,203	61,533 61,713 61,688 61,701 61,963 61,785 61,805 61,989 62,036 61,922 62,390 62,523	52,777 52,581 52,943 53,018 52,853 52,672 52,734 52,761 52,696 52,829 52,720 52,780	3,748 3,673 3,684 3,636 3,644 3,652 3,623 3,727 3,745 3,740 3,714 3,727					15,024 15,030 14,988 14,938 14,847 14,894 14,882 15,006 15,269 15,330 15,125 15,282	6,878 6,907 6,921 6,894 6,816 6,927 6,905 6,916 7,019 7,066 7,003 7,177	8,145 8,123 8,066 8,044 8,031 7,967 7,967 7,977 8,090 8,250 8,265 8,123 8,104	371 386 392 404 374 395 356 333 369 393 394 405
Z012: Jan Feb Mar Apr June July Aug Sept Oct Nov Dec Dec Mar	141,608 142,019 142,020 141,934 142,302 142,448 142,250 142,164 142,974 143,328 143,277 143,305	114,442 114,687 114,645 114,438 114,730 114,428 114,395 115,002 115,205 115,124 115,289	61,783 61,949 61,913 61,857 61,894 61,906 61,921 61,648 62,086 62,319 62,200 62,373	52,659 52,738 52,731 52,582 52,923 52,824 52,507 52,747 52,916 52,887 52,924 52,916	3,664 3,626 3,644 3,607 3,665 3,771 3,702 3,569 3,625 3,692 3,718 3,665					15,733 15,761 15,838 15,910 15,808 15,879 15,833 15,811 15,891 16,011 15,952 15,827	7,408 7,252 7,316 7,257 7,294 7,348 7,285 7,239 7,264 7,311 7,361 7,290	8,325 8,509 8,522 8,653 8,514 8,530 8,549 8,572 8,626 8,700 8,591 8,536	418 468 405 421 430 452 494 429 475 444 427 387

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, 1966-2012

[Thousands of persons 16 years of age and over; monthly data seasonally adjusted]

		[THOUSE	<u> </u>	ite ¹	yours or a	go una ov	Black an	d other ¹	acondiny c		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
1966 1967 1968 1969	2,875 2,975 2,817 2,832	2,255 2,338 2,226 2,260	1,241 1,208 1,142 1,137	1,014 1,130 1,084 1,123	651 635 644 660	622 638 590 571	310 300 277 267	312 338 313 304	186 203 194 193				
1970 1971 1972 1973 1974 1975 1976 1977 1978	4,093 5,016 4,882 4,365 5,156 7,929 7,406 6,991 6,202 6,137	3,339 4,085 3,906 3,442 4,097 6,421 5,914 5,441 4,698 4,664	1,857 2,309 2,173 1,836 2,169 3,627 3,258 2,883 2,411 2,405	1,482 1,777 1,733 1,606 1,927 2,794 2,656 2,558 2,287 2,260	871 1,011 1,021 955 1,104 1,413 1,364 1,284 1,189 1,193	754 930 977 924 1,058 1,507 1,492 1,550 1,505 1,473	380 481 486 440 544 815 779 784 731	374 450 491 484 514 692 713 766 774 759	235 249 288 280 318 355 355 379 394 362	906 846 965 1,369 1,334 1,393 1,330 1,319	448 395 494 741 698 698 641 636	458 451 470 629 637 695 690 683	279 262 297 330 330 354 360 333
1980 1981 1982 1983 1984 1985 1986 1987 1988	7,637 8,273 10,678 10,717 8,539 8,312 8,237 7,425 6,701 6,528	5,884 6,343 8,241 8,128 6,372 6,191 6,140 5,501 4,944 4,770	3,345 3,580 4,846 4,859 3,600 3,426 3,433 3,132 2,766 2,636	2,540 2,762 3,395 3,270 2,772 2,765 2,708 2,369 2,177 2,135	1,291 1,374 1,534 1,387 1,116 1,074 1,070 995 910 863	1,752 1,930 2,437 2,588 2,167 2,121 2,097 1,924 1,757 1,757	922 997 1,334 1,401 1,144 1,095 1,097 969 888 889	830 933 1,104 1,187 1,022 1,026 999 955 869 868	377 388 443 441 384 394 383 353 316 331	1,553 1,731 2,142 2,272 1,914 1,864 1,840 1,684 1,547	815 891 1,167 1,213 1,003 951 946 826 771 773	738 840 975 1,059 911 913 894 858 776 772	343 357 396 392 353 357 347 312 288 300
1990 1991 1992 1993 1994 1995 1996 1997 1998	7,047 8,628 9,613 8,940 7,996 7,404 7,236 6,739 6,210 5,880	5,186 6,560 7,169 6,655 5,892 5,459 5,300 4,836 4,484 4,273	2,935 3,859 4,209 3,828 3,275 2,999 2,896 2,641 2,431 2,274	2,251 2,701 2,959 2,827 2,617 2,460 2,404 2,195 2,053 1,999	903 1,029 1,037 992 960 952 939 912 876 844	1,860 2,068 2,444 2,285 2,104 1,945 1,936 1,903 1,726 1,606	971 1,087 1,314 1,227 1,092 984 984 935 835 792	889 981 1,130 1,058 1,011 961 952 967 891 814	308 330 390 373 360 394 367 359 329 318	1,565 1,723 2,011 1,844 1,666 1,538 1,592 1,560 1,426 1,309	806 890 1,067 971 848 762 808 747 671 626	758 833 944 872 818 777 784 813 756 684	268 280 324 313 300 325 310 302 281 268
2000 2001 2002 2003 2004 2005 2006 2007 2008 2009	5,692 6,801 8,378 8,774 8,149 7,591 7,001 7,078 8,924 14,265	4,121 4,969 6,137 6,311 5,847 5,350 5,002 5,143 6,509 10,648	2,177 2,754 3,459 3,643 3,282 2,931 2,730 2,869 3,727 6,421	1,944 2,215 2,678 2,668 2,565 2,419 2,271 2,274 2,782 4,227	795 845 925 909 890 845 794 805 947 1,157					1,241 1,416 1,693 1,787 1,729 1,700 1,549 1,445 1,788 2,606	620 709 835 891 860 844 774 752 949 1,448	621 706 858 895 868 856 775 693 839 1,159	230 260 260 255 241 267 253 235 246 288
2010 2011 2012	14,825 13,747 12,506	10,916 9,889 8,915	6,476 5,631 4,931	4,440 4,257 3,985	1,128 1,024 1,004					2,852 2,831 2,544	1,550 1,502 1,292	1,302 1,329 1,252	291 267 272
2011: Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec Dec Mar Sept Move Dec Mar	13,992 13,798 13,716 13,872 13,871 13,964 13,817 13,837 13,910 13,696 13,325 13,049	10,118 10,031 9,918 10,048 9,924 10,056 9,995 9,848 9,849 9,917 9,537 9,279	5,815 5,737 5,676 5,799 5,644 5,766 5,699 5,587 5,543 5,678 5,327 5,189	4,303 4,294 4,242 4,249 4,281 4,290 4,295 4,260 4,306 4,239 4,210 4,091	1,101 998 992 1,014 914 1,028 1,084 1,011 1,052 1,037 942					2,819 2,766 2,790 2,915 2,896 2,883 2,792 2,975 2,861 2,689 2,765 2,815	1,519 1,465 1,518 1,556 1,560 1,509 1,466 1,616 1,486 1,413 1,455 1,464	1,301 1,301 1,273 1,359 1,336 1,375 1,325 1,359 1,375 1,276 1,310 1,351	298 243 277 284 267 262 230 294 290 229 251 296
2012: Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec Mar Age Sept Dec Mar Age Sept Sept Sept Sept Sept Sept Sept Sep	12,748 12,806 12,686 12,518 12,695 12,701 12,745 12,483 12,082 12,248 12,042 12,206	9,174 9,131 9,058 9,147 9,163 9,053 9,151 8,897 8,635 8,588 8,416 8,485	5,050 4,994 5,006 4,999 5,095 5,086 4,992 5,000 4,816 4,793 4,652 4,609	4,124 4,137 4,052 4,147 4,068 3,967 4,159 3,898 3,819 3,796 3,765 3,876	991 981 1,056 1,057 1,015 994 1,010 1,069 972 961 946 1,011					2,472 2,582 2,573 2,388 2,493 2,670 2,590 2,578 2,456 2,705 2,422 2,577	1,173 1,330 1,278 1,254 1,297 1,314 1,371 1,315 1,322 1,345 1,214 1,288	1,299 1,252 1,295 1,134 1,196 1,356 1,219 1,262 1,134 1,360 1,208 1,289	255 244 272 257 246 292 282 265 280 307 277 264

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, 1966-2012

			Labor force		ation rate					Employme	nt/popula	ition 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
1966 1967 1968 1969	59.2 59.6 59.6 60.1	80.4 80.4 80.1 79.8	40.3 41.1 41.6 42.7	48.2 48.4 48.3 49.4	58.7 59.2 59.3 59.9	63.0 62.8 62.2 62.1		56.9 57.3 57.5 58.0	77.9 78.0 77.8 77.6	38.3 39.0 39.6 40.7	42.1 42.2 42.2 43.4	56.8 57.2 57.4 58.0	58.4 58.2 58.0 58.1	
1970 1971 1972 1973 1974 1975 1976 1977 1977 1978	60.4 60.2 60.4 60.8 61.3 61.2 61.6 62.3 63.2 63.7	79.7 79.1 78.9 78.8 78.7 77.9 77.5 77.7 77.9 77.8	43.3 43.4 43.9 44.7 45.7 46.3 47.3 48.4 50.0 50.9	49.9 49.7 51.9 53.7 54.8 54.0 54.5 56.0 57.8 57.9	60.2 60.1 60.4 60.8 61.4 61.5 61.8 62.5 63.3 63.9	61.8 60.9 60.2 60.3 59.6 59.8 60.4 62.2 62.2	59.9 60.2 59.8 58.8 59.0 59.8 61.5 61.4	57.4 56.6 57.0 57.8 57.8 56.1 56.8 57.9 59.3 59.9	76.2 74.9 75.0 75.5 74.9 71.7 72.0 72.8 73.8 73.8	40.8 40.4 41.0 42.0 42.6 42.0 43.2 44.5 46.4 47.5	42.3 41.3 43.5 45.9 46.0 43.3 44.2 46.1 48.3 48.5	57.5 56.8 57.4 58.2 58.3 56.7 57.5 58.6 60.0 60.6	56.8 54.9 54.1 55.0 54.3 51.4 52.0 52.5 54.7 55.2	53.7 54.5 53.5 50.1 50.8 51.4 53.6 53.8
1980 1981 1982 1983 1984 1985 1986 1987 1988	63.8 63.9 64.0 64.0 64.4 64.8 65.3 65.6 65.9 66.5	77.4 77.0 76.6 76.4 76.3 76.3 76.2 76.2	51.5 52.1 52.6 52.9 53.6 54.5 55.3 56.0 56.6 57.4	56.7 55.4 54.1 53.5 53.9 54.5 54.7 54.7 55.3 55.9	64.1 64.3 64.3 64.3 64.6 65.0 65.5 65.8 66.2 66.7	61.7 61.3 61.6 62.1 62.6 63.3 63.7 64.3 64.0 64.7	61.0 60.8 61.0 61.5 62.2 62.9 63.3 63.8 63.8 64.2	59.2 59.0 57.8 57.9 59.5 60.1 60.7 61.5 62.3 63.0	72.0 71.3 69.0 68.8 70.7 70.9 71.0 71.5 72.0 72.5	47.7 48.0 47.7 48.0 49.5 50.4 51.4 52.5 53.4 54.3	46.6 44.6 41.5 41.5 43.7 44.4 44.6 45.5 46.8 47.5	60.0 60.0 58.8 58.9 60.5 61.0 61.5 62.3 63.1 63.8	53.6 52.6 50.9 51.0 53.6 54.7 55.4 56.8 57.4 58.2	52.3 51.3 49.4 49.5 52.3 53.4 54.1 55.6 56.3 56.9
1990 1991 1992 1993 1994 1995 1996 1997 1998	66.5 66.2 66.4 66.3 66.6 66.6 66.8 67.1 67.1	76.4 75.8 75.8 75.4 75.1 75.0 74.9 75.0 74.9	57.5 57.4 57.8 57.9 58.8 58.9 59.3 59.8 59.8 60.0	53.7 51.6 51.3 51.5 52.7 53.5 52.3 51.6 52.8 52.0	66.9 66.8 66.8 67.1 67.1 67.2 67.5 67.3	64.4 63.8 64.6 63.8 63.9 64.3 64.6 65.2 66.0 65.9	64.0 63.3 63.9 63.2 63.4 63.7 64.1 64.7 65.6 65.8	62.8 61.7 61.5 61.7 62.5 62.9 63.2 63.8 64.1 64.3	72.0 70.4 69.8 70.0 70.4 70.8 70.9 71.3 71.6 71.6	54.3 53.7 53.8 54.1 55.3 55.6 56.0 56.8 57.1 57.4	45.3 42.0 41.0 41.7 43.4 44.2 43.5 43.4 45.1 44.7	63.7 62.6 62.4 62.7 63.5 63.8 64.1 64.6 64.7 64.8	57.9 56.7 56.4 56.3 57.2 58.1 58.6 59.4 60.9 61.3	56.7 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 65.4	74.8 74.4 74.1 73.5 73.3 73.3 73.5 73.2 73.0 72.0	59.9 59.8 59.6 59.5 59.2 59.3 59.4 59.3 59.5 59.5	52.0 49.6 47.4 44.5 43.9 43.7 43.7 41.3 40.2 37.5	67.3 67.0 66.8 66.5 66.3 66.3 66.4 66.3 65.8		65.8 65.3 64.8 64.3 63.8 64.2 64.1 63.7 63.7 62.4	64.4 63.7 62.7 62.3 62.3 62.7 63.1 63.0 62.2 59.3	71.9 70.9 69.7 68.9 69.2 69.6 70.1 69.8 68.5 64.5	57.5 57.0 56.3 56.1 56.0 56.2 56.6 56.6 56.2 54.4	45.2 42.3 39.6 36.8 36.4 36.5 36.9 34.8 32.6 28.4	64.9 64.2 63.4 63.0 63.1 63.4 63.8 63.6 62.8 60.2		60.9 59.7 58.1 57.4 57.2 57.7 58.4 58.4 57.3 53.2
2010 2011 2012 2011: Jan	64.7 64.1 63.7 64.2	71.2 70.5 70.2 70.5	58.6 58.1 57.7 58.2	34.9 34.1 34.3 34.5	65.1 64.5 64.0 64.6		62.2 61.4 61.5 61.6	58.5 58.4 58.6 58.3	63.7 63.9 64.4 63.7	53.6 53.2 53.1 53.3	25.9 25.8 26.1 25.7	59.4 59.4 59.4 59.4		52.3 51.7 53.0 51.9
Feb Mar Mar May June July Aug Sept Oct Nov Dec 2012: Jan Feb Mar Apr May June July Aug June July Aug Aug May Aug	64.2 64.2 64.2 64.0 64.0 64.1 64.1 64.1 64.1 63.7 63.8 63.6 63.8 63.7 63.8	70.6 70.5 70.5 70.5 70.3 70.4 70.5 70.5 70.5 70.2 70.3 70.3 70.3 70.3 70.3 70.3	58.2 58.2 58.2 58.1 58.0 58.0 58.1 58.2 58.2 58.2 57.6 57.9 57.7 57.6 57.7 57.6 57.7	33.7 34.2 33.7 33.5 34.0 34.6 34.6 34.5 34.2 33.5 34.1 33.9 34.4 34.9 35.0	64.6 64.7 64.7 64.5 64.5 64.4 64.4 64.3 64.2 64.3 64.2 64.3 64.3 63.9 63.8		61.4 61.3 61.5 61.0 61.1 60.7 61.7 61.7 61.8 61.2 61.8 61.4 61.3 62.1 61.4	58.4 58.4 58.2 58.2 58.2 58.3 58.4 58.5 58.6 58.5 58.6 58.6 58.5 58.6 58.5 58.6	63.9 63.8 63.7 63.7 63.7 63.8 63.9 64.2 64.4 64.4 64.4 64.3 64.4 64.4 64.4 64.4	53.2 53.3 53.3 53.2 53.0 53.1 53.2 53.2 53.3 53.2 53.1 53.2 53.2 53.2 53.2 53.2 53.2 53.2	25.6 25.9 25.4 25.4 25.6 25.2 26.9 26.2 26.3 26.4 25.7 25.6 25.4 26.0 26.7 25.7	59.3 59.5 59.5 59.5 59.3 59.3 59.3 59.3		51.9 51.7 51.4 51.1 51.2 51.1 51.5 52.3 52.5 51.7 52.2 52.9 53.0 53.0 53.1 52.5 53.1 52.5
Sept Oct Nov Dec	63.6 63.8 63.6 63.6	70.1 70.2 70.0 70.0	57.6 57.7 57.6 57.7	34.3 34.6 34.6 34.1	63.9 63.9 63.8 63.9		61.2 62.3 61.1 61.2	58.7 58.7 58.7 58.6	64.4 64.6 64.5 64.5	53.3 53.3 53.3 53.2	26.2 26.4 26.5 26.1	59.4 59.5 59.4 59.5		53.0 53.3 53.1 52.6

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, 1972-2012

					White 2						Black or	African An	nerican ²		
Year or month	All civilian			Males			Females	3			Males			Female	S
real of 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
1972 1973 1974 1975 1976 1977 1978 1979 1980 1981	60.4 60.8 61.3 61.2 61.6 62.3 63.2 63.7 63.8 63.9 64.0	60.4 60.8 61.4 61.5 61.8 62.5 63.3 63.9 64.1 64.3	79.6 79.4 79.4 78.7 78.4 78.5 78.6 78.6 78.2 77.9	60.1 62.0 62.9 61.9 62.3 64.0 65.0 64.8 63.7 62.4 60.0	82.0 81.6 81.4 80.7 80.3 80.2 80.1 79.8 79.5	43.2 44.1 45.2 45.9 46.9 48.0 49.4 50.5 51.2 51.9 52.4	48.1 50.1 51.7 51.5 52.8 54.5 56.7 57.4 56.2 55.4 55.0	42.7 43.5 44.4 45.3 46.2 47.3 48.7 49.8 50.6 51.5	59.9 60.2 59.8 58.8 59.0 59.8 61.5 61.4 61.0 60.8 61.0	73.6 73.4 72.9 70.9 70.0 70.6 71.5 71.3 70.3 70.0 70.1	46.3 45.7 46.7 42.6 41.3 43.2 44.9 43.6 43.6 43.2 41.6 39.8	78.5 78.4 77.6 76.0 75.4 75.6 76.2 76.3 75.1 74.5	48.7 49.3 49.0 48.8 49.8 50.8 53.1 53.1 53.5 53.7	32.2 34.2 33.4 34.2 32.9 32.9 37.3 36.8 34.9 34.0 33.5	51.2 51.6 51.4 51.1 52.5 53.6 55.5 55.4 55.6 56.0 56.2
1983	64.0 64.4 64.8 65.3 65.6 65.9 66.5	64.3 64.6 65.0 65.5 65.8 66.2 66.7	77.1 77.1 77.0 76.9 76.8 76.9 77.1	59.4 59.0 59.7 59.3 59.0 60.0 61.0	78.9 78.7 78.5 78.5 78.4 78.3 78.5	52.7 53.3 54.1 55.0 55.7 56.4 57.2	54.5 55.4 55.2 56.3 56.5 57.2 57.1	52.5 53.1 54.0 54.9 55.6 56.3 57.2	61.5 62.2 62.9 63.3 63.8 63.8 64.2	70.6 70.8 70.8 71.2 71.1 71.0 71.0	39.9 41.7 44.6 43.7 43.6 43.8 44.6	75.2 74.8 74.4 74.8 74.7 74.6 74.4	54.2 55.2 56.5 56.9 58.0 58.0 58.7	33.0 35.0 37.9 39.1 39.6 37.9 40.4	56.8 57.6 58.6 58.9 60.0 60.1 60.6
1990 1991 1992 1993 1994 1995 1996 1997 1998	66.5 66.2 66.4 66.3 66.6 66.6 66.8 67.1 67.1	66.9 66.6 66.8 67.1 67.1 67.2 67.5 67.3	77.1 76.5 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 59.9	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 38.9 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
2000 2001 2002 2003 2004 2005 2006 2007 2008 2008	67.1 66.8 66.6 66.2 66.0 66.0 66.2 66.0 65.4	67.3 67.0 66.8 66.5 66.3 66.3 66.4 66.3 65.8	75.5 75.1 74.8 74.2 74.1 74.1 74.3 74.0 73.7 72.8	56.5 53.7 50.3 47.5 47.4 46.2 46.9 44.3 43.0 40.3	77.1 76.9 76.7 76.3 76.2 76.2 76.4 76.3 76.1	59.5 59.4 59.3 59.2 58.9 58.9 59.0 59.0 59.2 59.1	54.5 52.4 50.8 47.9 46.7 47.6 46.6 44.6 43.3 40.9	59.9 59.9 60.0 59.9 59.7 59.7 59.9 60.1 60.3	65.8 65.3 64.8 64.3 63.8 64.2 64.1 63.7 63.7 62.4	69.2 68.4 68.4 67.3 66.7 67.3 67.0 66.8 66.7 65.0	39.2 37.9 37.3 31.1 30.0 32.6 32.3 29.4 29.1 26.4	72.8 72.1 72.1 71.5 70.9 71.3 71.1 71.2 71.1 69.6	63.1 62.8 61.8 61.9 61.5 61.6 61.7 61.1 61.3 60.3	39.6 37.3 34.7 33.7 32.8 32.2 35.6 31.2 29.7 27.9	65.4 65.2 64.4 64.6 64.2 64.4 64.2 64.0 64.3
2010	64.7 64.1 63.7 64.2 64.2 64.2 64.2 64.0 64.0 64.1 64.1 64.1	65.1 64.5 64.0 64.6 64.6 64.7 64.7 64.5 64.5 64.4 64.4	72.0 71.3 71.0 71.3 71.2 71.3 71.4 71.3 71.2 71.2 71.2 71.2	37.4 36.1 36.7 38.0 36.4 35.9 35.2 34.2 35.4 35.9 37.1 36.4 36.7	74.6 73.9 73.5 74.0 74.0 74.0 74.2 74.0 73.8 73.8 73.8 73.8 73.7	58.5 58.0 57.4 58.2 58.0 58.3 58.4 58.2 58.0 58.0 57.9 58.0 57.9	38.0 37.5 37.1 37.2 36.2 36.9 37.3 37.0 37.6 38.1 38.0 38.3 38.2	59.9 59.4 58.7 59.7 59.5 59.6 59.4 59.3 59.3 59.3 59.1	62.2 61.4 61.5 61.6 61.4 61.3 61.5 61.0 61.1 60.7 62.1 61.7 62.1	65.0 64.2 63.6 64.2 63.9 64.4 64.4 63.7 64.1 63.6 64.7 64.1 63.9	25.8 25.7 25.6 26.9 24.4 26.0 25.4 26.2 23.6 26.0 25.7 24.1	69.5 68.4 67.7 68.3 68.6 67.8 68.6 67.9 68.8 68.6 68.6	59.9 59.1 59.8 59.5 59.3 58.7 59.1 58.8 58.6 58.3 59.2 60.2 59.6 58.9	25.1 24.2 28.2 24.1 23.6 25.2 27.4 22.5 24.4 21.7 22.5 25.4 24.2 26.5	63.2 62.2 62.6 62.8 62.6 61.8 62.0 62.1 61.7 61.6 62.3 62.4 63.3 62.7 61.7
Dec	64.0 63.7 63.9 63.8 63.6 63.8 63.7 63.5 63.6 63.8 63.6 63.6	64.3 64.2 64.3 64.2 64.1 64.2 64.1 63.9 63.8 63.9 63.8 63.9	71.2 71.1 71.2 71.2 71.1 71.1 71.1 71.0 70.6 70.8 71.0 70.7	36.2 35.7 35.4 36.3 37.0 37.1 37.9 37.4 37.1 36.5 37.1 36.3 36.2	73.8 73.9 73.6 73.7 73.6 73.4 73.1 73.4 73.5 73.2 73.2	57.6 57.6 57.6 57.5 57.4 57.7 57.4 57.2 57.2 57.2 57.2 57.2	37.1 37.4 37.0 37.7 36.5 36.7 37.4 37.0 36.3 36.3 36.7 37.8 38.1	59.0 58.9 59.0 58.8 59.1 58.6 58.6 58.7 58.5 58.4 58.5	61.8 61.2 61.6 61.8 61.4 61.3 62.1 61.6 61.4 61.2 62.3 61.1	65.2 64.0 63.9 63.9 63.2 63.7 64.2 64.1 63.2 63.4 63.8 63.1 63.1	30.6 24.4 25.2 23.6 25.9 23.9 26.0 28.8 24.6 28.5 27.6 26.9 21.6	68.9 68.4 68.2 68.3 67.3 68.1 68.3 67.9 67.4 67.6 66.9 67.4	59.0 59.8 60.1 59.8 59.3 60.3 59.5 59.9 59.4 61.1 59.5 59.6	24.2 25.8 28.0 27.1 25.0 27.1 30.2 30.0 28.2 29.1 29.9 27.1 28.5	62.0 62.6 63.0 62.9 62.2 63.0 62.1 62.7 62.0 63.8 62.3

 $^{^1}$ 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.

TABLE B-41. Civilian employment/population ratio by demographic characteristic, 1972-2012

					White ²						Black or	African A	merican ²	!	
Year or month	All civilian			Males			Female	3			Males			Females	;
rear or monur	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
1972 1973 1974 1975 1976 1977 1978	57.0 57.8 57.8 56.1 56.8 57.9 59.3 59.9 59.2	57.4 58.2 58.3 56.7 57.5 58.6 60.0 60.6	76.0 76.5 75.9 73.0 73.4 74.1 75.0 75.1	51.5 54.3 54.4 50.6 51.5 54.4 56.3 55.7	79.0 79.2 78.6 75.7 76.0 76.5 77.2 77.3	40.7 41.8 42.4 42.0 43.2 44.5 46.3 47.5	41.3 43.6 44.3 42.5 44.2 45.9 48.5 49.4	40.6 41.6 42.2 41.9 43.1 44.4 46.1 47.3	53.7 54.5 53.5 50.1 50.8 51.4 53.6 53.8	66.8 67.5 65.8 60.6 60.6 61.4 63.3 63.4	31.6 32.8 31.4 26.3 25.8 26.4 28.5 28.7 27.0	73.0 73.7 71.9 66.5 66.8 67.5 69.1	43.0 43.8 43.5 41.6 42.8 43.3 45.8 46.0	19.2 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 1986 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	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 67.0	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	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 54.6 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 62.2 59.3	64.9 64.2 63.4 63.0 63.1 63.4 63.8 63.6 62.8 60.2	73.0 72.0 70.8 70.1 70.4 70.8 71.3 70.9 69.7 66.0	49.5 46.2 42.3 39.4 39.7 38.8 40.0 37.3 34.8 30.2	74.9 74.0 73.1 72.5 72.8 73.3 73.7 73.5 72.4 68.7	57.4 57.0 56.4 56.3 56.1 56.3 56.6 56.7 56.3 54.8	48.8 46.5 44.1 41.5 40.3 41.8 41.1 39.2 37.1 33.4	58.0 57.7 57.3 57.3 57.2 57.4 57.7 57.9 57.7	60.9 59.7 58.1 57.4 57.2 57.7 58.4 58.4 57.3 53.2	63.6 62.1 61.1 59.5 59.3 60.2 60.6 60.7 59.1 53.7	28.9 26.4 25.6 19.9 19.3 20.8 21.7 19.5 18.7	67.7 66.3 65.2 64.1 63.9 64.7 65.2 65.5 63.9 58.2	58.6 57.8 55.8 55.6 55.5 56.5 56.5 56.5 55.8 52.8	30.6 27.0 24.9 23.4 23.6 22.4 26.4 23.3 21.7 18.6	61.3 60.7 58.7 58.6 58.5 58.9 59.4 59.8 59.1 56.1
2010 2011 2012	58.5 58.4 58.6	59.4 59.4 59.4	65.1 65.3 65.8	27.6 27.3 27.7	67.9 68.2 68.6	54.0 53.7 53.3	30.4 30.4 30.3	55.6 55.3 54.9	52.3 51.7 53.0	53.1 52.8 54.1	14.1 14.6 15.1	57.5 56.9 58.3	51.7 50.8 52.2	14.9 14.7 18.1	55.1 54.0 55.1
2011: Jan	58.3 58.4 58.4 58.4 58.2 58.2 58.3 58.4 58.4 58.5 58.6	59.4 59.3 59.5 59.5 59.5 59.3 59.3 59.3 59.3	65.1 65.3 65.2 65.2 65.4 65.2 65.3 65.3 65.3 65.6 65.7	28.8 28.0 27.5 26.5 26.5 26.6 26.8 27.3 27.2 27.2 27.2	67.9 68.1 68.1 68.4 68.1 68.2 68.2 68.0 68.5	53.8 53.6 54.0 54.0 53.8 53.6 53.7 53.6 53.7 53.5 53.5	29.4 29.1 29.8 30.2 30.4 30.5 29.9 31.1 31.3 31.4 31.1 30.7	55.5 55.3 55.6 55.6 55.2 55.2 55.2 55.0 55.1 55.0	51.9 51.9 51.7 51.4 51.1 51.2 51.1 51.5 52.3 52.5 51.7 52.2	52.6 52.8 52.8 52.5 51.9 52.7 52.4 53.2 53.4 52.9 54.2	14.0 14.5 15.5 13.7 14.4 15.3 14.6 14.4 14.6 15.2 13.8 15.5	56.8 56.9 56.8 55.9 56.7 56.5 57.3 57.5 57.1 58.2	51.3 51.1 50.7 50.6 50.4 50.0 50.0 50.7 51.6 50.7 50.5	14.3 15.0 14.5 17.2 14.4 15.1 12.9 11.4 14.0 15.3 16.8 16.1	54.7 54.4 54.0 53.6 53.7 53.1 54.2 54.9 54.9 53.7 53.6
2012: Jan	58.5 58.6 58.5 58.5 58.6 58.6 58.7 58.7 58.7 58.7 58.7	59.4 59.5 59.5 59.3 59.5 59.4 59.2 59.2 59.4 59.5 59.4 59.5	65.8 65.9 65.8 65.7 65.7 65.7 65.3 65.7 65.9 65.8	27.0 27.0 27.1 27.7 28.0 28.7 28.5 26.8 27.8 28.3 27.9 27.4	68.7 68.8 68.7 68.6 68.5 68.4 68.2 68.5 68.7 68.5	53.4 53.4 53.2 53.5 53.4 53.1 53.3 53.4 53.3 53.4 53.3	30.7 30.1 30.4 29.2 29.8 30.9 30.0 29.7 29.7 30.4 31.2 31.0	54.9 55.0 54.9 54.8 55.1 54.9 54.8 55.0 54.9 54.8	52.9 53.0 53.2 53.3 53.0 53.1 52.9 52.8 53.0 53.3 53.1 52.6	55.2 54.0 54.4 53.9 54.1 54.4 53.9 53.5 53.6 53.9 54.2 53.6	15.8 14.3 14.2 15.7 15.2 15.8 17.9 13.7 16.2 14.1 15.1	59.6 58.4 58.8 58.1 58.3 58.6 57.8 57.6 58.1 58.3 58.0	51.0 52.1 52.1 52.9 52.0 52.0 52.1 52.2 52.5 52.9 52.1 51.8	15.4 20.6 16.1 16.0 17.1 18.3 19.5 18.9 20.0 19.8 17.7 17.8	54.2 54.9 55.4 56.2 55.1 55.0 55.1 55.3 55.7 55.1 54.7

 $^{^1}$ 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-42. Civilian unemployment rate, 1966-2012

[Percent 1; monthly data seasonally adjusted, except as noted]

			Males		,	Female	S	,,			race		Hiononia	Married	Women
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	men, spouse pres- ent	who maintain families (NSA) ³
1966 1967 1968 1969	3.8 3.8 3.6 3.5	3.2 3.1 2.9 2.8	11.7 12.3 11.6 11.4	2.5 2.3 2.2 2.1	4.8 5.2 4.8 4.7	14.1 13.5 14.0 13.3	3.8 4.2 3.8 3.7	12.8 12.9 12.7 12.2	3.4 3.4 3.2 3.1	7.3 7.4 6.7 6.4				1.9 1.8 1.6 1.5	4.9 4.4 4.4
1970 1971 1972 1973 1974 1975 1976	4.9 5.9 5.6 4.9 5.6 8.5 7.7 7.1	4.4 5.3 5.0 4.2 4.9 7.9 7.1 6.3	15.0 16.6 15.9 13.9 15.6 20.1 19.2 17.3	3.5 4.4 4.0 3.3 3.8 6.8 5.9 5.2	5.9 6.9 6.6 6.0 6.7 9.3 8.6 8.2	15.6 17.2 16.7 15.3 16.6 19.7 18.7	4.8 5.7 5.4 4.9 5.5 8.0 7.4 7.0	15.3 16.9 16.2 14.5 16.0 19.9 19.0	4.5 5.4 5.1 4.3 5.0 7.8 7.0 6.2	8.2 9.9 10.0 9.0 9.9 13.8 13.1	10.4 9.4 10.5 14.8 14.0 14.0		7.5 8.1 12.2 11.5 10.1	2.6 3.2 2.8 2.3 2.7 5.1 4.2 3.6	5.4 7.3 7.2 7.1 7.0 10.0 10.1 9.4
1978	6.1 5.8 7.1 7.6 9.7 9.6 7.5 7.2	5.3 5.1 6.9 7.4 9.9 9.9 7.4 7.0 6.9 6.2	15.8 15.9 18.3 20.1 24.4 23.3 19.6 19.5	4.3 4.2 5.9 6.3 8.8 8.9 6.6 6.2	7.2 6.8 7.4 7.9 9.4 9.2 7.6 7.4 7.1	17.1 16.4 17.2 19.0 21.9 21.3 18.0 17.6	6.0 5.7 6.4 6.8 8.3 8.1 6.8 6.6	16.4 16.1 17.8 19.6 23.2 22.4 18.9 18.6 18.3	5.2 5.1 6.3 6.7 8.6 8.4 6.5 6.2	11.9 11.3 13.1 14.2 17.3 17.8 14.4 13.7 13.1	12.8 12.3 14.3 15.6 18.9 19.5 15.9 15.1 14.5		9.1 8.3 10.1 10.4 13.8 13.7 10.7 10.5	2.8 2.8 4.2 4.3 6.5 6.5 4.6 4.3 4.4	8.5 8.3 9.2 10.4 11.7 12.2 10.3 10.4 9.8 9.2
1987 1988 1989 1990 1991 1992 1993 1994 1995	6.2 5.5 5.3 5.6 6.8 7.5 6.9 6.1 5.6 5.4	5.5 5.2 5.7 7.2 7.9 7.2 6.2 5.6 5.4	17.8 16.0 15.9 16.3 19.8 21.5 20.4 19.0 18.4 18.1	5.4 4.8 4.5 5.0 6.4 7.1 6.4 4.8 4.6	5.6 5.4 5.5 6.4 7.0 6.6 6.0 5.6 5.4	15.9 14.4 14.0 14.7 17.5 18.6 17.5 16.2 16.1 15.2	5.4 4.9 4.7 4.9 5.7 6.3 5.9 5.4 4.9 4.8	16.9 15.3 15.0 15.5 18.7 20.1 19.0 17.6 17.3 16.7	5.3 4.7 4.5 4.8 6.1 6.6 6.1 5.3 4.9 4.7	11.6 10.4 10.0 10.1 11.1 12.7 11.7 10.5 9.6 9.3	13.0 11.7 11.4 11.4 12.5 14.2 13.0 11.5 10.4 10.5		8.8 8.2 8.0 8.2 10.0 11.6 10.8 9.9 9.3 8.9	3.9 3.3 3.0 3.4 4.4 5.1 4.4 3.7 3.3 3.0	8.1 8.3 9.3 10.0 9.7 8.9 8.0 8.2
1997 1998 1999 2000 2001 2002 2003 2004 2005 2006	4.9 4.5 4.2 4.0 4.7 5.8 6.0 5.5 5.1 4.6	4.9 4.4 4.1 3.9 4.8 5.9 6.3 5.6 5.1 4.6	16.9 16.2 14.7 14.0 16.0 18.1 19.3 18.4 18.6 16.9	4.2 3.7 3.5 3.3 4.2 5.3 5.6 5.0 4.4 4.0	5.0 4.6 4.3 4.1 4.7 5.6 5.7 5.4 5.1 4.6	15.0 12.9 13.2 12.1 13.4 14.9 15.6 15.5 14.5	4.4 4.1 3.8 3.6 4.1 5.1 4.9 4.6 4.1	16.0 14.6 13.9 13.1 14.7 16.5 17.5 17.0 16.6 15.4	4.2 3.9 3.7 3.5 4.2 5.1 5.2 4.8 4.4 4.0	8.8 7.8 7.0	10.0 8.9 8.0 7.6 8.6 10.2 10.8 10.4 10.0 8.9	3.6 4.5 5.9 6.0 4.4 4.0 3.0	7.7 7.2 6.4 5.7 6.6 7.5 7.7 7.0 6.0	2.7 2.4 2.2 2.0 2.7 3.6 3.8 3.1 2.8 2.4	8.1 7.2 6.4 5.9 6.6 8.0 8.5 8.0 7.8 7.1
2007 2008 2009 2010 2011	4.6 5.8 9.3 9.6 8.9 8.1	4.7 6.1 10.3 10.5 9.4 8.2	17.6 21.2 27.8 28.8 27.2 26.8	4.1 5.4 9.6 9.8 8.7 7.5	4.5 5.4 8.1 8.6 8.5 7.9	13.8 16.2 20.7 22.8 21.7 21.1	4.0 4.9 7.5 8.0 7.9 7.3	15.7 18.7 24.3 25.9 24.4 24.0	4.1 5.2 8.5 8.7 7.9 7.2		8.3 10.1 14.8 16.0 15.8 13.8	3.2 4.0 7.3 7.5 7.0 5.9	5.6 7.6 12.1 12.5 11.5 10.3	2.5 3.4 6.6 6.8 5.8 4.9	6.5 8.0 11.5 12.3 12.4 11.4
2011: Jan Feb Mar Apr May Aug Sept Mar Mar May May May May Sept Mar May May Mar May Mar May Mar May Mar May	9.1 9.1 8.9 9.0 9.0 9.1 9.0 9.0 8.9 8.6 8.5 8.3 8.2 8.2 8.2 8.2 8.2 8.7 8.9	9.7 9.4 9.5 9.5 9.5 9.5 9.5 9.5 9.5 9.5 8.7 8.3 8.4 8.4 8.4 8.4 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0	27.5 25.7 26.5 28.1 27.1 27.6 27.3 27.7 27.5 27.2 26.8 26.7 26.8 27.2 26.9 26.5 26.5 26.6 27.1 26.6	9.0 8.9 8.8 8.9 9.0 8.8 8.8 8.7 7.7 7.7 7.7 7.7 7.7 7.7 7.7	8.5 8.5 8.5 8.5 8.5 8.5 8.7 8.2 8.2 8.1 8.0 7.9 7.9 7.5 7.7.6	23.3 22.1 22.3 21.2 20.9 21.8 22.5 22.7 21.4 21.0 21.0 21.0 21.0 21.0 21.0 21.0 20.8 23.3 22.4 21.9 20.7 21.4 20.7 21.9 20.7 20.4 20.9	7.9 7.9 7.8 7.9 8.0 7.9 8.2 7.9 7.8 7.7 7.6 7.4 7.3 7.4 7.5 7.3 7.0 7.2	25.5 24.4 24.7 24.7 24.9 25.2 24.4 24.1 23.9 23.7 25.0 24.9 23.7 25.0 24.9 23.7 23.7 23.7 23.7 23.7 23.7 23.7 23.7	8.1 8.0 8.1 8.0 8.1 8.0 7.9 7.9 7.7 7.5 7.4 7.4 7.4 7.4 7.2 7.0 6.9		15.6 15.5 15.7 16.3 16.3 16.2 15.8 16.5 15.6 13.6 14.1 13.6 14.1 13.1 13.4 14.1 13.4 14.5	6.8 7.1 6.4 7.0 6.8 7.7 7.1 7.8 6.5 6.3 6.2 5.2 6.3 6.2 6.3 6.4 6.4 6.4 6.4 6.4 6.4 6.4 6.4	10.3 12.1 11.6 11.4 11.9 11.8 11.3 11.2 11.3 11.0 10.5 10.3 11.0 10.3 10.3 10.0 10.0 9.9 9.9	5.9 5.9 6.0 6.0 6.2 6.2 6.2 5.7 5.8 5.3 5.2 5.1 5.1 5.1 4.9 4.9 4.7 4.6 4.7	12.7 12.3 11.7 12.7 12.7 12.8 12.1 11.9 12.4 12.9 12.9 12.0 11.7 10.9 11.8 11.7 12.3 11.3 11.3 11.3

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, 1972-2012

					White ²					-	Black or A	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
1972 1973 1974 1975 1976 1977 1978 1980 1981 1982 1983 1983 1984 1985 1986	5.6 4.9 5.6 8.5 7.7 7.1 5.8 7.1 7.6 9.7 9.6 7.5 7.2 7.0	5.1 4.3 5.0 7.8 7.0 6.2 5.2 5.1 6.3 6.7 8.6 8.4 6.5 6.0 5.3	4.5 3.8 4.4 7.2 6.4 5.5 4.5 6.1 6.5 8.8 8.8 6.4 6.1 6.0 5.4	14.2 12.3 13.5 18.3 17.3 15.0 13.5 13.9 16.2 17.9 21.7 20.2 16.5 16.5 15.5	3.6 3.0 3.5 6.2 5.4 4.7 3.6 5.6 7.8 5.7 5.7 5.7 5.3 4.8	5.9 5.3 6.1 8.6 7.9 7.3 6.2 5.9 6.5 6.9 8.3 7.9 6.5 6.4 6.1	14.2 13.0 14.5 17.4 16.4 15.9 14.4 14.0 14.8 16.6 19.0 18.3 15.2 14.8 14.9	4.9 4.3 5.1 7.5 6.8 6.2 5.2 5.0 5.9 7.3 6.9 5.8 5.4 4.6	10.4 9.4 10.5 14.8 14.0 12.8 12.3 15.6 18.9 19.5 15.9 15.1 14.5	9.3 8.0 9.8 14.8 13.7 13.3 11.4 14.5 15.7 20.1 20.3 16.4 15.3 14.8 12.7	31.7 27.8 33.1 38.1 37.5 39.2 36.7 34.2 37.5 40.7 48.9 48.8 42.7 41.0 39.3 34.4	7.0 6.0 7.4 12.5 11.4 10.7 9.3 9.3 12.4 13.5 17.8 18.1 14.3 13.2 12.9	11.8 11.1 11.3 14.8 14.3 14.9 13.8 13.3 14.0 15.6 17.6 18.6 15.4 14.9 14.2	40.5 36.1 37.4 41.0 41.6 43.4 40.8 39.1 39.8 42.2 47.1 48.2 42.6 39.2 39.2 34.9	9.0 8.6 8.8 12.2 11.7 12.2 10.9 11.9 13.4 16.5 13.5 13.1 12.4
1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998	5.5 5.3 5.6 6.8 7.5 6.9 6.1 5.6 4.9 4.5 4.2	4.7 4.5 4.8 6.1 6.6 6.1 5.3 4.9 4.7 4.2 3.9 3.7	4.7 4.5 4.9 6.5 7.0 6.3 5.4 4.9 4.7 4.2 3.9 3.6	13.9 13.7 14.3 17.6 18.5 17.7 16.3 15.6 15.5 14.3 14.1	4.1 3.9 4.3 5.8 6.4 5.7 4.8 4.3 4.1 3.6 3.2 3.0	4.7 4.5 4.7 5.6 6.1 5.7 5.2 4.8 4.7 4.2 3.9 3.8	12.3 11.5 12.6 15.2 15.8 14.7 13.8 13.4 12.9 12.8 10.9 11.3	4.1 4.0 4.1 5.0 5.5 4.6 4.3 4.1 3.7 3.4 3.3	11.7 11.4 11.4 12.5 14.2 13.0 11.5 10.4 10.5 10.0 8.9 8.0	11.7 11.5 11.9 13.0 15.2 13.8 12.0 10.6 11.1 10.2 8.9 8.2	32.7 31.9 31.9 36.3 42.0 40.1 37.6 37.1 36.9 36.5 30.1 30.9	10.1 10.0 10.4 11.5 13.5 12.1 10.3 8.8 9.4 8.5 7.4 6.7	11.7 11.4 10.9 12.0 13.2 12.1 11.0 10.2 10.0 9.9 9.0 7.8	32.0 33.0 29.9 36.0 37.2 37.4 32.6 34.3 30.3 28.7 25.3 25.1	10.4 9.8 9.7 10.6 11.8 10.7 9.8 8.6 8.7 8.8 7.9 6.8
2000	4.0 4.7 5.8 6.0 5.5 5.1 4.6 4.6 5.8 9.3	3.5 4.2 5.1 5.2 4.8 4.4 4.0 4.1 5.2 8.5	3.4 4.2 5.3 5.6 5.0 4.4 4.0 4.2 5.5	12.3 13.9 15.9 17.1 16.3 16.1 14.6 15.7 19.1 25.2	2.8 3.7 4.7 5.0 4.4 3.8 3.5 4.9 8.8	3.6 4.1 4.9 4.8 4.7 4.4 4.0 4.0 7.3	10.4 11.4 13.1 13.3 13.6 12.3 11.7 12.1 14.4 18.4	3.1 3.6 4.4 4.2 3.9 3.6 3.6 4.4 6.8	7.6 8.6 10.2 10.8 10.4 10.0 8.9 8.3 10.1 14.8	8.0 9.3 10.7 11.6 11.1 10.5 9.5 9.1 11.4	26.2 30.4 31.3 36.0 35.6 36.3 32.7 33.8 35.9 46.0	6.9 8.0 9.5 10.3 9.9 9.2 8.3 7.9 10.2 16.3	7.1 8.1 9.8 10.2 9.8 9.5 8.4 7.5 8.9	22.8 27.5 28.3 30.3 28.2 30.3 25.9 25.3 26.8 33.4	6.2 7.0 8.8 9.2 8.9 8.5 7.5 6.7 8.1
2010 2011 2012 2011: Jan Feb	9.6 8.9 8.1 9.1 9.0	8.7 7.9 7.2 8.1 8.1	9.6 8.3 7.4 8.6 8.5	26.3 24.5 24.5 24.2 23.1	8.9 7.7 6.7 8.0 8.0	7.7 7.5 7.0 7.5 7.5	20.0 18.9 18.4 21.1 19.5	7.2 7.0 6.5 7.0 7.1	16.0 15.8 13.8 15.8 15.5	18.4 17.8 15.0 18.1 17.5	45.4 43.1 41.3 48.2 40.7	17.3 16.7 14.0 16.8 16.6	13.8 14.1 12.8 13.8 13.8	40.5 39.4 35.6 40.6 36.4	12.8 13.2 11.9 12.8 13.0
Mar Apr May June July Aug Sept Oct Nov Dec 2012: Jan Feb Mar Apr May June June June June June June June June	8.9 9.0 9.1 9.0 9.0 9.0 8.9 8.5 8.3 8.2 8.1 8.2 8.2	8.0 8.1 8.0 8.0 7.9 7.9 8.0 7.7 7.5 7.4 7.4 7.3 7.4 7.4 7.4	8.4 8.6 8.3 8.5 8.4 7.9 7.7 7.6 7.5 7.5 7.5 7.5 7.5	23.2 24.7 22.4 25.0 25.4 24.9 25.8 25.0 23.1 24.5 23.7 25.4 25.1 24.4 24.3 23.9	7.9 8.0 7.9 7.8 7.6 7.6 7.2 7.1 6.9 6.8 7.0 6.8	7.4 7.5 7.5 7.5 7.5 7.6 7.4 7.4 7.2 7.3 7.1 7.3 7.1 7.0 7.3	19.2 18.9 17.7 18.9 20.6 18.6 17.6 18.1 18.8 19.5 20.1 18.8 17.2 18.8	6.9 7.1 7.0 7.0 7.0 7.1 7.0 6.9 6.8 6.8 6.8 6.6 6.8 6.6	15.7 16.3 16.2 15.8 16.5 15.8 14.9 15.6 13.6 14.1 13.1 13.6 14.1	18.0 18.4 18.6 17.9 17.5 18.9 17.5 16.7 15.5 14.9 14.7 15.1 15.2	40.3 45.8 46.3 41.8 38.2 44.7 42.9 36.9 41.7 49.2 35.2 43.1 39.7 39.6 36.2 39.3 37.7	17.1 17.3 17.4 16.9 16.7 17.9 16.5 15.9 16.3 15.4 12.8 14.4 13.9 13.7 14.2 14.8	13.6 14.5 14.7 14.7 14.2 14.4 14.3 13.4 13.5 12.8 13.2 11.6 12.3 13.7 12.5	42.7 37.1 36.3 37.9 40.4 49.4 45.1 36.7 36.5 33.6 40.3 26.4 40.6 36.2 36.2 35.0	12.6 13.5 13.5 13.9 13.4 13.3 12.6 13.6 12.5 12.3 12.1 10.7 11.4 12.6 11.5
Aug Sept Oct Nov Dec	8.1 7.8 7.9 7.8 7.8	7.2 7.0 6.9 6.8 6.9	7.5 7.2 7.1 7.0 6.9	27.6 24.1 23.7 23.0 24.5	6.7 6.6 6.5 6.4 6.2	6.9 6.7 6.7 6.6 6.8	18.1 18.1 17.4 17.5 18.8	6.4 6.3 6.3 6.2 6.3	14.0 13.4 14.5 13.2 14.0	15.4 15.4 15.5 14.2 15.0	44.2 43.0 48.8 43.9 44.3	14.2 14.1 14.1 12.9 14.0	12.8 11.6 13.5 12.3 13.1	33.0 31.3 33.6 34.8 37.6	12.0 10.8 12.7 11.5 12.2

 $^{^{\}rm 1}$ Unemployed as percent of civilian labor force 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-44. Unemployment by duration and reason, 1966-2012

[Thousands of persons, except as noted; monthly data seasonally adjusted 1]

Very comment				Du	ration of u	nemploym	ent			Re	eason for u	nemploym	ent	
	Year or month		Less	E 1/I	15. 26		Average	Median		Job Iosers '	1	loh	Do.	Now
1967		ment				and	duration		Total		Other			
1989	1966	2,875 2,975	1,573	779 893	287 271	239 177	10.4		1 229	30/	836	138	9/5	
1970	1908	2,817	1,594	810	256	156	8.4	4.5	1,070	334	736	431	909	407
1971	1970						III							
1973	1971	5,016	2,245	1,585	668	519	11.3	6.3	2,323	735	1,588	590	1,472	630
1979	1973	4,365	2,224	1,314	483	343	10.0	5.2	1,694	472	1,221	683	1,340	649
1979	1975	7,929	2,940	2,484	1.303	1,203	14.2	8.4	4,386	1,671	2,714	827	1,892	823
1890	1976	6,991	2.919	2,132	913	1,028	14.3	7.0	3,166	865	2,300	909	1,963	953
1890	1978 1979	6,202	2,865 2,950					5.9 5.4	2,585 2,635		1,8/3 1,784		1,857 1,806	885 817
1982	1980	7,637 8 273	3,295	2,470	1,052	820 1 162		6.5 6.9	3,947	1,488	2,459	891 923	1,927	872 981
1984	1982	10,678	3.883	3,311	1,708	1.776	15.6	8.7	6,268	2.127	4.141	840	2,384	1.185
1893	100/	8,539	3,350	2,451	1,104	1,634	18.2	7.9	4,421	1,171	3 250	823	2,184	1 110
1988	1000	8,312	3,498	2,509	1,045	1,187	15.0	6.9	4,033	1,157	2,982	1,015	2,160	1,039
1990	1988	6,701	3,084	2,007	801	809	13.5	5.9	3,092	851	2,241	983	1,809	816
1992	1989											l	l	
1993	1991	8,628	3,480	2,791	1,246	1,111	13.7	6.8	4,694	1,292	3,402	1,004	2,139	792
1995	1993	8,940	3,262	2.584	1,297	1,798	18.0	8.3	4.848	1,115	3,733	976	2,198	919
1997. 6,739 2,632 2,138 995 1,067 15,8 8,0 3,037 931 2,106 795 2,338 569 1998 5,880 2,568 1,832 755 725 13,4 6,4 2,622 866 1,957 734 2,132 5220 1999 5,880 2,568 1,832 755 725 13,4 6,4 2,622 849 1,774 783 2,005 469 2000 5,682 2,589 1,815 669 649 12,6 5.9 2,517 852 1,664 780 1,961 434 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 430 43	1995	7.404	2,700	2,400	1,085	1,278	16.6	8.3	3.476	1,030	2,446	824	2.525	579
1999	1997	6.739	2,538	2,138	995	1,067	15.8	8.0	3,037	931	2,106	795	2,338	569
2001	1998	5,880						6.4		848	1,957	783	2,132	520 469
2006	2000			1,815 2,196										
2006	2002	8,378	2,893	2,580	1,369	1,535	16.6	9.1	4,607	1,124	3,483	866	2,368	536
2006	2004	8,149	2,696	2,382	1,293	1,779	19.6	9.8	4,197	998	3,199	858	2,408	686
2009	2006	7,001	2,614	2,121	1.031	1.235	16.8	8.3	3,321	921	2,400	827	2.237	616
2010	2000	8,924	2,932	2,232	1,427	I,/bl	17.9	9.4	4,789	1,176	3,614	896	2,142	766
2012.	2010	14,825	2,771	3,267		6,415	33.0		9,250	1,431	7,819	889	3,466	1,220
2011: Jan 13,992 2,704 3,008 2,214 6,219 6,016 37,3 21,5 8,491 1,219 7,272 911 3,355 1,352 Feb 13,798 2,437 3,098 2,199 6,006 37,4 21,3 8,384 1,278 7,106 889 3,345 1,289 Apr 13,871 2,453 2,969 1,999 6,157 39,2 21,8 8,324 1,235 7,090 894 3,299 1,308 Apr 13,871 2,696 2,899 2,956 6,153 39,5 21,8 8,626 2,129 7,013 940 3,788 1,301 May 13,871 2,696 2,899 2,996 1,888 6,213 39,6 21,8 8,626 2,237 7,025 92,3 3,497 1,221 June 13,964 2,999 2,996 1,888 6,213 39,6 21,8 8,166 2,129 6,947 980 3,497 1,231 July 13,817 2,643 3,026 1,992 6,143 40,4 21,5 8,119 1,226 6,894 951 3,391 1,278 Aug 13,837 2,697 3,006 2,189 6,020 40,3 22,2 8,062 1,206 6,856 980 3,510 1,260 Sept 13,910 2,758 2,889 2,023 6,261 40,4 21,9 7,981 1,188 6,794 981 3,480 1,370 Nov 13,325 2,535 2,900 2,055 5,689 40,7 21,1 7,621 1,174 6,447 1,017 3,367 1,278 Dec 13,049 2,640 2,840 1,987 5,596 40,7 20,8 7,487 1,115 6,620 943 3,359 1,286 Apr 12,806 2,563 2,817 1,974 5,392 39,9 20,1 7,887 1,105 6,052 1,035 3,341 1,382 May 12,685 2,866 2,784 1,844 5,502 39,9 20,1 7,887 1,115 6,052 1,035 3,341 1,382 May 12,748 2,695 2,841 1,944 5,302 39,9 20,1 7,887 1,115 6,052 1,035 3,341 1,382 May 12,748 2,695 2,841 1,944 5,302 39,9 20,1 7,887 1,128 5,840 902 3,301 1,258 Apr 12,748 2,695 2,841 1,944 5,302 39,9 20,1 7,887 1,115 6,860 9,43 3,355 1,362 Apr 12,748 2,695 2,841 1,944 5,302 39,9 20,1 7,887 1,115 6,860 9,22 3,301 1,362 Apr 12,748 2,695 2,841 1,944 5,302 39,9 20,1 7,887 1,115 6,860 9,22 3,301 1,258 Apr 12,748 2,665 2,848 1,823 5,023 39,9 20,1 7,887 1,115 6,860	2011 2012	13.747	2,677	2.993	2,061 1,859	6,016 5,136	39.3 39.4	21.4 19.3	8,106	1,230 1,183	6,876 5,694	956 967	3,401 3,345	1.284
Apr 13,871 2,749 2,965 2,150 5,834 38.6 21.0 8,304 1,291 7,013 940 3,378 1,301 May 13,871 2,696 2,899 2,051 6,153 39.5 21.8 8,262 1,237 7,025 923 3,424 1,220 June 13,964 2,999 2,996 1,868 6,213 39.6 21.8 8,166 1,219 6,947 980 3,497 1,231 July 13,817 2,693 3,026 1,992 6,143 40.4 21.5 8,119 1,226 6,894 951 3,391 1,278 Aug 13,837 2,697 3,006 2,189 6,020 40.3 22.2 8,062 1,206 6,856 980 3,510 1,260 Sept 13,910 2,758 2,889 2,023 6,261 40.4 21.9 7,981 1,188 6,794 981 3,480 1,370 Oct 13,696 2,670 3,240 1,995 5,859 38.9 20.4 7,882 1,246 6,636 1,051 3,388 1,289 Nov 13,325 2,535 2,900 2,055 5,698 40.7 21.1 7,621 1,174 6,447 1,017 3,367 1,271 Dec 13,049 2,640 2,840 1,987 5,596 40.7 20.8 7,487 1,208 6,280 943 3,359 1,289 1,289 1,289 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,280 1,	2011: Jan	13,992		3,008	2,214	6,219		21.5		1,219	7,272		3,355	1,352
May	Mar	13,716	2,453	2,969	1,999	6,157	39.2	21.8	8,324	1,235	7,100	894	3,298	1,308
Aug 13,837 2,697 3,006 2,189 6,020 40,3 22,2 8,062 1,266 6,856 980 3,510 1,280 Sept. 13,910 2,758 2,889 2,023 6,261 40,4 21,9 7,981 1,188 6,794 981 3,480 1,370 Oct. 13,698 2,670 3,240 1,985 5,859 38,9 20,4 7,882 1,246 6,636 1,051 3,388 1,289 Nov. 13,049 2,640 2,840 1,987 5,596 40,7 21,1 7,621 1,174 6,447 1,017 3,367 1,271 Dec 13,049 2,640 2,840 1,944 5,522 40,2 20.8 7,292 1,266 6,026 932 3,301 1,258 Feb 12,806 2,563 2,817 1,974 5,392 39.9 20.1 7,187 1,155 6,052 1,035 3,341 1,332 <	May	13 871	2,696	2.899	2,051	6.153	39.5	21.8	8,262	1 237	7,025	923	3.424	1 220
Sept 13,910 2,758 2,889 2,023 6,261 40,4 21,9 7,981 1,188 6,794 981 3,480 1,370 Oct 13,606 2,670 3,240 1,985 5,859 38,9 20,4 7,882 1,246 6,636 1,015 3,385 1,289 Nov 13,252 2,535 2,900 2,055 5,689 40,7 21,1 7,621 1,174 6,447 1,017 3,367 1,276 Dec 13,049 2,840 1,987 5,586 40,7 21,1 7,621 1,174 6,447 1,017 3,367 1,278 2012: Jan 12,748 2,495 2,874 1,944 5,522 40,2 2,08 7,922 1,268 6,026 932 3,301 1,288 Feb 12,806 2,563 2,817 1,974 5,392 39,9 20,1 7,187 1,135 6,052 1,035 3,341 1,382 Mar	July	13,964	2,999	3,026	1,992	b,143	40.4	21.8	8,119	1,219	6,894	951	3,391	1,231
Oct. 13,896 2,670 3,240 1,985 5,899 38,9 20.4 7,882 1,246 6,636 1,051 3,388 1,289 Nov 13,049 2,640 2,840 1,987 5,596 40.7 20.8 7,487 1,208 6,280 943 3,359 1,286 2012: Jan 12,748 2,2495 2,874 1,944 5,522 40.2 20.8 7,292 1,266 6,026 932 3,301 1,286 Feb 12,806 2,563 2,817 1,974 5,392 39.5 19.7 7,021 1,135 6,052 1,035 3,341 1,382 Mar 12,686 2,596 2,784 1,877 5,302 39.5 19.7 7,021 1,132 5,889 1,111 3,264 1,421 Apr 12,518 2,567 2,841 1,994 5,040 39.1 19.3 6,880 1,108 5,772 989 3,336 1,327	Sept	13,910	2,758	2.889	2,023	6,261	40.4	21.9	7,981	1.188	6,794	981	3,480	1,370
2012: Jan	Oct	13,696 13,325	2 535	2.900	1,985 2,055		40.7	20.4 21.1	7,882 7,621	1,246 1,174	6,636 6,447		3,388	1,289 1,271
Feb 12,806 2,563 2,817 1,974 5,392 39,9 20,1 7,187 1,135 6,052 1,035 3,341 1,382 Mar 12,508 2,567 2,841 1,877 5,020 39,5 1,97 7,021 1,132 5,889 1,111 3,264 1,421 Apr 12,518 2,567 2,841 1,984 5,040 39,1 19,3 6,880 1,108 5,772 989 3,336 1,362 May 12,695 2,602 3,007 1,703 5,385 39,6 20,1 6,968 1,128 5,840 902 3,450 1,341 July 12,745 2,697 3,102 1,756 5,167 38,8 1,88 7,106 1,429 5,677 879 3,374 1,298 Aug 12,483 2,865 2,488 1,823 5,023 38,8 1,88 7,106 1,429 5,677 879 3,374 1,298 Se	Dec				1,987					1,208		l		
May 12,695 2,6002 3,007 1,703 5,385 39.6 20.1 6,988 1,128 5,840 902 3,450 1,347 June 12,701 2,825 2,826 1,813 5,336 39.7 19.4 7,121 1,309 5,812 39.6 3,243 1,316 July 12,745 2,697 3,102 1,756 5,167 38.8 18.8 7,106 1,429 5,677 879 3,374 1,299 Aug 12,483 2,865 2,848 1,823 5,023 38.3 18.2 6,935 1,211 5,724 946 3,316 1,268 Sept 12,082 2,535 2,825 1,866 4,871 39.6 18.7 6,489 1,153 5,335 962 3,313 1,253 Oct 12,248 2,633 2,847 1,813 5,017 39.9 19.6 6,536 1,077 5,460 1,009 3,319 1,326	Feb	12.806	2,563	2,817	1,974	5,392	39.9	20.1	7,187	1,135	6,052	1,035	3,341	1,382
June 12,701 2,825 2,826 1,813 5,336 39,7 19,4 7,121 1,309 5,812 936 3,243 1,316 July 12,745 2,897 3,102 1,756 5,167 38,8 16,8 7,106 1,429 5,677 879 3,374 1,299 Aug 12,483 2,865 2,848 1,823 5,023 39,3 18,2 6,935 1,211 5,724 946 3,316 1,268 Sept. 12,082 2,535 2,825 1,866 4,871 39,6 18,7 6,489 1,153 5,335 962 3,313 1,253 Oct. 12,248 2,633 2,847 1,813 5,017 39,9 19,6 6,536 1,077 5,460 1,009 3,319 1,302 Nov 12,042 2,596 2,757 1,820 4,784 39,7 18,9 6,429 1,080 5,349 926 3,325 1,326	Apr	12,518	2,567	2,841	1,984	5,040	39.1	19.3	6,880	1,108	5,772	989	3,336	1,362
Sept. 1 2,082 2,535 2,825 1,866 4,871 39.6 18.7 6,489 1,153 5,335 962 3,313 1,253 Oct. 12,248 2,633 2,847 1,813 5,017 39.9 19.6 6,536 1,077 5,460 1,009 3,319 1,302 Nov 12,042 2,596 2,757 1,820 4,784 39.7 18.9 6,429 1,080 5,349 926 3,325 1,326	June	12,701	2,825	2,826	1,813	5,336	39.7	19.4	7,121	1.309	5,812	936	3.243	1.316
Sept. 1 2,082 2,535 2,825 1,866 4,871 39.6 18.7 6,489 1,153 5,335 962 3,313 1,253 Oct. 12,248 2,633 2,847 1,813 5,017 39.9 19.6 6,536 1,077 5,460 1,009 3,319 1,302 Nov 12,042 2,596 2,757 1,820 4,784 39.7 18.9 6,429 1,080 5,349 926 3,325 1,326	Aug	12,/45 12,483	2,865	2,848	1,823	5,023	39.3	18.2	6,935	1,429 1,211	5,724	946	3,3/4	1,299 1,268
Nov	Oct	12,082 12,248	2,535 2,633	2,825 2,847	1,813	5.017	39.9	19.6	6,536	1,153 1,077	5,460	1,009	3,313 3,319	1,253 1,302
DOG 12,200 2,070 2,070 1,000 4,700 00.11 10.0 0,400 1,000 0,323 3,071 1,231	Nov Dec	12,042 12,206	2,596 2,676	2,757 2,838	1,820 1,895	4,784 4,766	39.7 38.1	18.9 18.0	6,429 6,408	1,080 1,085	5,349 5,323	926 983	3,325 3,587	1,326 1,291

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 2011, includes unemployment durations of up to 5 years; prior data are for up to 2 years.
 Beginning with January 1994, job losers and persons who completed temporary jobs.

Table B-45. Unemployment insurance programs, selected data, 1980-2012

[Thousands of persons, except as noted]

	All prog	rams ¹			Regi	ılar State prog	ırams		
Year or month	Insured unemploy- ment (weekly average) ²	Total benefits paid (millions of dollars)	Covered employ- ment ³	Insured unemploy- ment (weekly average) ²	Initial claims (weekly average)	Exhaustions (weekly average) ⁴	Insured unemploy- ment as percent of covered	Total (millions of	Average weekly check
							employment	dollars)	(dollars) ⁵
1980 1981 1982 1983 1984 1985 1986 1987 1988	3,521 3,248 4,836 5,216 3,160 2,751 2,667 2,349 2,122 2,158	16,668 15,910 26,649 31,615 18,201 16,444 16,325 14,632 13,500 14,618	86,918 87,783 86,148 86,867 91,378 94,027 95,946 98,760 101,987 104,750	3,356 3,045 4,059 3,395 2,475 2,617 2,621 2,300 2,081 2,156	488 460 583 438 377 397 378 328 310 330	59 57 80 80 50 49 52 46 38 37	3.9 3.5 4.7 3.9 2.7 2.8 2.7 2.3 2.0 2.1	14,887 14,568 21,769 19,025 13,642 14,941 16,188 14,561 13,483 14,603	99.06 106.61 119.349 123.59 123.47 128.09 135.65 140.39 144.74
1990 1991 1992 1993 1994 1995 1996 1997	2,527 3,514 4,906 4,188 2,941 2,648 2,656 2,372 2,264 2,223	18,452 27,004 39,669 34,649 24,261 22,026 22,397 20,333 20,091 21,037	106,325 104,642 105,187 107,263 110,526 113,504 116,078 119,159 122,427 125,280	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 44	2.4 3.2 3.1 2.6 2.4 2.3 2.2 1.9 1.8	18,413 25,924 26,048 22,599 22,338 21,925 22,349 20,287 20,017 21,001	161.20 169.56 173.38 179.41 181.91 187.04 189.27 192.84 200.58 212.10
2000 2001 2002 2003 2004 2005 2006 2007 2007 2008	2,143 3,012 4,453 4,400 3,103 2,709 2,521 2,612 3,898 9,122	21,005 32,227 53,350 53,352 36,495 32,154 30,917 33,212 51,798 141,384	128,054 127,923 126,545 126,084 127,618 129,929 132,177 133,688 133,076 126,763	2,110 2,974 3,585 3,531 2,950 2,661 2,476 2,572 3,306 5,724	301 404 407 404 345 328 313 324 424 568	41 54 85 85 68 55 51 66 145	1.6 2.3 2.8 2.8 2.3 2.0 1.9 1.9 2.5 4.5	20,983 32,135 42,266 41,896 35,034 32,098 30,852 33,156 43,764 80,564	221.01 238.07 256.79 261.67 262.50 266.63 277.20 287.73 297.10 308.73
2010 2011 2012 <i>p</i>	9,723 7,626 6,035	150,047 107,740 84,115	125,816 127,479 128,825	4,487 3,681 3,293	454 406 373	122 93 81	3.6 2.9 2.6	59,771 48,519 44,156	299.31 295.79 302.44
2011: Jan	10,646 8,971 9,328 8,113 8,831 7,885 7,958 8,252 6,849 7,645 7,332	11,115.1 9,902.9 10,779.9 8,846.6 9,302.8 8,812.6 8,127.4 9,125.3 7,589.2 7,903.1 8,109.3 8,125.9	124,494 125,059 125,943 127,392 128,197 128,530 126,543 127,184 128,599 129,001 129,406 129,402	5,209 4,450 4,545 3,862 4,094 3,688 3,887 4,013 3,305 3,582 3,582 3,583 3,688	598 397 416 428 407 447 439 398 366 403 459 517	121 100 111 107 109 97 101 103 85 94 92	4.2 3.6 3.6 3.0 3.2 2.9 3.1 3.2 2.6 2.8 2.7 2.9	5,085.6 4,643.6 4,982.5 3,950.0 4,033.1 3,808.6 3,662.2 4,115.4 3,348.3 3,435.6 3,662.2 3,791.7	296.92 299.06 299.68 298.18 295.89 293.63 289.72 289.00 296.37 295.07 296.39
2012: Jan Feb Feb Mar Apr May June July Aug Sept Oct Nov Dec P	9,048 7,567 7,174 7,454 6,403 5,844 6,835 5,681 5,377 5,656 5,358 6,052	9,585.0 8,424.7 7,979.0 7,811.8 7,197.3 6,243.2 7,094.9 6,249.1 5,479.8 6,246.0 5,657.8 6,146.1	126,609 127,257 128,320 129,271 130,469 131,024	4,781 4,045 3,783 3,832 3,282 3,097 3,814 3,252 3,014 3,184 3,080 3,639	548 375 354 387 374 388 422 356 311 391 470 469	109 89 89 101 92 79 99 81 74 85 75 81	3.8 3.2 2.9 3.0 2.5 2.4	4,814.2 4,399.6 4,105.7 3,853.5 3,587.6 3,191.6 3,764.9 3,422.7 2,964.4 3,338.9 3,137.7 3,575.0	301.26 305.37 305.30 301.67 304.22 300.47 296.71 297.82 303.82 303.52 304.93 304.42

Includes State Unemployment Insurance (State), Unemployment Compensation for Federal Employees (UCFE), Unemployment Compensation for Ex-service members (UCX), and Federal and State extended benefit programs. Also includes temporary Federal emergency programs: Federal Supplemental Compensation (1982-1985), Emergency Unemployment Compensation (EUC, 1991-1994), Temporary Extended Unemployment Compensation (2002-2004), EUC 2008 (2008-2012), and Federal Additional Compensation (2009-2010).

2 The number of people continuing to receive benefits.

3 Workers covered by regular State Unemployment Insurance programs.

4 Individual receiving feature programs and the program of the programs.

Note: Includes data for the District of Columbia, Puerto Rico, and the Virgin Islands.

Source: Department of Labor (Employment and Training Administration).

⁴ Individuals receiving final payments in benefit year. 5 For total unemployment only. Excludes partial payments.

TABLE B-46. Employees on nonagricultural payrolls, by major industry, 1968-2012

[Thousands of persons; monthly data seasonally adjusted]

					-,,		ndustries				
	Total			(Goods-produc	ing industrie	S		Private ser	vice-providin	g industries
Year or month	non- agricultural employ-	Total private		Mining	Con-	N	Manufacturin	9		Trade, tran and ut	sportation, ilities ¹
	ment	private	Total	and logging	struc- tion	Total	Durable goods	Non- durable goods	Total	Total	Retail trade
1968 1969	68,023 70,512	56,050 58,181	22,292 22,893	671 683	3,410 3,637	18,211 18,573	11,137 11,396	7,074 7,177	33,759 35,288	13,334 13,853	6,977 7,295
1970	71,006 71,335 73,798 76,912 78,389 77,069 79,502 82,593 86,826 89,932 90,528 91,289 89,677	58,318 58,323 60,333 63,050 64,086 62,250 64,501 67,334 71,014 73,864 74,154 75,109 73,695	22,179 21,602 22,299 23,450 23,364 21,318 22,025 22,972 24,156 24,997 24,263 24,118 22,550	677 658 672 693 755 802 832 865 902 1,008 1,077 1,180	3,654 3,770 3,957 4,167 4,095 3,608 3,662 3,940 4,322 4,562 4,454 4,304 4,024	17,848 17,174 17,669 18,589 18,514 16,909 17,531 18,167 18,932 19,426 18,733 18,634 17,363	10,762 10,229 10,630 11,414 11,432 10,266 10,640 11,132 11,770 12,220 11,679 11,611	7,086 6,944 7,039 7,176 7,082 6,643 6,891 7,035 7,162 7,206 7,054 7,054 6,753	36,139 36,721 38,034 39,600 40,721 40,932 42,476 44,362 46,858 48,868 49,891 50,991	14,144 14,318 14,788 15,349 15,693 15,606 16,128 16,765 17,658 18,303 18,413 18,604 18,457	7,463 7,657 8,038 8,371 8,536 8,600 8,966 9,359 9,879 10,180 10,244 10,364 10,372
1982 1983 1984 1985 1986 1987 1988	90,280 94,530 97,511 99,474 102,088 105,345 108,014	74,269 78,371 80,978 82,636 84,932 87,806 90,087	22,110 23,435 23,585 23,318 23,470 23,909 24,045	1,163 997 1,014 974 829 771 770 750	4,065 4,501 4,793 4,937 5,090 5,233 5,309	17,048 17,920 17,819 17,552 17,609 17,906 17,985	10,326 11,050 11,034 10,795 10,767 10,969 11,004	6,722 6,870 6,784 6,757 6,842 6,938 6,981	51,145 52,160 54,936 57,393 59,318 61,462 63,897 66,042	18,668 19,653 20,379 20,795 21,302 21,974 22,510	10,635 11,223 11,733 12,078 12,419 12,808 13,108
1990 1991 1992 1993 1994 1995 1996 1997 1998	109,487 108,377 108,745 110,876 114,333 117,336 119,757 122,853 126,033 129,098	91,072 89,832 89,958 91,887 95,058 97,904 100,218 103,190 106,124 108,791	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 6,751 6,714 6,649	67,349 67,244 67,863 69,668 72,284 74,748 76,809 79,304 81,770 84,326	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 14,970
2000	131,881 131,919 130,450 130,100 131,509 133,747 136,125 137,645 136,852 130,876	111,091 110,800 108,937 108,517 109,888 111,943 114,151 115,427 114,342 108,321	24,649 23,873 22,557 21,816 21,882 22,190 22,530 22,233 21,335 18,558 17,751 18,047	599 606 583 572 591 628 684 724 767 694	6,787 6,826 6,716 6,735 6,976 7,336 7,691 7,630 7,162 6,016	17,263 16,441 15,259 14,509 14,315 14,227 14,155 13,879 13,406 11,847 11,528	10,877 10,336 9,485 8,964 8,925 8,956 8,981 8,808 8,463 7,284 7,064 7,273	6,386 6,105 5,774 5,546 5,390 5,271 5,174 5,071 4,943 4,564	86,442 86,927 86,380 86,701 88,006 89,753 91,621 93,194 93,008 89,764 89,676	26,225 25,983 25,497 25,533 25,533 25,959 26,276 26,630 26,293 24,906	15,280 15,239 15,025 14,917 15,058 15,280 15,353 15,520 15,283 14,522
2011	131,497 133,738 130,660 130,665 131,169 131,284 131,493 131,293 132,094 132,268 132,289 133,265 133,369 133,369 133,369 133,369 133,369 133,369 133,369 133,369 133,369 133,369 133,467 134,668	109,411 111,821 108,208 108,451 108,67 109,160 109,337 109,543 109,672 109,928 110,102 110,209 110,548 110,819 111,344 111,4616 111,694 111,616 111,694 111,871 112,002 112,337 112,795	18,047 18,410 17,797 17,880 17,923 17,972 18,015 18,042 18,093 18,156 18,169 18,242 18,346 18,365 18,402 18,403 18,404 18,405 18,404 18,405 18,404 18,404 18,404 18,404 18,404 18,404 18,404 18,404 18,404 18,404 18,404 18,404 18,404 18,404 18,404 18,404 18,508	788 851 740 756 768 776 788 799 803 811 819 823 833 844 851 852 855 853 849 849 847 841 853	5,533 5,440 5,478 5,478 5,524 5,524 5,530 5,577 5,612 5,612 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 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5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630 5,630	11,726 11,918 11,624 11,662 11,682 11,707 11,715 11,747 11,760 11,762 11,779 11,810 11,910 11,910 11,910 11,931 11,931 11,931 11,938	7,462 7,462 7,171 7,199 7,218 7,257 7,274 7,290 7,290 7,307 7,324 7,302 7,400 7,452 7,460 7,467 7,482 7,482 7,483 7,483	4,453 4,453 4,463 4,464 4,469 4,458 4,450 4,455 4,445 4,435 4,435 4,441 4,459 4,459 4,461 4,461 4,461 4,461 4,461 4,461 4,461 4,461 4,461 4,465 4,465 4,465 4,465 4,465	91,363 93,411 90,411 90,571 90,751 91,005 91,145 91,295 91,450 91,595 92,306 92,577 92,771 92,942 93,250 93,250 93,250 93,250 93,250 93,250 93,250 93,250 93,250 93,250 93,250 93,250 93,250 94,267	25,065 25,517 24,821 24,868 24,890 25,013 25,076 25,116 25,136 25,246 25,285 25,372 25,381 25,407 25,467 25,467 25,467 25,467 25,520 25,520 25,520 25,520 25,520 25,520 25,520 25,520 25,520 25,720 25,720 25,720	14,668 14,875 14,547 14,557 14,564 14,639 14,676 14,770 14,771 14,729 14,839 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 14,836 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16,846 16

¹ Includes wholesale trade, transportation and warehousing, and utilities, not shown separately.

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–35 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 sample of the

TABLE B-46. Employees on nonagricultural payrolls, by major industry, 1968-2012-Continued

[Thousands of persons; monthly data seasonally adjusted]

			rivate industri		d	,	,	Gover	nment	
		Private se	rvice-providino	j industries—	Continued					
Year or month	Information	Financial activities	Profes- sional and business services	Education and health services	Leisure and hospitality	Other services	Total	Federal	State	Local
1968 1969	1,991 2,048	3,234 3,404	4,918 5,156	4,191 4,428	4,453 4,670	1,638 1,731	11,972 12,330	2,871 2,893	2,442 2,533	6,660 6,904
1970	2.041	3.532	5.267	4,577	4.789	1,789	12.687	2.865	2.664	7.158
1971	2,009 2,056	3,651 3,784	5,328 5,523	4,675 4.863	4,914 5.121	1,827 1.900	13,012 13,465	2,828 2,815	2,747 2.859	7,437 7,790
1973	2,135 2,160	3,920 4.023	5,774 5,974	5,092 5,322	5,341 5,471	1,990	13,862 14,303	2,794 2,858	2,923 3,039	8,146 8,407
1975	2.061	4,047	6,034	5,497	5.544	2,078 2,144	14.820	2.882 1	3.179	8.758
1976	2,111 2,185	4,155 4,348	6,287 6,587	5,756 6,052	5,794 6,065	2,244 2,359	15,001 15,258	2,863 2,859	3,273 3,377	8,865 9,023
1972 1973 1974 1975 1976 1977 1978	2,287 2,375	4,599 4,843	6,972 7,312	6,427 6,767	6,411 6,631	2,505 2,637	15,812 16,068	2,893 2,894	3,474 3,541	9,446 9,633
1980	2.361	5.025	7.544	7,072	6,721	2,755	16,375	3,000	3,610	9.765
1981 1982	2,382 2,317 2,253	5,163 5,209	7,782 7,848	7,357 7,515	6,840 6,874	2,865 2,924	16,180 15,982	2,922 2,884 2,915	3,640 3,640	9,619 9,458
1983 1984 1985	2,398	5,334 5,553	8,039 8,464	7,766 8,193	7,078 7,489	3,021 3,186	16,011 16,159	2,943	3,662 3,734	9,434 9,482
1985 1986	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	2,445 2,507 2,585	6,385 6,500	9,608 10,090	9,515 10,063	8,446 8,778	3,699 3,907	17,156 17,540	3,044 3,089 3,124	3,967 4,076	10,100 10,339
1988 1989	2,622	6,562	10,555	10,616	9,062	4,116	17,927	3,136	4,182	10,609
1990 1991	2,688 2,677	6,614 6,561	10,848 10,714	10,984 11,506	9,288 9,256	4,261 4,249	18,415 18,545	3,196 3,110	4,305 4,355	10,914 11,081
1991 1992 1993	2,641 2,668	6,559 6,742	10,970 11,495	11,891 12.303	9,437 9,732	4,240 4.350	18,787 18,989	3,111 3.063	4,408 4.488	11,267 11,438
1994 1995	2,738 2,843	6,910 6,866	12,174 12,844	12,807 13,289	10,100 10,501	4,428 4,572	19,275 19,432	3,018 2,949	4,576 4,635	11,682 11,849
1996	2.940	7.018	13,462	13,683	10.777	4,690	19,539	2,877	4,606	12.056
1997 1998	3,084 3,218	7,255 7,565	14,335 15,147	14,087 14,446	11,018 11,232	4,825 4,976	19,664 19,909	2,806 2,772	4,582 4,612	12,276 12,525
1999	3,419 3,630	7,753 7,783	15,957 16,666	14,798 15,109	11,543 11,862	5,087 5,168	20,307 20,790	2,769 2,865	4,709 4,786	12,829 13,139
2001	3,629 3,395	7,900 7,956	16,476 15,976	15,645 16,199	12,036 11,986	5,258 5,372	21,118 21,513	2,764 2,766	4,905 5,029	13,449 13,718
2002	3,188	8,078	15,987 16,394	16,588	12,173 12,493	5,401	21,583	2,761	5,002	13,820
2004 2005	3,118 3,061	8,105 8,197	16,954	16,588 16,953 17,372	12,816	5,409 5,395	21,583 21,621 21,804	2,761 2,730 2,732	4,982 5,032	13,909 14,041
2006 2007	3,038 3,032 2,984	8,367 8,348	17,566 17,942	17,826 18,322	13,110 13,427	5,438 5,494	21,974 22,218	2,732 2,734	5,075 5,122	14,167 14,362
2007 2008 2009	2,984 2,804	8,206 7,838	17,735 16,579	18,838 19,193	13,436 13,077	5,515 5,367	22,218 22,509 22,555	2,762 2,832	5,177 5,169	14,571 14,554
2010	2.707	7 695	16.728	19,531	13.049	5,331	22,490	2.977	5,137	14,376
2011 2012 P	2,674 2,679	7,697 7,787	17,332 17,928	19,883 20,319	13,353 13,745	5,360 5,437	22,086 21,917	2,859 2,814	5,078 5,051	14,150 14,051
2011: Jan Feb	2,683 2,673	7,677 7,674	17,044 17,102	19,705 19,723	13,152 13,196	5,329 5,335	22,256 22,209	2,874 2,877	5,136 5,110	14,246 14,222
Mar Apr	2,673 2,676	7,678 7,680	17,191 17,239	19,741 19,798	13,242 13,281	5,330 5,341	22,209 22,191 22,192	2,878 2,872	5,101 5,094	14,212 14,226
May	2,676 2,684	7,701 7,692	17,298 17,289	19,816 19,857	13,293 13,345	5,348 5,352	22,124 22,156	2,872 2,859	5,084 5,078	14,168 14,219
June July	2,678	7,697	17,319	19,900	13.382	5,358	22.028	2.859	5,054	14,115
Aug Sept	2,633 2,675	7,704 7,702	17,384 17,451	19,936 19,988	13,399 13,410	5,375 5,380	22,031 22,000	2,851 2,846	5,077 5,076	14,103 14,078
Oct Nov	2,677 2,677	7,710 7,721	17,485 17,528	20,028 20,052	13,459 13,515	5,382 5,391	21,992 21,969	2,846 2,841	5,058 5,052	14,088 14,076
Dec	2,682	7,728	17,588	20,080	13,541	5,402	21,950	2,841	5,042	14,067
2012: Jan Feb	2,670 2,681	7,730 7,740	17,677 17,753	20,106 20,175	13,585 13,632	5,417 5,413	21,938 21,944	2,834 2,832	5,042 5,051	14,062 14,061
Mar Apr	2,679 2,679 2,681	7,763 7,768 7,782	17,796 17,841 17,878	20,221 20,243 20,290	13,684 13,698	5,418 5,418	21,941 21,933 21,906	2,830 2,828 2,821	5,059 5,064	14,052 14,041
May June	2,681 2,675	7,782 7,788	17,878 17,913	20,290 20,296	13,702 13,716	5,424 5,429	21,906 21,915	2,821 2,818	5,049 5,050	14,036 14,047
July Aug	2,684 2,682	7,788 7,795	17,965 17,994	20,331 20,363	13,743 13,788	5,439 5,438	21,891 21,925	2,805 2,810	5,042 5,049	14,044 14,066
Sept Oct	2,670 2,671	7,806 7,817	18,009 18,062	20,412 20,446	13,818 13,840	5,450 5,457	21,945 21,888	2,810 2,807	5,072 5,052	14,063 14,029
Nov	2,685	7,822	18,117	20,460	13,861	5,464	21,879	2,798	5,047	14,034
Dec P	2,682	7,831	18,119	20,510	13,894	5,470	21,873	2,796	5,044	14,033

Note (cont'd): 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 2012 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, 1966–2012 $^{\rm 1}$

[Monthly data seasonally adjusted]

	Aver	age weekly ho	ours	Avera	age hourly ear	nings	Avera	age weekly ea	rnings, total p	rivate
Year or month		Manufa	ecturing	Total p	orivate	Manu-	Le	vel	Percent	t change ar earlier
real of month	Total private	Total	Overtime	Current dollars	1982–84 dollars ²	facturing (current dollars)	Current dollars	1982–84 dollars ²	Current dollars	1982–84 dollars ²
1966 1967	38.5 37.9 37.7	41.4 40.6	3.9 3.3 3.6	\$2.73 2.85 3.02	\$8.37 8.48 8.63	\$2.60 2.71 2.89	\$105.23 108.07 113.82	\$322.79 321.64 325.20	3.7 2.7 5.3	0.8 4
1968 1969	37.5	40.7 40.6	3.6	3.22	8.73	3.07	120.70	327.10	6.0	1.1
1970 1971 1972	37.0 36.7 36.9	39.8 39.9 40.6	2.9 2.9 3.4	3.40 3.63 3.90	8.72 8.92 9.26	3.24 3.45 3.70	125.79 133.22 143.87	322.54 327.32 341.73	4.2 5.9 8.0	-1.4 1.5 4.4
1973 1974	36.9 36.4	40.7 40.0	3.8 3.2	4.14 4.43	9.26 8.93	3.97 4.31	152.59 161.61	341.36 325.83	6.1 5.9	1 -4.5
1976	36.0 36.1	39.5 40.1	2.6 3.1	4.73 5.06	8.74 8.85	4.71 5.10	170.29 182.65	314.77 319.32	5.4 7.3	-3.4 1.4
1977 1978	35.9 35.8	40.3 40.4	3.4 3.6	5.44 5.88	8.93 8.96	5.55 6.05	195.58 210.29	321.15 320.56	7.1 7.5	.6 2
1980	35.6 35.2	40.2 39.6	3.3 2.8	6.34 6.85	8.67 8.26	6.57 7.15	225.69 241.07	308.74 290.80	7.3 6.8	-3.7 -5.8
1981 1982	35.2 34.7 34.9	39.8 38.9	2.8 2.3 2.9	7.44 7.87 8.20	8.14 8.12 8.22	7.87 8.36 8.70	261.53 273.10 286.43	286.14 281.84 287.00	8.5 4.4 4.9	-1.6 -1.5 1.8
1983 1984 1985	35.1 34.9	40.1 40.6 40.5	3.4 3.3	8.49 8.74	8.22 8.18	9.05 9.40	298.26 304.62	288.73 284.96	4.9 4.1 2.1	.6 -1.3
1986 1987	34.7 34.7	40.7 40.9	3.4 3.7	8.93 9.14	8.22 8.12	9.60 9.77	309.78 317.39	285.25 282.12	1.7 2.5	.1 -1.1
1988 1989	34.6 34.5	41.0 40.9	3.8 3.8	9.44 9.80	8.07 7.99	10.05 10.35	326.48 338.34	279.04 275.97	2.9 3.6	-1.1 -1.1
1990 1991	34.3 34.1	40.5 40.4	3.9 3.8	10.20 10.52	7.91 7.83	10.78 11.13	349.72 358.51	271.10 266.95	3.4 2.5	-1.8 -1.5 2
1992 1993 1994	34.2 34.3 34.5	40.7 41.1 41.7	4.0 4.4 5.0	10.77 11.05 11.34	7.79 7.78 7.79	11.40 11.70 12.04	368.25 378.94 391.28	266.46 266.67 268.74	2.7 2.9 3.3	.1
1995 1996	34.3 34.3	41.3 41.3	4.7 4.8	11.66 12.05	7.79 7.78 7.82	12.34 12.75	400.22 413.47	267.17 268.31	3.3 2.3 3.3	6 .4
1997 1998	34.5 34.5 34.3	41.7 41.4	5.1 4.9	12.51 13.02	7.94 8.15	13.14 13.45	432.05 448.76	274.14 281.00	4.5 3.9	.8 6 .4 2.2 2.5 1.0
2000	34.3	41.4	4.9 4.7	13.49 14.02	8.27 8.30	13.85 14.32	463.35 481.36	283.92 285.00	3.3	.4
2001 2002 2003	34.0 33.9 33.7	40.3 40.5 40.4	4.0 4.2 4.2	14.55 14.97 15.38	8.39 8.51 8.55	14.76 15.29 15.74	494.05 507.03 518.41	284.76 288.25 288.33	2.6 2.6 2.2	1 1.2
2004	33.7 33.8 33.9	40.8 40.7	4.6 4.6	15.70 16.13	8.51 8.45	16.14 16.56	529.23 544.44	286.85 285.05	2.1 2.9	.0 5 6
2007	33.9 33.9 33.6	41.1 41.2	4.4 4.2	16.76 17.44	8.50 8.60	16.81 17.26	567.89 590.24	288.12 291.09	4.3 3.9	1.1
2008	33.1	40.8 39.8	3.7 2.9	18.08 18.63	8.57 8.89	17.75 18.24	608.11 617.50	288.13 294.57	3.0 1.5	-1.0 2.2
2010 2011 2012 P	33.4 33.6 33.7	41.1 41.4 41.7	3.8 4.1 4.2	19.07 19.46 19.77	8.91 8.78 8.74	18.61 18.93 19.09	637.18 654.73 666.99	297.79 295.49 294.83	3.2 2.8 1.9	1.1 8 2
2011: Jan Feb	33.4 33.5	41.0 41.3	4.1 4.2	19.33 19.34	8.90 8.86	18.90 18.90	645.62 647.89	297.13 296.70	2.5 3.0	.7 .7 .0
Mar Apr	33.6 33.7	41.5 41.4	4.2 4.1	19.34 19.39	8.80 8.79	18.90 18.90	649.82 653.44	295.73 296.07	3.0 3.1 2.5	4
June	33.6 33.6	41.5 41.4	4.1 4.0	19.44 19.45	8.78 8.78	18.93 18.91	653.18 653.52	295.11 295.10	2.7	-1.4 -1.3 -1.2
July Aug Sept	33.7 33.6 33.7	41.4 41.3 41.4	4.1 4.1 4.1	19.51 19.50 19.52	8.78 8.74 8.72	18.93 18.90 18.92	657.49 655.20 657.82	295.89 293.76 294.00	2.9 2.2 2.5	-1.2 -1.9 -1.8
Oct Nov	33.7 33.7	41.5 41.5	4.1 4.1	19.56 19.59	8.75 8.76	18.96 18.96	659.17 660.18	294.84 295.10	2.0 2.4	-1.9 -1.3
Dec 2012: Jan	33.7 33.8	41.6 41.8	4.1 4.2	19.58 19.61	8.75 8.75	18.99 19.03	659.85 662.82	294.99 295.71	2.4 2.7	9 5 7
Feb Mar	33.8 33.8 33.7	41.8 41.6	4.2 4.2	19.64 19.68	8.72 8.71	19.02 19.02	663.83 663.22	294.71 293.47	2.5 2.1	8
Apr May June	33.7 33.7 33.7	41.7 41.6 41.6	4.2 4.2 4.2	19.72 19.70 19.75	8.73 8.75 8.78	19.08 19.03 19.08	664.56 663.89 665.58	294.14 295.03 295.82	1.7 1.6 1.8	7 .0 .2 .0 3
July Aug	33.7 33.6 33.7	41.7 41.6	4.2 4.1	19.77 19.76	8.78 8.71	19.11 19.07	666.25 663.94	295.98 292.80	1.3 1.3	.0 3
Sept Oct	33.6	41.5 41.5 41.6	4.2 4.1 4.1	19.80 19.82 19.88	8.67 8.67 8.74	19.07 19.08 19.17	667.26 665.95 669.96	292.29 291.34 294.44	1.4 1.0	6 -1.2
Nov Dec ^p	33.7 33.7	41.b 41.7	4.1 4.2	19.88	8.74 8.76	19.17	671.30	294.44 295.15	1.5 1.7	2 .1

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 1982–84=100 base.

Table B-48. Employment cost index, private industry, 1997-2012

				,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	o i i vacc		7,			
	-	Total private	9	Go	ods-produc	ing	Ser	vice-providi	ng ¹	٨	1anufacturi	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	sIC basis,	December 2	2005=100; n	ot seasonal	ly adjusted			
December: 1997 1998 1999 2000	74.9 77.5 80.2 83.6	77.6 80.6 83.5 86.7	68.5 70.2 72.6 76.7	74.5 76.5 79.1 82.6	78.3 81.1 83.8 87.1	67.3 68.1 70.5 74.3	75.1 78.0 80.6 84.2	77.4 80.5 83.4 86.6	69.2 71.4 73.8 78.1	74.6 76.6 79.2 82.3	78.6 81.3 84.1 87.1	67.4 67.9 70.3 73.6
2001	87.1	90.0	80.6	85.7	90.2	77.3	87.8	89.9	82.5	85.3	90.2	76.3
2001 3	87.3	89.9		Indexes on 86.0	NAICS basis 90.0	s, December 78.5	2005=100; 87.8	not season 89.8	ally adjuster 82.4		90.2	77.2
2002 2003 2004 2005 2006 2007 2008 2009	90.0 93.6 97.2 100.0 103.2 106.3 108.9 110.2	92.2 95.1 97.6 100.0 103.2 106.6 109.4 110.8	81.3 84.7 90.2 96.2 100.0 103.1 105.6 107.7 108.7	89.0 92.6 96.9 100.0 102.5 105.0 107.5 108.6	92.6 94.9 97.2 100.0 102.9 106.0 109.0 110.0	82.3 88.2 96.3 100.0 101.7 103.2 104.7 105.8	90.4 94.0 97.3 100.0 103.4 106.7 109.4 110.8	92.1 95.2 97.7 100.0 103.3 106.8 109.6 111.1	85.8 91.0 96.1 100.0 103.7 106.6 108.9 109.9	85.5 88.7 92.4 96.9 100.0 101.8 103.8 105.9 107.0	92.8 95.1 97.4 100.0 102.3 104.9 107.7 108.9	81.3 87.3 96.0 100.0 100.8 101.7 102.5 103.6
2010 2011	112.5 115.0	112.8 114.6	111.9 115.9	111.1 113.8	111.6 113.5	110.1 114.4	113.0 115.3	113.1 114.9	112.6 116.4	110.0 113.1	110.7 112.7	108.8 113.9
2012: Mar June Sept	115.7 116.4 116.9	115.3 115.9 116.4	116.9 117.6 118.1	114.1 114.7 115.3	114.0 114.5 115.1	114.2 114.9 115.7	116.3 117.0 117.4	115.6 116.3 116.7	118.0 118.7 119.1	113.4 114.0 114.6	113.6 114.0 114.6	113.2 114.0 114.7
				Indexes o	n NAICS ba	sis, Decemb	er 2005=10	0; seasonal	ly adjusted			
2011: Mar	113.3 114.2 114.6 115.2 115.7 116.3 116.8	113.2 113.8 114.2 114.7 115.3 115.8 116.3	113.5 115.1 115.4 116.3 116.7 117.4 118.2	112.0 113.0 113.3 114.1 114.0 114.5 115.3	112.1 112.7 113.1 113.6 114.0 114.5 115.1	111.6 113.7 113.8 115.1 114.0 114.5 115.7	113.8 114.5 115.0 115.5 116.3 116.9 117.3	113.5 114.1 114.6 115.0 115.7 116.3	114.3 115.7 116.0 116.8 117.8 118.5 119.1	111.2 112.5 112.8 113.6 113.3 113.8 114.6	111.4 112.0 112.4 113.0 113.5 114.0 114.5	110.8 113.4 113.4 114.7 112.9 113.4 114.8
·						n 12 months	earlier, not	seasonally	adjusted			
December: SIC:												
1997 1998 1999 2000 2001	3.5 3.5 3.5 4.2 4.2	3.9 3.9 3.6 3.8 3.8	2.2 2.5 3.4 5.6 5.1	2.5 2.7 3.4 4.4 3.8	3.0 3.6 3.3 3.9 3.6	1.4 1.2 3.5 5.4 4.0	3.9 3.9 3.3 4.5 4.3	4.3 4.0 3.6 3.8 3.8	2.8 3.2 3.4 5.8 5.6	2.3 2.7 3.4 3.9 3.6	3.0 3.4 3.4 3.6 3.6	1.4 .7 3.5 4.7 3.7
NAICS: 2001 3	4.1 3.1 4.0 3.8 2.9 3.2 3.0 2.4 1.2	3.8 2.6 3.1 2.6 2.5 3.2 3.3 2.6 1.3	5.2 4.2 6.5 6.7 4.0 3.1 2.4 2.0	3.6 3.5 4.0 4.6 3.2 2.5 2.4 2.4	3.6 2.9 2.5 2.4 2.9 2.9 3.0 2.8	3.7 4.8 7.2 9.2 3.8 1.7 1.5 1.5	4.4 3.0 4.0 3.5 2.8 3.4 3.2 2.5 1.3	3.8 2.6 3.4 2.6 2.4 3.3 3.4 2.6	5.6 4.1 6.1 5.6 4.1 3.7 2.8 2.2	3.4 3.7 4.2 4.9 3.2 1.8 2.0 2.0	3.6 2.9 2.5 2.4 2.7 2.3 2.5 2.7	3.5 5.3 7.4 10.0 4.2 .8 .9 .8
2010 2011	2.1 2.2	1.8 1.6	2.9 3.6	2.3 2.4	1.5 1.7	4.1 3.9	2.0 2.0	1.8 1.6	2.5 3.4	2.8 2.8	1.7 1.8	5.0 4.7
2012: Mar June Sept	2.1 1.8 2.0	1.9 1.8 1.8	2.8 1.9 2.3	1.9 1.3 1.7	1.7 1.6 1.6 1.7	2.2 .7 1.6	2.2 2.1 2.1	1.0 1.9 1.9 1.8	3.1 2.4 2.7	1.8 1.2 1.6	1.0 1.9 1.8 1.9	1.9 .0 1.1
						rom 3 month						
2011: Mar	0.5 .8 .4 .5 .4 .5	0.4 .5 .4 .4 .5 .4	1.1 1.4 .3 .8 .3 .6	0.6 .9 .3 .7 1 .4	0.4 .5 .4 .4 .4 .4	0.9 1.9 .1 1.1 -1.0 .4	0.6 .6 .4 .4 .7 .5	0.3 .5 .4 .3 .6 .5	1.2 1.2 .3 .7 .9 .6	0.6 1.2 .3 .7 3 .4	0.5 .5 .4 .5 .4 .4	1.1 2.3 .0 1.1 -1.6 .4 1.2

 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

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, 1963-2012

[Index numbers, 2005=100; quarterly data seasonally adjusted]

		per hour persons	Out	tput ¹	Hou	urs of ersons ²	Compe	ensation hour ³	compe	eal ensation hour ⁴		labor osts	Impli 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
1963	40.3	42.7	22.6	22.5	56.1	52.6	9.6	9.9	55.6	57.7	23.7	23.2	22.3	21.8
	41.7	44.0	24.0	24.0	57.7	54.5	9.9	10.2	57.0	58.7	23.8	23.2	22.6	22.1
	43.1	45.4	25.7	25.7	59.6	56.6	10.3	10.6	58.2	59.7	23.9	23.3	22.9	22.4
	44.9	47.0	27.5	27.5	61.2	58.6	11.0	11.2	60.4	61.5	24.5	23.8	23.5	22.9
	45.9	47.8	28.0	28.0	61.0	58.6	11.6	11.8	61.9	63.1	25.3	24.8	24.1	23.6
	47.4	49.4	29.4	29.5	61.9	59.6	12.5	12.8	64.2	65.3	26.4	25.8	25.1	24.6
	47.7	49.5	30.3	30.4	63.5	61.3	13.4	13.6	65.1	66.2	28.1	27.5	26.2	25.7
1970	48.6	50.2	30.3	30.3	62.2	60.4	14.5	14.6	66.3	67.1	29.7	29.1	27.4	26.8
	50.6	52.3	31.4	31.5	62.1	60.2	15.4	15.5	67.5	68.4	30.3	29.8	28.5	28.0
	52.3	54.0	33.5	33.6	64.0	62.2	16.3	16.6	69.6	70.5	31.2	30.7	29.6	28.8
	53.9	55.7	35.8	36.0	66.5	64.7	17.7	17.9	71.0	71.8	32.9	32.2	31.1	29.9
	53.0	54.8	35.3	35.5	66.6	64.8	19.4	19.7	70.1	71.0	36.6	35.9	34.1	32.9
	54.8	56.3	34.9	34.9	63.7	62.0	21.4	21.6	70.8	71.6	39.0	38.4	37.4	36.5
	56.6	58.2	37.2	37.4	65.8	64.2	23.2	23.5	72.7	73.4	41.1	40.3	39.4	38.5
	57.5	59.1	39.3	39.5	68.3	66.8	25.1	25.4	73.7	74.5	43.6	42.9	41.8	40.9
	58.2	59.9	41.8	42.1	71.8	70.3	27.3	27.6	74.9	75.8	46.9	46.1	44.7	43.7
	58.1	59.6	43.2	43.4	74.3	72.8	29.9	30.2	74.9	75.7	51.4	50.7	48.5	47.4
1980	58.0 59.2 58.7 60.8 62.5 63.9 65.7 65.9 66.9 67.6	59.5 60.3 59.7 62.3 63.5 64.6 66.6 66.8 67.9 68.4	42.7 43.9 42.6 44.8 48.7 51.0 52.9 54.6 57.0 59.1	42.9 43.8 42.4 45.1 48.9 51.0 52.9 54.7 57.2 59.2	73.6 74.1 72.5 73.7 78.0 79.8 80.5 82.9 85.2 87.4	72.2 72.7 71.1 72.5 76.9 78.9 79.5 81.9 84.3 86.6	33.1 36.2 38.8 40.4 42.1 44.1 46.4 48.0 50.5 51.9	33.4 36.7 39.3 40.9 42.6 44.5 46.8 48.5 50.9 52.2	74.6 74.5 75.4 75.3 75.4 76.3 78.8 79.0 80.1 78.9	75.4 75.5 76.3 76.2 76.2 76.9 79.5 79.7 80.8 79.4	57.0 61.1 66.4 67.4 69.0 70.5 72.9 75.5 76.7	56.2 60.8 65.8 65.7 67.0 68.9 70.3 72.7 75.1 76.4	52.9 57.8 61.1 63.1 65.0 66.5 67.6 69.2 71.4 74.0	51.9 56.9 60.4 62.4 64.1 66.0 67.1 68.7 70.8 73.4
1990	69.0 70.1 73.0 73.4 74.1 76.3 77.6 79.9 82.7	69.6 70.7 73.5 73.9 74.7 75.0 76.9 78.1 80.4 83.1	60.0 59.5 61.8 63.8 67.0 68.8 72.0 75.7 79.5 83.9	60.1 59.5 61.8 63.9 66.9 69.0 72.1 75.7 79.6 84.1	86.9 84.7 86.9 90.4 92.9 94.4 97.5 99.4 101.4	86.3 84.2 84.0 86.4 89.6 92.0 93.7 96.9 99.0	55.2 58.0 61.1 62.5 63.4 64.7 66.9 69.1 73.3 76.6	55.5 58.4 61.5 62.7 63.9 65.2 67.4 69.4 73.6 76.8	80.0 81.1 83.3 83.1 82.6 82.4 82.9 83.8 87.7 89.8	80.3 81.6 83.9 83.5 83.2 82.9 83.4 84.2 88.0 89.9	80.0 82.8 83.7 85.1 85.6 87.4 87.8 89.1 91.7	79.7 82.6 83.7 84.9 85.5 86.9 87.5 88.9 91.5	76.7 79.2 80.7 82.3 83.7 85.2 86.6 87.9 88.5	76.1 78.7 80.3 81.9 83.4 84.8 86.0 87.6 88.3 89.1
2000	85.6 88.2 92.2 95.7 98.4 100.0 100.9 102.4 103.2 106.3	85.9 88.4 92.4 95.8 98.4 100.0 100.9 102.5 103.1 106.1	87.7 88.4 90.2 93.0 96.7 100.0 103.0 105.1 103.7 99.2	87.8 88.6 90.3 93.0 96.7 100.0 103.1 105.3 103.7 99.0	102.4 100.3 97.8 97.2 98.3 100.0 102.1 102.6 100.5 93.3	102.2 100.2 97.6 97.1 98.3 100.0 102.2 102.7 100.6 93.3	82.3 86.1 88.8 93.0 96.2 100.0 103.8 108.1 111.7 113.2	82.5 86.2 88.9 93.1 96.2 100.0 103.8 107.9 111.6 113.2	93.3 95.0 96.4 98.7 99.5 100.0 100.5 101.8 101.2 103.0	93.5 95.0 96.5 98.8 99.4 100.0 100.5 101.6 101.2 103.0	96.1 97.7 96.4 97.2 97.8 100.0 102.8 105.5 108.2 106.5	96.0 97.5 96.2 97.1 97.8 100.0 102.8 105.3 108.2 106.7	90.9 92.5 93.2 94.5 96.9 100.0 102.9 105.6 107.5	90.9 92.4 93.2 94.4 96.6 100.0 103.0 105.4 107.3 108.1
2010 2011 2009: I	109.5 110.0 103.9 105.7	109.4 110.2 103.9 105.6	102.2 104.6 99.3 98.7	102.0 104.7 99.2 98.5	93.3 95.1 95.5 93.4	93.3 95.1 95.5 93.3	115.4 118.4 111.5 113.3	115.5 118.6 111.5 113.4	103.3 102.8 102.5 103.6	103.4 102.9 102.5 103.7	105.4 107.7 107.3 107.2	105.6 107.6 107.4 107.4	109.6 112.0 107.6 107.6	109.6 111.7 107.8 107.8
III	107.2	106.9	98.9	98.6	92.2	92.2	113.9	113.9	103.3	103.3	106.3	106.5	108.0	108.3
IV	108.5	108.2	100.1	99.8	92.2	92.3	114.2	114.2	102.7	102.7	105.2	105.5	108.4	108.6
2010: I	109.1	108.9	100.8	100.7	92.4	92.4	114.5	114.6	102.8	102.9	104.9	105.2	108.8	108.9
II	108.9	108.8	101.5	101.3	93.2	93.1	115.2	115.3	103.5	103.6	105.7	106.0	109.3	109.4
III	109.8	109.7	102.7	102.6	93.5	93.5	115.8	115.9	103.7	103.7	105.4	105.6	109.8	109.8
IV	110.2	110.2	103.6	103.6	94.0	94.0	115.9	116.0	103.0	103.1	105.1	105.2	110.4	110.3
2011:	109.5	109.7	103.5	103.5	94.5	94.4	118.4	118.5	104.0	104.2	108.1	108.1	110.9	110.6
	109.8	110.0	104.2	104.4	94.9	94.9	118.4	118.5	103.0	103.1	107.9	107.7	111.8	111.4
	109.9	110.1	104.6	104.8	95.2	95.2	118.3	118.5	102.1	102.3	107.6	107.6	112.7	112.3
V	110.7	110.9	106.0	106.2	95.8	95.8	118.1	118.3	101.6	101.8	106.7	106.7	112.7	112.4
2012:	110.5	110.7	106.7	106.9	96.6	96.5	119.8	120.0	102.4	102.6	108.4	108.3	113.2	112.9
	111.0	111.3	107.3	107.4	96.6	96.6	120.2	120.4	102.5	102.7	108.3	108.2	113.6	113.3
	111.7	112.0	108.2	108.5	96.9	96.9	120.4	120.6	102.2	102.4	107.9	107.7	114.5	114.1

 $[\]underline{{\mbox{\it 1}}}$ Output refers to real gross domestic product in the sector.

² Hours at work of all persons engaged in sector, including hours of proprietors and unpaid family workers. Estimates based primarily on establishment data.

³ 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 1978–2011 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, 1963-2012

[Percent change from preceding period; quarterly data at seasonally adjusted annual rates]

		per hour persons		tput ¹	Ног	ırs of rsons ²	Compe	ensation hour ³	compe	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	Busi- ness sector	Nonfarm business sector	Busi- ness sector	Nonfarm business sector	Busi- ness sector	Nonfarm business sector	Busi- ness sector	Nonfarm business sector
1963	3.9 3.4 3.5 4.1 2.2 3.4 .5	3.5 2.9 3.1 3.6 1.7 3.4	4.6 6.3 7.1 6.8 1.9 5.0 3.1	4.7 6.7 7.1 7.1 1.7 5.2 3.0	0.7 2.9 3.4 2.6 3 1.5 2.5	1.1 3.7 3.9 3.5 .0 1.8 2.9	3.6 3.8 3.7 6.7 5.7 8.1 7.0	3.4 3.1 3.3 5.9 5.8 7.8 6.8	2.2 2.4 2.1 3.8 2.5 3.7 1.4	2.1 1.8 1.7 3.0 2.7 3.5 1.3	-0.3 .4 .2 2.6 3.4 4.5 6.4	-0.1 .2 .2 2.3 4.0 4.3 6.6	0.5 1.1 1.6 2.5 2.7 4.0 4.6	0.7 1.3 1.3 2.3 3.2 3.9 4.5
1970	2.0 4.1 3.2 3.1 -1.7 3.5 3.2 1.7 1.1 1	1.5 4.0 3.3 3.1 -1.6 2.8 3.3 1.6 1.3 4	.0 3.8 6.4 7.0 -1.5 9 6.6 5.6 6.3 3.3	1 3.8 6.6 7.3 -1.5 -1.6 7.0 5.6 6.6 3.2	-2.0 3 3.1 3.8 .2 -4.3 3.3 3.8 5.1 3.4	-1.6 2 3.2 4.1 -4.3 3.6 3.9 5.2 3.6	7.7 6.3 6.3 8.4 9.6 10.2 8.6 8.0 8.7	7.2 6.4 6.5 8.1 9.8 10.1 8.4 8.1 8.8 9.4	1.9 1.8 3.0 2.1 -1.3 1.0 2.7 1.4 1.5	1.4 1.9 3.2 1.8 -1.2 .9 2.5 1.5 1.7	5.6 2.1 3.0 5.2 11.5 6.5 5.3 6.2 7.5 9.6	5.6 2.3 3.1 4.9 11.6 7.1 4.9 6.5 7.4 9.9	4.3 4.2 3.6 5.2 9.7 9.7 5.3 6.0 7.1 8.5	4.4 4.3 3.2 3.5 10.3 10.7 5.5 6.3 6.7 8.5
1980 1981 1982 1983 1984 1985 1986 1987 1988	2 2.1 8 3.6 2.7 2.3 2.9 .3 1.5	-3 1.4 -1.1 4.4 2.0 1.6 3.1 3.1 1.6	-1.1 2.8 -3.0 5.4 8.7 4.6 3.7 3.3 4.3	-1.1 2.1 -3.2 6.4 8.2 4.3 3.9 3.3 4.6 3.5	9 .7 -2.3 1.8 5.8 2.3 .8 3.0 2.7 2.6	8 .7 -2.2 1.9 6.1 2.6 .8 3.0 2.9 2.7	10.7 9.5 7.2 4.1 4.2 4.7 5.1 3.6 5.2 2.7	10.7 9.7 7.1 4.2 4.1 4.4 5.2 3.6 5.0 2.6	4 .0 1.1 1 .1 1.2 3.3 .2 1.5 -1.6	4 .1 1.0 1 .0 1.0 3.4 .2 1.3	10.9 7.3 8.1 .5 1.5 2.4 2.2 3.3 3.7 1.6	11.0 8.1 8.3 -2 2.0 2.8 2.1 3.3 3.3 1.8	9.0 9.2 5.7 3.4 2.9 2.4 1.6 2.4 3.2 3.7	9.6 9.6 6.2 3.2 2.9 1.7 2.4 3.0 3.6
1990	2.1 1.5 4.2 .5 .9 .0 2.9 1.8 3.0 3.5	1.8 1.5 4.0 .6 1.0 .4 2.6 1.5 2.9 3.3	1.5 9 3.9 3.2 4.9 2.8 4.6 5.2 5.0 5.6	1.4 9 3.8 3.5 4.7 3.2 4.4 5.1 5.1	6 -2.4 2 2.7 4.0 2.8 1.6 3.4 2.0 2.0	4 -2.4 2 2.9 3.6 2.8 1.8 3.5 2.1 2.2	6.4 5.1 5.3 2.2 1.5 2.1 3.4 3.2 6.1 4.5	6.2 5.3 5.4 2.0 1.8 2.1 3.3 3.1 6.0 4.3	1.4 1.5 2.7 2 6 3 .7 1.1 4.6 2.4	1.1 1.6 2.8 4 3 3 .6 .9 4.5 2.2	4.2 3.5 1.1 1.7 .6 2.0 .5 1.5 3.0	4.3 3.7 1.3 1.4 .8 1.7 .7 1.6 3.0	3.6 3.3 1.9 2.0 1.7 1.8 1.6 1.6	3.7 3.5 2.0 2.0 1.8 1.8 1.4 1.9 .8
2000	3.5 3.0 4.5 3.9 2.8 1.7 .9 1.5 .7	3.4 2.9 4.6 3.7 2.6 1.6 .9 1.5 .6 2.9	4.5 .8 2.0 3.1 4.0 3.4 3.0 2.0 -1.3 -4.3	4.4 9 1.9 3.1 4.0 3.4 3.1 2.1 -1.5 -4.5	1.0 -2.1 -2.4 7 1.2 1.7 2.1 .5 -2.0 -7.2	1.0 -2.0 -2.5 6 1.3 1.7 2.2 .5 -2.1 -7.2	7.4 4.7 3.1 4.8 3.5 3.9 3.8 4.1 3.3 1.4	7.4 4.5 3.2 4.7 3.3 3.9 3.8 4.0 3.4	3.9 1.8 1.5 2.5 .7 .5 .5 1.2 5 1.8	4.0 1.6 1.5 2.4 .6 .6 .5 1.1 4	3.7 1.7 -1.3 .9 .7 2.2 2.8 2.6 2.6 -1.6	3.9 1.5 -1.3 1.0 .7 2.3 2.8 2.4 2.8 -1.5	1.8 1.8 1.4 2.6 3.2 2.9 2.6 1.8	1.9 1.7 .9 1.2 2.4 3.5 3.0 2.3 1.8 .8
2010 2011 2009: I II IV	3.0 .4 5.3 7.1 5.8 5.0	3.1 .7 5.5 6.8 5.2 5.0	3.0 2.4 -5.0 -2.3 .7 4.9	3.1 2.6 -5.0 -2.5 .3 5.2	.0 1.9 -9.8 -8.7 -4.8 1	.0 1.9 –9.9 –8.7 –4.7 .3	2.0 2.6 -3.1 6.5 2.3	2.0 2.7 -3.2 6.7 2.0	.3 5 7 4.5 -1.3 -2.1	.4 5 7 4.7 -1.6 -2.1	-1.0 2.2 -8.0 5 -3.3 -4.0	-1.0 2.0 -8.2 2 -3.1 -3.9	1.5 2.2 -1.4 .0 1.5 1.6	1.4 1.9 9 .0 1.9 1.0
2010:	2.2 6 3.2 1.5 -2.5	2.7 5 3.3 1.9	3.1 2.9 4.7 3.4	3.3 2.8 5.1 3.9	3.5 1.4 1.9 2.1	.6 3.3 1.7 1.9	1.1 2.5 2.0 .3	1.4 2.7 1.8 .5	2.8 2.8 .6 -2.6	.5 3.1 .4 -2.4	-1.1 3.1 -1.1 -1.1 11.7	-1.3 3.3 -1.4 -1.4 11.3	1.4 1.8 1.7 2.4	1.2 1.8 1.4 1.8
2012:	-2.5 1.1 .5 2.9 6 1.7 2.5	-2.0 1.2 .6 2.8 5 1.9 2.9	5 2.9 1.7 5.4 2.7 1.9 3.6	7.1 3.4 1.6 5.3 2.7 2.1 4.2	1.8 1.2 2.5 3.3 .2 1.1	2.2 1.0 2.4 3.2 .2 1.3	5.6 3 6 5.6 1.3	9.1 2 .0 7 5.8 1.3	4.1 -4.0 -3.4 -1.9 3.1 .6 -1.3	-4.4 -3.1 -1.9 3.3 .6 -1.4	9 8 -3.4 6.3 4 -1.5	-1.3 -1.3 6 -3.3 6.4 5 -1.9	3.0 3.5 1 1.7 1.5 3.2	2.8 3.5 .1 1.9 1.6 2.8

¹ Output refers to real gross domestic product in the sector.

¹ Output reters to real gross comesure product in the sector. See footnote 2, Table B-49.
2 Hours at work of all persons engaged in the sector, See footnote 2, Table B-49.
3 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.
4 Hourly compensation divided by a consumer price index. See footnote 4, Table B-49.
5 Current dollar output divided by the output index.

Note: Percent changes are calculated using index numbers to three decimal places and may differ slightly from percent changes based on indexes in Table B–49, which are rounded to one decimal place.

PRODUCTION AND BUSINESS ACTIVITY

Table B-51. Industrial production indexes, major industry divisions, 1965-2012

[2007=100; monthly data seasonally adjusted]

		Total		Manufa	acturing			
	Year or month	industrial production ¹	Total ¹	Durable	Nondurable	Other (non-NAICS) ¹	Mining	Utilities
1966 1967 1968		31.5 34.3 35.0 37.0 38.7	28.5 31.1 31.7 33.5 34.9					
1970 1971 1972 1973		37.4 37.9 41.6 45.0 44.9	33.4 33.9 37.4 40.8 40.7	25.5 28.7 28.5	57.2 59.9 60.1	75.3 77.7 78.2	106.3 106.9 105.4	46.4 49.1 48.9
1975 1976 1977 1978		40.9 44.1 47.4 50.1 51.6	36.4 39.7 43.1 45.8 47.2	24.7 27.0 29.7 32.1 33.6	55.7 60.8 64.9 67.3 67.7	74.4 76.7 84.1 87.0 88.8	102.8 103.6 106.0 109.3 112.6	49.8 52.1 54.2 55.6 56.8
1980 1981 1982 1983		50.3 50.9 48.3 49.6 54.1	45.5 46.0 43.5 45.6 50.0	32.2 32.5 29.7 31.2 35.6	65.7 66.3 65.3 68.4 71.5	91.9 94.1 95.1 97.8 102.3	114.6 117.6 111.8 105.9 112.7	57.3 58.1 56.2 56.7 60.0
1985 1986 1987 1988		54.7 55.3 58.1 61.1 61.7	50.9 52.0 54.9 57.9 58.3	36.4 37.0 39.2 42.1 42.6	71.9 74.0 78.0 80.6 81.1	106.3 108.4 114.7 114.2 112.5	110.5 102.5 103.5 106.1 104.9	61.3 61.8 64.7 68.4 70.6
1991 1992 1993 1994		62.3 61.3 63.0 65.1 68.5 71.8	58.8 57.6 59.7 61.8 65.5 68.9	42.8 41.4 43.6 46.0 49.9 54.1	82.4 82.1 84.2 85.4 88.4 89.9	111.2 106.6 104.5 105.2 104.3 104.3	106.4 104.1 101.8 101.7 104.1 104.0	71.9 73.7 73.6 76.2 77.7 80.5
1996 1997 1998 1999		71.6 75.0 80.4 85.1 88.7 92.3	72.2 78.3 83.5 87.6	54.1 58.9 66.0 72.9 79.1 84.9	90.2 93.5 94.9 95.5	104.3 103.4 112.1 118.8 122.2	104.0 105.7 107.7 105.7 100.2	82.8 82.8 84.9 87.4 89.9
2001 2002 2003 2004 2005 2006 2007 2008		89.1 89.3 90.4 92.5 95.5 97.6 100.0 96.5	87.6 87.8 88.9 91.4 95.0 97.4 100.0 95.2 82.0	80.9 80.9 82.9 86.2 91.2 95.4 100.0 96.3 78.0	93.1 94.2 94.4 95.9 98.3 98.8 100.0 94.1	114.0 110.2 106.9 107.8 107.5 106.2 100.0	103.3 98.4 98.7 98.1 97.0 99.4 100.0 101.0	89.5 92.3 94.1 95.3 97.3 96.7 100.0 99.9 97.5
2010 2011 2012		85.4 90.1 93.7 97.1	86.7 90.5 94.1	86.0 92.6 99.4	86.8 88.7 90.1 91.0	80.7 76.5 71.6 69.3	95.8 100.7 107.0 112.9	100.9 100.6 98.9
2011:	Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec Dec Mar Arrivative Arrivativ	92.5 92.3 93.1 92.6 92.9 93.1 94.2 94.4 94.9 95.1	89.2 89.4 90.0 89.5 89.7 90.4 90.7 91.1 91.5 91.5	90.3 91.1 91.8 90.9 91.6 91.7 92.5 93.1 93.5 94.3 96.2	89.8 89.5 90.1 89.9 89.6 89.7 90.4 90.2 90.6 90.6 90.1	73.8 72.6 71.5 70.8 70.9 69.4 69.6 71.2 71.8 72.2 72.2	103.5 101.8 104.2 105.1 106.0 106.3 107.9 107.8 110.2 111.8	101.9 100.6 100.9 99.7 100.1 100.7 103.1 102.3 101.2 100.0 100.2 96.6
2012:	Jan	96.6 97.1 96.5 97.3 97.3 97.9 97.0 97.0 97.8 98.8	93.8 94.6 94.0 94.0 94.3 94.3 93.8 93.9 93.1 94.3	98.0 99.3 99.0 100.2 99.7 100.3 100.6 99.2 98.9 98.3 100.4	91.7 92.0 91.0 91.2 90.5 90.6 91.0 90.6 91.2 90.4 90.7	72.6 72.9 71.7 71.1 70.1 69.1 68.6 68.8 68.0 64.5 66.3 67.5	113.1 111.0 110.8 111.6 111.4 111.6 113.0 112.1 113.8 115.2 115.5	94.8 95.9 95.3 97.5 102.7 99.9 102.8 100.6 99.7 101.0 101.2

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, 1965-2012

[2007=100; monthly data seasonally adjusted]

					Final pr		uata so	,		_	dustrial su	upplies		Materials	
	Total indus-			Consume	er goods		Е	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
1965	duction 31.5 34.3 35.0 34.3 35.0 38.7 37.0 38.7 37.0 41.6 0 44.0 9 44.1 51.6 65.0 50.9 56.5 57.8 8.1 66.7 76.0 77.8 8.7 78.0 90.1 90.5 56.5 95.5 95.5 95.5 95.5 95.5 95.5 95	30.1 33.0 33.3 35.9 37.1 36.1 39.1 42.2 42.1 39.1 42.6 46.0 48.8 450.5 50.3 57.0 60.6 66.2 66.2 66.2 66.2 66.2 66.2 66	39.5 41.5 42.5 42.5 42.5 42.5 42.5 53.6 68.7 7.5 59.2 68.7 71.5 71.9 774.0 60.1 60.1 60.9 60.9 60.9 60.9 60.9 60.9 60.9 60.9	motive products 32.4 32.3 32.4 32.3 33.8 33.9 286.4 36.9 39.3 40.4 45.7 45.4 40.8 31.5 57.2 50.8 47.8 47.0 47.0 47.0 47.0 47.0 47.0 47.0 47.0	dur- able goods 27.7 30.5 30.9 30.9 33.1 35.3 34.1 35.3 34.2 41.5 44.6 41.8 44.7 45.0 45.7 50.6 60.1 50.9 60.1 65.1 83.1 83.1 83.1 89.0 99.0 99.9 99.9 99.9 99.9 90.2 76.5 76.5 78.9 98.2	dur- able goods 44.6 46.7 49.1 51.0 52.8 53.7 60.6 63.2 65.6 67.9 67.5 67.6 67.9 67.1 78.9 71.3 72.2 87.7 88.2 88.2 87.3 88.2 87.3 88.2 87.3 89.3 89.5 99.5 99.3 99.4 99.3 99.3 99.3 99.3 99.3 99.3	18.3 21.3 22.6 23.3 23.9 22.2 20.8 22.7 22.8 26.2 29.3 38.0 38.0 38.0 38.0 38.0 38.0 38.0 38	13.5 15.7 16.0 16.7 17.8 17.1 16.3 21.5 22.2 23.3 21.6 6.2 33.5 30.8 35.4 42.6 44.1 44.9 46.7 7.2 6.3 71.4 7.5 6.2 7.7 100.0 9.7 6.0 83.4 89.6 8.3 9.7 82.2 7.8 0.7 10.0 0.0 9.7 6.0 10.0 9.7 6.0 10.0 9.7 6.0 10.0 9.7 6.0 10.0 9.7 6.0 10.0 9.7 6.0 10.0 9.7 6.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0	fense and space 49.5 58.2 66.4 4 66.5 63.3 3 53.6 66.2 4 66.9 53.1 53.5 53.5 75.6 67.2 110.3 106.4 74.8 75.6 67.2 77.2 77.2 77.2 77.2 77.2 77.2 77	31.6 33.5 33.5 33.5 33.5 33.5 33.5 33.5 33	42.8 44.6 44.6 7 48.1 50.2 44.6 6 6 6 6 6 6 6 6 6 6 6 6 7 7 1 8 7 7 9 9 6 7 6 6 7 0 1 8 7 9 9 6 7 6 6 9 9 8 7 7 8 9 9 9 7 2 9 9 9 7 7 2 6 6 9 9 9 7 7 6 6 9 9 9 7 7 6 6 9 9 7 6 6 9 8 0 1 7 6 6 9 8 0 1 7 6 6 9 8 0 1	27.2 29.3 30.8 83.2 7 34.8 34.9 36.0 39.6 44.7 44.7 44.7 44.7 44.6 66.3 66.4 66.9 69.0 69.0 95.9 91.9 93.4 99.5 37 91.7 83.2 28.7 87.9 68.7 87.9 68.7 87.9 68.7 87.9 69.0 95.9 90.3 93.4 99.5 93.4 99.5 93.4 99.5 93.4 99.5 93.4 99.5 93.4 99.5 93.4 99.5 93.4 99.5 93.4 99.5 93.4 99.5 93.4 99.5 93.4 99.5 93.4 99.5 93.4 99.5 93.4 99.5 93.4 99.5 93.4 99.5 93.4 99.5 93.4 99.5 93.4 99.5 93.4 99.5 93.4 99.5 93.4 99.5 93.4 99.5 93.4 99.5 93.4 99.5 93.4 99.5 93.4 99.5 93.4 99.5 93.4 99.5 93.4 99.5 93.4 99.5 93.4 99.5 93.4 99.5 93.4 99.5 93.4 99.5 93.4 99.5 93.4 99.5 93.4 99.5 93.9 93.4 99.5 93.9 93.4 99.5 93.9 93.4 99.5 93.9 93.4 99.5 93.9 93.9 93.9 93.9 93.9 93.9 93.9	32.1 35.0 34.7 37.0 39.2 34.7 37.0 39.2 42.2 2 42.2 44.4 44.4 44.9 49.5 13.3 49.6 64.7 75.5 57.9 68.4 45.8 87.4 87.7 88.7 77.8 88.7 4.9 94.6 68.4 77.9 97.3 88.7 4.9 94.6 68.1 93.3 69.1 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 10.0 0 97.3 1		61.4 65.3 70.6 74.2 77.9 78.5 81.5 83.5 83.2 87.0 88.0 90.4 91.4 91.4 91.4 91.4 91.4 91.4 91.4 91
2011 Jan Feb Mar Apr Apr June July Aug Sept Oct. Nov Dec 2012 Jan Feb Mar Apr May June July Aug Apr May Duny Feb Mar Apr May June July Aug Aug Det P Oct P	92.5 92.3 93.1 92.6 92.9 93.1 93.9 94.4 94.9 95.1 96.6 97.1 96.5 97.3 97.3 97.3 97.2 96.8	91.5 91.7 92.0 91.7 92.3 92.3 93.6 93.9 94.5 94.2 95.5 96.2 96.2 96.8 96.9 96.9 96.9 96.9 96.9	93.0 90.7 90.7 91.1 90.8 91.3 91.2 92.2 92.5 92.9 92.5 92.9 93.3 92.9 93.3 92.9 93.4 93.4 93.4 93.4 93.4 93.4 93.4	85.5 88.8 91.8 87.6 88.5 92.4 95.0 98.8 96.5 99.5 104.2 104.5 105.8 102.5 100.6 100.5 100.6	72.6 78.7 79.3 78.3 79.1 78.4 79.5 79.5 80.8 81.0 81.9 82.1 82.3 81.6 82.1 83.8	93.6 92.9 92.8 93.3 93.6 93.7 94.2 94.0 93.5 93.4 92.0 92.0 92.6 93.3 93.9 93.9 93.0 92.6	93.2 94.0 94.0 94.7 94.7 95.3 96.4 96.9 98.2 99.6 101.3 102.9 103.0 103.9 105.3 105.3 105.3 105.0 103.1	91.3 92.1 92.0 91.4 92.5 92.6 93.0 94.1 94.6 95.9 96.5 97.5 101.0 102.6 102.9 104.8 105.0 104.2 104.0 102.6	113.4 107.8 108.6 108.7 109.7 109.7 109.6 110.9 112.3 111.7 112.0 114.8 114.7 114.0 113.5 113.0 115.4 113.6 114.1	83.6 83.5 84.1 83.9 84.6 84.4 85.2 85.3 85.5 85.4 86.2 86.8 87.6 87.2 86.7 86.7 86.7	74.5 74.2 75.2 75.4 76.5 76.6 77.5 77.1 77.3 77.9 80.2 82.0 81.1 81.7 79.7 79.8 80.4 79.7 79.3 79.3 79.3 79.3	88.1 88.1 88.5 88.1 88.5 88.2 88.9 89.3 89.6 90.3 89.6 90.4 90.8 90.8 91.2 90.5 90.3 89.6	96.5 95.9 97.2 96.6 96.5 96.9 97.8 97.8 98.0 98.7 99.4 100.5 101.2 101.2 101.3 101.1 102.2 101.0 101.2	91.3 92.1 91.1 91.2 91.2 91.8 91.6 92.2 92.3 94.7 95.4 96.3 95.3 96.0 95.0 95.0 95.0	104.1 104.1 105.3 105.3 105.3 106.0 107.5 108.0 107.4 109.9 110.5 109.3 110.0 111.3 110.4 111.3 110.4 111.3 111.4

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, 1972-2012

[2007=100; monthly data seasonally adjusted]

				Jurable ma		ig				No	ndurable i	manufactu	ring	
Year or month	Prin me	nary tals	Fabri-		Compu elect prod		Transpo equip	ortation ment			Printing		Plastics	
real of monut	Total	Iron and steel prod- ucts	cated metal prod- ucts	Ma- chinery	Total	Se- lected high- tech- nology ¹	Total	Motor vehi- cles and parts	Apparel	Paper	and sup- port	Chemi- cals	and rubber prod- ucts	Food
1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1983 1984 1985 1987 1988 1990 1990 1991 1992 1993 1990 1991 1992 1993 1995 1999 1999 2000 2001 2002 2005 2006 2007 2008	110.2 128.2 131.4 101.9 108.2 118.9 104.4 104.5 75.7 74.9 80.7 74.9 80.7 90.3 88.2 87.1 81.8 83.8 87.9 94.6 95.6 97.9 102.0 103.8 103.7 100.3 89.8 97.7 99.3	114.0 136.7 146.0 108.3 1112.4 109.8 117.9 122.1 103.5 107.3 66.0 66.5 73.3 68.0 66.4 75.6 88.0 88.9 83.9 76.7 80.3 98.3 98.2 98.6 97.6 98.3 98.2 98.3 98.2 98.3 98.3 98.3 98.2 98.4 101.7 98.4 100.0	60.3 66.6 66.6 65.4 4 66.5 66.6 66.6 66.6 66	56.4 65.2 68.3 59.5 62.1 67.8 73.1 73.4 72.7 60.8 54.9 64.0 64.2 63.2 64.5 71.0 73.7 71.9 67.3 77.3 87.8 92.6 94.9 93.0 97.7 86.4 83.3 82.8 86.3 91.0 95.9 100.0	0.8 9.9 1.0 9.1 1.1 1.3 1.7 2.0 2.5 2.9 9.3 3.2 3.4 6.4 4.9 1.5 8.8 6.5 6.6 6.6 6.6 6.6 6.6 6.6 6.6 6.6 6.6	0.1 2 2 2 2 3 3 3 4 5 5 7 7 1.5 1.5 1.5 1.9 2.3 2.7 3.0 3.0 4.2 5.3 7.5 10.7 15.8 22.0 31.6 42.2 53.4 44.6 60.6 71.1 185.0 10.0 110.1	47.1 53.8 49.6 50.3 54.7 58.2 52.1 50.2 50.2 50.3 60.9 67.7 66.0 68.6 69.9 67.7 74.1 88.3 88.3 88.3 88.3 89.3 93.0 94.2 100.0 60.0	43.3 42.6 42.6 47.3 53.8 561.1 37.9 56.1 37.9 56.1 37.9 56.1 56.1 56.1 56.1 56.1 56.1 56.1 56.1	276.1 284.5 264.9 259.2 2773.7 291.2 299.6 284.1 288.3 286.7 290.6 299.5 304.2 292.8 296.7 299.0 274.6 276.5 282.3 285.3 285.1 286.1 276.5 282.3 285.3 285.1 286.1 276.5 282.3 285.1 285.1 286.1 286.1 276.5 282.3 285.1 285.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 286.1 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102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8 102.8	55.6 55.8 56.3 55.3 59.7 60.8 62.7 62.1 63.2 64.0 66.5 71.1 73.7 75.5 75.7 78.1 79.5 81.1 83.1 84.0 85.8 84.0 95.6 95.6 95.6 95.6 95.6 95.6 95.6
2009 2010 2011 2012 <i>P</i>	74.0 90.8 96.8 99.2	68.5 89.0 97.1 100.9	74.2 79.3 87.2 93.6	75.8 84.5 94.3 100.8	92.9 103.0 111.1 115.2	96.0 110.2 116.9 114.8	73.4 84.7 92.1 104.9	58.6 77.7 86.9 102.3	55.7 55.6 54.3 52.6	85.4 87.2 86.0 83.7	78.8 78.9 75.4 74.4	83.4 86.3 86.7 86.8	75.8 82.5 89.4 92.6	98.2 98.0 100.3 102.8
2011: Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec 2012: Jan Feb Mar Apr May June July Aug June July Aug Sept Oct Nov Dec Dec Pot Mar Apr May June July Aug Pot Pot Pot Pot Pot Pot Pot Pot Mar Nov Pot	95.6 95.1 96.5 96.0 95.5 94.3 95.2 95.8 96.7 97.2 100.4 103.0 100.1 102.3 100.2 96.8 99.1 98.8 93.8 93.1 93.8	96.3 95.1 96.4 93.9 93.3 93.9 93.8 97.4 96.5 102.3 109.1 107.9 106.6 105.2 96.9 97.2 99.1 89.2 90.6 99.6	84.1 85.9 86.7 88.0 88.6 88.6 88.3 87.9 88.4 90.3 91.2 92.6 93.2 93.7 94.7 94.1 94.4 93.7 94.3 94.3	94.1 94.2 93.6 92.5 93.4 94.3 94.3 94.1 94.6 95.4 98.0 99.5 101.0 102.2 102.5 102.1 104.6 97.6 99.7	109.9 109.9 109.4 110.8 110.2 111.5 112.6 112.4 111.3 112.0 114.0 114.7 116.4 116.7 116.5 114.7 116.5 114.7	117.9 116.8 115.5 116.3 117.5 118.2 118.0 119.2 117.4 114.6 115.6 115.6 115.6 115.6 115.6 115.6 115.4 116.9 115.4 112.2 113.7	86.6 89.0 91.3 88.5 89.2 89.5 91.4 93.9 97.0 96.8 98.3 101.8 104.2 105.8 104.2 105.0 104.7 108.1	81.4 85.1 88.6 82.8 83.2 83.3 85.9 87.6 88.3 92.1 100.2 101.1 104.2 102.2 102.9 104.9 106.4 102.7 101.1 101.1 101.1	56.4 56.7 54.7 55.9 55.6 54.1 53.8 52.1 53.1 53.1 53.1 52.4 54.9 54.9 54.9 55.8 52.7 52.4 50.3 50.1 51.3 52.4 50.3 50.3 50.3	88.2 87.0 87.2 86.7 85.8 85.5 85.4 84.5 86.1 85.2 86.1 85.4 86.0 84.4 85.2 82.3 82.3 82.3 82.3 83.1 83.0	76.9 77.5 76.8 76.9 76.4 75.9 75.3 74.5 73.0 74.2 75.4 75.4 75.4 75.3 75.4 75.3 75.4 74.6 75.0 75.3 77.4 77.3 77.4 77.3 77.4 77.4 77.4 77	87.2 86.6 87.8 86.8 86.8 86.0 86.3 86.4 87.1 86.6 88.1 87.2 87.5 87.2 86.0 86.3 86.3 86.9 86.7 86.7	87.2 87.6 87.9 88.8 89.3 89.0 90.5 90.2 90.7 90.0 90.9 91.4 92.5 91.4 92.1 94.0 92.4 92.2 92.2 92.2 94.7	99.4 99.4 99.6 100.6 99.9 100.3 100.3 100.5 100.8 101.5 102.1 102.1 102.0 102.3 103.7 103.9 104.4 102.1 102.1

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, 1965-2012

				facturing	y data seasonai	ry dajaotoaj		S	tage-of-proce	SS
Year or month	Total industry ²	Total ²	Durable goods	Nondurable goods	Other (non-NAICS) ²	Mining	Utilities	Crude	Primary and semi- finished	Finished
1965 1966 1967	87.0	89.5 91.1 87.2	87.5	86.3		81.2	94.5	81.1	91.0 91.4 85.0	88.8 91.1 88.2
1968 1969	87.3 87.4	87.1 86.6	87.4 87.1	86.5 86.1		83.6 86.7	95.1 96.8	83.4 85.6	86.8 88.1	87.1 85.6
1970 1971 1972 1973 1974 1975 1976 1977 1978	81.3 79.6 84.7 88.3 85.1 75.8 79.8 83.4 85.1 85.0	79.4 77.9 83.4 87.7 84.4 73.7 78.3 82.5 84.4 84.0	77.8 75.5 82.1 88.6 84.7 71.7 76.4 81.2 83.8 84.1	82.1 81.7 85.2 86.6 84.2 76.1 81.1 84.3 85.1 83.8	85.7 84.7 82.7 77.3 77.6 83.2 85.0 85.6	89.2 87.8 90.7 91.6 91.0 89.3 89.4 89.5 89.7 91.3	96.3 94.7 95.3 93.3 86.9 85.1 85.5 86.6 86.9 87.0	85.1 84.3 88.4 90.0 90.9 83.9 86.9 89.1 88.7 89.9	81.4 81.6 88.1 92.1 87.3 75.2 80.1 84.6 86.3 85.9	78.1 75.7 79.6 83.3 80.3 73.7 76.8 79.9 82.1 81.7
1980 1981 1982 1983 1984 1985 1986 1986 1987	80.7 79.5 73.6 74.9 80.4 79.2 78.7 81.2 84.3 83.8	78.6 76.9 70.8 73.4 79.3 78.1 78.4 81.0 84.0 83.3	77.5 75.1 66.4 68.7 76.9 75.7 75.4 77.6 82.1 81.9	79.6 78.8 76.3 79.4 82.1 80.5 81.8 84.7 86.1 85.0	86.8 87.5 87.3 87.9 89.5 90.4 88.8 90.6 88.6 85.4	91.4 90.9 84.2 79.8 85.9 84.4 77.6 80.3 84.3 85.0	85.5 84.4 80.2 79.6 82.2 81.9 81.1 83.6 86.7 86.9	89.4 89.3 82.3 79.9 85.7 83.8 79.1 82.8 86.3 86.7	78.8 77.2 70.5 74.5 81.2 79.9 79.8 82.8 85.9 84.7	79.3 77.4 73.0 73.0 77.2 76.6 77.1 78.7 81.8 81.7
1990 1991 1992 1993 1994 1995 1996 1997 1998	82.5 79.8 80.6 81.4 83.6 84.0 83.4 84.2 82.8 81.7	81.7 78.5 79.6 80.4 82.8 83.2 82.2 83.1 81.6 80.4	79.6 75.3 77.2 78.5 81.6 82.3 81.6 82.4 80.6 79.9	84.2 82.3 82.7 82.7 84.5 84.6 83.3 83.9 82.4 80.4	83.7 80.7 80.0 81.3 81.4 82.2 80.6 85.6 86.9 87.1	86.6 85.0 84.7 85.5 87.0 87.6 90.3 91.5 89.0 85.8	86.5 87.9 86.4 88.3 88.4 90.9 90.4 92.7 94.2	87.7 85.2 85.5 85.7 87.9 88.8 89.1 90.6 87.2 86.1	82.7 79.9 81.6 83.3 86.4 85.6 85.1 84.2 84.1	80.7 78.2 78.1 78.2 79.2 80.0 79.4 80.4 80.2 78.0
2000	81.5 76.1 74.9 76.0 77.9 79.9 80.3 80.4 77.3 68.6	79.8 73.7 72.9 73.9 76.2 78.2 78.5 78.5 74.3 65.5	79.4 71.2 69.9 71.1 73.7 75.9 77.1 77.9 74.2 61.0	79.3 75.9 76.1 76.7 78.5 80.3 80.0 79.4 74.1 70.5	87.3 82.6 81.4 81.4 82.9 82.8 81.3 77.4 77.3	90.6 90.2 86.1 88.2 88.5 90.2 89.2 89.5 80.3	93.9 89.6 87.6 85.7 84.5 85.1 83.2 85.7 84.0 80.8	88.6 85.6 83.0 84.8 86.2 86.3 87.7 88.2 86.6 78.0	84.0 77.3 77.1 78.1 80.0 81.8 81.4 80.8 76.5 65.9	76.9 72.4 70.7 71.5 73.1 75.2 76.0 76.9 73.9 68.4
2010 2011 2012 ^p	73.7 76.8 78.7	71.2 75.0 77.2	68.4 73.6 77.4	75.1 77.7 78.3	67.2 63.8 63.2	83.9 87.4 90.2	81.1 77.7 74.6	83.6 85.8 87.9	71.5 74.2 75.7	72.4 76.0 77.9
2011: Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec 2012: Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec 2012: Jan Feb Mar Apr June July Aug June July Aug June July Aug Feb Nov Dec Sept Oct Nov Dec	76.1 75.9 76.5 76.1 76.3 77.0 77.1 77.2 77.6 77.7 78.3 78.4 79.0 78.8 78.9 78.8 78.3 78.3 78.4 79.0 78.8 78.3	74.0 74.2 74.7 74.3 74.4 75.0 75.2 75.5 75.8 75.7 76.8 77.4 77.5 76.8 77.4 77.5 76.8 76.8 76.8 76.8 76.8 76.8 76.8 76.8	72.1 72.7 73.3 73.0 73.0 73.5 73.9 74.1 74.6 74.8 75.8 77.0 77.9 77.5 78.0 78.0 76.8 76.8 76.8 76.8 76.8 77.7 77.7 77.2 77.2	77.1 77.0 77.5 77.5 77.2 77.2 78.0 78.1 78.2 77.7 78.9 79.0 79.3 78.4 78.7 77.9 78.0 78.3 77.9 77.9 78.9	65.3 64.3 62.9 63.1 61.8 62.1 63.7 64.3 64.7 64.8 65.6 65.4 65.8 64.9 63.0 62.7 63.0 62.7 63.0 62.7	85.7 84.0 85.7 86.3 86.8 86.8 87.0 87.7 87.7 89.3 90.4 91.0 91.2 89.3 89.2 90.2 89.3 90.4 91.5 91.5	79.8 78.5 78.5 78.5 77.5 77.4 78.6 76.6 76.6 73.7 72.2 72.3 73.8 75.4 75.6 75.6 75.6 75.6 75.6	85.2 83.9 85.2 84.9 84.8 85.0 85.3 85.7 87.7 87.6 89.0 87.0 87.9 87.9 87.9 87.9 87.9 88.2 88.7 88.8	73.7 73.6 73.6 73.8 73.8 73.7 74.7 74.7 75.1 75.1 75.0 75.6 75.2 75.6 75.6 75.6	74.7 75.2 75.6 75.6 75.5 76.1 76.5 77.2 78.4 78.5 78.1 78.0 78.3 77.4 77.5 76.4 77.7

¹ Output as percent of capacity. ² See footnote 1 and Note, Table B–51.

TABLE B-55. New construction activity, 1968-2012

[Value put in place, billions of dollars; monthly data at seasonally adjusted annual rates]

		[value pu	t III place,	DIIIIUIIS U				SUIIAIIY AL	ijusteu an	nual rates			*:
	Total				Priva	ate constru					Pub	lic construc	TION
Year or month	new con-		Resid build	ential ings ¹		No	nresidentia other cor	l buildings estruction	and				State
Tour of month	struc- tion	Total	Total ²	New housing units ³	Total	Lodging	Office	Commer- cial ⁴	Manu- factur- ing	Other ⁵	Total	Federal	and local
1968 1969	96.8 104.9	69.4 77.2	34.2 37.2	26.7 29.2	35.2 39.9						27.4 27.8	3.2 3.2	24.2 24.6
1970 1971	105.9 122.4	78.0 92.7	35.9 48.5	27.1 38.7	42.1 44.2						27.9 29.7	3.1 3.8	24.8 25.9
1972	139.1	109.1	60.7	50.1	48.4						30.0	4.2	25.8
1973 1974	153.8 155.2	121.4 117.0	65.1 56.0	54.6 43.4	56.3 61.1						32.3 38.1	4.7 5.1	27.6 33.0
1975	152.6	109.3 128.2	51.6 68.3	36.3 50.8	57.8 59.9						43.3 44.0	6.1	37.2 37.2
1976 1977	172.1 200.5	157.4	92.0	72.2	65.4						43.1	6.8 7.1	36.0
1978 1979	239.9 272.9	189.7 216.2	109.8 116.4	85.6 89.3	79.9 99.8						50.1 56.6	8.1 8.6	42.0 48.1
1980	273.9	210.2	100.4	69.6	109.9						63.6	9.6	54.0
1981	289.1	224.4	99.2	69.4	125.1						64.7	10.4	54.3
1982 1983	279.3 311.9	216.3 248.4	84.7 125.8	57.0 95.0	131.6 122.6						63.1 63.5	10.0 10.6	53.1 52.9
1984	370.2	300.0	155.0	114.6	144.9						70.2	11.2	59.0
1985 1986	403.4 433.5	325.6 348.9	160.5 190.7	115.9 135.2	165.1 158.2						77.8 84.6	12.0 12.4	65.8 72.2
198/	446.6	356.0	199.7	142.7	156.3						90.6	14.1	76.6
1988 1989	462.0 477.5	367.3 379.3	204.5 204.3	142.4 143.2	162.8 175.1						94.7 98.2	12.3 12.2	82.5 86.0
1990	476.8	369.3	191.1	132.1 114.6	178.2						107.5	12.1 12.8	95.4
1991 1992	432.6 463.7	322.5 347.8	166.3 199.4	135.1	156.2 148.4						110.1 115.8	14.4	97.3 101.5
1993 1994	485.5 531.9	358.2 401.5	208.2 241.0	150.9 176.4	150.0 160.4	4.6 4.7	20.0 20.4	34.4 39.6	23.4 28.8	67.7 66.9	127.4 130.4	14.4 14.4	112.9 116.0
1995	548.7	408.7	228.1	171.4	180.5	7.1	23.0	44.1	35.4	70.9	140.0	15.8	124.3
1996 1997	599.7 631.9	453.0 478.4	257.5 264.7	191.1 198.1	195.5 213.7	10.9 12.9	26.5 32.8	49.4 53.1	38.1 37.6	70.6 77.3	146.7 153.4	15.3 14.1	131.4 139.4
1998	688.5	533.7	296.3	224.0	237.4	14.8	40.4	55.7	40.5	86.0	154.8	14.3	140.5
1999 2000	744.6 802.8	575.5 621.4	326.3 346.1	251.3 265.0	249.2 275.3	16.0 16.3	45.1 52.4	59.4 64.1	35.1 37.6	93.7 104.9	169.1 181.3	14.0 14.2	155.1 167.2
2001	840.2 847.9	638.3	364.4	279.4	273.9	14.5	49.7 35.3	63.6	37.8	108.2 110.2	201.9	15.1	167.2 186.8
2002	891.5	634.4 675.4	396.7 446.0	298.8 345.7	237.7 229.3	10.5 9.9	30.6	59.0 57.5	22.7 21.4	109.9	213.4 216.1	16.6 17.9	196.9 198.2
2004	991.4 1,104.1	771.2 870.0	532.9 611.9	417.5 480.8	238.3 258.1	12.0 12.7	32.9 37.3	63.2 66.6	21.4 23.2 28.4	107.0 113.1	220.2 234.2	18.3 17.3	201.8 216.9
2006	1,167.2	911.8	613.7	468.8	298.1	17.6	45.7	73.4	32.3 40.2	129.2	255.4	17.6	237.8
2007 2008	1,152.4 1,067.6	863.3 758.8	493.2 350.3	354.1 230.1	370.0 408.6	27.5 35.4	53.8 55.5	85.9 82.7	40.2 52.8	162.7 182.3	289.1 308.7	20.6 23.7	268.5 285.0
2009	903.2	588.3	245.9	133.9	342.4	25.4	37.3	50.5	56.3	173.0	314.9	28.4	286.5
2010 2011	804.6 778.2	500.6 495.0	238.8 237.0	127.3 123.0	261.8 258.0	11.2 8.2	24.4 22.5	36.5 40.0	39.8 40.6	149.9 146.6	304.0 283.3	31.1 30.4	272.8 252.9
2011: Jan	752.6	464.6	237.7	121.3	226.8	8.0	22.0 21.5	35.4	29.5	131.9	288.1	31.4	256.7
Feb Mar	746.1 753.4	461.5 467.1	231.2 226.8	120.4 120.9	230.4 240.3	8.0 8.1	21.6	36.1 36.9	31.9 35.1	132.9 138.5	284.5 286.3	31.4 31.4	253.1 254.9
Apr	755.4	475.3	236.0 243.1	120.2	239.3 252.3	7.8	21.6 22.9	38.6 39.9	33.3 38.3	137.9 143.2	280.2 280.5	30.4 31.7	249.8 248.8
May June	775.8 786.8	495.3 502.1	236.9	119.3 120.7	265.2	8.0 8.4	23.4	40.9	43.8	148.7	284.6	30.8	253.8
July Aug	763.5 786.3	485.8 501.5	236.9 222.4 232.2	122.2 124.5	263.4 269.3	7.9 8.1	23.4 23.0 23.2	41.7 42.5	41.5 44.2	149.4 151.3	277.7 284.8	30.2 31.8	247.4 253.0
Sept	790.3	507.2	236.5	124.3	270.7	8.2	1 22.6	40.9	46.5	152.4	283.1	29.3	253.8
Oct Nov	795.7 804.0	512.8 520.4	243.7 248.2	125.1 127.2	269.1 272.2	8.2 8.7	23.0 22.6	41.1 41.9	45.4 44.9	151.4 154.1	282.9 283.6	29.2 28.1	253.7 255.5
Dec	820.6	534.6	249.4	129.3	285.2	9.2	23.0	41.9	50.0	161.0	286.1	29.9	256.1
2012: Jan	824.7 820.7	547.5 544.6	249.6 252.6	132.7 135.6	297.9 291.9	9.1 9.0	23.7 23.3	43.6 42.8	44.8 46.6	176.9 170.2	277.2 276.1	26.1 26.7	251.1 249.4
Feb Mar	817.8	544.8	249.5	135.7	295.3	10.2	1 246	43.2	46.8	170.6	273.0	27.1	245.9
Apr May	825.1 838.8	552.3 562.1	254.1 262.6	139.2 142.4	298.2 299.5	10.3 10.4	24.3 25.3 25.4	43.4 44.2	47.9 49.4	172.3 170.2	272.8 276.6	25.5 26.9	247.3 249.8
June	845.1	566.4	271.3	147.2	295.1	10.6	25.4	43.4	48.1	167.6	278.7	25.8	252.8
July Aug	846.6 855.9	572.4 578.0	274.7 282.4	149.6 154.0	297.7 295.5	10.8 10.9	25.7 27.1	43.3 44.4	46.6 47.0	171.2 166.1	274.2 278.0	24.8 25.3	249.4 252.6
Sent	862.2	587.5	290.5	159.0	297.0	10.6	26.8	44.6	48.2	166.8	274.7	23.7	251.0
Oct ^p Nov ^p	868.2 866.0	590.8 589.8	294.2 295.3	165.2 167.2	296.5 294.5	11.1 11.0	26.5 26.3	45.1 44.8	47.7 47.2	166.1 165.2	277.4 276.2	26.0 24.6	251.5 251.7
					20								

Note: Data beginning with 1993 reflect reclassification.

Includes farm residential buildings.
 Includes residential improvements, not shown separately.
 New single- and multi-family units.

⁴ Including farm.
5 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, 1967-2012

[Thousands; monthly data at seasonally adjusted annual rates]

		New housing	units started		N	ew housing ur	nits authorized	1	Nous	
V		Type of s	structure			Type of s	structure		New housing	New
Year or month	Total	1 unit	2 to 4 units ²	5 units or more	Total	1 unit	2 to 4 units	5 units or more	units completed	houses sold
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 1,322.3	694.7	84.3	574.4	1,319.8	490
1969	1,466.8	810.6	85.1	571.2		624.8	85.2	612.4	1,399.0	448
1970 1971	1,433.6 2,052.2	812.9 1,151.0	84.9 120.5	535.9 780.9	1,351.5 1,924.6	646.8 906.1	88.1 132.9	616.7 885.7	1,418.4 1,706.1	485 656
1972	2,356.6	1,309.2	141.2	906.2	2.218.9	1,033.1	148.6	1,037.2	2.003.9	718
1973 1974	2,045.3 1,337.7	1,132.0 888.1	118.2 68.0	795.0 381.6	1,819.5 1,074.4	882.1 643.8	117.0 64.4	820.5 366.2	2,100.5 1,728.5	634 519
975	1,160.4	892.2	64.0	204.3	939.2	675.5	63.8	199.8	1,317.2 1,377.2	549
1976 1977	1,537.5 1,987.1	1,162.4 1,450.9	85.8 121.7	289.2 414.4	1,296.2 1,690.0	893.6 1,126.1	93.1 121.3	309.5 442.7	1,377.2 1,657.1	646 819
1978	2,020.3	1,430.3	125.1	462.0	1,800.5	1,120.1	130.6	487.3	1,867.5	817
1979	1,745.1	1,194.1	122.0	429.0	1,551.8	981.5	125.4	444.8	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 1982	1,084.2 1,062.2	705.4 662.6	91.2 80.1	287.7 319.6	985.5 1,000.5	564.3 546.4	101.8 88.3	319.4 365.8	1,265.7 1,005.5	436 412
983	1,703.0	1,067.6	113.5	522.0	1,605.2	901.5	133.7	570.1	1,390.3	623
984 985	1,749.5 1,741.8	1,084.2 1,072.4	121.4 93.5	543.9 576.0	1,681.8 1,733.3	922.4 956.6	142.6 120.1	616.8 656.6	1,652.2 1,703.3	639 688
1986	1,805.4 1,620.5	1,179.4 1,146.4	84.0	542.0	1,769.4 1,534.8	1,077.6 1,024.4	108.4	583.5 421.1	1,756.4 1,668.8	750 671
987 988	1,620.5 1,488.1	1,146.4 1,081.3	65.1 58.7	408.7 348.0	1,534.8 1,455.6	1,024.4 993.8	89.3 75.7	421.1 386.1	1,668.8 1,529.8	671 676
1989	1,376.1	1,003.3	55.3	317.6	1,338.4	931.7	66.9	339.8	1,422.8	650
1990	1,192.7 1,013.9	894.8	37.6	260.4	1,110.8	793.9	54.3	262.6	1,308.0	534
991	1,013.9	840.4 1,029.9	35.6	137.9	948.8 1,094.9	753.5 910.7	43.1	152.1 138.4	1,090.8	509
992 993	1,199.7 1,287.6	1,029.9	30.9 29.4	139.0 132.6	1,094.9	986.5	45.8 52.4	160.2	1,157.5 1,192.7	610 666
1994	1,457.0	1,198.4	35.2	223.5	1,371.6	1,068.5	62.2	241.0	1,346.9	670
1995 1996	1,354.1 1,476.8	1,076.2 1,160.9	33.8 45.3	244.1 270.8	1,332.5 1,425.6	997.3 1,069.5	63.8 65.8	271.5 290.3	1,312.6 1,412.9	667 757
99/	1,474.0	1,133.7 1,271.4	44.5	295.8 302.9	1,441.1	1,062.4	68.4	310.3	1,400.5 1,474.2	804
1998 1999	1,616.9 1,640.9	1,271.4 1,302.4	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 1,358.6	36.6	292.8	1,636.7	1,235.6 1,332.6	66.0	335.2	1,570.8	908
2002	1,704.9	1,358.6	38.5 33.5	307.9	1,747.7	1,332.6	73.7	341.4	1,648.4	973
2003 2004	1,847.7 1,955.8	1,499.0 1,610.5	42.3	315.2 303.0	1,889.2 2,070.1	1,460.9 1,613.4	82.5 90.4	345.8 366.2	1,678.7 1,841.9	1,086 1,203
2005	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
2008	905.5	622.0	17.5	266.0	905.4	575.6	34.4	295.4	1,119.7	485
2009	554.0	445.1	11.6	97.3	583.0	441.1	20.7	121.1	794.4	375
2010 2011	586.9 608.8	471.2 430.6	11.4 10.9	104.3 167.3	604.6 624.1	447.3 418.5	22.0 21.6	135.3 184.0	651.7 584.9	323 306
2011 2012 P	780.0	535.5	11.1	233.4	815.5	514.2	24.7	276.6	651.4	367
2011: Jan	632 518	433 393		187	566 536	417 379	21	128	523 621	308 273
Feb Mar	600	428		108 161	590	398	16 16	141 176	589	301
Apr	552	414		124	578	401	22	155	542	312
May June	551 615	409 443		136 165	624 633	412 412	21 23 24	191 198	543 580	308 304
July	614	429		176	627	417	24	186	634	297
Aug Sept	581 647	422 422		152 219	645 616	429 428	27 21 24	189 167	617 600	292 306
Oct	630	439		175	667	444	24	199	578	314
Nov Dec	708 697	460 520		239 153	709 701	451 454	23 24	235 223	583 606	327 339
2012: Jan	720	511		193	684	452	20	212	542	339
Feb	718	470		240	707	478	25	204	572	366
Mar	706 747	481 504		215 234	769 723	466 475	25 22 22	281 226	587 663	352 358
Apr May	706	513		178	723 784	490	22	22b 272	605	369
June	754	531		215 211	760	491	21	248	623	360
July Aug	728 750	506 538		211 205	811 801	511 511	21 29 27 27 27 24	271 263	673 682	366 367
Sept	843	590		245	890	550	27	313	659	379
Oct Nov ^p	889 851	589 570		281 268	868 900	566 568	24 28	278 304	739 675	364 398
Dec P	954	616		330	909	573	28	308	686	369

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; and 13,000 for 1967–71.

² Monthly data do not meet publication standards because tests for identifiable and stable seasonality do not meet reliability standards.

Note: One-unit estimates prior to 1999, for new housing units started and completed and for new houses sold, include an upward adjustment of 3.3 percent to account for structures in permit-issuing areas that did not have permit authorization.

TABLE B-57. Manufacturing and trade sales and inventories, 1971-2012

[Amounts in millions of dollars; monthly data seasonally adjusted]

Voor or month		Total manufacturing and trade			anufacturir	ng	W	Merchant holesalers	1		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 1971 1972 1973 1974 1975 1976 1977 1978 1979	116,895 131,081 153,677 177,912 182,198 204,150 229,513 260,320 297,701	188,991 203,227 234,406 287,144 288,992 318,345 350,706 400,931 452,640	1.62 1.55 1.53 1.61 1.59 1.56 1.53 1.54	55,906 63,027 72,931 84,790 86,589 98,797 113,201 126,905 143,936	102,567 108,121 124,499 157,625 159,708 174,636 188,378 211,691 242,157	1.83 1.72 1.71 1.86 1.84 1.77 1.66 1.67	26,492 29,866 38,115 47,982 46,634 50,698 56,136 66,413 79,051	36,568 40,297 46,918 58,667 57,774 64,622 73,179 86,934 99,679	1.38 1.35 1.23 1.22 1.24 1.27 1.30 1.31	34,497 38,189 42,631 45,141 48,975 54,655 60,176 67,002 74,713	49,856 54,809 62,989 70,852 71,510 79,087 89,149 102,306 110,804	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	508,924 545,786 573,908 590,287 649,780 664,039 662,738 709,848 767,222 815,455	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	265,215 283,413 311,852 312,379 339,516 334,749 322,654 338,109 369,374 391,212	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	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	121,078 132,719 134,628 147,833 167,812 181,881 186,510 207,836 219,047 237,234	1.52 1.53 1.49 1.44 1.49 1.52 1.56 1.55 1.54	
1990 1991 1992 <i>NAICS: 6</i>	545,909 542,815 567,176	840,594 834,609 842,809	1.52 1.53 1.48	242,686 239,847 250,394	405,073 390,950 382,510	1.65 1.65 1.54	149,506 148,306 154,150	195,833 200,448 208,302	1.29 1.33 1.32	153,718 154,661 162,632	239,688 243,211 251,997	1.56 1.54 1.52	
NAILS: 9 1992 1993 1994 1995 1996 1996 1997 1998 1999 2000 2001 2002 2003 2004 2004 2005 2006 2007 2008	540,199 567,195 609,854 654,689,33 723,442 742,391 786,178 833,868 818,160 823,234 854,182 924,912 1,003,802 1,066,154 1,124,417 1,124,417	835,900 863,064 926,421 985,369 1,004,743 1,045,713 1,037,665 1,137,746 1,139,378 1,147,472 1,240,555 1,312,940 1,407,73 1,486,675 1,461,254	1.53 1.50 1.46 1.48 1.42 1.43 1.40 1.41 1.36 1.34 1.30 1.27 1.28 1.29	242,002 251,708 269,843 289,973 299,763 319,558 324,984 335,991 350,715 330,875 326,275 334,616 359,081 395,173 417,963 443,288 455,675	378,710 379,778 399,924 424,761 430,435 443,435 448,853 463,465 481,184 422,7924 408,216 440,760 473,921 522,568 561,835 541,561	1.57 1.50 1.44 1.44 1.37 1.39 1.35 1.35 1.29 1.25 1.19 1.17 1.20 1.22	147,261 154,018 164,575 179,915 190,362 198,154 202,260 216,597 234,7651 232,096 236,294 247,651 276,367 301,115 325,351 347,857 369,315 369,315 368,268	196,914 204,842 221,978 238,392 241,058 258,454 272,297 290,207 309,246 297,588 301,438 308,055 339,431 367,505 398,266 424,806 442,249	1.31 1.30 1.29 1.29 1.27 1.26 1.32 1.30 1.29 1.23 1.18 1.18 1.18 1.18	150,936 161,469 175,436 184,801 196,796 205,730 215,147 233,591 248,606 255,189 260,713 271,915 289,464 307,514 322,840 333,271 323,840	260,276 278,444 304,519 322,216 333,252 343,824 356,515 384,074 405,928 393,637 415,018 415,018 460,364 471,514 486,218 500,034 477,444	1.67 1.68 1.66 1.72 1.67 1.64 1.59 1.59 1.58 1.55 1.56 1.51 1.48	167,841 179,424 194,186 204,219 216,983 227,177 237,746 257,249 273,961 281,575 288,256 301,059 340,552 358,073 370,317 366,876
2010 2011	978,862 1,074,209 1,193,570	1,323,831 1,433,794 1,544,057	1.39 1.28 1.26	368,292 409,721 457,613	504,636 549,239 600,825	1.39 1.28 1.28	308,268 344,361 389,778	389,908 429,260 471,549	1.31 1.18 1.17	302,302 320,128 346,179	429,287 455,295 471,683	1.46 1.38 1.34	339,892 358,961 387,304
2011: Jan	1,154,121 1,154,192 1,181,873 1,185,110 1,184,326 1,193,625 1,206,331 1,209,034 1,210,232 1,220,243 1,218,633 1,230,038	1,447,106 1,455,471 1,473,392 1,485,294 1,499,819 1,505,090 1,510,743 1,520,705 1,518,404 1,531,731 1,537,633 1,544,057	1.25 1.26 1.25 1.27 1.26 1.25 1.26 1.25 1.26 1.26 1.26	440,892 441,022 454,480 453,257 453,933 456,833 467,495 464,589 463,879 466,604 466,392 470,761	556,808 563,565 571,115 579,290 584,012 585,643 588,875 591,799 591,168 597,571 600,646 600,825	1.26 1.28 1.26 1.29 1.28 1.26 1.27 1.27 1.27 1.28 1.29 1.28	376,856 374,427 385,965 388,422 387,450 390,895 391,887 397,050 396,544 399,229 397,164 404,636	434,085 437,988 443,400 446,698 454,999 457,671 460,836 462,975 459,782 466,544 466,509 471,549	1.15 1.17 1.15 1.15 1.17 1.17 1.18 1.17 1.16 1.17	336,373 338,743 341,428 343,431 342,943 345,897 346,949 347,395 349,809 354,410 355,077 354,641	456,213 453,918 458,877 459,306 460,808 461,776 461,032 465,931 467,454 467,616 470,478 471,683	1.36 1.34 1.34 1.34 1.34 1.33 1.34 1.34 1.32 1.33 1.33	375,739 378,934 382,115 383,810 383,733 387,045 388,064 388,718 391,539 396,633 397,370 396,974
2012: Jan	1,234,843 1,244,716 1,247,697 1,246,774 1,243,493 1,229,074 1,239,836 1,246,838 1,262,184 1,258,993	1,556,397 1,564,986 1,569,020 1,573,873 1,578,003 1,580,106 1,592,581 1,602,311 1,613,065 1,617,357 1,621,534	1.26 1.26 1.26 1.27 1.29 1.28 1.29 1.28 1.28	472,600 474,382 474,690 473,660 475,187 469,382 478,169 477,115 480,401 481,734 483,701	604,980 606,668 607,190 605,878 604,989 604,221 608,099 611,959 615,453 615,204 615,181	1.28 1.28 1.28 1.27 1.27 1.29 1.27 1.28 1.28 1.28	404,708 408,970 410,559 412,940 408,492 402,730 401,942 405,897 413,437 409,784 419,333	474,580 478,923 480,495 482,838 482,756 481,897 484,939 488,787 494,350 496,077 498,949	1.17 1.17 1.17 1.18 1.20 1.21 1.20 1.20 1.21	357,535 361,364 362,448 360,174 359,814 356,962 359,725 363,826 368,346 367,475 368,546	476,837 479,395 481,335 485,157 490,258 493,988 499,543 501,565 503,262 506,076 507,404	1.33 1.33 1.35 1.36 1.38 1.39 1.38 1.37 1.38 1.38	400,550 404,692 406,200 404,112 403,641 400,635 403,587 407,696 412,705 411,997 413,582

¹ Excludes manufacturers' sales branches and offices.

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. Annual data for 1970–81 are the ratio of December inventories to monthly average sales 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, 1971-2012

[Millions of dollars; monthly data seasonally adjusted]

		Shipments ¹						Inventories ²	?			
		Donahla	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
SIC: 3 1971 1972 1973 1974 1975 1976 1976 1977 1978 1979 1980	55,906 63,027 72,931 84,790 86,589 98,797 113,201 126,905 143,936 154,391 168,129	29,924 33,987 39,635 44,173 43,595 50,623 59,168 67,731 75,927 77,419 83,727	25,982 29,040 33,296 40,617 42,991 48,174 54,033 59,174 68,009 76,972 84,402	102,567 108,121 124,499 157,625 159,708 174,636 188,378 211,691 242,157 265,215 283,413	66,136 70,067 81,192 101,493 102,590 111,988 120,877 138,181 160,734 174,788 186,443	19,679 20,807 25,944 35,070 33,903 37,457 40,186 45,198 52,670 55,173 57,998	28,550 30,713 35,490 42,530 43,227 46,074 50,226 58,848 69,325 76,945 80,998 86,707	17,907 18,547 19,758 23,893 25,460 28,457 30,465 34,135 38,739 42,670 47,447	36,431 38,054 43,307 56,132 57,118 62,648 67,501 73,510 81,423 90,427 96,970	13,686 14,677 18,147 23,744 23,565 25,847 27,387 29,619 32,814 36,606 38,165	5,678 5,998 6,729 8,189 8,834 9,929 10,961 12,085 13,910 15,884 16,194	17,067 17,379 18,431 24,199 24,719 26,872 29,153 31,806 34,699 37,937 42,611
1980 1981 1982 1983 1983 1985 1986 1987 1988	163,351 172,547 190,682 194,538 194,657 206,326 224,619 236,698	79,212 85,481 97,940 101,279 103,238 108,128 118,458 123,158	84,139 87,066 92,742 93,259 91,419 98,198 106,161 113,540	311,852 312,379 339,516 334,749 322,654 338,109 369,374 391,212	200,444 199,854 221,330 218,193 211,997 220,799 242,468 257,513	59,136 60,325 66,031 63,904 61,331 63,562 69,611 72,435	86,899 98,251 98,162 97,000 102,393 112,958 122,251	54,601 52,630 57,048 56,127 53,666 54,844 59,899 62,827	111,408 112,525 118,186 116,556 110,657 117,310 126,906 133,699	44,039 44,816 45,692 44,106 42,335 45,319 49,396 50,674	18,612 18,691 19,328 19,442 18,124 19,270 20,559 21,653	48,757 49,018 53,166 53,008 50,198 52,721 56,951 61,372
1990 1991 1992 <i>NAICS: 3</i> 1992	242,686 239,847 250,394	123,776 121,000 128,489	118,910 118,847 121,905	405,073 390,950 382,510	263,209 250,019 238,105	73,559 70,834 69,459	124,130 114,960 104,424	65,520 64,225 64,222	141,864 140,931 144,405	52,645 53,011 54,007	22,817 22,815 23,532	66,402 65,105 66,866
1994	242,002 251,708 269,843 289,973 299,766 319,558 324,984 335,991	126,572 133,712 147,005 158,568 164,883 178,949 185,966 193,895	115,430 117,996 122,838 131,405 134,883 140,610 139,019 142,096	378,710 379,778 399,924 424,761 430,430 443,435 448,853 463,465	237,914 238,766 253,104 267,382 272,466 280,961 290,472 296,464	69,658 72,637 78,574 85,529 86,288 92,290 93,529 97,856	104,185 102,034 106,556 106,655 110,616 109,906 115,151 114,037	64,071 64,095 67,974 75,198 75,562 78,765 81,792 84,571	140,796 141,012 146,820 157,379 157,964 162,474 158,381 167,001	53,148 54,206 57,087 60,753 59,151 60,157 58,229 61,038	23,420 23,404 24,448 25,772 26,472 28,516 27,077 28,763	64,228 63,402 65,285 70,854 72,341 73,801 73,075 77,200
2000 2001 2002 2003 2004 2005 2006 2006 2007 2008	350,715 330,875 326,227 334,616 359,081 395,173 417,963 443,288 455,675 368,292	197,807 181,201 176,968 178,549 188,722 202,070 213,516 223,919 218,328 171,886	152,908 149,674 149,259 156,067 170,359 193,103 204,447 219,369 237,347 196,406	481,184 427,751 422,924 408,216 440,760 473,921 522,568 561,835 541,561 504,636	306,394 267,633 260,394 246,854 265,005 283,742 317,506 334,621 330,298 296,449	106,039 91,261 88,494 82,283 92,089 98,470 111,543 116,406 117,583 100,596	111,025 93,845 92,367 88,644 91,109 98,738 106,643 117,720 111,993 107,264	89,330 82,527 79,533 75,927 81,807 86,534 99,320 100,495 100,722 88,589	174,790 160,118 162,530 161,362 175,755 190,179 205,062 227,214 211,263 208,187	61,496 55,754 56,597 56,894 61,830 66,948 70,375 75,217 72,087 71,403	29,996 27,053 27,826 27,017 29,877 32,828 36,989 44,954 41,112 41,928	83,298 77,311 78,107 77,451 84,048 90,403 97,698 107,043 98,064 94,856
2011 2011: Jan	409,721 457,613 440,892	191,576 209,590 201,174	218,145 248,023 239,718	549,239 600,825 556,808	324,525 358,105 328,196	106,977 116,916 108,104	123,470 138,328 124,972	94,078 102,861 95,120	224,714 242,720 228,612	76,207 81,580 76,961	44,292 46,781 44,685	104,215 114,359 106,966
Feb Mar Apr Apr June July Aug Sept Oct Nov Dec	441,022 454,480 453,257 453,933 456,833 467,495 464,589 463,879 466,604 466,392 470,761	201,176 208,781 204,541 206,082 207,567 217,802 213,170 211,477 215,099 214,251 219,924	239,846 245,699 248,716 247,851 249,266 249,693 251,419 252,402 251,505 252,141 250,837	563,565 571,115 579,290 584,012 585,643 588,875 591,799 591,168 597,571 600,646 600,825	332,227 337,907 341,067 345,619 347,267 350,260 353,297 353,185 355,393 357,659 358,105	108,985 109,979 111,504 112,791 113,086 113,724 114,651 114,948 115,382 116,001 116,916	126,409 129,883 130,952 133,202 134,049 135,423 136,327 135,576 136,802 138,270 138,328	96,833 98,045 98,611 99,626 100,132 101,113 102,319 102,661 103,209 103,388 102,861	231,338 233,208 238,223 238,393 238,376 238,615 238,502 237,983 242,178 242,987 242,720	78,736 79,073 79,729 79,942 79,313 79,131 80,239 79,086 81,853 81,579 81,580	45,179 45,160 46,639 46,284 46,569 46,129 45,060 45,286 46,270 46,476 46,781	107,423 108,975 111,855 112,167 112,494 113,203 113,611 114,055 114,932 114,359
Z012: Jan Feb Mar Apr Apr June July Aug Sept Oct Nov P	472,600 474,382 474,690 473,660 475,187 469,382 478,169 477,115 480,401 481,734 483,701	220,130 219,081 221,050 222,574 225,096 225,011 229,046 222,397 223,480 223,498 226,966	252,470 255,301 253,640 251,086 250,091 244,371 249,123 254,718 256,921 258,236 256,735	604,980 606,668 607,190 605,878 604,989 604,221 608,099 611,959 615,453 615,204 615,181	360,710 361,622 362,921 363,968 365,566 366,503 369,847 371,952 372,820 374,011 374,820	118,365 118,546 119,313 119,583 119,651 119,365 120,210 120,817 121,273 121,383 121,463	139,215 140,128 140,301 140,459 140,764 141,753 143,370 144,197 144,375 144,569 145,227	103,130 102,948 103,307 103,926 105,151 105,385 106,267 106,938 107,172 108,059 108,130	244,270 245,046 244,269 241,910 239,423 237,718 238,252 240,007 242,633 241,193 240,361	81,983 81,625 82,122 82,926 81,513 81,321 82,241 82,541 82,818 82,154 81,187	47,530 47,921 47,148 45,172 45,809 45,088 44,261 44,734 46,339 45,498 45,351	114,757 115,500 114,999 113,812 112,101 111,309 111,750 112,732 113,476 113,541 113,823

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.
 Effective 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, 1971-2012

[Amounts in millions of dollars; monthly data seasonally adjusted]

		New o	rders ¹		l	Infilled orders	2	Unfilled o	rders to shipm	ents ratio ²
Year or month			e goods stries	Nondurable		Durable	Nondurable		Durable	Nondurable
	Total	Total	Capital goods, nondefense	goods industries	Total	goods industries	goods industries	Total	goods industries	goods industries
SIC: 3 1971 1972 1973 1974 1975 1976 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1985	55,921 64,182 76,003 87,327 85,139 99,513 115,1629 147,604 156,359 168,025 162,140 175,451 192,879 195,204 209,382 228,270	29,905 35,038 42,627 46,862 41,957 51,307 61,035 72,278 83,654 78,064 88,140 102,356 103,647 110,007 122,076	6,682 7,745 9,926 11,594 9,886 11,490 13,681 17,588 21,154 21,135 21,806 19,213 19,624 23,669 24,545 23,982 26,094	26,016 29,144 33,376 40,465 43,181 48,206 54,073 59,351 68,121 76,967 84,371 87,311 92,715 93,7351 98,579 106,194	105,247 119,349 156,561 187,043 169,546 202,024 259,169 303,593 327,416 326,547 311,887 347,273 373,529 387,196 393,515 430,426 474,154	100,225 113,034 149,204 181,519 181,668 169,857 193,323 248,281 291,321 315,202 314,707 300,798 333,114 359,651 372,097 376,689 408,688	5,022 6,315 7,357 5,524 7,882 8,271 10,888 12,272 12,214 11,890 14,159 13,878 15,099 16,816 21,738	3.32 3.26 3.26 3.80 4.09 3.89 3.24 3.57 3.87 3.83 3.60 3.67 3.59 3.63 3.63	4,00 3,85 4,51 4,93 4,45 3,88 3,85 4,20 4,62 4,58 4,68 4,74 4,29 4,37 4,47 4,41 4,43 4,44 4,43	0.76 8.66 9.91 622 822 7.4 7.11 822 7.5 6.99 6.99 6.88 7.00 8.83 7.76
1989 1990 1991 1992 NAICS: ³	239,572 244,507 238,805 248,212	126,055 125,583 119,849 126,308	32,988 33,331 30,471 31,524	113,516 118,924 118,957 121,905	508,849 531,131 519,199 492,893	487,098 509,124 495,802 469,381	21,751 22,007 23,397 23,512	3.96 4.15 4.08 3.51	4.85 5.15 5.07 4.30	.77 .76 .79 .75
1992 1993 1994 1995 1996 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			451,312 425,915 435,131 447,570 488,988 513,023 496,233 505,514			5.14 4.66 4.21 3.97 4.14 4.04 3.97 3.76	
1999	325,770 346,789 322,360 318,535 331,202 357,374 397,140 424,154 449,882 453,930 347,271	193,881 172,686 169,276 175,135 187,015 204,038 219,707 230,513 216,583 150,866	69,278 57,773 52,002 53,167 57,565 68,151 74,532 80,276 73,615 46,208			549,389 509,702 478,699 504,274 556,110 653,400 797,129 947,570 996,797 802,460			3.87 4.19 4.12 4.10 4.24 4.34 4.92 5.51 6.36 7.06	
2009 2010 2011	409,949 458,457	191,804 210,434	63,174 71,504			879,247 969,434			6.17 6.20	
2011: Jan	442,260 435,486 457,096 450,343 455,513 454,563 469,642 464,209 465,368 463,563 471,400 481,229	202,542 195,640 211,397 201,627 207,662 205,297 219,949 212,790 212,066 212,058 219,259 230,392	64,640 64,742 71,772 66,598 70,328 69,875 72,842 73,477 73,056 71,497 75,804 84,115			887,116 888,337 897,489 901,244 909,446 913,890 922,570 928,914 937,149 940,858 952,624 969,434			6.25 6.26 6.09 6.24 6.23 6.21 6.06 6.16 6.23 6.19 6.29 6.19	
2012: Jan	471,576 478,879 468,921 465,752 467,955 465,739 477,711 453,411 473,786 477,438 477,649	219,106 223,578 215,281 214,666 217,864 221,368 228,588 198,693 216,865 219,202 220,914	78,304 79,777 70,030 69,417 71,016 72,741 75,941 57,756 70,938 72,800 70,671			974,867 985,934 986,186 984,750 984,643 988,660 995,852 979,304 980,124 983,406 984,514			6.23 6.36 6.29 6.33 6.24 6.28 6.23 6.28 6.23 6.24 6.23	

¹ Annual data are averages of monthly not seasonally adjusted figures.

² 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.

³ Effective 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, 1969-2012

[For all urban consumers; 1982-84=100, except as noted]

Year or month	All items	Food bever		Annaral	Housina	Transpor-	Medical	Recre-	Education and	Other goods	Eporgu 3
rear or monur	All Items	Total ¹	Food	Apparel	поизіну	tation	care	ation ²	communi- cation ²	and services	Energy ³
1969	36.7	38.1	37.1	56.8	34.0	35.7	31.9			38.7	24.8
1970 1971	38.8 40.5	40.1 41.4	39.2 40.4	59.2 61.1	36.4 38.0	37.5 39.5	34.0 36.1			40.9 42.9	25.5 26.5
1972 1973	41.8 44.4	43.1 48.8	42.1 48.2	62.3 64.6	39.4 41.2	39.9 41.2	37.3 38.8			44.7 46.4	27.2 29.4
1974	49.3	55.5	55.1	69.4	45.8	45.8	42.4			49.8	38.1
1975 1976	53.8 56.9	60.2 62.1	59.8 61.6	72.5 75.2	50.7 53.8	50.1 55.1	47.5 52.0			53.9 57.0	42.1 45.1
1977 1978	60.6 65.2	65.8 72.2	65.5 72.0	78.6 81.4	57.4 62.4	59.0 61.7	57.0 61.8			60.4 64.3	49.4 52.5
1979	72.6	79.9	79.9	84.9	70.1	70.5	67.5			68.9	65.7
1980 1981	82.4 90.9	86.7 93.5	86.8 93.6	90.9 95.3	81.1 90.4	83.1 93.2	74.9 82.9			75.2 82.6	86.0 97.7
1982 1983	96.5 99.6	97.3 99.5	97.4 99.4	97.8 100.2	96.9 99.5	97.0 99.3	92.5 100.6			91.1 101.1	99.2 99.9
1984 1985	103.9 107.6	103.2 105.6	103.2 105.6	102.1 105.0	103.6 107.7	103.7 106.4	106.8 113.5			107.9 114.5	100.9 101.6
1986	109.6 113.6	109.1 113.5	109.0 113.5	105.9 110.6	110.9 114.2	102.3 105.4	122.0 130.1			121.4 128.5	88.2 88.6
1987 1988	118.3	118.2	118.2	115.4	118.5	108.7	138.6			137.0	89.3
1989 1990	124.0 130.7	124.9 132.1	125.1 132.4	118.6 124.1	123.0 128.5	114.1 120.5	149.3 162.8			147.7 159.0	94.3 102.1
1991 1992	136.2 140.3	136.8 138.7	136.3 137.9	128.7 131.9	133.6 137.5	123.8 126.5	177.0 190.1	l		171.6 183.3	102.5 103.0
1993	144.5	141.6	140.9	133.7	141.2	130.4	201.4	90.7	85.5	192.9	104.2
1994 1995	148.2 152.4	144.9 148.9	144.3 148.4	133.4 132.0	144.8 148.5	134.3 139.1	211.0 220.5	92.7 94.5	88.8 92.2	198.5 206.9	104.6 105.2
1996 1997	156.9 160.5	153.7 157.7	153.3 157.3	131.7 132.9	152.8 156.8	143.0 144.3	228.2 234.6	97.4 99.6	95.3 98.4	215.4 224.8	110.1 111.5
1998 1999	163.0 166.6	161.1 164.6	160.7 164.1	133.0 131.3	160.4 163.9	141.6 144.4	242.1 250.6	101.1 102.0	100.3 101.2	237.7 258.3	102.9 106.6
2000	172.2	168.4	167.8	129.6	169.6	153.3	260.8	103.3	102.5	271.1	124.6
2001	177.1 179.9	173.6 176.8	173.1 176.2	127.3 124.0	176.4 180.3	154.3 152.9	272.8 285.6	104.9 106.2	105.2 107.9	282.6 293.2	129.3 121.7
2003 2004	184.0 188.9	180.5 186.6	180.0 186.2	120.9 120.4	184.8 189.5	157.6 163.1	297.1 310.1	107.5 108.6	109.8 111.6	298.7 304.7	136.5 151.4
2005	195.3 201.6	191.2 195.7	190.7 195.2	119.5 119.5	195.7 203.2	173.9 180.9	323.2 336.2	109.4 110.9	113.7 116.8	313.4 321.7	177.1 196.9
2006	207.342	203.300	202.916	118.998	209.586	184.682	351.054	111.443	119.577	333.328	207.723
2008 2009	215.303 214.537	214.225 218.249	214.106 217.955	118.907 120.078	216.264 217.057	195.549 179.252	364.065 375.613	113.254 114.272	123.631 127.393	345.381 368.586	236.666 193.126
2010	218.056 224.939	219.984 227.866	219.625 227.842	119.503 122.111	216.256 219.102	193.396 212.366	388.436 400.258	113.313 113.357	129.919 131.466	381.291	211.449 243.909
2012	229.594	233.670	233.777	126.265	222.715	217.337	414.924	114.703	133.844	387.224 394.395	246.080
2011: Jan Feb	220.223 221.309	223.160 224.039	222.912 223.799	116.664 118.369	216.739 217.259	200.835 203.037	393.858 397.065	112.638 113.183	130.665 130.692	384.689 385.397	223.266 226.860
Mar Apr	223.467 224.906	225.479 226.248	225.350 226.150	121.286 122.226	217.707 217.901	211.014 216.867	397.726 398.813	113.261 113.368	130.682 130.643	385.637 386.226	242.516 253.495
May	225.964	227.082 227.451	226.976	122.271	218.484	220.270 216.880	399.375	113.659 113.654	130.600 130.568	385.476	260.376 254.170
June July	225.722 225.922 226.545	228.323	227.360 228.316	120.578 118.770	219.553 220.230	216.164	399.552 400.305	113,492	130.859	386.171 386.494	254.170 252.661 251.706
Aug Sept	226.545 226.889	229.490 230.448	229.554 230.573	121.547 125.272	220.506 220.540	216.057 215.198	400.874 401.605	113.592 113.440	132.028 132.627	387.053 388.627	250.480
Oct Nov	226.421 226.230	230.885 230.656	231.017 230.790	127.590 127.285	220.138 219.969	212.127 211.358	403.430 404.858	113.270 113.232	132.755 132.750	389.119 390.761	240.902 238.177
Dec	225.672	231.130	231.301	123.470	220.193	208.585	405.629	113.499	132.728	391.043	232.300
2012: Jan Feb	226.665 227.663	232.559 232.453	232.666 232.486	122.105 123.312 127.258	220.805 221.117	210.799 214.429	408.056 410.466	114.183 114.333	133.067 133.199 133.235	391.382 391.236 392.364	236.942 242.663
Mar Apr	227.663 229.392 230.085	232.708 233.116	232.792 233.234	127.258 128.485	221.487 221.682	220.842 223.083	411.498 412.480	114.675 114.656	133.235 133.284	392.364 393.320	253.599 255.736
May	229.815 229.478	233.257 233.509	233.339 233.563	127.688 125.241	221.971 223.051	220.768 216.369	413.655 415.345	114.689 115.080	133.470 133.456	392.859 393.989	250.306 244.167
June July	229.104	233.557	233.630	122.300	223.316	214.294	416.759	114.944	133.546	395.418	239.972
Aug Sept	230.379 231.407 231.317	234.017 234.172	234.156 234.298	123.568 128.630	223.699 223.901	219.110 221.745	417.123 418.039	114.929 114.963	134.039 134.639	396.161 396.155	250.306 256.332
Oct Nov	231.317 230.221	234.718 234.742	234.878 234.896	131.359 129.573	223.708 223.814	220.232 214.525	418.359 418.653	114.774 114.763	134.767 134.736	396.337 396.702	250.523 238.946
Dec	229.601	235.230	235.390	125.656	224.032	211.853	418.654	114.442	134.694	396.814	233.473

Source: Department of Labor (Bureau of Labor Statistics).

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.

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.

Table B-61. Consumer price indexes for selected expenditure classes, 1969-2012

[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	Total ¹	Total	At home	Away from home	Total ²	Total ²	Rent of primary residence	Owners' equiva- lent rent of residen- ces 3, 4	Total ²	Househo	Id energy Energy Services
1969	38.1	37.1	38.0	34.9	34.0	32.6	44.7		28.0	22.1	24.3
1970 1971 1972 1973 1974 1975 1976 1977 1978 1980 1981 1980 1981 1982 1983 1984 1985 1986 1989 1991 1991 1992 1993 1991 1992 1993 1994 1995 1996 1997 1997 1998 1999 2000 2001 2001 2002 2001 2002 2003 2004 2006 2007 2008 2009 2010 2011 2012 2011 2012 2011 2012 2011 2012 2011 2012 2011 2012 2011 2012 2011 2012 2011 2012 2011 2012 2011 2012 2011 2012 2011 2012 2011 2012 2011 2012 2013 204 204 205 206 207 208 208 209 209 2010 2010 2011 2012 2011 2012 2011 2012 2011 2012 2011 2012 2011 2012 2011 2012 2011 2012 2011 2012 2011 2012 2011 2012 2011 2012 2011 2012 2011 2012 2011 2012 2011 2012 2011 2012 2011 2012 2011 2012 2011 2012 2011 2012 2011 2012 2011 2012 2019 2019	40.1 41.4 43.1 48.8 55.5 66.2 72.2 79.9 86.7 93.5 93.5 93.5 103.6 109.1 113.6 124.9 136.8 138.7 141.6 144.9 143.7 153.7 161.1 164.6 168.1 173.6 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8 176.8	39.2 40.4 42.1 48.2 55.1 159.8 61.6 65.5 72.0 79.9 86.8 93.6 97.4 103.2 125.1 132.4 136.3 137.9 140.9 144.3 160.7 167.8 167.1 176.2 180.0 186.2 190.7 195.2 202.916 214.106 217.955 219.625 27.842 233.777 222.91.5 226.950 226.950 226.950 226.950 226.950 226.950 226.950 226.950 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225.356 225.356 225.356 225.556 225.556 225.556 225.556 225.556 225.556 225.556 225.556 225.556 225.556 225.556 225.556 225.556 225.556 225.556 225.556 225.556 225.556 225.556 225.556 225.556 225.556 225.556 225.556 225.556 225.556 225.556 225.556 225.556 225.556 225.556 225.556 225.556 225.556 225.556	37.5 39.4 41.0 44.2 49.8 554.5 58.2 62.6 68.3 75.9 95.8 100.0 104.2 121.8 127.4 137.9 140.7 143.2 145.7 157.0 161.1 169.0 173.9 178.3 189.4 206.6569 223.272 226.114 237.986 223.137.986 223.137.9 231.987 226.131.401 237.986 222.812 230.951 231.952 233.459 223.31.580 222.233.459 223.31.580 222.233.459 223.31.580 222.233.459 223.31.580 222.233.459 223.31.580 222.233.459 223.31.580 223.33.459 223.31.580 223.33.459 223.33.459 223.33.459 223.33.459 223.33.459 223.33.459 223.33.459 223.33.459 223.33.459 223.33.459 223.33.459 223.33.459 223.33.459 223.33.459 223.33.459 223.33.459 223.33.459 223.33.459 223.33.459 223.33.459 223.33.459 223.33.459 223.4401 233.459 223.4401	36.4 38.0 39.4 41.2 45.8 50.7 53.8 50.7 62.4 70.1 90.4 99.9 99.5 103.6 103.6 114.2 118.5 123.0 128.5 141.2 144.8 145.8 156.8 156.4 163.9 169.6 176.4 180.3 184.8 189.5 209.586 217.057 216.268 217.057 217.901 218.484 219.536 217.707 217.901 218.484 219.536 220.546 220.138 219.936 220.193	35.5 37.0 38.7,7 40.5 44.4 48.8 51.5 96.9 99.9 99.1 104.0 146.3 127.1 132.8 127.1 132.8 127.1 132.8 127.1 132.8 127.1 132.8 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 129.3 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190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 190.071 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193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5 193.5
2012: Jan	232.559 232.453 232.708 233.116 233.257 233.509 233.557 234.017 234.172 234.718 234.742 235.230	232.666 232.486 232.792 233.234 233.339 233.563 234.156 234.298 234.878 234.896 235.390	231.694 231.180 231.383 231.711 231.518 231.515 231.306 231.708 231.615 232.456 232.295 232.901	235.268 235.603 236.073 236.695 237.262 237.839 238.337 239.057 239.565 239.742 240.038 240.359	220.805 221.117 221.487 221.682 221.971 223.051 223.316 223.699 223.901 223.708 223.814 224.032	254.409 254.931 255.609 256.031 256.442 256.950 257.409 257.843 258.252 258.829 258.999 259.298	257.714 258.184 258.569 258.922 259.231 259.407 260.107 260.677 261.421 262.707 263.365 264.098	262.543 262.812 263.317 263.765 264.012 264.276 265.422 266.013 266.581 267.099 267.480	218.199 217.189 216.667 216.006 216.388 221.789 221.449 222.769 222.634 218.287 217.964 218.496	189.945 188.393 187.591 186.517 186.852 192.649 191.913 192.759 192.636 187.657 187.141	189.942 187.962 186.784 186.762 194.261 193.679 194.136 193.579 187.970 187.359

See next page for continuation of table.

<sup>Includes alcoholic beverages, not shown separately.
Includes other items not shown separately.
December 1982=100.
Beginning January 2010, includes expenditure weight for second homes. Prior data are for primary residence only.</sup>

Table B–61. Consumer price indexes for selected expenditure classes, 1969-2012-Continued

[For all urban consumers; 1982-84=100, except as noted]

				Transportation				Medical care		
			Priva	ate transporta	tion		Dublio		Madical	
Year or month	Total		New ve	ehicles	Used cars	Motor	Public trans- porta-	Total	Medical care com-	Medical care
		Total ²	Total ²	New cars	and trucks	fuel	tion		modities	services
1969 1970	35.7 37.5	36.0 37.5	51.5 53.1	51.5 53.0	30.9 31.2	27.6 27.9	30.9 35.2	31.9 34.0	45.4 46.5	30.2 32.3
1971 1972 1973 1974 1975 1976 1977 1978	39.5 39.9 41.2 45.8 50.1 55.1 59.0 61.7 70.5	39.4 39.7 41.0 46.2 50.6 55.6 59.7 62.5 71.7	55.3 54.8 54.8 58.0 63.0 67.0 70.5 75.9 81.9	55.2 54.7 54.8 57.9 62.9 66.9 70.4 75.8 81.8	33.0 33.1 35.2 36.7 43.8 50.3 54.7 55.8 60.2	28.1 28.4 31.2 42.2 45.1 47.0 49.7 51.8 70.1	37.8 39.3 39.7 40.6 43.5 47.8 50.0 51.5 54.9	36.1 37.3 38.8 42.4 47.5 52.0 57.0 61.8 67.5	47.3 47.4 47.5 49.2 53.3 56.5 60.2 64.4 69.0	34.7 35.9 37.5 41.4 46.6 51.3 56.4 61.2 67.2
1979	83.1 93.2 97.0 99.3 103.7 106.4 102.3 105.4 108.7 114.1	84.2 93.8 97.1 99.3 103.6 106.2 101.2 104.2 107.6 112.9	88.5 93.9 97.5 99.9 102.6 106.1 110.6 114.4 116.5	88.4 93.7 97.4 99.9 102.8 106.1 110.6 116.9 119.2	62.3 76.9 88.8 98.7 112.5 113.7 108.8 113.1 118.0 120.4	97.4 108.5 102.8 99.4 97.9 98.7 77.1 80.2 80.9 88.5	69.0 85.6 94.9 99.5 105.7 110.5 117.0 121.1 123.3 129.5	74.9 82.9 92.5 100.6 106.8 113.5 122.0 130.1 138.6 149.3	75.4 83.7 92.3 100.2 107.5 115.2 122.8 131.0 139.9	74.8 82.8 92.6 100.7 106.7 113.2 121.9 130.0 138.3 148.9
1990 1991 1992 1993 1994 1995 1996 1997 1998	120.5 123.8 126.5 130.4 134.3 139.1 143.0 144.3 141.6	118.8 121.9 124.6 127.5 131.4 136.3 140.0 141.0 137.9 140.5	121.4 126.0 129.2 132.7 137.6 141.0 143.7 144.3 143.4 142.9	121.0 125.3 128.4 131.5 136.0 139.0 141.4 141.7 140.7 139.6	117.6 118.1 123.2 133.9 141.7 156.5 157.0 151.1 150.6 152.0	101.2 99.4 99.0 98.0 98.5 100.0 106.3 106.2 92.2 100.7	142.6 148.9 151.4 167.0 172.0 175.9 181.9 186.7 190.3	162.8 177.0 190.1 201.4 211.0 220.5 228.2 234.6 242.1 250.6	163.4 176.8 188.1 195.0 200.7 204.5 210.4 215.3 221.8 230.7	162.7 177.1 190.5 202.9 213.4 224.2 232.4 239.1 246.8 255.1
2000 2001 2002 2003 2004 2005 2006 2007 2008	153.3 154.3 152.9 157.6 163.1 173.9 180.9 184.682 195.549 179.252	149.1 150.0 148.8 153.6 159.4 170.2 177.0 180.778 191.039 174.762	142.8 142.1 140.0 137.9 137.1 137.9 137.6 136.254 134.194 135.623	139.6 138.9 137.3 134.7 133.9 135.2 136.4 135.865 135.401 136.685	155.8 158.7 152.0 142.9 133.3 139.4 140.0 135.747 133.951 126.973	129.3 124.7 116.6 135.8 160.4 195.7 221.0 239.070 279.652 201.978	209.6 210.6 207.4 209.3 209.1 217.3 226.6 230.002 250.549 236.348	260.8 272.8 285.6 297.1 310.1 323.2 336.2 351.054 364.065 375.613	238.1 247.6 256.4 262.8 269.3 276.0 285.9 289.999 296.045 305.108	266.0 278.8 292.9 306.0 321.3 336.7 350.6 369.302 384.943 397.299
2010 2011 2012	193.396 212.366 217.337	188.747 207.641 212.752	138.005 141.883 144.232	138.094 142.226 144.178	143.128 149.011 150.330	239.178 302.619 312.660	251.351 269.403 271.351	388.436 400.258 414.924	314.717 324.089 333.609	411.208 423.810 440.341
2011: Jan	200.835 203.037 211.014 216.867 220.270 216.164 216.057 215.198 212.127 211.358 208.585 214.429 220.842 223.083 220.768 214.294 219.127 221.2127 223.083 220.768 214.294 219.127 221.4294 219.128 221.4294 219.128 221.4294 219.128 221.4294 221.4294 221.4294 221.4294 221.4294 221.4294 221.4294 221.4294 221.4294 221.4294 222.214.2292 221.4294	196.087 198.073 206.105 212.210 215.829 212.216 211.315 207.404 206.635 203.809 206.303 206.303 215.978 210.013 216.536 215.978 217.978 217.978 217.978 217.978	138.925 140.158 140.860 141.462 142.763 142.763 142.273 142.334 142.535 142.736 142.953 143.438 144.352 144.401 144.352 144.401 144.352 144.401 144.352	138 203 139 584 140 311 141 154 142 717 143 812 143 707 143 283 143 414 143 419 143 619 143 619 144 027 144 103 144 103 144 103 144 103 144 103 145 103 147 10	142.555 142.937 144.072 145.968 148.361 151.776 154.184 155.823 153.586 151.894 149.230 148.140 147.143 147.011 148.677 155.506 155.815 155.815 155.815 155.815 155.815 155.815	265.703 271.843 303.565 326.024 337.359 318.242 309.745 296.944 294.049 282.501 292.236 306.348 330.634 336.673 324.859 304.859 304.859 305.23 324.131 299.777	259.634 265.327 270.366 272.187 271.417 272.297 272.299 271.199 269.158 268.478 266.958 263.968 263.968 265.830 275.272 277.79.29 276.784 273.033 269.552 268.791 270.681 270.681	393,858 397,706 398,813 399,552 400,805 401,805 403,430 404,858 405,6529 408,05629 410,466 411,480 413,655 416,759 417,759 417,759 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418,653 418	318 929 321.186 322.691 324.241 324.393 324.102 324.159 325.5130 325.952 326.624 327.254 333.188 333.081 333.131 333.348 335.048 335.721 335.768	417 025 420 567 420 852 421 716 422 438 422 813 423 847 424 546 425 258 427 467 429 191 430 005 432 583 721 433 766 441 041 442 305 442 410 443 812 444 242 444 244 444 244

Source: Department of Labor (Bureau of Labor Statistics).

Table B-62. Consumer price indexes for commodities, services, and special groups, 1969-2012

[For all urban consumers; 1982-84=100, except as noted]

		Comm	odities			Special	indexes			All items	
Year or month	All 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
1969 1970 1971 1972 1973 1974 1975 1976 1977 1977	36.7 38.8 40.5 41.8 44.4 49.3 53.8 56.9 60.6 65.2	39.9 41.7 43.2 44.5 47.8 53.5 58.2 60.7 64.2 68.8	41.7 43.4 45.1 46.1 47.7 52.8 57.6 60.5 63.8 67.5	32.4 35.0 37.0 38.4 40.1 43.8 48.0 52.0 56.0 60.8	36.8 39.0 40.8 42.0 43.7 48.0 52.5 56.0 59.6 63.9	38.0 40.3 42.0 43.4 46.1 50.6 55.1 58.2 61.9 66.7	38.4 40.8 42.7 44.0 45.6 49.4 53.9 57.4 61.0 65.5	37.0 39.2 40.8 42.1 44.8 49.8 54.3 57.2 60.8 65.4	39.4 41.3 43.1 44.4 47.2 51.9 56.2 59.4 63.2 67.5	104.4	
1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1987	72.6 82.4 90.9 96.5 99.6 103.9 107.6 109.6 113.6 118.3	76.6 86.0 93.2 97.0 99.8 103.2 105.4 104.4 107.7 111.5	75.3 85.7 93.1 96.9 100.0 103.1 105.2 101.7 104.3 107.7	67.5 77.9 88.1 96.0 99.4 104.6 109.9 115.4 120.2 125.7 131.9	71.2 81.5 90.4 96.3 99.7 104.0 108.0 109.8 113.6 118.3 123.7	73.4 81.9 90.1 96.1 99.6 104.3 108.4 112.6 117.2 122.3 128.1	71.9 80.8 89.2 95.8 99.6 104.6 109.1 113.5 118.2 123.4 129.0	72.9 82.8 91.4 96.8 99.6 103.7 107.2 108.8 112.6 117.0	74.0 82.3 90.1 95.6 99.6 103.9 107.6 113.6 118.3 124.0	114.4 127.1 139.2 147.6 153.9 160.2 165.7 168.7 174.4 180.8	
1990	130.7 136.2 140.3 144.5 148.2 152.4 156.9 160.5 163.0	116.7 122.8 126.6 129.1 131.5 133.8 136.4 139.9 141.8 141.9	112.0 117.4 121.3 124.2 126.3 127.9 129.8 132.6 133.4 132.0 134.0	131.9 139.2 146.3 152.0 157.9 163.1 168.7 174.1 179.4 184.2 188.8	130.3 136.1 140.8 145.1 149.0 153.1 157.5 161.1 163.4 167.0	134.7 140.9 145.4 150.0 154.1 158.7 163.1 170.9 174.4	135.5 142.1 147.3 152.2 156.5 161.2 169.5 173.4	122.4 128.8 133.8 137.5 141.2 144.7 148.6 152.8 156.3 158.6	124.0 130.7 136.2 140.3 144.5 148.2 152.4 156.9 160.5 163.0	198.0 205.1 210.3 215.5 220.1 225.4 231.4 236.4 239.7 244.7	
2000 2001 2002 2002 2003 2004 2005 2007 2007 2008	172.2 177.1 179.9 184.0 188.9 195.3 201.6 207.342 215.303 214.537	149.2 150.7 149.7 151.2 154.7 160.2 164.0 167.509 174.764 169.698	139.2 138.9 136.0 136.5 138.8 144.5 148.0 149.720 155.310 147.071	195.3 203.4 209.8 216.5 222.8 230.1 238.9 246.848 255.498 259.154	173.0 177.8 180.5 184.7 189.4 196.0 202.7 208.098 215.528 214.008	178.6 183.5 187.7 190.6 194.4 198.7 203.7 208.925 214.751 218.433	181.3 186.1 190.5 193.2 196.6 200.9 205.9 210.729 215.572 219.235	167.3 171.9 174.3 178.1 182.7 188.7 194.7 200.080 207.777 206.555	172.2 177.1 179.9 184.0 188.9 195.3 201.6 207.342 215.303 214.537	252.9 260.0 264.2 270.1 277.4 286.7 296.1 304.5 316.2 315.0	102.0 104.3 105.6 107.8 110.5 113.7 117.0 119.957 124.433 123.850
2010 2011 2012	218.056 224.939 229.594	174.566 183.862 187.577	152.990 162.409 165.264	261.274 265.762 271.374	217.828 224.503 228.962	220.458 224.806 229.717	221.337 225.008 229.755	209.689 216.325 220.553	218.056 224.939 229.594	320.2 330.3 337.2	125.615 129.144
2011: Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec Dec Mar	220.223 221.309 223.467 224.906 225.964 225.722 225.545 226.889 226.421 226.230 225.672	177.480 178.874 182.728 185.311 186.804 185.266 184.931 185.566 186.015 185.236 184.791 183.345	155.682 157.221 161.804 164.964 166.657 164.461 163.664 164.059 164.287 163.084 162.572 160.453	262.701 263.480 263.956 264.256 264.883 265.928 266.660 267.271 267.510 267.352 267.413 267.737	219.820 220.937 223.192 224.731 225.826 225.485 225.566 226.092 226.329 225.717 225.532 224.805	221.666 222.506 223.315 223.798 224.275 224.635 225.010 225.797 226.303 226.754 226.818 226.795	222.177 223.011 223.690 224.118 224.534 224.891 225.164 225.874 226.289 226.743 226.859 226.740	211.714 212.709 214.907 216.346 217.414 217.158 217.336 217.955 218.281 217.730 217.479 216.875	220.223 221.309 223.467 224.906 225.964 225.722 226.545 226.849 226.421 226.230 225.672	323.4 325.0 328.2 330.3 331.8 331.5 331.8 332.7 333.2 332.5 332.2 331.4	126.700 127.286 128.353 129.062 129.548 129.531 129.636 129.974 130.196 129.997 129.856
2012: Jan Feb Mar Apr May June July Aug Sept Oct. Nov Dec	226.665 227.663 229.392 230.085 229.815 229.478 229.104 230.379 231.407 231.317 230.221 229.601	184.636 186.279 189.201 190.089 188.963 186.967 185.872 187.952 189.575 189.338 186.845 185.204	161.685 163.994 167.858 168.899 167.323 164.516 162.997 165.628 167.785 167.239 163.834 161.405	268.459 268.819 269.396 269.901 270.462 271.737 272.062 272.560 273.014 273.066 273.323 273.694	225.739 226.927 228.887 229.621 229.290 228.863 228.417 229.813 230.985 230.787 229.509 228.709	227.422 227.925 228.705 229.252 229.520 229.788 229.811 230.148 230.661 231.169 231.160 231.043	227.237 227.865 228.735 229.303 229.602 229.879 229.893 230.196 230.780 231.276 231.263 231.033	217.804 218.737 220.483 221.159 220.833 220.416 219.972 221.275 222.301 222.195 221.049 220.408	226.665 227.663 229.392 230.085 229.815 229.478 229.104 230.379 231.407 231.317 230.221 229.601	332.9 334.3 336.9 337.9 337.0 336.4 338.3 339.8 339.7 338.1 337.2	130.104 130.569 131.388 131.731 131.639 131.557 131.352 131.940 132.438 132.434 131.949

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 (1982–84=100) and is identical with CPI-U data from December 1982 forward.

forward.

3 Consumer price index research series (CPI-U-RS) using current methods introduced in June 1999. Data for 2012 are preliminary. All data are subject to revision annually.

⁴ Chained consumer price index (C-CPI-U) introduced in August 2002. Data for 2011 and 2012 are subject to revision.

Table B-63. Changes in special consumer price indexes, 1969-2012

[For all urban consumers; percent change]

	All it	tems	All iter fo	ns less od	All iter	ns less ergy	All iter food and	ns less d energy	All iter medic	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
1969	6.2 5.6 3.3 8.7 12.3 6.9 4.9 9.0 13.3 12.5 8.9 3.8 3.9 3.8 1.1 4.4 4.6 6.6 1.1 2.9 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7	5.5 5.7 4.4 3.2 6.2 11.0 9.1 5.8 5.8 5.8 7.6 11.3 13.5 10.3 6.2 4.3 3.0 2.3 3.0 2.3 3.0 2.3 3.0 2.3 3.0 2.3 3.0 2.3 3.0 2.3 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3	5.6 6.6 3.0 5.6 12,2 12,7,3 6.1 6.4 8.3 14.0 13.0 9.8 4.1 1.5 4.6 4.2 4.5 3.3 3.3 2.7 2.6 2.7 3.1 1.8 3.5 2.6 1.3 2.6 4.6 3.3 3.4 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	5.4 6.0 4.6 9.8 9.4 6.7 7.2 11.4 14.5 10.9 6.5 4.3 3.5 4.1 4.6 5.3 5.4 1.7 2.7 2.3 3.6 2.9 2.3 3.6 2.9 2.3 3.6 2.7 2.7 2.8 2.9 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	6.5 5.4 3.4 3.5 8.2 11.7 6.6 4.8 9.1 11.1 11.1 11.1 11.1 11.7 8.5 4.4 4.4 4.4 4.5 4.5 4.5 3.9 3.0 2.6 2.9 2.1 2.6 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	5.8 6.1 4.2 9.8 8.9 5.6 6.4 7.8 10.0 6.7 3.6 4.7 5.2 4.6 3.2 2.7 3.2 2.7 3.2 2.7 2.8 2.5 2.3 2.0 2.4 2.7 2.3 2.7 2.3 2.7 2.3 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7	6.2 6.6 3.1 3.0 4.7 11.1 6.7 6.1 8.5 11.3 12.2 9.5 4.8 4.7 4.7 4.3 3.2 2.6 3.2 2.6 2.2 2.4 1.9 2.6 2.7 1.9 2.6 2.7 1.9 2.6 2.7 1.9 2.6 2.7 1.9 2.6 2.7 1.9 2.6 2.7 1.9 2.6 2.7 1.9 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7	5.8 6.3 4.7 3.6 8.3 9.1 6.5 7.4 9.8 10.4 7.4 4.0 5.0 4.0 4.0 4.1 4.5 5.0 4.9 3.7 2.4 4.1 2.2 2.3 2.1 2.4 1.8 2.2 2.5 2.3 1.7 2.1	6.1 5.2 3.2 3.2 9.1 12.2 6.7 4.5 6.7 9.1 13.4 4.2 4.5 5 2.7 2.7 2.7 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	5.4 5.9 4.1 3.2 6.4 11.2 9.0 5.3 7.6 10.4 5.9 4.1 5.9 4.1 5.9 4.1 5.3 3.9 4.6 5.2 2.7 2.5 2.7 2.8 2.7 2.8 2.3 2.7 2.8 2.3 2.7 2.8 2.7 2.8 2.7 2.8 2.7 2.8 2.7 2.8 2.7 2.8 2.7 2.8 2.7 2.8 2.7 2.8 2.7 2.8 2.7 2.8 2.7 2.8 2.7 2.8 2.7 2.8 2.7 2.8 2.7 2.8 2.7 2.8 2.7 2.8 2.7 2.8 2.7 2.8 2.7 2.8 2.7 2.8 2.7 2.8 2.7 2.8 2.7 2.8 2.7 2.8 2.7 2.8 2.7 2.8 2.7 2.8 2.7 2.8 2.7 2.8 2.7 2.8 2.7 2.8 2.7 2.8 2.7 2.8 2.7 2.8 2.7 2.8 2.7 2.8 2.7 2.8 2.7 2.8 2.7 2.8 2.8 2.7 2.8 2.7 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8
	Unad-	Seasonally	Unad-	Percer Seasonally	nt change fro Unad-	m preceding r Seasonally	nonth Unad-	Seasonally	Unad-	Seasonally
2014	justed	adjusted'	justed	adjusted [']	justed	adjusted'	justed	adjusted'	justed	adjusted'
2011: Jan Feb Mar Apr May June July Aug Sept Mar Apr May Sept Dec 2012: Jan Feb Mar Apr May June July Aug Sept Oct Cott Nov Dec 2012: Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec Sept Oct Nov Dec Sept Oct Nov Dec	0.5 5.5 1.00 1.66 5.5 1.10 1.1 1.1 1.1 1.3 2.2 1.1 1.2 1.2 1.4 4.4 1.8 1.3 1.1 1.1 1.1 1.2 1.6 6.6 4.4 1.5 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	0.3 4.4 3.1 3.3 3.3 9.1 0.2 4.4 3.0 9.0 6.6 1.3 9.0 6.6 1.3	0.4 5.5 1.0 7.7 5.2 0.0 2 2 1.1 1 3 4.5 9.9 3.3 1 2 2 6.5 5.5 1 2 2	0.2 4.4 3.1 3.3 2.2 -1.1 0.0 2.5 3.0 0.0 7.7 -1.4 -1.1	0.3 4 4 2 2 2 2 2 2 2 3 3 2 2 2 2 2 3 3 2 2 2 2 2 1 1 1 1	0.2 2.2 2.2 2.2 2.3 3.1 2.2 2.2 2.1 1.1 2.2 2.2 2.1 1.1 1.1	0.2 4.4 3.2 2.2 2.2 1.1 3.3 2.2 2.1 1.1 0.0 1.1 3.3 2.2 2.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	0.2 2 2 3 2 2 2 2 2 2 1 1 2 2 2 2 1 1 1 1 1 1 1 1	0.5	0.3 .46.4 .43.1 .33.3 .7.1 .0.2 .44.3 .0.3 .0.66.6 .23.0

¹ Changes from December to December are based on unadjusted indexes.

Source: Department of Labor (Bureau of Labor Statistics).

Table B-64. Changes in consumer price indexes for commodities and services, 1941-2012 [For all urban consumers: percent change]

	All it	ems	Commodities			юз. рого	Serv	rices		Medica	I care ²	Ene	rgy ³	
Voor	D	V	Tot	tal	Fo	od	Tot	tal	Medica	al care	D	V	D	V
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	Dec. to Dec. 1	Year to year	Dec. to Dec. 1	Year to year	Dec. to Dec. 1	Year to year
1941 1942 1943 1944 1945 1946 1947 1948 1950 1951 1955 1955 1955 1956 1956 1960 1961 1962 1963 1960 1961 1963 1966 1963 1968 1968 1970 1971 1972 1973 1974 1975 1977 1978 1979 1979 1979 1979 1979 1979 1979 1979 1978 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1980 1980 1980 1980 1980 1981 1982 1983 1983 1984 1988 1989 1989 1989 1989 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1990 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900 1900	9.90 3.23 2.22 18.18 3.21 5.90 6.08 7.7 4.3 1.4 7.3 1.60 1.9 5.3 1.1 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9	10.9 10.9 10.9 10.9 10.9 10.9 10.9 10.9	13.3 12.9 2.9 2.9 2.9 2.0 2.9 2.0 2.0 2.0 3.0 1.7 1.7 1.7 2.6 2.0 3.0 3.0 3.6 3.0 3.6 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	67 145 93 30 30 30 205 72 27 27 7 9 9 10 32 21 11 26 47 43 43 43 43 43 43 43 43 43 43 43 43 43	15.7 17.9 3.0 0 3.5 3.1 3.3 3.0 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.1 1.3 3.	92 176 6 110 0 12 12 14 14 14 14 14 14 15 18 18 18 18 18 18 18 18 18 18 18 18 18	24332276669736624420044279.551644678220344220344279.55164467834845555533866697728138.554543845555554438823538866697728138.55458438823538866697728138.55458438823538866697728138.55458438823538866697728138.55458438823538866697728138.55458438823538866697728138.55458438823538866697728138.55458438823538866697728138.5545843884555555888235388666977288138.554584388455555888823538866697728813885584388888888888888888888888888888	08 31 23 22 21 55 11,4 43 61 51 30 53 43 43 31 11,7 20 20 20 21,5 61 61 61 61 61 61 61 61 61 61 61 61 61	1.256 3.21 3.10 9.6496 4.03 3.4469 4.69 3.759 2.83 8.30 7.13 8.147 3.59 2.83 8.30 7.13 10.16 11.22 10.88 10.16 11.22 10.88 10.16 11.22 10.88 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.95 10.	00 355 453 311 511 517 77,1 324 467 335 467 329 334 433 453 345 453 345 453 345 453 345 453 345 453 345 453 345 453 345 453 345 453 345 453 345 453 345 453 345 453 345 453 345 453 345 453 345 345	1.0 3.88 4.66 2.66 8.33 6.99 5.84 3.47 4.58 3.23 3.22 2.51 2.88 6.73 4.66 2.25 2.51 2.51 2.51 2.51 2.51 2.51 2.51	0.0 29 4.7 6.0 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5		0.00 1.93 2.34 4.44 0.04 1.77 2.55 2.86 8.11 2.96 8.11 2.96 8.11 2.96 8.11 2.96 8.11 3.99 2.66 8.11 3.99 1.96 3.99 1.96 3.99 1.96 3.99 1.96 3.99 1.96 3.99 1.96 3.99 1.96 3.99 1.96 3.99 1.96 3.99 1.90 3.99 1.90 3.99 1.90 3.90 3.90 3.90 3.90 3.90 3.90 3.90 3
2006	2.5 4.1 .1 2.7	3.2 2.8 3.8 4	1.3 5.2 -4.1 5.5 2.0	2.4 2.1 4.3 –2.9	2.1 4.9 5.9 5	2.4 4.0 5.5 1.8	3.4 3.3 3.0 .9	3.8 3.3 3.5 1.4	4.1 5.9 3.0 3.4	4.1 5.3 4.2 3.2 3.5	3.6 5.2 2.6 3.4 3.3	4.0 4.4 3.7 3.2 3.4	2.9 17.4 -21.3 18.2 7.7	11.2 5.5 13.9 –18.4
2012	3.0 1.7	3.2 2.1	4.2 1.0	2.9 5.3 2.0	1.5 4.7 1.8	3.7 2.6	2.2 2.2	1.7 2.1	3.4 3.6 3.7	3.1 3.9	3.5 3.2	3.0 3.7	6.6 .5	15.4

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. Source: Department of Labor (Bureau of Labor Statistics).

TABLE B-65. Producer price indexes by stage of processing, 1966-2012 [1982=100]

					Finishe	d goods				
		C	onsumer food	S		Finished good	s excluding co	onsumer foods		Total
Year or month	Total finished						onsumer good	ls		finished
	goods	Total	Crude	Processed	Total	Total	Durable	Nondurable	Capital equipment	consumer goods
1966	35.2	39.2	41.5	39.2		34.1	43.4	29.3	34.6	35.4
1967	35.6	38.5	39.6	38.8	35.0	34.7	44.1	30.0	35.8 37.0	35.6 36.5 37.9
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	36.5
1970	39.3	43.8	46.0	43.9	38.2	37.4	47.2	32.5	40.1	39.1
1971	40.5	44.5	45.8	44.7	39.6	38.7	48.9	33.5	41.7	40.2
1972 1973	41.8	46.9	48.0	47.2	40.4	39.4	50.0	34.1	42.8	40.2 41.5
1974	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	46.0 53.1
1975 I	58.2	69.8	71.7	70.3	54.7	53.2	61.0	48.9	58.2	58.2
1976 1977	60.8	69.6	76.7	69.0	58.1	56.5	63.7	52.4	62.1	60.4
1978 I	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	64.3 69.4
1979	77.6	87.3	92.3	86.8	74.6	73.5	80.8	69.3	77.5	77.5
1980	88.0	92.4	93.9	92.3	86.7	87.1	91.0	85.1	85.8	88.6
1981	96.1 100.0	97.8 100.0	104.4 100.0	97.2 100.0	95.6 100.0	96.1 100.0	96.4 100.0	95.8 100.0	94.6 100.0	96.6 100.0
1982	101.6	101.0	102.4	100.9	101.8	101.2	102.8	100.5	102.8	101.3
1984	103.7	105.4	111.4	104.9	103.2	102.2	104.5	101.1	105.2	101.3 103.3
1985	104.7 103.2	104.6 107.3	102.9 105.6	104.8 107.4	104.6 101.9	103.3 98.5	106.5 108.9	101.7 93.3	107.5 109.7	103.8 101.4
1987	105.4	109.5	107.1	109.6	104.0	100.7	111.5	I 94.9	111.7	103.6
1988	108.0	112.6	109.8 119.6	112.7 118.6	106.5 111.8	103.1 108.9	113.8 117.6	97.3 103.8	114.3 118.8	106.2 112.1
1989 1990	113.6 119.2	118.7 124.4		124.4	117.4	115.3	120.4	111.5	122.9	118.2
1990	121.7	124.4	123.0 119.3	124.4	120.9	118.7	120.4	115.0	122.9	120.5
1997	123.2	123.3	107.6	124.4	123.1	120.8	125.7	117.3	129.1	121.7
1993 1994	124.7	125.7 126.8	114.4 111.3	126.5 127.9	124.4	121.7 121.6	128.0 130.9	117.6 116.2	131.4 134.1	123.0
1995	125.5 127.9	129.0	118.8	127.3	125.1 127.5	124.0	132.7	118.8	136.7	123.3 125.6
1996	131.3	133.6	129.2	133.8	130.5	127.6	134.2	123.3	138.3	129.5
1997 1998	131.8 130.7	134.5 134.3	126.6 127.2	135.1 134.8	130.9 129.5	128.2 126.4	133.7 132.9	124.3 122.2	138.2 137.6	130.2 128.9
1999	133.0	135.1	125.5	135.9	132.3	130.5	133.0	127.9	137.6	132.0
2000	138.0	137.2	123.5	138.3	138.1	138.4	133.9	138.7	138.8	138.2 141.5
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	141.5 139.4
2003	143.3	145.9	130.0	147.2	142.4	144.7	133.0	148.4	139.5	145.3
2004 I	148.5	152.7	138.2	153.9	147.2	150.9	135.0	156.6	141.4	151.7
2005	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	160.4 166.0
2006 2007	166.6	167.0	170.2	166.7	166.2	175.6	138.3	191.7	149.5	173.5
2008	177.1	178.3	175.5	178.6	176.6	189.1 179.4	141.2	210.5	153.8	186.3
2009	172.5 179.8	175.5 182.4	157.8 172.6	177.3 183.3	171.1 178.3	190.4	144.3 144.9	194.1 210.1	156.7 157.3	179.1 189.1
2011 I	179.6	193.9	182.3	195.0	176.3	205.5	144.9	231.5	157.3	203.3
2012 ^p	194.2	199.0	167.8	202.0	192.2	209.1	151.0	235.1	162.8	207.3
2011: Jan	184.4	186.9	190.5	186.3	183.0	197.0	145.7	219.7	158.4	195.2 198.2
Feb Mar	186.6 189.1	193.4 192.9	230.7 198.9	188.9 191.9	184.2 187.4	198.7 203.7	146.0 146.2	222.1 229.5	158.7 158.8	201.8
Apr	191 4	193.0	182.6	194.0	190.1	207.8	146.8	235.2	159.2	204.8
May June	192.5 191.4	191.0 192.4	160.0 170.8	194.3 194.7	191.9 190.3	210.5 207.8	146.6 146.9	239.4 235.2	159.2 159.5	206.3 204.7
July	191.4	193.5	165.8	194.7	190.3	207.6	140.9	236.6	159.5	204.7
Aug	191./ [195.7	169.1	198.5	189.8	207.0	147.3	233.8	159.7	204.9
Sept Oct	192.6 191.8	197.0 195.9	175.9 174.9	199.2 198.1	190.7 189.9	208.3 206.3	147.3 149.7	235.7	159.8 161.2	206.2
Nov	191.7	197.9	187.1	198.9	189.4	205.5	149.7	231.6 230.4	161.3	204.5 204.4
Dec	191.1	197.2	180.9	198.9	188.8	204.4	149.5	228.8	161.4	203.4
2012: Jan	192.0	197.0	166.1	199.9	190.0	206.0	150.2	230.8	162.1	204.5
Feb Mar	192.9 194.4	196.7 197.3	159.2 167.3	200.2 200.2	191.1 192.8	207.6 210.4	150.3 150.3	233.2 237.3	162.3 162.3	205.6 207.8
Anr	194.9	197.5	165.6	200.5	193.4	210.4 211.2	150.5	237.3 238.4	162.3 162.5	208.5
May	193.7	197.2	158.2	200.9	192.0	208.9 206.9	150.2 150.4	235.1	162.4	206.7 205.5
June July	192.8 193.2	198.1 198.1	165.6 162.9	201.2 201.4	190.7 191.2	200.9	150.4	232.1 232.5	162.5 162.8	205.5
AHO	195.4	200.0	162.9 175.1	202.4	193.5	207.4 211.1	150.9	238.1	162.8	209.1
Sept ¹	196.7 196.3	200.8 200.5	174.9 164.7	203.3 203.8	194.9 194.4	213.6 212.2	150.4 152.5	242.1 238.9	162.5 163.5	211.2 210.0
Nov 1	194.5	203.1	178.4	205.5	191.7	207.6	152.7	232.0	163.8	207.3
Dec ¹	193.6	201.8	176.0	204.3	190.8	206.4	152.4	230.3	163.6	206.1

¹ Data have been revised through August 2012; 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, 1966-2012—*Continued* [1982=100]

		Inte	rmediate r	naterials, s	upplies, an	ıd compone	ents		Cr	ude materia	als for furth	ner process	ing
V				Materia		Proc- essed				Food-	Nor	nfood mate	rials
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
1966 1967 1968 1969	32.0 32.2 33.0 34.1	41.8 41.5 42.9	31.3 31.7 32.5 33.6	34.3 34.5 35.3 36.5	33.6 34.0 35.7 37.7	16.8 16.9 16.5 16.6	34.5 35.0 35.9 37.2	36.5 36.8 37.1 37.8	33.1 31.3 31.8 33.9	42.7 40.3 40.9 44.1	21.1 21.6 22.5	10.9 11.3 11.5 12.0	28.3 26.5 27.1 28.4
1970 1971 1972 1973 1973 1974 1975 1976 1977 1978	35.4 36.8 38.2 42.4 52.5 58.0 60.9 64.9 69.5 78.4	45.6 46.7 49.5 70.3 83.6 81.6 77.4 79.6 84.8 94.5	34.8 36.2 37.7 40.6 50.5 56.6 60.0 64.1 68.6 77.4	38.0 38.9 40.4 44.1 56.0 61.7 64.0 67.4 72.0 80.9	38.3 40.8 43.0 46.5 55.0 60.1 64.1 69.3 76.5 84.2	17.7 19.5 20.1 22.2 33.6 39.4 42.3 47.7 49.9 61.6	39.0 40.8 42.7 45.2 53.3 60.0 63.1 65.9 71.0 79.4	39.7 40.8 42.5 51.7 56.8 61.8 65.8 69.3 72.9 80.2	35.2 36.0 39.9 54.5 61.4 61.6 63.4 65.5 73.4 85.9	45.2 46.1 51.5 72.6 76.4 77.4 76.8 77.5 87.3 100.0	23.8 24.7 27.0 34.3 44.1 43.7 48.2 51.7 57.5 69.6	13.8 15.7 16.8 18.6 24.8 30.6 34.5 42.0 48.2 57.3	29.1 29.4 32.3 42.9 54.5 50.0 54.9 56.3 61.9 75.5
1980 1981 1982 1983 1984 1985 1986 1987 1987	90.3 98.6 100.0 100.6 103.1 102.7 99.1 101.5 107.1 112.0	105.5 104.6 100.0 103.6 105.7 97.3 96.2 99.2 109.5 113.8	89.4 98.2 100.0 100.5 103.0 103.0 99.3 101.7 106.9 111.9	91.7 98.7 100.0 101.2 104.1 103.3 102.2 105.3 113.2 118.1	91.3 97.9 100.0 102.8 105.6 107.3 108.1 109.8 116.1 121.3	85.0 100.6 100.0 95.4 95.7 92.8 72.7 73.3 71.2 76.4	89.1 96.7 100.0 100.4 105.9 109.0 110.3 114.5 120.1	89.9 96.9 100.0 101.8 104.1 104.4 105.6 107.7 113.7	95.3 103.0 100.0 101.3 103.5 95.8 87.7 93.7 96.0 103.1	104.6 103.9 100.0 101.8 104.7 94.8 93.2 96.2 106.1 111.2	84.6 101.8 100.0 100.7 102.2 96.9 81.6 87.9 85.5 93.4	69.4 84.8 100.0 105.1 105.1 102.7 92.2 84.1 82.1 85.3	91.8 109.8 100.0 98.8 101.0 94.3 76.0 88.5 85.9 95.8
1990 1991 1992 1993 1994 1995 1996 1997 1998	114.5 114.4 114.7 116.2 118.5 124.9 125.7 125.6 123.0 123.2	113.3 111.1 110.7 112.7 114.8 114.8 128.1 125.4 116.2	114.5 114.6 114.9 116.4 118.7 125.5 125.6 125.7 123.4 123.9	118.7 118.1 117.9 118.9 122.1 130.4 128.6 128.3 126.1	122.9 124.5 126.5 132.0 136.6 142.1 143.6 146.5 146.8	85.9 85.3 84.5 84.7 83.1 84.2 90.0 89.3 81.1	127.7 128.1 127.7 126.4 129.7 148.8 141.1 136.0 140.8 142.5	119.4 121.4 122.7 125.0 127.0 132.1 135.9 135.9 134.8 134.2	108.9 101.2 100.4 102.4 101.8 102.7 113.8 111.1 96.8 98.2	113.1 105.5 105.1 108.4 106.5 105.8 121.5 112.2 103.9 98.7	101.5 94.6 93.5 94.7 94.8 96.8 104.5 106.4 88.4 94.3	84.8 82.9 84.0 87.1 82.4 72.1 92.6 101.3 86.7 91.2	107.3 97.5 94.2 94.1 97.0 105.8 105.7 103.5 84.5
2000	129.2 129.7 127.8 133.7 142.6 154.0 164.0 170.7 188.3 172.5	111.7 115.9 115.5 125.9 137.1 133.8 135.2 154.4 181.6	130.1 130.5 128.5 134.2 143.0 155.1 165.4 171.5 188.7 173.0	128.1 127.4 126.1 129.7 137.9 146.0 155.9 162.4 177.2	150.7 150.6 151.3 153.6 166.4 176.6 188.4 192.5 205.4 202.9	102.0 104.5 96.3 112.6 124.3 150.0 162.8 173.9 206.2 161.9	151.6 153.1 152.1 153.7 159.3 167.1 175.0 180.3 191.8	136.9 138.7 138.9 141.5 146.7 151.9 157.0 161.7 173.8 172.2	120.6 121.0 108.1 135.3 159.0 182.2 184.8 207.1 251.8 175.2	100.2 106.1 99.5 113.5 127.0 122.7 119.3 146.7 163.4 134.5	130.4 126.8 111.4 148.2 179.2 223.4 230.6 246.3 313.9 197.5	136.9 151.4 117.3 185.7 211.4 279.7 241.5 236.8 298.3 166.3	118.0 101.5 101.0 116.9 149.2 176.7 210.0 238.7 308.5 211.1
2010 2011 2012 <i>p</i>	183.4 199.8 200.7	171.7 192.3 201.5	184.4 200.4 200.6	174.0 189.8 189.0	205.7 212.8 218.4	185.2 215.0 213.1	201.2 205.4 207.0	175.0 184.2 188.9	212.2 249.4 241.4	152.4 188.4 196.2	249.3 284.0 263.2	188.0 181.5 144.4	280.8 342.0 332.4
2011: Jan Feb Mar Apr Apr June July Aug Sept Oct Nov Dec Sept Cotton	190.6 193.7 197.6 201.0 203.2 203.3 204.1 202.8 203.2 200.2 199.9	180.2 185.0 189.1 192.5 192.9 194.1 195.3 197.9 198.7 194.9	191.4 194.4 198.2 201.7 204.0 204.8 203.1 203.5 200.5 200.2	181.5 185.2 187.7 191.1 192.6 192.4 193.3 192.7 192.8 190.6 189.5	208.3 209.5 210.9 212.1 212.8 213.7 214.7 214.6 214.5 214.4 214.2	196.2 200.9 212.0 218.6 224.3 224.2 225.1 219.5 221.0 212.2 213.9	203.4 203.9 204.4 204.9 206.4 206.8 207.1 205.9 206.0 205.4 205.3	179.6 180.9 182.3 183.9 184.5 185.2 185.7 186.1 186.7 185.8 185.4	235.9 242.8 248.2 261.3 255.5 256.8 256.9 251.2 242.8 248.5 248.5	171.6 184.4 185.7 193.1 190.3 195.3 192.6 196.3 192.4 186.3 188.6	274.9 275.5 284.4 301.7 293.6 291.3 293.9 279.7 283.4 273.8 282.2 274.0	186.5 190.0 176.9 187.3 189.7 190.8 191.0 190.1 178.8 171.7 164.0	323.8 322.2 345.7 367.0 352.1 347.5 351.7 329.2 342.8 350.8 350.8
2012: Jan Feb	198.8 200.0 203.3 203.0 201.5 199.7 198.8 200.7 202.9 201.8 199.4 199.1	193.3 193.4 194.9 196.2 197.6 198.9 201.7 207.4 209.7 209.4 208.6 206.6	199.1 200.4 203.9 203.4 201.7 199.6 198.4 200.1 202.2 201.0 198.5	188.6 190.5 192.6 192.7 191.4 187.9 186.6 188.3 188.0 187.3 187.5	215.3 216.8 217.4 218.3 219.1 219.1 218.5 218.7 219.1 219.2 219.4 220.0	209.8 210.1 220.0 216.9 211.4 210.7 208.8 216.2 222.5 217.7 207.8 205.6	205.5 206.7 206.7 207.0 207.0 206.7 206.2 206.1 206.3 206.5 209.2 210.0	185.5 186.0 187.1 187.7 188.4 188.4 189.1 190.6 191.2 191.1 190.6 190.5	246.0 245.2 248.7 242.0 234.9 227.1 232.9 242.7 244.5 242.3 244.1 245.9	188.8 190.9 195.8 190.6 189.9 188.9 196.2 201.4 201.7 202.4 204.3 204.0	277.6 274.4 276.4 269.0 257.0 244.2 248.4 261.4 264.3 259.7 261.4 264.8	154.4 142.3 135.2 126.9 125.2 133.8 141.5 147.5 141.3 163.9 171.0	349.1 351.4 359.1 352.3 334.2 308.5 310.4 327.5 335.9 323.9 317.6 318.6

² Intermediate materials for food manufacturing and feeds. Source: Department of Labor (Bureau of Labor Statistics).

TABLE B-66. Producer price indexes by stage of processing, special groups, 1974-2012 [1982=100]

				shed ods			Interm		terials, su iponents	pplies,	Cru		als for fur essing	ther
				Excludin	g foods an	d energy								
Year or month	Total	Foods	Energy	Total	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 1980 1981 1982 1983 1988 1985 1987 1989 1990 1991 1991 1992 1993 1999 1990 2000 2010 2001 2001 2001 2002 2003 2006 2006 2007 2008 2009 2011 2011 2011 2011 2011 2012 2012	52.6 60.8 64.7 69.8 60.0 60.8 64.7 7.6 69.8 69.8 77.6 69.8 69.8 77.6 69.8 69.1 69.8 69.1 69.1 69.1 69.1 69.1 69.1 69.1 69.1	64.4 69.8 69.6 73.3 79.9 87.3 92.4 97.8 100.0 105.4 104.6 118.7 124.1 123.3 125.7 126.8 129.0 133.6 134.5 134.5 137.2 141.3 145.9 155.7 156.7 156.7 156.7 156.7 156.9 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 193.0 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100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6 100.6	83.6 81.6 81.6 81.6 81.6 81.6 81.6 81.6 81	33.1 38.7 41.5 46.8 49.1 100.5 100.0 95.3 92.6 66.7 73.0 70.9 92.6 85.5 85.1 84.3 84.3 84.3 84.1 85.1 104.7 105.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 107.1 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135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 135.4 13	61.4 61.6 63.4 65.5 73.4 46.0 65.5 73.4 66.5 73.4 66.5 73.4 66.5 73.4 66.5 73.4 66.5 73.4 66.5 73.4 66.5 73.4 66.5 73.4 66.5 73.4 73.4 73.4 73.4 73.4 73.4 73.4 73.4	76.4 77.4 77.4 77.6 87.3 100.0 101.6 103.9 96.2 106.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 105.1 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135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7 135.7
Feb Mar Apr May June July Aug Sept 2 Oct 2 Nov 2 Dec 2	192.9 194.4 194.9 193.7 192.8 193.2 195.4 196.7 196.3 194.5 193.6	196.7 197.3 197.5 197.2 198.1 198.1 200.0 200.8 200.5 203.1 201.8	190.9 196.8 198.5 193.4 188.8 188.2 196.1 201.9 197.1 186.7 183.8	181.5 181.6 181.7 181.7 181.8 182.6 182.7 182.4 183.6 183.8 183.7	162.3 162.3 162.5 162.4 162.5 162.8 162.8 162.5 163.5 163.8 163.6	195.5 195.6 195.7 195.8 195.9 197.1 197.4 197.2 198.4 198.6 198.7	200.0 203.3 203.0 201.5 199.7 198.8 200.7 202.9 201.8 199.4 199.1	193.4 194.9 196.2 197.6 198.9 201.7 207.4 209.7 209.4 208.6 206.6	215.9 226.2 222.9 217.1 215.5 213.0 220.9 227.5 222.6 212.3 210.0	193.2 194.6 194.9 194.4 192.2 191.4 191.2 192.0 191.9 191.8 192.2	245.2 248.7 242.0 234.9 227.1 232.9 242.7 244.5 242.3 244.1 245.9	190.9 195.8 190.6 189.9 188.9 196.2 201.4 201.7 202.4 204.3 204.0	228.1 228.9 220.5 207.7 197.4 204.7 219.4 221.7 218.8 220.3 223.1	383.5 387.6 382.7 374.4 357.7 354.2 361.4 364.9 357.7 361.9 367.4

Source: Department of Labor (Bureau of Labor Statistics).

Intermediate materials for food manufacturing and feeds.
 Data have been revised through August 2012; data are subject to revision four months after date of original publication.

Table B–67. Producer price indexes for major commodity groups, 1966-2012 [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
1966 1967 1968 1969	41.6 40.2 41.1 43.4	43.7 41.3 42.3 45.0	40.2 39.8 40.6 42.7	31.5 32.0 32.8 33.9	48.9 48.9 50.7 51.8	39.4 38.1 39.3 41.5	14.1 14.4 14.3 14.6	34.0 34.2 34.1 34.2
1970	44.9 45.8 49.2 63.9 71.3 74.0 73.6 75.9	45.8 46.6 51.6 72.7 77.4 77.0 78.8 79.4	44.6 45.5 48.0 58.9 68.0 70.8 74.0	35.2 36.5 37.8 40.3 49.2 54.9 58.4 62.5	52.4 53.3 55.5 60.5 68.0 67.4 72.4 75.3 78.1	42.0 43.4 50.0 54.5 55.2 56.5 63.9 68.3	15.3 16.6 17.1 19.4 30.1 35.4 38.3 43.6 46.5	35.0 35.6 35.6 37.6 50.2 62.0 64.0 65.9
1979	92.3 98.3 101.1 100.0 105.5 100.7 101.2 103.7 110.0 115.4	99.6 102.9 105.2 100.0 102.4 105.5 95.1 92.9 95.5 104.9 110.9	88.5 95.9 98.9 100.0 101.8 105.4 103.5 105.4 112.7 117.8	75.7 88.0 97.4 100.1 101.1 103.3 103.7 100.0 102.6 106.3	82.5 89.7 97.6 100.3 102.7 102.9 103.2 105.1 109.2 112.3	96.1 94.7 99.3 100.0 103.0 108.9 113.0 120.4 131.4 136.3	58.9 82.8 100.2 100.0 95.9 94.8 91.4 69.8 70.2 66.7 72.9	76.0 89.0 98.4 100.0 100.3 102.9 103.7 102.6 106.4 116.3
1990	118.6 116.4 115.9 118.4 119.1 120.5 129.7 127.7 122.7 120.3	110.2 105.7 103.6 107.1 106.3 107.4 122.4 112.9 104.6 98.4	121.9 121.9 122.1 124.0 125.5 127.0 133.3 134.0 131.6	111.8 116.5 117.4 119.0 120.7 125.5 127.3 127.7 124.8 126.5	115.0 116.3 117.8 118.0 118.3 120.8 122.4 122.6 122.9	141.7 138.9 140.4 143.7 148.5 153.7 150.5 154.2 148.0 146.0	82.3 81.2 80.4 80.0 77.8 78.0 85.8 86.1 75.3	123.6 123.6 125.9 128.2 132.1 142.5 142.1 143.9 144.2
2000 2001 2002 2003 2004 2005 2006 2007 2008 2008 2009	122.0 126.2 123.9 132.8 142.0 141.3 141.2 157.8 173.8	99.5 103.8 99.0 111.5 123.3 118.5 117.0 143.4 161.3	133.1 137.3 136.2 143.4 151.2 153.1 153.8 165.1 180.5	134.8 135.7 132.4 139.1 147.6 160.2 168.8 175.1 192.3	121.4 121.3 119.9 119.8 121.0 122.8 124.5 125.8 128.9 129.5	151.5 158.4 157.6 162.3 164.5 165.4 168.4 173.1 157.0	103.5 105.3 93.2 112.9 126.9 156.4 166.7 177.6 214.6 158.7	151.0 151.8 151.9 161.8 174.4 192.0 205.8 214.8 245.5
2010	171.2 193.9 200.6 182.9 191.0	151.0 186.7 192.4 173.3 189.8	182.3 197.5 205.2 187.9 191.3	187.0 202.0 202.1 194.2 196.4	131.7 141.7 142.2 136.1 137.7	181.4 199.9 202.0 192.8 196.3	185.8 215.9 212.1 198.4 201.9	246.6 275.1 276.8 262.2 267.3
Mar Apr May June July Aug Sept Oct Nov Dec	191.4 195.2 193.5 196.2 195.7 198.4 198.3 194.5 195.8	185.1 191.1 186.0 192.6 188.4 192.2 190.3 183.5 186.7 181.3	194.5 197.1 197.3 197.8 199.4 201.6 202.4 200.3 200.6	200.4 204.2 205.7 205.0 205.9 203.7 204.4 201.9 202.1 200.6	139.7 141.1 143.0 143.3 143.3 143.6 143.8 143.3 143.0	198.3 202.9 203.6 203.0 203.4 202.9 203.5 200.8 196.6 195.0	214.2 223.9 227.6 224.0 225.5 217.4 219.9 212.4 215.1 210.9	270.3 276.4 280.6 279.7 280.5 280.1 280.9 277.2 274.9
2012: Jan	195.1 195.5 197.7 196.9 196.6 197.1 200.9 204.5 205.7 205.2 206.2	184.7 185.7 191.1 187.0 185.1 184.7 193.9 199.4 199.7 198.0	200.7 200.9 201.6 202.3 202.8 203.7 205.0 207.8 209.3 209.9	201.4 202.4 205.1 204.7 202.6 200.0 199.6 202.1 203.9 202.9 200.6	142.9 142.2 142.6 142.5 142.8 142.1 141.9 141.8 142.0 141.7	194.7 192.7 201.9 203.4 204.8 203.6 202.9 202.3 203.2 202.6	210.9 212.1 219.6 217.3 210.4 205.5 205.1 214.6 220.7 216.2 207.2	275.3 278.1 283.0 283.9 281.5 273.9 273.0 273.6 275.4 275.2

¹ Data have been revised through August 2012; data are subject to revision four months after date of original publication. See next page for continuation of table.

Table B-67. Producer price indexes for major commodity groups, 1966-2012—Continued [1982=100]

					ustrial commo	dities—Contir	nued			
	Dubbas	Lumban	Pulp,					Transpo	ortation oment	
Year or month	Rubber and plastic products	Lumber and wood products	paper, and allied products	Metals and metal products	Machinery and equipment	Furniture and household durables	Non- metallic mineral products	Total	Motor vehicles and equip- ment	Miscel- laneous products
1966 1967 1968	40.5 41.4 42.8	35.2 35.1 39.8	34.2 34.6 35.0	32.8 33.2 34.0	34.7 35.9 37.0	47.4 48.3 49.7	30.7 31.2 32.4		39.2 39.8 40.9	35.3 36.2 37.0
1969 1970	43.6 44.9	44.0 39.9	36.0 37.5	36.0 38.7	38.2 40.0	50.7 51.9	33.6 35.3	40.4 41.9	41.7 43.3	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	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
1979	80.5	105.5	75.9	86.0	76.7	82.8	77.6	75.3	75.8	75.5
1980 1981 1982 1983 1984 1985 1986 1986	90.1 96.4 100.0 100.8 102.3 101.9 101.9 103.0 109.3	101.5 102.8 100.0 107.9 108.0 106.6 107.2 112.8 118.9	86.3 94.8 100.0 103.3 110.3 113.3 116.1 121.8 130.4	95.0 99.6 100.0 101.8 104.8 104.4 103.2 107.1 118.7	86.0 94.4 100.0 102.7 105.1 107.2 108.8 110.4 113.2	90.7 95.9 100.0 103.4 105.7 107.1 108.2 109.9	88.4 96.7 100.0 101.6 105.4 108.6 110.0 111.2	82.9 94.3 100.0 102.8 105.2 107.9 110.5 112.5	83.1 94.6 100.0 102.2 104.1 106.4 109.1 111.7	93.6 96.1 100.0 104.8 107.0 109.4 111.6 114.9 120.2
1989	112.6 113.6	126.7 129.7	137.8 141.2	124.1 122.9	117.4 120.7	116.9 119.2	112.6 114.7	117.7 121.5	116.2 118.2	126.5 134.2
1990 1991 1992 1993 1994 1995 1996 1997 1998	113.6 115.1 115.1 116.0 117.6 124.3 123.8 123.2 122.6 122.5	129.7 132.1 146.6 174.0 180.0 178.1 176.1 183.8 179.1	141.2 142.9 145.2 147.3 152.5 172.2 168.7 167.9 171.7	122.9 120.2 119.2 119.2 124.8 134.5 131.0 131.8 127.8 124.6	120.7 123.0 123.4 124.0 125.1 126.6 126.5 124.9 124.9	119.2 121.2 122.2 123.7 126.1 128.2 130.4 131.3 131.7	114.7 117.2 117.3 120.0 124.2 129.0 131.0 133.2 135.4 138.9	121.5 126.4 130.4 133.7 137.2 139.7 141.7 141.6 141.2	118.2 122.1 124.9 128.0 131.4 133.0 134.1 132.7 131.4 131.7	134.2 140.8 145.3 145.4 141.9 145.4 147.7 150.9 156.0
2000 2001 2002 2003 2004 2005 2006 2007 2008	125.5 127.2 126.8 130.1 133.8 143.8 153.8 155.0 165.9	178.2 174.4 173.3 177.4 195.6 196.5 194.4 192.4 191.3 182.8	183.7 184.8 185.9 190.0 195.7 202.6 209.8 216.9 226.8	128.1 125.4 125.9 129.2 149.6 160.8 181.6 193.5 213.0	124.0 123.7 122.9 121.9 122.1 123.7 126.2 127.3 129.7 131.3	132.6 133.2 133.5 133.9 135.1 139.4 142.6 144.7 148.9	142.5 144.3 146.2 148.2 153.2 164.2 179.9 186.2 197.1	143.8 145.2 144.6 145.7 148.6 151.0 152.6 158.0 162.2	132.3 131.5 129.9 129.6 131.0 131.5 131.0 132.2 134.1	170.8 181.3 182.4 179.6 183.2 195.1 205.6 210.3 216.6 217.5
2010 2011 2012 <i>p</i>	170.7 182.7 186.8	192.7 194.7 201.7	236.9 245.1 244.1	207.6 225.9 219.9	131.1 132.7 134.3	153.2 156.4 160.5	201.8 205.0 210.9	163.4 166.1 169.7	137.6 139.4 142.2	221.5 229.2 235.5
2011: Jan Feb Mar Apr May June July Aug Sept Oct. Nov Dec 2012: Jan Feb Mar Apr May May May May May	175.2 176.5 178.2 180.3 182.5 185.2 186.2 186.2 186.4 185.2 184.5 184.8 185.9 187.5	193.4 194.7 195.8 195.6 194.3 193.4 193.6 194.7 195.8 195.8 195.8 195.8 197.8 197.8 202.3	243.0 243.2 244.3 245.0 245.6 246.2 247.1 247.2 243.2 242.9 242.9 242.7 243.8 244.3 244.3	219.8 224.2 225.7 229.2 228.3 228.4 230.0 229.0 228.1 223.8 222.5 222.3 223.6 225.2 225.3 224.3 224.3 224.3	131.6 132.0 132.2 132.5 132.6 133.0 133.1 133.1 133.3 133.4 134.1 134.1 134.1 134.2	153.7 154.4 155.1 155.5 155.7 156.2 157.0 157.1 157.7 158.3 158.3 158.3 159.4 160.0 160.1 160.0	202.3 202.6 202.9 203.5 204.9 205.7 206.6 206.6 206.5 206.1 206.0 208.3 209.0 209.4 210.4 2110.4	164.7 164.9 165.0 165.5 165.3 165.6 165.8 166.1 165.7 168.3 168.4 168.3 169.0 168.8 168.9	138.4 138.5 138.5 139.0 138.7 139.0 139.1 138.5 141.4 141.2 141.8 141.5 141.5 141.6	225.7 226.6 227.1 227.4 227.5 228.0 239.0 232.0 232.0 232.1 232.6 233.5 234.4 235.2 234.8 234.8
June July Aug Sept ¹ Oct ¹ Nov ¹ Dec ¹	188.3 187.3 186.1 186.1 185.9 186.0 185.8	202.3 201.1 202.7 203.9 203.0 204.3 206.1	244.2 243.7 243.4 242.7 243.7 245.3 246.6	218.5 215.6 215.7 217.4 216.4 217.6	134.3 134.4 134.3 134.4 134.2 134.4 134.3	160.9 160.9 160.5 160.9 161.3 160.7	211.4 212.0 212.1 211.9 211.9 211.8 212.0	169.1 169.8 169.9 169.3 171.2 171.5	141.5 142.1 142.0 141.4 143.7 144.0 143.7	234.7 235.9 236.1 236.1 236.3 236.7 238.0

Source: Department of Labor (Bureau of Labor Statistics).

Table B-68. Changes in producer price indexes for finished goods, 1973-2012 [Percent change]

	finis	tal shed ods	Finished consumer Finished goods excluding consumer foods							shed ergy ods	Finished exclu foods an	ıdına		
Year or month	Dec.	Year	Dec.	Year	To	tal	Cons		Cap equip		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
1973	11.7 18.3 6.6 7.9 9.3 12.8 11.8 7.1.1 3.6 6.6 1.7 1.8 -2.3 2.9 5.7 -1.1 1.6 6.2 2.2 2.8 -1.2 2.8 -1.2 4.0 4.9 2.9 3.6 6.1 7.1 1.6 6.2 2.1 1.6 1.6 1.6 1.7 2.1 2.2 2.8 1.0 2.9 3.6 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0	9.1 15.4 10.6 4.5 6.4 7.9 11.2 13.4 9.2 4.1 1.0 -1.4 2.5 5.2 2.1 1.2 2.5 1.2 1.2 1.2 1.2 1.2 1.3 4.9 2.1 1.2 1.3 4.9 2.1 1.2 1.2 1.3 4.9 2.1 1.2 1.3 4.9 2.1 1.3 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	22.7 12.8 5.6 6.9 11.7 7.4 7.5 1.5 2.0 2.3 3.5 5.7 5.2 2.6 -1.5 1.6 2.4 1.1 1.9 3.4 -8 1.7 7.5 1.8 -7.6 7.3 1.8 1.7 7.6 3.1 1.7 7.6 3.1 1.7 7.6 3.1 1.7 7.6 3.1 1.7 7.6 3.1 1.7 7.6 3.1 1.7 7.6 3.1 1.7 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7	20.5 14.0 8.4 -3.3 9.0 9.3 5.8 5.8 5.8 2.2 1.0 4.8 2.6 2.1 2.8 5.4 4.8 2 1 3.6 3.0 1 6.6 3.0 8 4.7 2.0 6.6 6.6 6.6 6.6 6.6 6.6 6.6 6.6 6.6 6	6.6 21.1 7.2 6.8 8.3 14.8 13.4 8.7 4.2 .0 1.1 1.2 2.2 -4.0 3.2 4.8 6.9 3.3 1.6 6.9 2.3 2.6 -1.1 3.5 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7	4.0 16.2 12.1 6.2 7.1 7.2 11.8 16.2 10.3 4.6 1.8 1.4 -2.6 5.0 3.0 1.1 6.9 2.4 4.3 -1.1 2.2 4.4 1.7 -1.5 3.0 3.4 5.0 3.5 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	7.5 20.3 6.8 6.7 8.5 17.6 14.1 8.2 -1.9 2.1 -6.6 3.1 5.3 8.7 -1.4 2.3 3.7 -1.4 2.3 3.7 -1.5 5.5 8.8 4.7 4.7 4.8 7.4 5.3 1.5	4.6 17.0 10.4 6.7 7.3 7.1 13.3 18.5 10.3 11.1 -4.6 5.9 2.9 2.9 2.9 2.9 2.9 3.2 4.3 3.2 6.1 2.2 -1.8 4.3 4.3 7.3 7.3 7.1 2.9 6.1 2.9 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1 6.1	5.1 22.7 8.1 6.5 7.2 8.8 11.4 9.2 3.9 2.0 1.3 3.6 3.8 2.7 2.1 1.3 3.6 3.6 3.4 2.5 1.8 2.5 1.8 2.0 2.2 2.3 4 4 6.0 3.3 1.2 2.2 2.3 4 4 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0	3.3 14.3 15.2 6.7 6.4 7.9 8.7 10.7 10.3 5.7 2.8 2.2 2.0 1.8 2.3 3.5 1.1 1.9 1.2 -1.4 0.0 9.6 6.6 6.6 -4.3 3.1 1.4 2.3 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6		17.2 11.7 15.7 6.5 35.0 49.2 19.1 -1.5 -4.8 -4.2 -3.9 9.9 -28.1 -1.3 -1.3 -1.3 -1.3 -1.3 -2.2 -10.0 4.9 19.4 19.6 10.8 17.3 10.0 7.1 11.6 11.6 11.6 11.6 11.6 11.6 11.6	17.7 6.0 5.7 6.2 8.4 9.4 10.8 7.7 4.9 2.7 2.7 2.1 4.3 4.2 3.5 3.1 2.0 2.5 9 5 1.0 2.3 1.4 2.0 2.3 1.4 2.0 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3	11.4 11.4 5.7 6.0 7.55 8.9 11.2 8.6 8.5 2.3 2.4 3.3 2.4 3.3 3.4 4.4 1.2 1.0 1.4 1.4 1.1 1.4 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5
		_		I _			hange fron	-	g month	_				
	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
2011: Jan	1.0 1.2 1.3 1.2 6 6 6 3 5 4 1 3 5 5 5 5 5 5 5 5 5 5	0.8 1.1 5.5 7.7 7.1 1.1 5.2 93 3.411 2.2 3.3 1.6 1.222222222	0.5 3.5 3 3.5 -1.0 -7 6 6.1.1 .7 6 1.0 4 1 2 .3 3.1 -1.2 .5 .5 .0 .4 1 1.3 6	0.4 3.5 -5 -1 -1.2 .80 1.0 -5 -1 1 -1.0 -7 -1 -2 -1 -4.6 .4 .9 9 3 3 -9	1.1 77 1.7 1.7 1.9 9 -8 -4 -6 -5 -7 -3 -3 -3 -3 -7 -7 -7 -7 3 1.2 -7 -1.4 -1.5	0.8 77 88 .4 -1.1 .4 0.0 1.1 -1.1 1.1 3.6 -2.2 -3.2 -1.2 -1.3 1.8 1.3 -1.2 -1.1	1.4 .99 2.5 2.0 1.3 -1.3 -5, -9 -1.0 -4, -5 8 8.8 1.3 4 -1.1 -1.0 -2 1.8 1.2 -7.2 -7.2 -7.2	1.1 8 1.0 1.0 4 -3 5.5 0 1.4 -6 -1.1 0 3.8 4 -1.8 -1.8 -2.2 2.7 2.1 -2.0	0.4 2 11 30 2 11 0 11 11 11 11 11 2 11 12 12 12 13 14 11 11 11 12 12 13 14 14 15 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	0.3 3.3 3.3 3.1 4.4 3.0 2.1 0.0 2.1 2.1 2.1 2.4 4.0 0.0 0.0 1.1 2.4 4.0 0.0 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1	2.6 1.8 6.1 4.4 4.3 3.1 -3.2 -2.3 1.2 -3.4 -1.0 -1.6 .7 7 1.8 3.1 9 -2.6 -2.4 -3.2 3.0 -2.4 -3.3 -3.2 -3.2 -3.2 -3.2 -3.2 -3.2 -3.2	1.7 1.8 2.0 2.0 9 -1.2 2.4 3.0 -1.53332 1.8 -1.2 -1.4653 4.954.63	0.6 2 2 3 3 0 2 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.5 2 3 3 2 2 3 3 5.5 2 2 3 3 0.1 2 2 6.1 1.2 6.1 0.0 -2.2 1.1

Changes from December to December are based on unadjusted indexes.
 Data have been revised through August 2012; data are subject to revision four months after date of original publication.

Source: Department of Labor (Bureau of Labor Statistics).

Money Stock, Credit, and Finance TABLE B-69. Money stock and debt measures, 1973-2012

[Averages of daily figures, except debt end-of-period basis; billions of dollars, seasonally adjusted]

	M1	M2	Debt ¹	F	Percent chang	je
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 y 6 months	ear or earlier ³	From previous period ⁴
	checkable deposits (OCDs)	and small time deposits ²	sectors	M1	M2	Debt
December: 1973 1974 1975 1976 1977 1977 1978	262.9 274.2 287.1 306.2 330.9 357.3 381.8	855.5 902.1 1,016.2 1,152.0 1,270.3 1,366.0 1,473.7	1,895.5 2,069.1 2,259.8 2,503.0 2,824.0 3,207.9 3,596.3	5.5 4.3 4.7 6.7 8.1 8.0 6.9	6.6 5.4 12.6 13.4 10.3 7.5 7.9	10.7 9.2 9.3 10.8 12.8 13.8 12.1
1980 1981 1982 1983 1984 1985 1986 1987 1988	408.5 436.7 474.8 551.4 551.6 619.8 724.7 750.2 786.7	1,5998 1,755.5 1,907.1 2,124.2 2,307.3 2,493.0 2,729.6 2,829.4 2,991.1	3,944.3 4,351.9 4,773.1 5,348.6 6,134.8 7,110.6 7,953.0 8,656.1 9,437.0	7.0 6.9 8.7 9.8 5.8 12.4 16.9 3.5 4.9	8.6 9.7 8.6 11.4 8.6 9.5 3.7 5.7	9.5 10.3 10.4 12.0 14.8 15.6 11.9 9.1 9.1
1990 1991 1992 1993 1994 1995 1996 1997 1998	824.7 897.0 1,024.9 1,150.8 1,150.8 1,107.3 1,007.3 1,096.1	3,272.9 3,371.9 3,423.4 3,472.8 3,485.7 3,628.2 3,806.8 4,020.1 4,360.1	10,825.1 11,295.2 11,812.7 12,494.8 13,141.1 13,810.3 14,515.9 15,306.5 16,304.6	4.0 8.8 14.3 10.2 1.9 -2.0 -4.1 8 2.2	3.7 3.0 1.5 1.4 .4 4.1 4.9 5.6 8.5 5.9	6.5 4.4 4.6 5.6 5.1 5.0 5.1 6.5
2000 2001 2002 2003 2004 2005 2006 2007 2008 2009	1,087.9 1,182.9 1,220.4 1,306.6 1,375.9 1,374.7 1,366.3 1,374.1 1,604.7 1,695.4 1,836.3 2,160.4	4,898.0 5,400.7 5,739.4 6,036.8 6,358.5 6,654.6 7,038.4 7,448.4 8,183.2 8,486.6 8,781.8	18,225.2 19,366.4 20,789.1 22,502.7 25,321.9 27,647.6 30,013.7 32,549.8 34,441.1 35,372.5 36,790.7 38,120.7	-3.1 8.7 3.2 7.1 5.3 1 6 16.8 5.7 8.3	6.1 10.3 6.3 5.2 5.8 4.2 5.8 5.8 9.9 3.7	5.0 6.4 7.3 8.0 9.3 9.2 8.6 8.4 5.8 3.1 4.1
2012 2011 Jan	2,440.2 1,854.4 1,876.0 1,890.0 1,902.1 1,940.2 1,951.9 1,988.3 2,112.0 2,123.2	10,402.4 8,800.6 8,856.8 8,899.4 8,947.6 8,999.7 9,080.1 9,266.3 9,489.6 9,519.4	37,017.1 37,258.4 37,657.7	13.0 15.5 14.8 14.3 13.7 12.6 15.5 25.2 24.7 25.2	7.9 5.1 5.4 5.4 5.7 6.8 10.6 14.3 13.9	2.5
Nov	2,159.5 2,160.4 2,200.1 2,215.0 2,221.9 2,250.8 2,260.7 2,265.4 2,310.8 2,339.0 2,373.8 2,419.5 2,403.5	9,601,2 9,637,1 9,710,6 9,745,9 9,782,1 9,825,5 9,867,5 9,918,6 10,010,0 10,082,4 10,158,8 10,242,7 10,293,6 10,402,4	38,120.7 38,558.4 39,046.2 39,284.3	22.6 21.4 20.2 9.8 9.3 10.2 9.4 9.7 10.1 11.2 13.7 15.0 12.6 15.4	13.4 12.3 9.6 5.4 5.5 5.8 5.5 6.9 7.7 8.5 9.8	4.9 4.6

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.

Note: For further information on the composition of M1 and M2, see the H6 release of the Federal Reserve Board. 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.G release, and the component on large-denomination time deposits is published in other Federal Reserve Board releases. For details, see H.G release of March 23, 2006.

Source: Board of Governors of the Federal Reserve System.

⁴ Annual changes are from fourth quarter to fourth quarter. Quarterly changes are from previous quarter at annual rate.

Table B-70. Components of money stock measures, 1973-2012

[Averages of daily figures; billions of dollars, seasonally adjusted]

		7 0	or dollars, season		checkable deposits ((OCDs)
Year and month	Currency	Nonbank travelers checks	Demand deposits	Total	At commercial banks	At thrift institutions
December: 1973 1974 1975 1976 1976 1977 1978	60.8 67.0 72.8 79.5 87.4 96.0	1.4 1.7 2.1 2.6 2.9 3.3	200.3 205.1 211.3 221.5 236.4 249.5	0.3 .4 .9 2.7 4.2 8.5	0.0 .2 .4 1.3 1.8 5.3	0.3 .4 .5 1.4 2.3 3.1 4.2
1979. 1980. 1981. 1982. 1983. 1984. 1985. 1986. 1986.	104.8 115.3 122.5 132.5 146.2 156.1 167.7 180.4 196.7	3.5 3.9 4.1 4.7 5.0 5.6 6.1 6.6	256.6 261.2 231.4 234.1 238.5 243.4 266.9 302.9 287.7 287.1	16.8 28.1 78.7 104.1 132.1 147.1 179.5 235.2 259.2	12.7 20.8 63.0 80.5 97.3 104.7 124.7 161.0 178.2 192.5	4.2 7.3 15.6 23.6 34.8 42.4 54.9 74.2 81.0 88.1
1989 1990 1991 1992 1993 1994 1995 1996 1996	222.3 246.5 267.1 292.1 321.7 354.7 372.8 394.5 425.2 460.4 517.9	6.9 7.7 7.7 8.2 8.0 8.6 9.0 8.8 8.4 8.5	278.6 276.8 289.6 340.0 385.4 383.6 389.0 402.2 393.9 377.1 353.3	285.1 293.7 332.5 384.6 414.6 404.0 356.6 275.8 245.2 250.0 243.2	197.4 208.7 241.6 280.8 302.6 297.4 249.0 172.1 148.3 143.8 139.7	87.7 85.0 90.9 103.8 112.0 106.6 107.6 103.7 96.9 106.2
1999 2000 2001 2001 2002 2003 2004 2005 2006 2007 2008	511.3 531.3 581.3 662.3 662.5 697.6 724.0 749.6 760.1 816.1 863.7	8.3 8.0 7.8 7.7 7.6 7.2 6.7 6.3 5.5	330.0 336.0 307.0 326.3 343.0 324.7 305.0 302.4 471.9 443.4	243.2 238.2 257.5 279.3 310.0 327.8 318.8 304.9 305.4 311.1 383.2	133.7 133.2 142.1 154.3 175.2 187.0 180.7 176.7 172.8 178.5 234.0	105.3 105.1 115.4 125.1 134.8 140.8 138.1 128.2 132.6 132.6
2010 2011 2012	918.7 1,001.5 1,090.9	4.7 4.3 3.8	512.8 742.2 901.7	400.1 412.4 443.7	239.0 237.1 248.1	161.1 175.3 195.6
2011: Jan	923.3 929.5 937.3 946.5 956.1 963.1 969.6 976.5 982.1 986.3 994.3	4.7 4.6 4.6 4.6 4.5 4.5 4.4 4.4 4.4 4.3	525.1 539.4 544.9 552.6 577.8 583.5 621.1 718.6 724.8 740.8 747.3 742.2	401.3 402.5 403.1 398.4 401.7 400.8 403.1 412.5 411.9 410.3 413.4 412.4	236.1 236.3 236.5 229.6 234.4 235.6 235.7 239.8 238.3 235.6 238.7 237.1	165.3 166.2 166.7 168.9 167.3 165.2 167.4 172.7 173.5 174.7 174.8
2012: Jan Feb Feb Mar Apr May June July Aug Sept Oct Nov Dec Dec	1,010.2 1,018.7 1,026.9 1,033.3 1,039.1 1,045.4 1,052.3 1,059.5 1,068.6 1,077.6 1,083.1	4.2 4.2 4.1 4.1 4.0 4.0 3.9 3.9 3.9 3.9 3.9	767.9 770.6 767.8 787.8 791.3 795.1 822.9 842.3 867.2 899.9 884.5 901.7	417.7 421.6 423.1 425.6 426.3 420.9 431.7 433.2 434.0 438.1 432.1 443.7	238.1 239.6 239.8 240.4 240.9 236.0 243.4 242.3 246.2 240.5 248.1	179.6 182.0 183.2 185.2 185.4 184.9 189.4 191.8 191.9 191.6

See next page for continuation of table.

Table B-70. Components of money stock measures, 1973-2012—Continued

[Averages of daily figures; billions of dollars, seasonally adjusted]

		avings deposits			nomination 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: 1973 1974 1975 1976 1977 1978 1979	326.8 338.6 388.9 453.2 492.2 481.9 423.8	128.0 136.8 161.2 201.8 218.8 216.5	198.7 201.8 227.6 251.4 273.4 265.4 228.8	265.8 287.9 337.9 390.7 445.5 521.0 634.3	116.8 123.1 142.3 155.5 167.5 185.1 235.5	149.0 164.8 195.5 235.2 278.0 335.8 398.7	0.1 1.4 2.4 1.8 1.8 5.8 33.9	0.2 .5 .6 1.0 3.5
1980	400.3 343.9 400.1 684.9 704.7 815.3 940.9 937.4 926.4 893.7	185.7 159.0 190.1 363.2 389.3 456.6 533.5 534.8 542.4 541.1	214.5 184.9 210.0 321.7 315.4 358.6 407.4 402.6 383.9 352.6	728.5 823.1 850.9 784.1 888.8 885.7 858.4 921.0 1,037.1 1,151.3	286.2 347.7 379.9 350.9 387.9 386.4 369.4 391.7 451.2 533.8	442.3 475.4 471.0 433.1 500.9 499.3 489.0 529.3 585.9 617.6	62.5 151.7 181.3 133.8 162.2 172.2 205.7 220.7 241.0 316.9	16.0 38.2 48.8 40.9 65.1 68.2 89.2 96.0 97.4
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 1,605.1 1,739.8	581.3 664.8 754.2 785.3 752.8 774.8 906.1 1,022.9 1,188.6 1,288.7	341.6 379.6 433.1 434.0 398.5 361.0 368.8 378.8 416.5 451.1	1,173.3 1,065.3 867.7 781.5 817.5 932.4 947.9 967.6 951.3	610.7 602.2 508.1 467.9 503.6 575.8 594.2 625.5 626.4 636.9	562.6 463.1 359.7 313.6 313.9 356.5 353.7 342.2 324.9 318.3	352.0 365.2 343.6 342.3 366.1 432.4 502.7 577.9 707.6 799.9	145.2 195.8 222.1 228.3 225.5 279.9 341.8 416.8 572.3 678.3
2000 2001 2002 2003 2004 2005 2006 2007 2008	1,877.4 2,309.6 2,772.1 3,162.0 3,508.8 3,606.5 3,693.7 3,870.1 4,100.6 4,830.0	1,423.7 1,738.8 2,058.7 2,337.3 2,632.6 2,776.9 2,910.4 3,042.5 3,330.0 3,991.6	453.8 570.8 713.4 824.7 876.2 829.6 783.3 827.5 770.6 838.4	1,046.0 974.6 894.7 818.1 828.4 993.7 1,205.9 1,275.8 1,457.1 1,182.3	700.8 636.0 591.3 541.9 551.9 646.7 780.6 858.7 1,078.0 862.5	345.3 338.5 303.5 276.2 276.5 347.0 425.3 417.1 379.1 319.8	886.7 933.7 852.1 750.1 675.5 679.8 772.6 928.5 1,020.9 779.0	833.8 1,252.9 1,314.6 1,163.7 1,107.8 1,178.2 1,394.3 1,962.5 2,459.1 2,254.2
2010 2011 2012	5,345.0 6,050.1 6,694.5	4,426.1 5,047.9 5,731.5	918.8 1,002.2 963.0	927.2 765.5 632.6	656.3 536.7 455.3	270.9 228.8 177.4	673.3 661.1 635.1	1,893.7 1,763.1 1,742.7
2011: Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec	5,366.9 5,419.5 5,464.1 5,516.4 5,545.1 5,626.7 5,780.5 5,892.3 5,930.7 5,950.3 6,003.1 6,050.1	4,436.7 4,476.0 4,507.7 4,559.4 4,576.5 4,657.6 4,802.9 4,945.4 4,961.6 5,006.0 5,047.9	930.2 943.4 956.4 957.0 968.6 969.1 977.6 983.3 985.3 987.0 1,002.2	909.1 896.7 883.8 871.9 858.8 843.8 829.0 812.7 798.0 785.0 772.8 765.5	643.5 634.2 623.6 614.7 604.4 593.0 581.9 569.9 559.0 549.9 541.5	265.6 262.5 260.1 257.2 254.5 250.8 247.1 242.8 239.0 235.2 231.3 228.8	670.3 664.7 661.6 657.2 655.7 657.7 658.5 672.6 667.5 671.9 665.9	1,846.4 1,824.8 1,845.3 1,895.5 1,872.9 1,838.4 1,746.6 1,768.3 1,765.1
2012: Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec	6,098.3 6,140.1 6,188.5 6,217.5 6,264.7 6,325.0 6,385.2 6,442.1 6,494.6 6,543.9 6,620.1 6,694.5	5,097.1 5,158.5 5,197.4 5,221.4 5,256.5 5,312.5 5,360.1 5,411.6 5,462.9 5,506.7 5,664.5 5,731.5	1,001.1 981.6 991.1 996.1 1,008.2 1,012.5 1,030.5 1,031.7 1,037.2 955.6 963.0	756.0 745.5 732.9 721.0 709.4 699.3 688.1 677.8 667.4 656.2 643.7 632.6	533.7 532.7 524.9 515.4 506.4 498.7 491.7 484.8 478.0 470.0 463.9 455.3	222.3 212.9 208.0 205.7 203.0 200.5 196.4 193.0 189.4 186.2 179.8	656.3 645.3 638.8 636.2 632.7 628.9 623.5 623.0 623.1 626.2 635.1	1,759.9 1,746.8 1,751.1 1,739.2 1,735.2 1,727.4 1,730.3 1,741.8 1,750.7 1,741.8 1,734.7

¹ Savings deposits including money market deposit accounts (MMDAs); data prior to 1982 are savings deposits only.

Note: See also Table B-69.

Source: Board of Governors of the Federal Reserve System.

² Small-denomination deposits are those issued in amounts of less than \$100,000.

 $^{^{3}}$ Institutional money funds are not part of non-M1 M2.

Table B-71. Aggregate reserves of depository institutions and the monetary base, 1982-2012

[Averages of daily figures 1; millions of dollars; seasonally adjusted, except as noted]

	Adjus	ted for chan	ges in rese	rve requiren	nents ²		Е	Sorrowings	from the Fe	deral Reserve (N	ISA) ³	
	Reser	ves of depo	sitory instit	utions				0	ther borrow	rings from the F	ederal Reserv	e ⁵
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 ⁶	Asset-backed commercial paper money market mutual fund liquidity facility	Credit extended to American Inter- national Group, Inc., net 7	Term asset- backed securities loan facility, net ⁸
December: 1982 1983 1984 1985 1986 1987 1989 1990 1991 1992 1993 1994 1995 1996 1997 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2009 2011	23,600 25,367 26,913 31,569 38,941 38,913 40,454 40,487 41,767 45,516 56,482 60,567 59,466 56,484 45,174 42,149 38,685 41,384 40,274 42,542 44,625 44,963 43,124 44,025 41,138,682 1,138,682 1,138,682 1,138,682 1,138,682 1,138,682 1,138,682 1,138,682 1,138,682 1,138,682 1,138,682 1,138,682 1,138,682 1,138,682 1,138,682	22,966 24,593 23,727 30,251 38,136 38,738 40,222 41,441 454,298 60,485 59,257 56,226 50,030 46,551 45,058 41,317 40,195 42,496 46,362 44,795 42,933 27,702 166,621 1,587,574 1,587,574	23,100 24,806 26,078 30,505 37,667 39,395 40,101 44,526 53,267 55,193 48,766 45,189 47,406 45,189 48,766 45,189 41,495 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44,517 44	500 561 835 1,064 1,174 1,020 1,065 990 1,155 1,070 1,171 1,419 1,687 1,295 1,313 1,295 1,313 1,295 1,313 1,047 1,908 1,863 1,047 1,908 1,908 1,908 1,908 1,047 1,908 1,908 1,908 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,008 1,	160,127 175,467 187,253 203,556 223,417 239,830 256,897 267,761 293,339 317,523 350,885 451,935 441,474 434,464 434,464 451,935 479,798 513,821 593,383 584,928 635,575 681,486 720,115 759,085 7720,115 759,085 720,115 759,085 720,115 759,085 720,115 759,085 720,115 759,085 720,115 759,085 720,115 759,085 720,115 759,085 720,115 759,085 720,115 759,085 720,115 759,085 720,115 759,085 720,115 759,085 720,115 759,085 720,115 759,085 720,115 759,085 720,115 759,085 720,115 759,085 720,115 759,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,085 757,0	634 774 3,186 827 777 1,716 326 192 124 82 209 257 155 324 117 9320 210 67 80 63 169 91 15,430 653,565 169,927 45,586 9,526	11,613 438,327 82,014 0	17 11 97 111 3,787 182,245 19,025 41 103	47,631	32,102	47.206 22,023 20,394	46,310 25,025 9,400 760
2011: Jan Feb Mar Apr June July Aug Sept Mar Apr May June July Aug Sept Dec July Aug Sept Mar Apr May June July Aug Sept Oct Nov Dec Sept Mar Apr May June July Aug Sept Oct Nov Nov Nov	1,106,871 1,262,561 1,436,155 1,526,629 1,587,841 1,666,615 1,666,615 1,642,237 1,638,130 1,591,703 1,597,100 1,614,301 1,657,931 1,567,919 1,584,770 1,556,689 1,557,175 1,558,049 1,515,188 1,515,188 1,515,188 1,515,188	1,074,624 1,240,628 1,416,273 1,508,786 1,653,372 1,684,238 1,654,864 1,654,864 1,654,864 1,654,864 1,654,864 1,654,964 1,581,362 1,581,362 1,581,362 1,568,687 1,575,905 1,550,503 1,551,961 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,901 1,579,	70,404 72,559 74,008 74,682 75,353 78,516 83,354 91,260 92,993 93,994 94,850 97,811 98,230 99,699 101,000 104,587 111,507	1,036,466 1,190,001 1,362,146 1,451,947 1,512,488 1,512,488 1,512,488 1,583,344 1,560,977 1,545,136 1,597,769 1,512,206 1,519,21 1,500,121 1,500,121 1,500,121 1,457,460 1,457,475 1,483,049 1,477,750 1,479,441 1,483,049 1,418,274 1,418,373	2,045,212 2,206,970 2,388,590 2,488,261 2,559,360 2,684,482 2,681,175 2,638,155 2,638,105 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,055 2,638,	32,246 21,933 19,882 17,842 15,146 13,243 12,395 11,834 11,575 11,210 10,341 7,933 7,330 7,330 6,865 6,187 5,214 4,258 3,271 1,466 1,065 1,466	000000000000000000000000000000000000000	51 28 21 11 11 10 24 7 7 5 19 20 20 103 27 13 11 21 16 19 26 39 26 39 27 7 9			8,368	23,818 21,902 19,864 17,820 15,115 13,178 12,315 11,737 11,474 11,140 9,400 8,580 7,920 7,314 6,143 5,139 4,135 3,094 1,781 1,383 1,006

¹ Data are prorated averages of biweekly (maintenance period) averages of daily figures.

Source: Board of Governors of the Federal Reserve System.

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).

⁴ Includes secondary, seasonal, other credit extensions, adjustment credit, and extended credit not shown separately.

⁵ Does not include credit extensions made by the Federal Reserve Bank of New York to Maiden Lane LLC, Maiden Lane II LLC, Maiden Lane III LLC, and Commercial Paper Funding Facility LLC.

⁶ Includes credit extended through the Primary Dealer Credit Facility and credit extended to certain other broker-dealers.

⁷ Includes outstanding principal and capitalized interest net of unamortized deferred commitment fees and allowance for loan restructuring. Excludes credit extended to consolidated LLCs as described in footnote 5.

8 Includes credit extended by Federal Reserve Bank of New York to eligible borrowers through the Term Asset-Backed Securities Loan Facility.

⁹ Total includes borrowing under the terms and conditions established for the Century Date Change Special Liquidity Facility in effect from October 1, 1999 through April 7, 2000.

TABLE B-72. Bank credit at all commercial banks, 1975-2012

[Monthly average; billions of dollars, seasonally adjusted 1]

		Securities in bank credit ² Loans and leases in bank credit									
	Total		U.S.		T	Com-	Re	al estate loa	ans		0.1
Year and month	bank credit	Total secu- rities	Treasury and agency secu- rities	Other secu- rities	Total loans and leases ³	mercial and industrial loans	Total ⁴	Revolving home equity loans	Com- mercial loans ⁵	Con- sumer loans ⁶	Other loans and leases ⁷
December: 1975	737.8 798.6 885.6 1,003.7 1,118.1	204.9 226.7 234.3 240.2 257.8	118.1 137.5 137.5 138.4 146.1	86.8 89.1 96.8 101.9 111.7	532.9 571.9 651.3 763.5 860.3	183.4 185.2 204.7 237.2 279.7	134.1 148.5 175.1 210.5 241.7			104.3 115.8 138.0 164.4 183.8	111.1 122.3 133.5 151.3 155.1
1980	1,216.9 1,297.7 1,397.6 1,549.6 1,715.9 1,883.5 2,077.6 2,226.4 2,399.8 2,562.9	293.4 306.8 333.8 398.1 401.1 440.5 498.9 526.1 549.7 571.1	171.5 179.8 202.4 260.4 260.0 264.2 310.3 336.3 360.5 401.6	121.9 127.0 131.4 137.8 141.1 176.3 188.6 189.8 189.2 169.5	923.5 990.9 1,063.8 1,151.5 1,314.8 1,443.0 1,578.6 1,700.3 1,850.1 1,991.8	312.0 350.3 392.0 413.9 473.4 499.1 539.2 565.1 604.7 637.1	262.3 283.6 299.7 330.4 376.2 422.1 490.6 585.8 663.2 760.6	30.6 41.2 51.5		178.7 182.1 187.9 212.9 253.8 291.1 314.8 327.1 355.2 373.4	170.5 174.8 184.2 194.3 211.3 230.8 234.0 222.3 226.9 220.7
1990 1991 1992 1993 1993 1995 1995 1996 1997 1998	2,700.0 2,807.5 2,907.2 3,059.9 3,233.6 3,461.2 3,634.9 3,956.5 4,368.5 4,628.2	619.2 727.5 824.1 894.5 891.6 893.0 893.4 985.6 1,096.9 1,144.5	460.2 564.3 664.7 730.0 721.9 703.3 698.6 750.2 795.3 811.1	159.1 163.2 159.5 164.5 169.7 189.7 194.8 235.4 301.6 333.4	2,080.8 2,080.0 2,083.0 2,165.4 2,342.0 2,568.2 2,741.5 2,970.9 3,271.6 3,483.7	640.1 617.9 596.8 583.8 644.0 715.2 778.7 845.6 939.0 1,001.7	842.5 868.6 887.7 928.6 987.6 1,061.8 1,122.2 1,220.2 1,311.1 1,460.8	63.5 71.9 75.0 74.2 76.0 79.8 86.3 98.8 97.2 101.2		375.2 363.3 354.5 385.9 443.3 484.0 506.9 500.0 497.7 506.7	222.9 230.2 244.1 267.1 267.1 307.3 333.7 405.1 524.0 514.4
2000 2001 2002 2003 2004 2005 2006 2007 2008 2009	5,023.8 5,208.9 5,642.8 6,003.0 6,586.3 7,305.0 8,091.9 8,895.2 9,344.9 8,985.8	1,174.2 1,307.4 1,490.4 1,622.1 1,741.4 1,852.9 1,985.7 2,103.6 2,096.6 2,326.7	787.7 838.8 1,004.2 1,088.7 1,145.8 1,135.7 1,188.1 1,109.9 1,238.0 1,448.9	386.5 468.5 486.2 533.3 595.6 717.1 797.7 993.8 858.6 877.8	3,849.6 3,901.5 4,152.4 4,380.9 4,844.9 5,452.2 6,106.1 6,791.6 7,248.4 6,659.1	1,087.1 1,024.0 962.5 889.6 913.4 1,043.6 1,191.4 1,430.8 1,572.7 1,278.9	1,639.6 1,759.7 2,011.6 2,209.9 2,555.8 2,926.0 3,367.9 3,593.6 3,816.1 3,773.6	129.3 153.8 212.4 278.7 395.4 443.2 467.8 484.6 588.0 603.0	1,081.6 1,271.9 1,459.6 1,583.5 1,726.7 1,638.9	556.3 574.4 610.4 664.8 690.8 702.5 736.5 798.1 875.3 835.6	566.6 543.4 567.9 616.6 684.9 780.1 810.2 969.1 984.3 771.0
2010 2011 2012	9,184.1 9,404.9 9,949.1	2,429.6 2,498.1 2,742.8	1,640.4 1,700.7 1,881.1	789.2 797.4 861.7	6,754.5 6,906.8 7,206.3	1,208.7 1,331.8 1,503.2	3,609.6 3,489.5 3,541.9	581.9 548.6 514.6	1,498.0 1,415.8 1,422.8	1,114.4 1,091.1 1,116.7	821.8 994.3 1,044.6
2011: Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec	9,162.1 9,121.6 9,120.8 9,154.9 9,155.7 9,159.3 9,202.5 9,244.4 9,261.9 9,322.9 9,379.6 9,404.9	2,426.1 2,415.6 2,428.5 2,444.1 2,439.4 2,432.9 2,432.8 2,447.5 2,456.6 2,463.7 2,477.2 2,498.1	1,642.4 1,633.2 1,644.6 1,670.0 1,668.2 1,659.0 1,651.6 1,658.9 1,668.3 1,679.4 1,687.8 1,700.7	783.7 782.4 783.9 774.1 771.2 774.0 781.2 788.6 788.3 784.3 789.3	6,736.0 6,705.9 6,692.3 6,710.9 6,716.3 6,726.4 6,769.7 6,796.9 6,805.3 6,859.2 6,902.5 6,906.8	1,212.6 1,216.8 1,226.3 1,236.9 1,249.9 1,256.9 1,269.4 1,289.8 1,295.2 1,309.1 1,317.7 1,331.8	3,599.8 3,567.6 3,537.8 3,516.5 3,505.6 3,505.6 3,495.5 3,487.8 3,484.1 3,493.5 3,489.5	576.8 574.3 571.6 568.4 565.6 562.8 559.8 557.2 555.5 553.2 550.9 548.6	1,488.4 1,480.7 1,469.8 1,460.9 1,456.6 1,449.7 1,449.3 1,431.9 1,425.9 1,419.3 1,417.8 1,415.8	1,080.7 1,076.4 1,075.3 1,079.4 1,079.2 1,083.1 1,087.8 1,085.4 1,086.3 1,087.9 1,091.1	842.9 845.1 852.8 878.1 881.7 886.2 917.0 933.9 941.1 970.3 1,001.5 994.3
2012: Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec	9,474.7 9,565.0 9,591.4 9,636.2 9,678.6 9,706.7 9,755.9 9,801.9 9,818.7 9,860.5 9,949.1	2,529.3 2,563.7 2,576.4 2,595.2 2,604.6 2,609.2 2,641.5 2,647.1 2,658.9 2,669.4 2,692.2 2,742.8	1,725.6 1,753.5 1,775.6 1,796.1 1,806.4 1,806.4 1,828.8 1,834.0 1,837.4 1,838.5 1,852.4 1,881.1	803.7 810.1 800.8 799.1 798.2 802.7 812.7 813.1 821.5 830.8 839.8 861.7	6,945.4 7,001.3 7,015.0 7,041.0 7,074.1 7,097.5 7,114.4 7,132.3 7,143.0 7,149.3 7,168.4 7,206.3	1,350.5 1,373.7 1,384.0 1,403.9 1,411.6 1,433.0 1,451.2 1,465.1 1,478.5 1,481.4 1,503.2	3,509.1 3,539.7 3,545.0 3,540.2 3,539.5 3,529.9 3,526.7 3,525.4 3,528.2 3,519.8 3,542.6 3,541.9	548.3 549.7 546.0 543.4 540.2 536.9 532.9 529.7 525.9 521.2 518.7 514.6	1,416.3 1,427.5 1,425.6 1,424.2 1,419.7 1,417.8 1,417.3 1,415.4 1,414.3 1,415.3 1,422.8	1,089.4 1,090.1 1,093.9 1,096.9 1,106.7 1,106.8 1,106.6 1,107.7 1,108.8 1,110.2 1,113.2	996.4 997.9 992.1 1,000.0 1,016.3 1,027.8 1,029.8 1,036.5 1,040.9 1,040.8 1,031.2

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.
 Charter of the Company of the Co

Note: Data in this table are shown as of January 25, 2013. Source: Board of Governors of the Federal Reserve System.

positive fair value or loans held in trading accounts.

3 Excludes unearned income. Includes the allowance for loan and lease losses. Excludes Federal funds sold to, reverse repurchase agreements (RPs) with, and loans to commercial banks. Includes all loans held in trading accounts under a fair value option.

⁴ Includes closed-end residential loans, not shown separately.
5 Includes construction, land development, and other land loans, and loans secured by farmland, multifamily (5 or more) residential properties, and nonfarm nonresidential properties.

⁶ Includes credit cards and other consumer loans.

⁷ Includes other items, not shown separately.

Table B-73. Bond yields and interest rates, 1941-2012

[Percent per annum]

		U.S. Ti	reasury sec	urities		Percent pe		High-			Diagonal		
Year and	Bi (at au	lls ction) ¹		Constant maturities ²	2	Corpo bor (Mod	nds	grade muni- cipal	New- home mort-	Prime rate charged	(Federal Re of New	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
1941 1942 1943 1944 1945	0.103 .326 .373 .375 .375					2.77 2.83 2.73 2.72 2.62	4.33 4.28 3.91 3.61 3.29	2.10 2.36 2.06 1.86 1.67		1.50 1.50 1.50 1.50 1.50		1.00 ⁸ 1.00 ⁸ 1.00 ⁸ 1.00 ⁸ 1.00	
1946 1947 1948 1949	.375 .594 1.040 1.102					2.53 2.61 2.82 2.66	3.25 3.05 3.24 3.47 3.42	1.64 2.01 2.40 2.21		1.50 1.50 1.50–1.75 1.75–2.00 2.00		8 1.00 1.00 1.34 1.50	
1950 1951 1952 1953 1954	1.218 1.552 1.766 1.931 .953		2.47	2.85 2.40		2.62 2.86 2.96 3.20 2.90	3.24 3.41 3.52 3.74 3.51	1.98 2.00 2.19 2.72 2.37		2.07 2.56 3.00 3.17 3.05		1.59 1.75 1.75 1.99 1.60	
1955 1956 1957 1958 1959	1.753 2.658 3.267 1.839 3.405	3.832	2.47 3.19 3.98 2.84 4.46	2.82 3.18 3.65 3.32 4.33		3.06 3.36 3.89 3.79 4.38	3.53 3.88 4.71 4.73 5.05	2.53 2.93 3.60 3.56 3.95		3.16 3.77 4.20 3.83 4.48		1.89 2.77 3.12 2.15 3.36	1.79 2.73 3.11 1.57 3.31
1960 1961 1962 1963	2.93 2.38 2.78 3.16	3.25 2.61 2.91 3.25	3.98 3.54 3.47 3.67	4.12 3.88 3.95 4.00		4.41 4.35 4.33 4.26	5.19 5.08 5.02 4.86	3.73 3.46 3.18 3.23 3.22	5.89	4.82 4.50 4.50 4.50		3.53 3.00 3.00 3.23	3.21 1.95 2.71 3.18
1964 1965 1966 1967 1968	3.56 3.95 4.88 4.32 5.34	3.69 4.05 5.08 4.63 5.47	4.03 4.22 5.23 5.03 5.68	4.19 4.28 4.93 5.07 5.64		4.40 4.49 5.13 5.51 6.18	4.83 4.87 5.67 6.23 6.94	3.27 3.82 3.98 4.51	5.83 5.81 6.25 6.46 6.97	4.50 4.54 5.63 5.63 6.31		3.55 4.04 4.50 4.19 5.17	3.50 4.07 5.11 4.22 5.66
1970 1971 1972 1973	6.68 6.43 4.35 4.07 7.04	6.85 6.53 4.51 4.47 7.18	7.02 7.29 5.66 5.72 6.96	6.67 7.35 6.16 6.21 6.85		7.03 8.04 7.39 7.21 7.44	7.81 9.11 8.56 8.16 8.24	5.81 6.51 5.70 5.27 5.18	7.81 8.45 7.74 7.60 7.96	7.96 7.91 5.73 5.25 8.03		5.87 5.95 4.88 4.50 6.45	8.21 7.17 4.67 4.44 8.74
1974 1975 1976 1977 1978	7.89 5.84 4.99 5.27 7.22	7.93 6.12 5.27 5.52 7.58	7.84 7.50 6.77 6.68 8.29	7.56 7.99 7.61 7.42 8.41	7.75	8.57 8.83 8.43 8.02 8.73	9.50 10.61 9.75 8.97 9.49	6.09 6.89 6.49 5.56 5.90	8.92 9.00 9.00 9.02 9.56	10.81 7.86 6.84 6.83 9.06		7.83 6.25 5.50 5.46 7.46	10.51 5.82 5.05 5.54 7.94 11.20
1980 1981 1982 1983	10.05 11.51 14.03 10.69 8.63	10.02 11.37 13.78 11.08 8.75	9.70 11.51 14.46 12.93 10.45	9.43 11.43 13.92 13.01 11.10	9.28 11.27 13.45 12.76 11.18	9.63 11.94 14.17 13.79 12.04 12.71	10.69 13.67 16.04 16.11 13.55	6.39 8.51 11.23 11.57 9.47	10.78 12.66 14.70 15.14 12.57	12.67 15.26 18.87 14.85 10.79		10.29 11.77 13.42 11.01 8.50	13.35 16.39 12.24 9.09 10.23
1984 1985 1986 1987 1988	9.53 7.47 5.98 5.82 6.69 8.12	9.77 7.64 6.03 6.05 6.92 8.04	11.92 9.64 7.06 7.68 8.26 8.55	12.46 10.62 7.67 8.39 8.85 8.49	12.41 10.79 7.78 8.59 8.96 8.45	12./1 11.37 9.02 9.38 9.71 9.26	14.19 12.72 10.39 10.58 10.83 10.18	10.15 9.18 7.38 7.73 7.76 7.24	12.38 11.55 10.17 9.31 9.19 10.13	12.04 9.93 8.33 8.21 9.32 10.87		8.80 7.69 6.32 5.66 6.20 6.93	10.23 8.10 6.80 6.66 7.57 9.21
1990 1991 1992 1993	7.51 5.42 3.45 3.02	7.47 5.49 3.57 3.14	8.26 6.82 5.30 4.44	8.55 7.86 7.01 5.87	8.61 8.14 7.67 6.59	9.32 8.77 8.14 7.22	10.36 9.80 8.98 7.93	7.25 6.89 6.41 5.63	10.05 9.32 8.24 7.20	10.01 8.46 6.25 6.00		6.98 5.45 3.25 3.00	8.10 5.69 3.52 3.02
1994 1995 1996 1997 1998	4.29 5.51 5.02 5.07 4.81 4.66	4.66 5.59 5.09 5.18 4.85 4.76	6.27 6.25 5.99 6.10 5.14 5.49	7.09 6.57 6.44 6.35 5.26 5.65	7.37 6.88 6.71 6.61 5.58 5.87	7.96 7.59 7.37 7.26 6.53 7.04	8.62 8.20 8.05 7.86 7.22 7.87	6.19 5.95 5.75 5.55 5.12 5.43	7.49 7.87 7.80 7.71 7.07 7.04	7.15 8.83 8.27 8.44 8.35 8.00		3.60 5.21 5.02 5.00 4.92 4.62	4.21 5.83 5.30 5.46 5.35 4.97
2000 2001 2002 2003	5.85 3.44 1.62 1.01	5.92 3.39 1.69 1.06	6.22 4.09 3.10 2.10	6.03 5.02 4.61 4.01	5.94 5.49 5.43	7.62 7.08 6.49 5.67	8.36 7.95 7.80 6.77	5.77 5.19 5.05 4.73 4.63 4.29	7.52 7.00 6.43 5.80 5.77 5.94	9.23 6.91 4.67 4.12	2.12	5.73 3.40 1.17	6.24
2004 2005 2006 2007 2008	1.38 3.16 4.73 4.41 1.48	1.57 3.40 4.80 4.48 1.71	2.78 3.93 4.77 4.35 2.24	4.27 4.29 4.80 4.63 3.66	4.91 4.84 4.28	5.63 5.24 5.59 5.56 5.63	6.39 6.06 6.48 6.48 7.45	4.42 4.42 4.80	6.63 6.41 6.05	4.34 6.19 7.96 8.05 5.09	2.34 4.19 5.96 5.86 2.39 .50		3.88 1.67 1.13 1.35 3.22 4.97 5.02 1.92
2009 2010 2011 2012	.16 .14 .06 .09	.29 .20 .10 .13	1.43 1.11 .75 .38	3.26 3.22 2.78 1.80	4.08 4.25 3.91 2.92	5.31 4.94 4.64 3.67	7.30 6.04 5.66 4.94	4.64 4.16 4.29 3.14	5.14 4.80 4.56 3.69	3.25 3.25 3.25 3.25 3.25	.50 .72 .75 .75		.16 .18 .10 .14

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.

See next page for continuation of table.

TABLE B-73. Bond yields and interest rates, 1941-2012—Continued

[Percent per annum]

		U.S. Tr	easury sec	urities		Corp	orate	High-			Discount	window	
Year and month		lls ction) ¹	1	Constant maturities	2	bor (Mod		grade muni- cipal bonds	New- home mort-	Prime rate charged	(Federal Reserve Ban of New York) 5, 6		Federal funds
	3-month	6-month	3-year	10-year	30-year	Aaa ³	Baa	(Stand- ard & Poor's)	gage yields ⁴	by banks ⁵	Primary credit	Adjust- ment credit	rate ⁷
										High-low	High-low	High-low	
2008: Jan	2.86 2.21 1.38 1.32 1.71 1.89 1.72 1.79 1.46 .84 .30	2.84 2.09 1.53 1.54 1.82 2.15 1.99 1.96 1.78 1.39 .86	2.51 2.19 1.80 2.23 2.69 3.08 2.87 2.70 2.32 1.86 1.51 1.07	3.74 3.74 3.51 3.68 3.88 4.10 4.01 3.89 3.69 3.81 3.53 2.42	4.33 4.52 4.39 4.44 4.60 4.69 4.57 4.50 4.27 4.17 4.00 2.87	5.33 5.53 5.51 5.55 5.57 5.68 5.67 5.64 5.65 6.28 6.12 5.05	6.54 6.82 6.89 6.97 6.93 7.07 7.16 7.15 7.31 8.88 9.21 8.43	4.00 4.35 4.67 4.43 4.34 4.48 4.90 5.03 5.68 5.28 5.53	6.02 5.96 5.92 5.98 6.01 6.13 6.29 6.33 6.09 6.10 6.16 5.67	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 5.00-4.00 4.00-4.00 4.00-3.25	4.75–3.50 3.50–3.50 3.50–2.55 2.50–2.25 2.25–2.25 2.25–2.25 2.25–2.25 2.25–2.25 2.25–1.25 1.25–1.25 1.25–0.50		3.94 2.98 2.61 2.28 1.98 2.00 2.01 2.00 1.81 .97 .39
2009: Jan Feb Mar Apr June July Aug Sept Oct Nov Dec	.12 .31 .25 .17 .19 .17 .19 .18 .13 .08 .06	.31 .46 .43 .37 .31 .32 .29 .27 .22 .17 .16	1.13 1.37 1.31 1.32 1.39 1.76 1.55 1.65 1.48 1.46 1.32 1.38	2.52 2.87 2.82 2.93 3.29 3.72 3.56 3.59 3.40 3.39 3.40 3.59	3.13 3.59 3.64 3.76 4.23 4.52 4.41 4.37 4.19 4.19 4.31 4.49	5.05 5.27 5.50 5.39 5.54 5.61 5.41 5.26 5.13 5.15 5.19 5.26	8.14 8.08 8.42 8.39 8.06 7.50 7.09 6.58 6.31 6.29 6.32 6.37	5.13 5.00 5.15 4.88 4.60 4.84 4.69 4.58 4.13 4.20 4.35 4.16	5.11 5.09 5.10 4.96 4.92 5.17 5.40 5.32 5.26 5.14 5.08 5.01	3.25–3.25 3.25–3.25 3.25–3.25 3.25–3.25 3.25–3.25 3.25–3.25 3.25–3.25 3.25–3.25 3.25–3.25 3.25–3.25 3.25–3.25	0.50-0.50 0.50-0.50 0.50-0.50 0.50-0.50 0.50-0.50 0.50-0.50 0.50-0.50 0.50-0.50 0.50-0.50 0.50-0.50 0.50-0.50		.15 .22 .18 .15 .18 .21 .16 .16 .15 .12 .12
2010: Jan Feb Mar Apr May July Aug Sept Oct Nov Dec	.06 .10 .15 .15 .16 .12 .16 .15 .13 .13	.15 .18 .22 .24 .23 .19 .20 .19 .17 .17	1.49 1.40 1.51 1.64 1.32 1.17 .98 .78 .74 .57 .67	3.73 3.69 3.73 3.85 3.42 3.20 3.01 2.70 2.65 2.54 2.76 3.29	4.60 4.62 4.64 4.69 4.29 4.13 3.99 3.80 3.77 3.87 4.19 4.42	5.26 5.35 5.27 5.29 4.96 4.88 4.72 4.49 4.53 4.68 4.87 5.02	6.25 6.34 6.27 6.25 6.05 6.23 6.01 5.66 5.72 5.92 6.10	4.22 4.23 4.24 4.15 4.18 4.11 3.91 3.76 3.83 4.30 4.72	5.04 5.08 5.09 5.21 5.12 5.00 4.87 4.67 4.52 4.40 4.26	3.25–3.25 3.25–3.25 3.25–3.25 3.25–3.25 3.25–3.25 3.25–3.25 3.25–3.25 3.25–3.25 3.25–3.25 3.25–3.25	0.50-0.50 0.75-0.50 0.75-0.75 0.75-0.75 0.75-0.75 0.75-0.75 0.75-0.75 0.75-0.75 0.75-0.75 0.75-0.75 0.75-0.75		.11 .13 .16 .20 .20 .18 .18 .19 .19 .19
2011: Jan Feb Mar Apr May July Aug Sept Oct Nov Dec	.15 .14 .11 .06 .04 .03 .05 .02 .02 .01	.18 .17 .16 .12 .08 .10 .08 .09 .05 .06	1.03 1.28 1.17 1.21 .94 .71 .68 .38 .35 .47 .39	3.39 3.58 3.41 3.46 3.17 3.00 2.30 1.98 2.15 2.01 1.98	4.52 4.65 4.51 4.50 4.29 4.23 4.27 3.65 3.18 3.13 3.02 2.98	5.04 5.22 5.13 5.16 4.96 4.99 4.37 4.09 3.98 3.87 3.93	6.09 6.15 6.03 6.02 5.78 5.75 5.76 5.36 5.27 5.37 5.14 5.25	5.02 4.92 4.70 4.71 4.34 4.22 4.24 3.92 3.79 3.94 3.95 3.76	4.75 4.94 4.98 4.91 4.86 4.61 4.55 4.29 4.36 4.19 4.26 4.18	3.25-3.25 3.25-3.25 3.25-3.25 3.25-3.25 3.25-3.25 3.25-3.25 3.25-3.25 3.25-3.25 3.25-3.25 3.25-3.25 3.25-3.25	0.75-0.75 0.75-0.75 0.75-0.75 0.75-0.75 0.75-0.75 0.75-0.75 0.75-0.75 0.75-0.75 0.75-0.75 0.75-0.75 0.75-0.75		.17 .16 .14 .10 .09 .09 .07 .10 .08 .07 .08
Z012: Jan Feb Mar Apr May July Aug Sept Oct Nov Dec	.02 .08 .09 .08 .09 .09 .10 .11 .10 .10	.06 .11 .14 .14 .14 .14 .14 .13 .15 .15	.36 .38 .51 .43 .39 .39 .33 .37 .34 .37 .36	1.97 1.97 2.17 2.05 1.80 1.62 1.53 1.68 1.72 1.75 1.65	3.03 3.11 3.28 3.18 2.93 2.70 2.59 2.77 2.88 2.90 2.80 2.88	3.85 3.85 3.99 3.96 3.80 3.64 3.49 3.47 3.50 3.65	5.23 5.14 5.23 5.19 5.07 5.02 4.87 4.91 4.84 4.58 4.51 4.63	3.43 3.25 3.51 3.47 3.21 3.30 3.14 3.07 3.02 2.89 2.68 2.73	4.09 4.01 3.72 3.93 3.88 3.80 3.76 3.67 3.62 3.58 3.46 3.40	3.25-3.25 3.25-3.25 3.25-3.25 3.25-3.25 3.25-3.25 3.25-3.25 3.25-3.25 3.25-3.25 3.25-3.25 3.25-3.25 3.25-3.25 3.25-3.25	0.75-0.75 0.75-0.75 0.75-0.75 0.75-0.75 0.75-0.75 0.75-0.75 0.75-0.75 0.75-0.75 0.75-0.75 0.75-0.75 0.75-0.75 0.75-0.75		.08 .10 .13 .14 .16 .16 .13 .14 .16 .16

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.
³ Beginning with December 7, 2001, data for corporate Aaa series are industrial bonds only.

^{*} 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 19/3 not strictly comparable with prior rates.

5 For monthly data, high and low for the period. Prime rate for 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 Agency, Moody's Investors Service, and Standard & Poor's.

Table B-74. Credit market borrowing, 2004-2012

Item	2004	2005	2006	2007	2008	2009	2010	2011
NONFINANCIAL SECTORS								
Domestic	2,087.2	2,325.7	2,383.9	2,527.0	1,891.4	1,059.0	1,437.7	1,324.6
By instrument	2,087.2	2,325.7	2,383.9	2,527.0	1,891.4	1,059.0	1,437.7	1,324.6
Commercial paper	15.3	-7.7	22.4	11.3	7.7	-73.1	24.5	33.4
Treasury securities	362.5 -0.6	307.3 4	183.7 3	237.5 4	1,239.0	1,443.7	1,579.6 .7	1,066.8 1.1
Municipal securities	203.7	198.1	170.0	235.5	92.4	155.3	99.7	-52.8
Corporate bonds	87.7	54.2	208.3	311.1	205.5	387.6	422.8	384.6
Depository institution loans n.e.c.	17.3	139.0	149.3	228.0	188.4	-303.1	-51.5	71.7
Other loans and advances	52.9 1,231.2	117.2 1,417.6	150.1 1,385.1	305.5 1,057.3	67.8 70.4	-145.7 -290.1	-84.3 -523.4	71.1 –337.6
Home	1,021.4	1,113.9	1,081.2	710.9	-120.4	-202.1	-354.6	-255.1
Multifamily residential	47.0	60.9	37.4	86.9	42.5	5.8	-13.7	-5.1
Commercial Farm	150.2 12.5	233.7 9.1	263.2 3.3	254.8 4.6	126.3 22.0	-90.3 -3.4	-165.0 9.9	-82.2 4.8
Consumer credit	117.2	100.4	115.2	141.3	20.1	-115.9	-30.5	86.2
By sector	2.087.2	2.325.7	2.383.9	2,527.0	1.891.4	1,059.0	1.437.7	1.324.6
Household sector	1,051.5	1,170.3	1,165.0	843.8	-26.1	-231.6	-296.0	-209.2
Nonfinancial business Corporate	495.0 240.3	706.8 365.2	934.5 519.3	1,299.5 837.9	660.3 341.5	-266.3 -146.4	83.9 279.0	518.6 533.9
Noncorporate	254.7	341.6	415.2	461.6	318.8	-120.0	-195.1	-15.3
State and local governments	178.8	141.7	100.9	146.7	17.9	113.0	69.5	-52.7
Federal Government	361.9	306.9	183.4	237.1	1,239.2	1,443.9	1,580.2	1,067.9
Foreign borrowing in the United States	155.3 69.2	113.0 38.6	332.6 98.4	170.3 -69.3	-226.2 -71.0	211.8 59.4	75.3 -2.7	34.8 -53.5
Commercial paper Bonds	85.8	64.5	227.8	218.7	-158.8	163.3	59.9	-53.5 57.8
Depository institution loans n.e.c.	3.8	14.5	13.8	24.1	5.1	-11.2	17.9	29.2
Other loans and advances	-3.6	-4.6	-7.4	-3.2	-1.5	.3	.2	1.4
Nonfinancial domestic and foreign borrowing	2,242.5	2,438.7	2,716.4	2,697.3	1,665.1	1,270.8	1,513.0	1,359.4
FINANCIAL SECTORS								
By instrument	938.9	1,113.1	1,340.2	1,815.2	899.1	-1,810.6	-939.3	-430.8
Open market paper	21.7 75.0	214.2 -84.0	196.3 35.6	-111.4 282.4	-125.6 271.7	-448.2 -475.3	-101.7 -233.8	-68.1 -187.2
Agency- and GSE-backed mortgage pool securities 1	40.8	164.5	292.6	623.3	497.0	415.3	186.9	165.3
Corporate bonds	668.5	744.6	799.3	710.4	-280.5	-587.7	-583.2	-321.5
Depository institution loans n.e.c. Other loans and advances	33.4 74.1	15.5 44.4	-11.5 21.2	80.1 225.8	496.4 33.3	-435.4 -282.6	-62.9 -144.7	31.6 -60.0
Mortgages	25.5	14.1	6.6	4.7	6.8	3.4	.2	9.1
By sector	938.9	1,113.1	1,340.2	1,815.2	899.1	-1,810.6	-939.3	-430.8
U.Schartered depository institutions	81.2	54.1	43.8	222.6	-1.1	-292.3	-161.2	-73.8
Foreign banking offices in the United States Credit unions	0.1	.0 3.3	3 4.2	.0 13.4	2 8.3	.0 –14.1	.0 _ 4	.0 –2.0
Life insurance companies	3.0	.4	2.7	14.5	26.2	-6.6	-3.2	1.8
Government-sponsored enterprises	75.0	-84.0	35.6	282.4	271.7	-475.3	-233.8	-187.2 165.3
Agency- and GSE-backed mortgage pools ¹ Asset-backed securities issuers	40.8 439.6	164.5 731.0	292.6 800.5	623.3 351.5	497.0 -411.1	415.3 -738.8	186.9 -505.6	-255.4
Finance companies	134.3	33.5	34.8	34.9	-79.4	-156.2	-174.9	11.4
REITs 2	94.6	55.4	15.5	10.2	-53.8	-50.0	-2.1	28.2
Brokers and dealers	15.2 55.7	.1 50.1	6.4 75.0	-4.0 151.9	77.7 97.3	-49.7 -8.0	36.9 -16.5	−37.9 −16.5
Funding companies	-2.9	104.7	29.1	114.5	466.4	-434.8	-65.3	-64.6
ALL SECTORS, BY INSTRUMENT								
Total	3.181.4	3.551.9	4.056.6	4.512.5	2.564.3	-539.8	573.7	928.6
Open market paper	106.2	245.1	317.1	-169.4	-189.0	-461.9	-79.9	-88.2
Treasury securities	362.5 115.2	307.3 80.0	183.7 327.9	237.5 905.3	1,239.0 768.9	1,443.7 -59.9	1,579.6 -46.2	1,066.8 -20.8
Agency- and GSE-backed securities ¹ Municipal securities	203.7	198.1	170.0	235.5	92.4	155.3	99.7	-20.6 -52.8
Corporate and foreign bonds	842.0	863.4	1,235.4	1,240.3	-233.8	-36.8	-100.5	120.9
Depository institution loans n.e.c.	54.5	169.0	151.7	332.1	689.9	-749.7	-96.5	132.5
Other loans and advances	123.4 1,256.7	156.9 1.431.8	163.9 1.391.7	528.1 1.062.0	99.6 77.2	-428.0 -286.7	-228.8 -523.1	12.5 -328.5
	117.2	100.4	115.2	141.3	20.1	-115.9	-30.5	86.2

¹ Government-sponsored enterprises (GSE). ² Real estate investment trusts (REITs).

See next page for continuation of table.

TABLE B-74. Credit market borrowing, 2004-2012—Continued

ltom		20	11		2012			
ltem	1	II	III	IV	ı	II	III	
NONFINANCIAL SECTORS								
Domestic	905.3	943.7	1,597.5	1,851.7	1,768.8	1,971.3	952.1	
By instrument	905.3	943.7	1,597.5	1,851.7	1.768.8	1,971.3	952.1	
Commercial paper	25.8	49.5	29.7	28.5	-2.4	34.5	-30.0	
Treasury securities	849.7	791.7	1,337.1	1,288.8	1,431.5	1,182.8	690.5	
Agency- and GSE-backed securities ¹ Municipal securities	1.2	.2	1.9	1.1	-3.3	.1	3	
Municipal securities	-70.1 404.3	-75.4 461.2	-15.1 322.4	-50.5 350.4	2.8 470.1	109.7 370.2	-6.8 514.8	
Corporate bonds	25.1	-91.2 -91.2	96.5	256.4	286.6	393.4	34.	
Other loans and advances	-12.9	121.8	80.9	94.7	-119.5	-16.3	-38.0	
Mortgages	-384.5	-392.2	-304.0	-269.6	-446.0	-276.0	-329.	
Home	-290.9	-269.2	-199.6	-260.8	-342.9	-214.4	-297.8	
Multifamily residential		-2.9	3.3	19.9	1.0	26.7	43.	
Commercial Farm	-57.2 4.2	-125.0 4.9	-112.7 5.0	-33.7 5.0	-109.0 5.0	-93.3 5.0	-79. 5.	
Consumer credit	66.7	78.1	48.2	151.9	149.0	172.9	117.	
By sector	905.3	943.7	1,597.5	1.851.7	1.768.8	1.971.3	952.	
Household sector	-267.2	-355.9	-223.5	9.8	-120.7	160.9	-261.	
Nonfinancial business	407.3	591.1	486.6	589.3	462.4	534.4	526.	
Corporate	463.0	634.6	514.0	524.0	440.4	510.6	510.	
Noncorporate	-55.7	-43.5	-27.4	65.3	22.1	23.8	16.	
State and local governments Federal Government	-85.6 850.9	-83.3 791.8	-4.5 1,339.0	-37.4 1,290.0	-1.0 1,428.1	93.0 1,182.9	-2.8 690.3	
	319.5	80.5	-144.8	-115.9	-1.1	-108.6	98.5	
Foreign borrowing in the United States		-51.9	-144.6 -256.4	-115.9 -25.9	35.8	-51.3	80.	
Bonds	151.0	120.2	69.2	-109.4	-73.6	-106.0	3.0	
Depository institution loans n.e.c.	47.9	13.7	41.7	13.4	29.0	44.8	9.7	
Other loans and advances	0.5	-1.5	.6	6.0	7.7	3.9	4.8	
Nonfinancial domestic and foreign borrowing	1,224.9	1,024.2	1,452.7	1,735.9	1,767.7	1,862.6	1,050.4	
FINANCIAL SECTORS								
By instrument	-115.1	-701.5	-402.6 -51.8	-503.8	-352.7 -6.2	-696.2 -34.7	-163.2 -31.9	
Open market paperGSE issues ¹	82.9 11.1	-79.9 -479.9	-138.3	-223.6 -141.7	-274.9	-155.0	-31.3 -113.3	
Agency- and GSE-backed mortgage pool securities 1	243.6	153.0	135.8	128.9	159.6	136.2	94.9	
Corporate bonds	-351.3	-376.2	-324.4	-234.0	-61.6	-431.4	-138.9	
Depository institution loans n.e.c.	-51.2	158.1	56.1	-36.4	-150.8	-301.2	64.2	
Other loans and advances	-57.3 7.1	-95.0 18.4	-84.4 4.2	-3.4 6.5	-29.2 10.4	65.0 24.9	-52.9 14.0	
By sector	1 1	-701.5	-402.6	-503.8	-352.7	-696.2	-163.2	
U.Schartered depository institutions	-78.0	-701.5 -99.1	-402.6 -99.2	-503.6 -18.8	-352.7 -41.2	-090.2	-103.2 -97.8	
Foreign banking offices in the United States		.0	.0	0.01	.0	0.	37.	
Credit unions	-9.6	-3.5	3.7	1.6	-5.1	3.3	2.	
Life insurance companies	1.8	2.4	.9	1.9	6.6	15.7		
Government-sponsored enterprises	11.1	-479.9 153.0	-138.3 135.8	-141.7 128.9	-274.9 159.6	-155.0 136.2	-113.: 94.	
Agency- and GSE-backed mortgage pools ¹ Asset-backed securities issuers	243.6 -306.3	-229.2	-284.6	-201.6	-239.6	-260.2	-163.	
Finance companies	21.2	-94.6	129.1	-10.3	-25.2	-123.1	80.	
REITs 2	44.5	16.9	13.9	37.3	26.6	57.3	23.4	
Brokers and dealers		-72.7	-43.4	-29.7	24.9	16.5	-65.2	
Holding companies	83.6 -121.0	46.4 58.9	-83.6 -37.0	-112.2 -159.2	12.3 3.3	-360.2 -16.7	57.8 17.3	
Funding corporations ALL SECTORS, BY INSTRUMENT	-121.0	30.9	-37.0	-139.2	3.3	-10.7	17.3	
Total	1.109.8	322.7	1.050.1	1.232.0	1.415.0	1.166.4	887.2	
Open market paper	228.9	-82.3	-278.5	1,232.0 -221.0	27.2	-51.4	18.3	
Treasury securities	849.7	791.7	1,337.1	1,288.8	1,431.5	1,182.8	690.	
Agency' and GSE-backed securities ¹ Municipal securities	255.9	-326.7	5	-11.7	-118.7	-18.7	-18.0	
Corporate and foreign bonds	-70.1 204.0	-75.4 205.2	-15.1 67.2	-50.5 7.0	2.8 334.9	109.7 -167.3	-6.1 379.	
Depository institution loans n.e.c.		80.6	194.4	233.3	164.9	137.0	108.	
Other loans and advances		25.2	-2.9	97.3	-141.0	52.7	-86.	
Mortgages	-377.4	-373.8	-299.8	-263.1	-435.5	-251.1	-314.4	
Consumer credit	66.7	78.1	48.2	151.9	149.0	172.9	117.2	

Source: Board of Governors of the Federal Reserve System.

TABLE B-75. Mortgage debt outstanding by type of property and of financing, 1955-2012 [Billions of dollars]

			Nonfarm properties					Nonfarn	n properties	by type of n	nortgage	
							G	overnment	underwritte	n	Conver	itional ²
End of year or quarter	All proper- ties	Farm proper- ties	Total	1- to 4-	Multi- family	Com- mercial		1- to	4-family ho	uses		4 . 4
	lies :	lies	Total	family houses	proper- ties	proper- ties	Total ¹	Total	FHA- insured	VA- guar- anteed	Total	1- to 4- family houses
1955 1956 1957 1958 1959	129.9 144.5 156.5 171.8 191.6	9.0 9.8 10.4 11.1 12.1	120.9 134.6 146.1 160.7 179.5	88.2 99.0 107.6 117.7 131.6	14.3 14.9 15.3 16.8 18.7	18.3 20.7 23.2 26.1 29.2	42.9 47.8 51.6 55.2 59.3	38.9 43.9 47.2 50.1 53.8	14.3 15.5 16.5 19.7 23.8	24.6 28.4 30.7 30.4 30.0	78.0 86.8 94.6 105.5 120.2	49.3 55.1 60.4 67.6 77.7
1960 1961 1962 1963 1964 1965 1966 1967 1968	208.3 229.1 252.7 280.0 307.4 334.7 357.9 382.5 412.1 442.5	12.8 13.9 15.2 16.8 18.9 21.2 23.1 25.0 27.3 29.2	195.4 215.1 237.5 263.1 288.4 313.5 334.8 357.4 384.8 413.3	142.7 155.8 170.5 187.9 204.8 221.9 234.4 248.7 266.1 283.9	20.3 23.0 25.8 29.0 33.6 37.2 40.3 43.9 47.3 52.3	32.4 36.4 41.1 46.2 50.0 54.5 60.1 64.8 71.4 77.1	62.3 65.6 69.4 73.4 77.2 81.2 84.1 88.2 93.4 100.2	56.4 59.1 62.2 65.9 69.2 73.1 76.1 79.9 84.4 90.2	26.7 29.5 32.3 35.0 38.3 42.0 44.8 47.4 50.6 54.5	29.7 29.6 29.9 30.9 31.1 31.3 32.5 33.8 35.7	133.1 149.5 168.1 189.7 211.3 232.4 250.7 269.3 291.4 313.1	86.3 96.7 108.3 122.0 135.6 148.8 158.3 168.8 181.6 193.7
1970 1971 1972 1973 1974 1975 1976 1977 1978	474.5 525.0 598.2 673.9 734.0 793.9 881.1 1,013.0 1,165.5 1,331.5	30.5 32.4 35.4 39.8 44.9 49.9 55.4 63.8 72.8 86.8	444.0 492.7 562.9 634.1 689.1 744.0 825.7 949.2 1,092.8 1,244.7	298.0 326.4 367.0 408.7 441.5 483.2 546.4 642.5 753.7 870.8	60.1 70.1 82.8 93.2 100.0 100.7 105.9 114.3 125.2 135.0	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 66.1 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	334.7 371.9 431.7 499.1 548.8 597.0 671.6 787.4 916.4 1,045.7	200.8 221.2 254.1 292.4 320.2 355.5 412.9 500.9 600.3 697.9
1980 1981 1982 1983 1984 1985 1986 1987 1988	1,467.6 1,591.5 1,676.1 1,871.7 2,120.6 2,370.3 2,657.9 2,996.2 3,313.1 3,585.4	97.5 107.2 111.3 113.7 112.4 94.1 84.0 75.8 70.8 68.8	1,370.1 1,484.3 1,564.8 1,757.9 2,008.2 2,276.2 2,573.9 2,920.4 3,242.3 3,516.6	969.7 1,046.5 1,091.1 1,214.9 1,358.9 1,528.8 1,732.8 1,960.9 2,194.7 2,428.1	141.1 139.2 141.1 154.3 177.4 205.9 239.2 261.6 278.1 288.9	259.3 298.6 332.6 388.6 471.9 541.5 601.9 697.9 769.6 799.6	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	1,145.1 1,245.4 1,315.9 1,478.1 1,713.4 1,947.8 2,203.4 2,489.0 2,782.6 3,029.8	774.5 838.9 873.3 966.1 1,093.0 1,240.0 1,404.2 1,573.0 1,780.5 1,988.0
1990	3,788.2 3,929.8 4,043.4 4,174.8 4,339.0 4,524.8 4,792.4 5,104.8 5,589.5 6,195.1	67.6 67.5 67.9 68.4 69.9 71.7 74.4 78.5 83.1 87.2	3,720.6 3,862.4 3,975.5 4,106.4 4,269.1 4,453.0 4,718.0 5,026.3 5,506.4 6,107.9	2,613.6 2,771.9 2,942.0 3,100.9 3,278.2 3,445.4 3,668.4 3,902.5 4,259.0 4,683.1	287.4 280.4 264.4 259.4 258.7 264.7 277.5 290.9 325.1 366.5	819.6 810.1 769.1 746.0 732.2 743.0 772.0 832.9 922.4 1,058.4	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	3,202.7 3,325.2 3,442.2 3,592.9 3,709.8 3,868.8 4,097.7 4,369.6 4,832.4 5,376.4	2,142.7 2,278.6 2,452.2 2,631.4 2,764.0 2,908.3 3,097.3 3,296.8 3,635.2 4,004.3
2000 2001 2002 2003 2004 2005 2006 2007 2008 2009	6,752.6 7,460.4 8,361.2 9,376.2 10,650.7 12,097.7 13,481.9 14,566.0 14,661.3 14,370.0	84.7 88.5 95.4 83.2 95.7 104.8 108.0 112.7 133.0 132.0	6,667.9 7,371.9 8,265.8 9,293.1 10,555.0 11,992.9 13,373.9 14,453.3 14,528.3 14,238.0	5,106.6 5,658.5 6,413.3 7,240.1 8,279.3 9,408.5 10,484.3 11,217.0 11,127.5 10,918.3	396.2 437.9 477.5 550.1 600.2 657.4 694.4 776.4 828.1 836.5	1,165.2 1,275.4 1,375.1 1,502.9 1,675.6 1,927.1 2,195.1 2,459.9 2,572.7 2,483.3	773.1 772.7 759.3 709.2 661.5 606.6 600.2 609.2 807.2 1,005.0	720.0 718.5 704.0 653.3 605.4 550.4 543.5 552.6 750.7 944.3	499.9 497.4 486.2 438.7 398.1 348.4 336.9 342.6 534.0 752.6	220.1 221.2 217.7 214.6 207.3 202.0 206.6 210.0 216.7 191.7	5,894.8 6,599.2 7,506.5 8,583.9 9,893.5 11,386.3 12,773.7 13,844.2 13,721.0 13,233.0	4,386.6 4,940.0 5,709.3 6,586.8 7,674.0 8,858.0 9,940.9 10,664.4 10,376.8 9,974.0
2010	13,712.3 13,383.8 13,617.0 13,525.3 13,443.8 13,383.8	140.6 145.9 141.5 143.4 144.7 145.9	13,571.7 13,237.9 13,475.4 13,381.9 13,299.1 13,237.9	10,413.6 10,158.0 10,339.0 10,272.3 10,214.2 10,158.0	825.5 830.2 824.8 824.0 825.1 830.2	2,332.5 2,249.7 2,311.7 2,285.6 2,259.8 2,249.7	1,227.7 1,368.6 1,269.2 1,307.7 1,360.0 1,368.6	1,156.2 1,291.3 1,196.6 1,233.3 1,283.5 1,291.3	934.4 1,036.0 966.4 994.6 1,035.2 1,036.0	221.8 255.3 230.2 238.7 248.2 255.3	12,344.0 11,869.3 12,206.2 12,074.2 11,939.1 11,869.3	9,257.4 8,866.7 9,142.3 9,039.0 8,930.8 8,866.7
2012: 	13,276.2 13,209.2 13,119.2	147.2 148.4 149.7	13,129.0 13,060.8 12,969.5	10,071.5 10,013.2 9,926.0	829.9 836.0 846.6	2,227.7 2,211.5 2,196.9	1,462.6 3,269.3 1,529.5	1,384.0 3,188.1 1,445.1	1,120.6 2,912.5 1,158.4	263.4 275.6 286.6	11,666.5 9,791.5 11,440.0	8,687.5 6,825.1 8,480.9

Source: Board of Governors of the Federal Reserve System, based on data from various Government and private organizations.

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.

Table B-76. Mortgage debt outstanding by holder, 1955-2012

[Billions of dollars]

			Major financi	al institutions			Other holders	
End of year or quarter	Total	Total	Savings institu- tions ¹	Commercial banks ²	Life insurance companies	Federal and related agencies ³	Mortgage pools or trusts ⁴	Individuals and others
1955 1956 1957 1958 1959	129.9 144.5 156.5 171.8 191.6	99.3 111.2 119.7 131.5 145.5	48.9 55.5 61.2 68.9 78.1	21.0 22.7 23.3 25.5 28.1	29.4 33.0 35.2 37.1 39.2	5.2 6.0 7.5 7.8 10.0	0.1 .1 .2 .2	25.3 27.1 29.1 32.3 35.9
1960	208.3 229.1 252.7 280.0 307.4 334.7 357.9 382.5 412.1 442.5	157.5 172.6 192.5 217.1 241.0 264.6 280.7 298.7 319.7 338.9	86.9 98.0 111.1 127.2 141.9 154.9 161.8 172.3 184.3 196.4	28.8 30.4 34.5 39.4 44.0 49.7 54.4 58.9 65.5 70.5	41.8 44.2 46.9 50.5 55.2 60.0 64.6 67.5 70.0 72.0	11.3 11.9 12.2 11.3 11.6 12.7 16.2 19.0 22.6 27.9	.2 .3 .4 .5 .6 .9 1.3 2.0 2.5 3.2	39.3 44.2 47.6 51.0 54.1 56.6 59.7 62.8 67.3 72.4
1970	474.5 525.0 598.2 673.9 734.0 793.9 881.1 1,013.0 1,165.5 1,331.5	355.9 394.2 449.9 505.4 542.6 581.2 647.5 745.2 848.2 938.2	208.3 236.2 273.6 305.0 324.2 355.8 404.6 469.4 528.0 574.6	73.3 82.5 99.3 119.1 132.1 136.2 151.3 179.0 214.0 245.2	74.4 75.5 76.9 81.4 86.2 89.2 91.6 96.8 106.2 118.4	33.6 36.8 40.1 46.6 58.4 67.0 66.9 70.2 81.9 97.3	4.8 9.5 14.4 18.0 23.8 34.1 49.8 70.3 88.6 118.7	80.2 84.5 93.8 103.9 109.2 111.5 116.9 127.3 146.8 177.3
1980 1981 1982 1983 1983 1984 1985 1986 1986 1987	1,467.6 1,591.5 1,676.1 1,871.7 2,120.6 2,370.3 2,657.9 2,996.2 3,313.1 3,585.4	996.8 1,040.5 1,021.3 1,108.1 1,247.8 1,363.5 1,476.5 1,667.6 1,834.3 1,935.2	603.1 618.5 578.1 626.6 709.7 760.5 778.0 860.5 924.5 910.3	262.7 284.2 301.3 330.5 381.4 431.2 504.7 594.8 676.9 770.7	131.1 137.7 142.0 151.0 156.7 171.8 193.8 212.4 232.9 254.2	114.6 126.4 138.7 148.3 158.5 166.9 202.1 188.5 192.5	145.9 168.0 224.4 297.3 350.7 438.6 549.5 700.8 785.7	210.4 256.6 291.6 317.9 363.7 401.2 429.8 439.2 500.7 530.2
1990	3,788.2 3,929.8 4,043.4 4,174.8 4,339.0 4,524.8 4,792.4 5,104.8 5,589.5 6,195.1	1,918.8 1,846.2 1,770.4 1,770.1 1,824.7 1,900.1 1,981.9 2,084.0 2,194.6 2,394.3	801.6 705.4 627.9 598.4 596.2 596.8 628.3 631.8 644.0 668.1	849.3 881.3 900.5 947.8 1,012.7 1,090.2 1,145.4 1,245.3 1,337.0	267.9 259.5 242.0 223.9 215.8 213.1 208.2 206.8 213.6 230.8	239.0 266.0 286.1 326.0 315.6 307.9 294.4 285.2 291.9 319.8	1,085.9 1,269.6 1,440.0 1,561.1 1,696.9 1,812.1 1,989.2 2,165.9 2,486.7 2,831.8	544.5 548.1 547.0 517.5 501.9 504.7 527.0 616.4 649.2
2000	6,752.6 7,460.4 8,361.2 9,376.2 10,650.7 12,097.7 13,481.9 14,566.0 14,661.3 14,370.0	2,619.0 2,790.9 3,089.3 3,387.3 3,926.3 4,396.2 4,783.6 5,064.6 5,044.4 4,778.1	723.0 758.0 781.0 870.6 1,057.4 1,152.7 1,076.8 1,094.0 860.6 633.3	1,660.1 1,789.8 2,058.3 2,255.8 2,595.6 2,958.0 3,403.1 3,644.4 3,841.3 3,818.6	235.9 243.0 250.0 260.9 273.3 285.5 303.8 326.2 342.4 326.1	339.9 372.0 432.3 694.1 703.2 665.4 687.5 725.5 801.2 816.1	3,097.3 3,556.7 3,994.5 4,353.4 4,834.3 5,700.7 6,622.5 7,422.3 7,564.7 7,612.1	696.4 740.8 845.1 941.5 1,186.9 1,335.4 1,353.7 1,251.1 1,163.8
2010	13,712.3 13,383.8 13,617.0 13,525.3 13,443.8 13,383.8	4,583.5 4,448.2 4,469.6 4,435.6 4,433.8 4,448.2	614.8 586.2 600.2 590.9 589.4 586.2	3,651.2 3,529.5 3,550.9 3,521.9 3,515.8 3,529.5	317.5 332.5 318.4 322.8 328.6 332.5	5,127.5 5,034.6 5,162.4 5,127.8 5,073.9 5,034.6	3,047.3 2,994.7 3,041.5 3,029.2 3,020.6 2,994.7	953.9 906.3 943.6 932.8 915.4 906.3
2012: I	13,276.2 13,209.2 13,119.2	4,385.3 4,390.4 4,351.4	502.0 498.2 456.9	3,546.6 3,551.8 3,551.0	336.7 340.5 343.5	5,034.5 4,982.3 4,956.5	2,960.7 2,955.3 2,931.3	895.7 881.1 879.9

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.
 Includes loans held by nondeposit trust companies but not loans held by bank trust departments.

Source: Board of Governors of the Federal Reserve System, based on data from various Government and private organizations.

² Includes loans held by nondeposit trust companies but not loans held by bank trust departments.
³ Includes Government National Mortgage Association (BNMA or Ginnie Mae), Federal Housing Administration, Veterans Administration, Farmers Home Administration (FmHA), Federal Deposit Insurance Corporation, Resolution Trust Corporation, Horneowners Loan Corporation, Federal Farm Mortgage Corporation, and Public Housing Administration. Also includes U.S. sponsored agencies such as Federal National Mortgage Association (FMMA or Farnie Mae), Federal Land Banks, Federal Home Loan 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, 1961-2012

[Amount outstanding (end of month); millions of dollars, seasonally adjusted]

Year and month	Total consumer credit ¹	Revolving	Nonrevolving ²
December:	00 040 50		00.040.50
1961 1962	62,248.53 68,126.72		62,248.53 68,126.72 76,581.45
1963	/6,581.45		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	106,842.64 117,399.09		106,842.64 115,357.55
1968	117,399.09	3.604.84	115,357.55
1969	127,156.18	.,	123,551.35
1970 1971	131,551.55 146,930.18	4,961.46 8,245.33	126,590.09 138,684.84
1972	166,189.10	9,379.24	156,809.86
1973	190,086.31	11,342.22	178,744.09
1974 1975	198,917.84 204,002.00	13,241.26 14.495.27	185,676.58 189,506.73
1976	204,002.00 225,721.59	16,489.05	189,506.73 209,232.54
1977 1978	260,562.70 306,100.39	37,414.82 45,690.95	223,147.88 260,409.43
1979	348,589.11	53,596.43	294,992.67
1980	351.920.05	54,970.05	296,950.00
1981	371,301.44 389,848.74	60,928.00	310,373.44
1982 1983	389,848.74 437,068.86	66,348.30 79,027.25	323,500.44 358,041.61
1984	517,278.98	100,385.63	416,893.35
1985	599,711.23	124,465.80	475,245.43
1986 1987	654,750.24 686 318 77	141,068.15 160,853,91	513,682.08 525,464,86
1987 1988 ³	686,318.77 731,917.76	160,853.91 184,593.12 211,229.83	525,464.86 547,324.64 583,382.34
1989	794,612.18		
1990	808,230.57 798,028.97	238,642.62	569,587.95
1991 1992	806,118.69	263,768.55 278,449.67	534,260.42 527,669.02
1993	865,650.58	309,908.02	555,/42.56
1994 1995	997,301.74 1,140,744.36	365,569.56	631,732.19 696,824.27
1996	1.253.437.091	443,920.09 507,516.57	745,920.52
1997	1,324,757.33 1,420,996.44	540,005.56	784,751.77
1998 1999	1,420,996.44	581,414.78 610,696.47	839,581.66 920,409.49
2000	1,716,969.72	682,646.37	1,034,323.35
2001	1,867,852.87	714,840.73	1,153,012.14
2002 2003	1,972,112.21	750,947.45	1,221,164.76
2004	2,077,360.69 2,192,246.17	768,258.31 799,552.18	1,309,102.38 1,392,693.99
2005	2,290,928.13	829,518.36	1,461,409.78
2006 2007	2,384,965.33 2,528,775.42	929,429.78 1,008,127.28	1,455,535.55 1,520,648.14
2008	2,548,862.43	1.010.282.04	1,538,580.39
2009	2,438,736.82	921,861.60	1,516,875.22
2010 2011	2,545,282.88 2,631,510.34	850,151.66 851,448.52	1,695,131.22 1,780,061.81
2011: Jan	2,544.892.95	845.469.23	1,699,423.73
Feb	2,544,652.55	843 296 86	1,710,476.23
Mar	2,553,773.09 2,561,958.28 2,564,359.03	848,420.57 842,765.04	1,713,537.71
Apr May	2,564,359.03 2,572,348.56	842,765.U4 848,895.93	1,721,593.99 1,723,452.63
June	2.581,495,29	850,225.36	1,731,269.93
July	2,591,348.89	847,065.37	1.744.283.52
Aug Sept	2,583,147.01 2,593,538.51	847,261.30 847,694.65	1,735,885.71 1,745,843.85
Oct	2,597,148.26	848,668.24	1,748,480.03
Nov	2,615,280.16 2,631,510.34	852,390.05 851,448.52	1,762,890.11 1,780,061.81
Dec	2,646,312.10	848,502.46	1,797,809.63
Feb	2.655.344.21	848,995.39	1,806,348.82
Mar	2,668,764.36 2,679,362.86 2,698,795.72	852,798.89	1,815,965.46
Apr May	2,6/9,362.86 2,602,705,72	849,042.02 858,753.82	1,830,320.84 1,840,041.90
June	1 2 709 1/19 21 1	855,543.63	1,853,605.58
July	2,707,369.33	851,320.80	1.856.048.53
Aug Sept	2,726,375.25 2 738 381 55	856,350.47 854 138 08	1,870,024.78 1,884,223.46
Oct	2,707,369,33 2,726,375.25 2,738,361.55 2,752,437,33	854,138.08 857,574.19	1,894,863.14
Nov P	2,768,482.45	858,391.10	1,910,091.35

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.

¹ Covers most since and interinellate retain case retained to minimize a course of the course o

GOVERNMENT FINANCE

TABLE B-78. Federal receipts, outlays, surplus or deficit, and debt, fiscal years, 1946-2013

[Billions of dollars; fiscal years]

		Total			On-budget			Off-budget		Federa (end of	al 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
1946 1947 1948 1949	39.3 38.5 41.6 39.4	55.2 34.5 29.8 38.8	-15.9 4.0 11.8 .6	38.1 37.1 39.9 37.7	55.0 34.2 29.4 38.4	-17.0 2.9 10.5 7	1.2 1.5 1.6 1.7	0.2 .3 .4 .4	1.0 1.2 1.2 1.3	271.0 257.1 252.0 252.6	241.9 224.3 216.3 214.3	222.6 233.2 256.6 271.3
1950	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	1.6 1.8 1.9 1.8 1.7 1.1 1.5 .8 .5 7	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	273.1 320.2 348.7 372.5 377.0 395.9 427.0 450.9 460.0 490.2
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	518.9 529.9 567.8 599.2 641.5 687.5 755.8 810.0 868.4 948.1
1970 1971 1972 1973 1974 1975 1976 <i>Transition quarter</i> . 1977 1978	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 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	1,012.7 1,080.0 1,176.5 1,310.6 1,438.5 1,560.2 1,738.1 459.4 1,973.5 2,217.5 2,501.4
1980	517.1 599.3 617.8 600.6 666.4 734.0 769.2 854.3 909.2 991.1	590.9 678.2 745.7 808.4 851.8 946.3 990.4 1,004.0 1,064.4 1,143.7	-73.8 -79.0 -128.0 -207.8 -185.4 -212.3 -221.2 -149.7 -155.2 -152.6	403.9 469.1 474.3 453.2 500.4 547.9 568.9 640.9 667.7 727.4	477.0 543.0 594.9 660.9 685.6 769.4 806.8 809.2 860.0 932.8	-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	2,724.2 3,057.0 3,223.7 3,440.7 3,844.4 4,146.3 4,403.9 4,651.4 5,008.5 5,399.5
1990 1991 1992 1993 1994 1995 1996 1997 1998	1,032.0 1,055.0 1,091.2 1,154.3 1,258.6 1,351.8 1,453.1 1,579.2 1,721.7 1,827.5	1,253.0 1,324.2 1,381.5 1,409.4 1,461.8 1,515.7 1,560.5 1,601.1 1,652.5 1,701.8	-221.0 -269.2 -290.3 -255.1 -203.2 -164.0 -107.4 -21.9 69.3 125.6	750.3 761.1 788.8 842.4 923.5 1,000.7 1,085.6 1,187.2 1,305.9 1,383.0	1,027.9 1,082.5 1,129.2 1,142.8 1,182.4 1,227.1 1,259.6 1,290.5 1,335.9 1,381.1	-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	5,734.5 5,930.5 6,242.0 6,587.3 6,976.6 7,341.1 7,718.3 8,211.7 8,663.0 9,208.4
2000 2001 2002 2003 2004 2005 2006 2007 2008 2009	2,025.2 1,991.1 1,853.1 1,782.3 1,880.1 2,153.6 2,406.9 2,568.0 2,524.0 2,105.0	1,789.0 1,862.8 2,010.9 2,159.9 2,292.8 2,472.0 2,655.1 2,728.7 2,982.5 3,517.7	236.2 128.2 -157.8 -377.6 -412.7 -318.3 -248.2 -160.7 -458.6 -1,412.7	1,544.6 1,483.6 1,337.8 1,258.5 1,345.4 1,576.1 1,798.5 1,932.9 1,865.9 1,451.0	1,458.2 1,516.0 1,655.2 1,796.9 1,913.3 2,069.7 2,233.0 2,275.0 2,507.8 3,000.7	86.4 -32.4 -317.4 -538.4 -568.0 -493.6 -434.5 -342.2 -641.8 -1,549.7	480.6 507.5 515.3 523.8 534.7 577.5 608.4 635.1 658.0 654.0	330.8 346.8 355.7 363.0 379.5 402.2 422.1 453.6 474.8 517.0	149.8 160.7 159.7 160.8 155.2 175.3 186.3 181.5 183.3 137.0	5,628.7 5,769.9 6,198.4 6,760.0 7,354.7 7,905.3 8,451.4 8,950.7 9,986.1 11,875.9	3,409.8 3,319.6 3,540.4 3,913.4 4,295.5 4,592.2 4,829.0 5,035.1 5,803.1 7,544.7	9,821.0 10,225.3 10,543.9 10,980.2 11,676.0 12,428.6 13,206.5 13,861.4 14,334.4 13,960.7
2010 2011 2012 (estimates) ¹ 2013 (estimates) ¹	2,162.7 2,303.5 2,441.9 2,763.6	3,457.1 3,603.1 3,652.6 3,754.2	-1,294.4 -1,299.6 -1,210.7 -990.6	1,531.0 1,737.7 1,870.3 2,090.5	2,902.4 3,104.5 3,147.3 3,122.3	-1,371.4 -1,366.8 -1,277.0 -1,031.8	631.7 565.8 571.6 673.1	554.7 498.6 505.3 631.9	77.0 67.2 66.3 41.2	13,528.8 14,764.2 16,207.0 17,482.7	9,018.9 10,128.2 11,413.7 12,571.9	14,348.4 14,929.4 15,538.1 16,225.6

¹ Estimates from *Mid-Session Review*, Budget of the U.S. Government, Fiscal Year 2013, issued July 2012.

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 2013, for additional information.

Table B–79. Federal receipts, outlays, surplus or deficit, and debt, as percent of gross domestic product, fiscal years 1940-2013

[Percent; fiscal years]

		Outl	ays	Surplus	Federal debt (e	nd of period)
Fiscal year or period	Receipts	Total	National defense	or deficit (–)	Gross Federal	Held by public
1940	6.8 7.6 10.1 13.3 20.9 20.4 17.7 16.5 16.2 14.5 16.1 19.0 18.7 17.5 17.7 17.3 16.2 17.8 17.6 17.6 17.0 17.3 18.4 17.6 17.0 17.3 18.7 17.6 17.9 19.0 17.3 18.3 17.6 17.6 17.6 17.6 17.6 17.6 17.6 17.7 19.0 17.3 18.3 17.6 17.6 17.6 17.6 17.7 19.0 17.3 18.3 17.6 17.6 17.6 17.6 17.6 17.6 17.6 17.6		National defense 1.7 5.6 17.8 37.8 37.5 19.2 5.5 3.5 4.8 5.0 7.4 13.2 14.1 10.8 10.0 10.1 10.0 10.1 11.0 10.1 10.0 9.3 9.4 9.2 8.9 8.5 7.4 7.7 8.8 8.8 9.4 4.7 4.7 4.9 4.7 4.7 4.9 5.2 5.7 6.1 5.9 6.1 5.9 6.1 5.9 6.1 5.9 6.1 5.9 6.1 5.9	or deficit	Gross Federal 52.4 50.4 50.9 79.1 97.6 117.5 121.7 110.3 98.2 93.1 94.1 79.7 74.3 71.4 71.8 69.3 60.9 60.8 58.6 56.0 55.2 53.4 51.8 49.3 46.9 42.5 33.6 37.6 37.6 37.8 37.1 35.6 33.6 33.7 33.6 33.7 33.8 33.9 33.9 33.9 33.9 33.9 33.9 33.9	Held by public 44.2 42.3 47.0 70.9 88.3 106.2 108.7 96.2 84.3 79.0 80.2 86.9 61.6 559.5 557.2 52.0 48.6 459.5 43.7 42.4 40.0 37.9 32.9 33.3 32.9 28.0 28.1 27.4 26.0 27.8 27.4 26.0 27.8 27.4 26.0 27.8 27.4 26.0 27.8 27.4 26.0 27.8 27.4 26.0 27.8 27.4 26.0 27.8 27.4 26.0 27.8 27.4 26.0 27.8 27.4 26.0 27.8 27.4 26.0 27.8 27.4 26.0 27.8 27.4 26.0 27.8 27.4 26.0 27.8 27.4 26.0 26.1
1988 1990 1991 1991 1992 1993 1994 1995 1996 1997 1998 2000 2001 2002 2003 2004 2005 2007 2008 2009 2010 2011 2012 (estimates)	18.4 18.0 17.8 17.5 17.5 18.0 18.4 18.8 19.2 19.9 19.8 20.6 19.5 17.6 16.2 18.1 17.3 18.2 18.5 17.6 15.1 15.1	21.2 21.9 22.3 22.1 21.4 21.0 20.6 20.2 19.5 19.1 18.5 18.2 19.1 19.7 20.8 19.9 20.1 19.7 20.8 25.2 24.1 24.1 24.1 23.5 23.5	5.6 5.2 4.8 4.4 4.0 3.7 3.4 3.3 3.1 3.0 3.0 3.0 4.0 4.0 4.3 4.7 4.8 4.7 4.8 4.7 4.8	-2.8 -3.9 -4.5 -4.7 -3.9 -2.9 -1.4 -3.8 8.1.4 2.4 1.3 -1.5 -3.4 -3.5 -2.6 -1.9 -1.2 -3.2 -10.1 -9.0 -8.7 -7.8 -6.1	53.1 55.9 60.7 64.1 66.1 66.6 67.0 67.1 65.4 63.2 60.9 57.3 56.4 58.8 61.6 63.0 63.6 64.0 64.6 69.7 85.1	40.6 42.1 44.3 48.1 49.3 49.1 49.4 45.9 43.0 33.6 35.6 36.6 36.9 36.6 36.9 67.8 77.5

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 1946-2013

[Billions of dollars; fiscal years]

	Rece	ipts (on-l	oudget ar	nd off-buo	oudget) Outlays (on-budget and off-budget)							Surplus				
Fiscal year or period		Indi- vidual	Corpo- ration	Social insur- ance				tional fense	Inter-		Medi-	In- come	Social	Net		or deficit (–) (on-
	Total	income taxes	income taxes	and retire- ment receipts	Other	Total	Total	Depart- ment of Defense, military	tional affairs	Health	care	secu- rity	secu- rity	inter- est	Other	budget and off- budget)
1946 1947 1948 1949	39.3 38.5 41.6 39.4	16.1 17.9 19.3 15.6	11.9 8.6 9.7 11.2	3.1 3.4 3.8 3.8	8.2 8.5 8.8 8.9	55.2 34.5 29.8 38.8	42.7 12.8 9.1 13.2		1.9 5.8 4.6 6.1	0.2 .2 .2		2.4 2.8 2.5 3.2	0.4 .5 .6 .7	4.1 4.2 4.3 4.5	3.6 8.2 8.5 11.1	-15.9 4.0 11.8 .6
1950 1951 1952 1953 1954 1955 1956 1957 1957 1958	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 .7		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 1968	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 5.3 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 Transition quarter 1977 1978	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 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 1981 1982 1983 1984 1985 1986 1987 1988	517.1 599.3 617.8 600.6 666.4 734.0 769.2 854.3 909.2 991.1	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 94.5 103.3	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 73.0 73.2 74.5 79.2 82.7	590.9 678.2 745.7 808.4 851.8 946.3 990.4 1,004.0 1,064.4 1,143.7	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 14.1 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	131.3 133.0 125.0 121.8 117.9 131.0 141.4 125.2 138.7 158.3	-73.8 -79.0 -128.0 -207.8 -185.4 -212.3 -221.2 -149.7 -155.2 -152.6
1990 1991 1992 1993 1994 1995 1996 1997 1998	1,032.0 1,055.0 1,091.2 1,154.3 1,258.6 1,351.8 1,453.1 1,579.2 1,721.7 1,827.5	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	91.5 93.1 101.3 98.8 113.7 120.1 115.4 120.1 132.6 151.5	1,253.0 1,324.2 1,381.5 1,409.4 1,461.8 1,515.7 1,560.5 1,601.1 1,652.5 1,701.8	299.3 273.3 298.3 291.1 281.6 272.1 265.7 270.5 268.2 274.8	289.7 262.3 286.8 278.5 268.6 259.4 253.1 258.3 255.8 261.2	13.8 15.8 16.1 17.2 17.1 16.4 13.5 15.2 13.1 15.2	57.7 71.2 89.5 99.4 107.1 115.4 119.4 123.8 131.4 141.0	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	202.5 223.5 172.1 157.9 171.5 160.2 167.2 157.3 188.9 218.1	-221.0 -269.2 -290.3 -255.1 -203.2 -164.0 -107.4 -21.9 69.3 125.6
2000 2001 2001 2002 2003 2004 2005 2006 2007 2007 2008	2,025.2 1,991.1 1,853.1 1,782.3 1,880.1 2,153.6 2,406.9 2,568.0 2,524.0 2,105.0	1,004.5 994.3 858.3 793.7 809.0 927.2 1,043.9 1,163.5 1,145.7 915.3	207.3 151.1 148.0 131.8 189.4 278.3 353.9 370.2 304.3 138.2	652.9 694.0 700.8 713.0 733.4 794.1 837.8 869.6 900.2 890.9	160.6 151.7 146.0 143.9 148.4 154.0 171.2 164.7 173.7 160.5	2,159.9 2,292.8 2,472.0 2,655.1 2,728.7 2,982.5 3,517.7	294.4 304.7 348.5 404.7 455.8 495.3 521.8 551.3 616.1 661.0	281.0 290.2 331.8 387.1 436.4 474.1 499.3 528.5 594.6 636.7	17.2 16.5 22.3 21.2 26.9 34.6 29.5 28.5 28.9 37.5	154.5 172.2 196.5 219.5 240.1 250.5 252.7 266.4 280.6 334.3	197.1 217.4 230.9 249.4 269.4 298.6 329.9 375.4 390.8 430.1	253.7 269.8 312.7 334.6 333.1 345.8 352.5 366.0 431.3 533.2	409.4 433.0 456.0 474.7 495.5 523.3 548.5 586.2 617.0 683.0	222.9 206.2 170.9 153.1 160.2 184.0 226.6 237.1 252.8 186.9	239.7 243.1 273.1 302.6 311.8 339.8 393.5 317.9 365.2 651.6	236.2 128.2 -157.8 -377.6 -412.7 -318.3 -248.2 -160.7 -458.6 -1,412.7
2010 2011 2012 (estimates) ¹ 2013 (estimates) ²	2,162.7 2,303.5 2,449.1 2,763.6	898.5 1,091.5 1,132.2 1,291.8	191.4 181.1 242.3 294.1	864.8 818.8 845.3 947.1	207.9 212.1 229.3 230.6	3,457.1 3,603.1 3,538.4	693.5 705.6 680.4 675.5	666.7 678.1 650.9 647.3	45.2 45.7 47.2 57.9	369.1 372.5 346.7 380.3	451.6 485.7 471.8 515.2	622.2 597.4 542.2 544.1	706.7 730.8 773.3 818.9	196.2 230.0 222.5 228.6	372.5 435.5 454.3 533.7	-1,294.4 -1,299.6 -1,089.4 -990.6

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 2012. ² Estimates from *Mid-Session Review*, Budget of the U.S. Government, Fiscal Year 2013, issued July 2012.

			Actual			Estimates 1
Description	2007	2008	2009	2010	2011	2012
RECEIPTS, OUTLAYS, AND SURPLUS OR DEFICIT						
Total: Receipts Outlays Surplus or deficit (–) On-budget:	2,567,985 2,728,686 -160,701	2,523,991 2,982,544 -458,553	2,104,989 3,517,677 -1,412,688	2,162,706 3,457,079 -1,294,373	2,303,466 3,603,059 -1,299,593	2,449,093 3,538,446 -1,089,353
Receipts	1,932,896 2,275,049 -342,153	1,865,945 2,507,793 -641,848	1,450,980 3,000,661 -1,549,681	1,531,019 2,902,397 –1,371,378	1,737,678 3,104,453 –1,366,775	1,879,592 3,030,856 -1,151,264
Receipts Outlays Surplus or deficit (–)	635,089 453,637 181,452	658,046 474,751 183,295	654,009 517,016 136,993	631,687 554,682 77,005	565,788 498,606 67,182	569,501 507,590 61,911
OUTSTANDING DEBT, END OF PERIOD						
Gross Federal debt	8,950,744 3,915,615 5,035,129 779,632 4,255,497	9,986,082 4,183,032 5,803,050 491,127 5,311,923	11,875,851 4,331,144 7,544,707 769,160 6,775,547	13,528,807 4,509,926 9,018,882 811,669 8,207,213	14,764,222 4,636,016 10,128,206 1,664,660 8,463,546	16,048,111 4,768,258 11,279,854
RECEIPTS BY SOURCE						
Total: On-budget and off-budget Individual income taxes Corporation income taxes Social insurance and retirement receipts On-budget Off-budget	2,567,985 1,163,472 370,243 869,607 234,518 635,089	2,523,991 1,145,747 304,346 900,155 242,109 658,046	2,104,989 915,308 138,229 890,917 236,908 654,009	2,162,706 898,549 191,437 864,814 233,127 631,687	2,303,466 1,091,473 181,085 818,792 253,004 565,788	2,449,093 1,132,206 242,289 845,313
Excise taxes Estate and gift taxes Customs duties and fees Miscellaneous receipts Deposits of earnings by Federal Reserve System All other	65,069 26,044 26,010 47,540 32,043 15,497	67,334 28,844 27,568 49,997 33,598 16,399	62,483 23,482 22,453 52,117 34,318 17,799	66,909 18,885 25,298 96,814 75,845 20,969	72,381 7,399 29,519 102,817 82,546 20,271	79,061 13,973 30,307 105,943
OUTLAYS BY FUNCTION						
Total: On-budget and off-budget National defense International affairs General science, space, and technology Energy Natural resources and environment Agriculture Commerce and housing credit On-budget Off-budget	2,728,686 551,271 28,482 25,525 -860 31,716 17,662 487 -4,606 5,093	2,982,544 616,072 28,857 26,773 628 31,817 18,387 27,870 25,453 2,417	3,517,677 661,023 37,529 28,417 4,749 35,566 22,237 291,535 291,231 304	3,457,079 693,498 45,195 30,100 11,611 43,661 21,356 –82,316 –87,016 4,700	3,603,059 705,557 45,685 29,466 12,174 45,470 20,662 –12,573 –13,381 808	3,538,446 680,413 47,236 29,226 14,760 41,843 19,711 40,333
Transportation Community and regional development Education, training, employment, and social services Health Medicare Income security Social security On-budget Off-budget Veterans benefits and services	72,905 29,567 91,656 266,382 375,407 365,975 586,153 19,307 566,846 72,818	77,616 23,952 91,287 280,599 390,758 431,313 617,027 17,830 599,197	84,289 27,676 79,749 334,335 430,093 533,224 682,963 34,071 646,892 95,429	91,972 23,894 128,598 369,068 451,636 622,210 706,737 23,317 683,420 108,384	92,966 23,883 101,233 372,504 485,653 597,352 730,811 101,933 628,878 127,189	91,206 26,113 89,063 346,707 471,789 542,227 773,288
Administration of justice General government Net interest On-budget Off-budget Allowances	41,244 17,425 237,109 343,112 –106,003	48,097 20,323 252,757 366,475 –113,718	52,581 22,017 186,902 304,856 –117,954	54,383 23,014 196,194 314,696 –118,502	56,056 27,476 229,962 345,943 –115,981	57,557 23,436 222,470
Undistributed offsetting receipts On-budget Off-budget	-82,238 -69,939 -12,299	-86,242 -73,097 -13,145	-92,639 -78,413 -14,226	-82,116 -67,180 -14,936	-88,467 -73,368 -15,099	-103,535

¹ Estimates from *Final Monthly Treasury Statement*, issued October 2012.

Note: See Note, Table B-78.

Sources: Department of the Treasury and Office of Management and Budget.

 $\begin{array}{c} \text{Table B-82. Federal and State and local government current receipts and expenditures,} \\ \text{national income and product accounts (NIPA), } 1964-2012 \end{array}$

	To	otal governmen	nt	Fei	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
1964	166.6 180.3 202.8 217.7 252.1 283.5	159.3 170.6 192.8 220.0 247.0 267.0	7.3 9.8 10.0 –2.3 5.1 16.5	111.8 121.0 138.0 146.9 171.3 192.7	110.9 117.7 135.7 156.2 173.7 184.1	0.9 3.2 2.3 -9.3 -2.4 8.6	61.3 66.5 74.9 82.5 93.5 105.5	54.9 60.0 67.2 75.5 86.0 97.5	6.4 6.5 7.8 7.0 7.5 8.0	6.5 7.2 10.1 11.7 12.7 14.6
1970 1971 1972 1973 1974 1974 1975 1976 1976 1977	286.9 303.6 347.0 390.4 431.8 442.1 505.9 567.3 646.1 728.9	295.2 325.8 356.3 386.5 436.9 510.2 552.2 600.3 656.3 729.9	-8.4 -22.2 -9.3 3.9 -5.2 -68.2 -46.3 -10.2 -1.0	186.1 191.9 220.3 250.8 280.0 277.6 323.0 364.0 424.0 486.9	201.6 220.6 245.2 262.6 294.5 348.3 376.7 410.1 452.9 500.9	-15.5 -28.7 -24.9 -11.8 -14.5 -70.6 -53.7 -46.1 -28.9 -14.0	120.1 134.9 158.4 174.3 188.1 209.6 233.7 259.9 287.6 308.4	113.0 128.5 142.8 158.6 178.7 207.1 226.3 246.8 268.9 295.4	7.1 6.5 15.6 15.7 9.3 2.5 7.4 13.1 18.7	19.3 23.2 31.7 34.8 36.3 45.1 50.7 56.6 65.5 66.3
1980 1981 1982 1983 1984 1985 1986 1987 1988 1989	798.7 917.7 939.3 1,000.3 1,113.5 1,214.6 1,290.1 1,403.2 1,502.4 1,627.2	846.5 966.9 1,076.8 1,171.7 1,261.0 1,370.9 1,464.0 1,540.5 1,623.6 1,741.0	-47.8 -49.2 -137.5 -171.4 -147.5 -156.3 -173.9 -137.4 -121.2 -113.8	532.8 619.9 617.4 643.3 710.0 774.4 816.0 896.5 958.5 1,038.0	589.5 676.7 752.6 819.5 881.5 953.0 1,010.7 1,045.9 1,172.0	-56.6 -56.8 -135.3 -176.2 -171.5 -178.6 -149.3 -138.4 -133.9	338.2 370.2 391.4 428.6 480.2 521.1 561.6 590.6 635.5 687.5	329.4 362.7 393.6 423.7 456.2 498.7 540.9 578.6 618.3 667.4	8.8 7.6 -2.2 4.9 23.9 22.4 20.7 12.0 17.2 20.1	72.3 72.5 69.5 71.6 76.7 80.9 87.6 83.9 91.6 98.3
1990	1,709.3 1,759.7 1,845.1 1,948.2 2,091.9 2,215.5 2,380.4 2,557.2 2,729.8 2,902.5	1,879.5 1,984.0 2,149.0 2,229.4 2,304.0 2,412.5 2,505.7 2,581.1 2,649.3 2,761.9	-170.3 -224.2 -303.9 -281.2 -212.2 -197.0 -125.3 -23.8 80.5 140.6	1,082.8 1,101.9 1,148.0 1,224.1 1,322.1 1,407.8 1,526.4 1,656.2 1,777.9	1,259.2 1,320.3 1,450.5 1,504.3 1,542.5 1,614.0 1,674.7 1,716.3 1,744.3	-176.4 -218.4 -302.5 -280.2 -220.4 -206.2 -148.2 -60.1 33.6 98.8	738.0 789.4 846.2 888.2 944.8 991.9 1,045.1 1,099.5 1,164.5	731.8 795.2 847.6 889.1 936.6 982.7 1,022.1 1,063.2 1,117.6 1,198.6	6.2 -5.8 -1.4 9 8.2 9.2 23.0 36.3 46.9 41.8	111.4 131.6 149.1 164.0 175.1 184.2 191.1 198.4 212.6 232.9
2000 2001 2002 2003 2004 2005 2006 2007 2008 2009	3,132.4 3,118.2 2,967.9 3,043.4 3,265.7 3,659.3 4,197.0 4,051.6 3,705.3	2,906.0 3,093.6 3,274.7 3,458.6 3,653.5 3,916.4 4,147.9 4,430.0 4,737.3 5,047.9	226.5 24.6 -306.9 -415.2 -387.8 -257.1 -152.7 -233.0 -685.7 -1,342.6	2,057.1 2,020.3 1,859.3 1,885.1 2,013.9 2,290.1 2,524.5 2,654.7 2,502.2 2,226.5	1,871.9 1,979.8 2,112.1 2,261.5 2,393.4 2,573.1 2,728.3 2,900.0 3,115.7 3,455.8	185.2 40.5 -252.8 -376.4 -379.5 -283.0 -203.8 -245.2 -613.5 -1,229.3	1,322.6 1,374.0 1,412.7 1,496.3 1,601.0 1,730.4 1,829.7 1,923.1 1,944.8 1,961.4	1,281.3 1,389.9 1,466.8 1,535.1 1,609.3 1,704.5 1,778.6 1,910.8 2,017.0 2,074.6	41.3 -15.9 -54.1 -38.8 -8.4 25.9 51.0 12.2 -72.2 -113.2	247.3 276.1 304.2 338.0 349.2 361.2 359.0 380.8 395.5 482.6
2010 2011 2012 P	3,906.8 4,086.1	5,304.4 5,425.5 5,488.6	-1,397.7 -1,339.4	2,395.4 2,519.6	3,703.4 3,757.0 3,757.8	-1,308.0 -1,237.4	2,042.4 2,064.4	2,132.1 2,166.3 2,198.8	-89.7 -102.0	531.1 497.8 468.0
2009: I	3,689.9 3,661.8 3,694.9 3,774.7 3.824.3	4,817.4 5,085.2 5,139.0 5,150.0 5,250.6	-1,127.4 -1,423.4 -1,444.1 -1,375.3 -1,426.3	2,218.7 2,207.4 2,206.5 2,273.4 2,326.6	3,230.6 3,520.9 3,525.1 3,546.8 3,641.8	-1,011.8 -1,313.5 -1,318.6 -1,273.5 -1,315.2	1,909.9 1,955.3 1,975.9 2,004.4 2,011.8	2,025.5 2,065.2 2,101.5 2,106.3 2,122.9	-115.6 -109.9 -125.5 -101.8 -111.1	438.7 500.8 487.6 503.1 514.2
 	3,824.3 3,856.9 3,946.0 3,999.8	5,250.6 5,284.8 5,321.4 5,360.9	-1,426.3 -1,427.9 -1,375.4 -1,361.0	2,326.6 2,365.8 2,427.2 2,461.9	3,685.3 3,730.2 3,756.3	-1,315.2 -1,319.5 -1,303.1 -1,294.4	2,011.8 2,010.5 2,061.9 2,085.6	2,122.9 2,118.9 2,134.3 2,152.3	-111.1 -108.4 -72.4 -66.7	514.2 519.4 543.1 547.7
2011: 	4,065.7 4,093.2 4,076.4 4,109.2	5,391.7 5,475.6 5,426.4 5,408.3	-1,326.0 -1,382.3 -1,350.0 -1,299.1	2,509.8 2,522.9 2,511.3 2,534.3	3,737.1 3,830.6 3,743.3 3,716.8	-1,227.3 -1,307.7 -1,232.0 -1,182.6	2,073.9 2,098.0 2,045.2 2,040.5	2,172.6 2,172.6 2,163.2 2,157.0	-98.7 -74.6 -118.0 -116.5	517.9 527.6 480.1 465.6
2012: I II III	4,260.1 4,259.3 4,272.0	5,446.5 5,498.3 5,499.2 5,510.4	-1,186.4 -1,239.0 -1,227.2	2,664.9 2,659.5 2,673.4	3,723.6 3,774.8 3,760.6 3,772.1	-1,058.7 -1,115.4 -1,087.2	2,050.4 2,066.7 2,069.2	2,178.1 2,190.3 2,209.2 2,217.6	-127.6 -123.7 -140.0	455.3 466.9 470.6 479.4

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, 1964–2012

				Cui	rent 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	Interest pay- ments	Sub- si- dies	Net govern- ment saving
1964 1965 1966 1967 1968	166.6 180.3 202.8 217.7 252.1 283.5	137.5 149.5 163.5 173.8 203.1 228.4	52.1 57.7 66.4 73.0 87.0 104.5	57.3 60.7 63.2 67.9 76.4 83.9	28.0 30.9 33.7 32.7 39.4 39.7	22.5 23.5 31.4 35.0 38.8 44.3	3.7 4.1 4.7 5.5 6.4 7.0	1.6 1.9 2.2 2.5 2.6 2.7	1.3 1.3 1.0 .9 1.2 1.0	159.3 170.6 192.8 220.0 247.0 267.0	108.6 115.9 131.8 149.5 165.7 178.2	35.1 38.0 42.0 50.3 58.4 64.1	12.9 13.7 15.1 16.4 18.8 20.2	2.7 3.0 3.9 3.8 4.2 4.5	7.3 9.8 10.0 –2.3 5.1 16.5
1970 1971 1972 1973 1974 1976 1977 1978	286.9 303.6 347.0 390.4 431.8 442.1 505.9 567.3 646.1 728.9	229.2 240.3 273.8 299.3 328.1 334.3 383.6 431.0 484.8 537.9	103.1 101.7 123.6 132.4 151.0 147.6 172.3 197.5 229.4 268.7	91.4 100.5 107.9 117.2 124.9 135.3 146.4 159.7 170.9 180.1	34.4 37.7 41.9 49.3 51.8 50.9 64.2 73.0 83.5 88.0	46.6 51.5 59.6 76.0 85.8 89.9 102.0 113.9 132.1 153.7	8.2 9.0 9.5 11.6 14.4 16.1 16.3 18.4 23.2 30.8	2.9 3.1 3.6 3.9 4.5 5.1 5.8 6.8 8.2 9.4	.0 2 .5 4 9 -3.2 -1.8 -2.7 -2.2 -2.9	295.2 325.8 356.3 386.5 436.9 510.2 552.2 600.3 656.3 729.9	190.1 204.7 220.8 234.8 261.7 294.6 316.6 346.6 376.5 412.3	77.3 92.2 103.0 115.2 135.9 171.3 184.3 195.9 210.9 236.0	23.1 24.5 26.3 31.3 35.6 40.0 46.3 50.8 60.2 72.9	4.8 4.7 6.6 5.2 3.3 4.5 5.1 7.1 8.9 8.5	-8.4 -22.2 -9.3 3.9 -5.2 -68.2 -46.3 -33.0 -10.2 -1.0
1980	798.7 917.7 939.3 1,000.3 1,113.5 1,214.6 1,290.1 1,403.2 1,502.4 1,627.2	585.6 663.5 659.5 694.1 762.5 823.9 868.8 965.7 1,018.9 1,109.2	298.9 345.2 354.1 352.3 377.4 417.3 437.2 489.1 504.9 566.1	200.3 235.6 240.9 263.3 289.8 308.1 323.4 347.5 374.5 398.9	84.8 81.1 63.1 77.2 94.0 96.5 106.5 127.1 137.2 141.5	167.2 196.9 210.1 227.2 258.8 282.8 304.9 324.6 363.2 386.9	39.9 50.2 58.9 65.3 74.3 84.0 89.7 85.6 89.9 93.7	11.1 12.7 15.3 16.9 19.7 23.4 25.9 27.0 27.9 32.5	-5.1 -5.6 -4.5 -3.2 -1.9 .6 .9 .2 2.6 4.9	846.5 966.9 1,076.8 1,171.7 1,261.0 1,370.9 1,464.0 1,540.5 1,623.6 1,741.0	465.9 520.6 568.1 610.5 657.6 720.1 776.1 815.1 852.8 902.9	281.7 318.1 354.7 382.5 395.3 420.4 446.6 464.4 493.6 538.1	89.1 116.7 138.9 156.9 187.3 208.8 216.3 230.8 247.7 272.5	9.8 11.5 15.0 21.3 21.1 21.4 24.9 30.3 29.5 27.4	-47.8 -49.2 -137.5 -171.4 -147.5 -156.3 -173.9 -137.4 -121.2 -113.8
1990 1991 1992 1993 1994 1995 1996 1997 1998	1,709.3 1,759.7 1,845.1 1,948.2 2,091.9 2,215.5 2,380.4 2,557.2 2,729.8 2,902.5	1,161.3 1,179.9 1,239.7 1,317.8 1,425.6 1,516.7 1,641.5 1,780.0 1,910.8 2,035.8	592.7 586.6 610.5 646.5 690.5 743.9 832.0 926.2 1,026.4 1,107.5	425.0 457.1 483.4 503.1 545.2 557.9 580.8 611.6 639.5 673.6	140.6 133.6 143.1 165.4 186.7 211.0 223.6 237.1 239.2 248.8	412.1 432.2 457.1 479.6 510.7 535.5 557.9 590.3 627.8 664.6	98.0 97.0 89.6 86.8 86.0 91.8 99.9 103.6 102.7	36.3 44.9 50.5 55.3 60.0 58.4 66.8 69.3 75.3 81.7	1.6 5.7 8.2 8.7 9.6 13.1 14.4 14.1 13.3 14.1	1,879.5 1,984.0 2,149.0 2,229.4 2,304.0 2,412.5 2,505.7 2,581.1 2,649.3 2,761.9	966.0 1,015.8 1,050.4 1,075.4 1,108.9 1,141.4 1,176.7 1,222.1 1,263.2 1,343.9	592.4 628.9 756.3 804.6 839.9 882.4 929.2 954.6 978.1 1,014.9	294.2 311.7 312.3 312.7 322.7 353.9 364.6 370.6 371.6 357.9	27.0 27.5 30.1 36.7 32.5 34.8 35.2 33.8 36.4 45.2	-170.3 -224.2 -303.9 -281.2 -212.2 -197.0 -125.3 -23.8 80.5 140.6
2000	3,132.4 3,118.2 2,967.9 3,043.4 3,265.7 3,659.3 3,995.2 4,197.0 4,051.6 3,705.3	2,202.8 2,163.7 2,002.1 2,047.9 2,213.2 2,546.8 2,807.4 2,951.2 2,774.1 2,428.5	1,232.3 1,234.8 1,050.4 1,000.3 1,047.8 1,208.6 1,352.4 1,488.7 1,435.7	708.6 727.7 762.8 806.8 863.4 930.2 986.8 1,027.2 1,038.6 1,023.2	254.7 193.5 181.3 231.8 292.0 395.9 454.2 420.6 281.0 245.9	709.4 736.9 755.2 782.8 831.7 877.4 926.4 964.2 992.1 968.1	118.8 114.6 99.9 96.8 100.3 111.9 129.6 144.2 137.5 143.1	92.3 98.9 104.3 108.9 119.3 126.7 136.0 149.2 163.9 181.2	9.1 4.0 6.3 7.0 1.2 -3.5 -4.2 -11.8 -16.0 -15.6	2,906.0 3,093.6 3,274.7 3,458.6 3,653.5 3,916.4 4,147.9 4,430.0 4,737.3 5,047.9	1,426.6 1,524.4 1,639.9 1,756.8 1,860.4 1,977.9 2,093.3 2,217.8 2,381.0 2,460.3	1,071.5 1,169.0 1,280.9 1,354.8 1,440.1 1,534.9 1,631.0 1,743.4 1,903.1 2,170.0	362.0 341.5 312.6 298.0 306.6 342.7 372.2 414.3 400.2 357.9	45.8 58.7 41.4 49.1 46.4 60.9 51.4 54.6 52.9 59.7	226.5 24.6 -306.9 -415.2 -387.8 -257.1 -152.7 -233.0 -685.7 -1,342.6
2010 2011 2012 <i>P</i> 2009: I	3,906.8 4,086.1 3,689.9 3,661.8	2,614.4 2,863.5 2,417.1 2,370.8 2,429.1	1,194.8 1,398.0 1,474.7 1,199.7 1,121.3 1,125.6	1,055.0 1,097.9 1,130.4 1,010.1 1,016.5	349.5 351.8 191.4 217.5	988.2 923.8 952.9 970.3 970.8	141.8 141.7 138.7 137.9 145.2	181.9 183.7 176.1 181.1 190.5 172.2	-19.5 -26.5 -34.0 -16.6 -15.4	5,304.4 5,425.5 5,488.6 4,817.4 5,085.2	2,552.0 2,579.5 2,590.4 2,390.7 2,445.3 2,486.5	2,308.0 2,350.1 2,406.0 2,057.0 2,206.7 2,208.6	387.4 434.2 431.3 313.3 376.4	57.0 61.6 60.9 56.4 56.8	-1,397.7 -1,339.4 -1,127.4 -1,423.4
III IV 2010: I II IV	3,694.9 3,774.7 3,824.3 3,856.9 3,946.0 3,999.8	2,429.1 2,496.8 2,541.8 2,565.3 2,646.8 2,703.9	1,125.6 1,131.7 1,156.9 1,173.0 1,211.8 1,237.5	1,027.7 1,038.4 1,043.3 1,050.5 1,058.6 1,067.5	262.5 312.3 327.7 326.8 361.9 381.8	965.8 965.4 979.6 987.9 992.1 993.1	142.2 147.1 140.7 141.8 142.8 141.8	1/2.2 181.1 179.1 180.5 184.5 183.5	-14.5 -15.8 -16.8 -18.5 -20.1 -22.5	5,139.0 5,150.0 5,250.6 5,284.8 5,321.4 5,360.9	2,486.5 2,518.6 2,539.3 2,551.2 2,556.9 2,560.5	2,208.6 2,207.8 2,286.6 2,285.0 2,320.7 2,339.9	375.4 366.6 368.5 392.2 387.1 401.9	68.5 57.0 56.2 56.4 56.7 58.6	-1,444.1 -1,375.3 -1,426.3 -1,427.9 -1,375.4 -1,361.0
2011: I II IV 2012: I	4,065.7 4,093.2 4,076.4 4,109.2	2,844.2 2,868.6 2,853.1 2,888.1	1,372.5 1,396.6 1,403.8 1,419.1 1,450.8	1,084.5 1,099.0 1,098.2 1,109.8 1,128.5	373.1 358.1 334.2 341.8 425.9	918.9 923.6 925.3 927.3	142.4 142.0 142.1 140.5 140.3	183.4 183.6 183.4 184.4 184.2	-23.1 -24.4 -27.5 -31.1 -32.0	5,391.7 5,475.6 5,426.4 5,408.3 5,446.5	2,565.5 2,591.3 2,591.0 2,570.4	2,348.9 2,357.1 2,343.6 2,350.9	417.7 465.3 429.5 424.4 418.6	59.6 61.9 62.4 62.7 60.8	-1,326.0 -1,382.3 -1,350.0 -1,299.1 -1,186.4
 V ^p	4,260.1 4,259.3 4,272.0	3,020.5 3,027.3 3,045.8	1,450.8 1,465.2 1,476.5 1,506.2	1,130.9 1,128.4 1,133.7	414.4 423.9	949.0 953.3 962.3	139.0 138.0 137.5	178.1 170.4 171.7	-32.0 -34.1 -35.5 -34.4	5,446.5 5,498.3 5,499.2 5,510.4	2,586.9 2,580.3 2,618.7 2,575.6	2,380.1 2,395.5 2,419.2 2,429.2	418.6 461.5 400.7 444.5	61.0 60.6 61.0	-1,186.4 -1,239.0 -1,227.2

 $^{^{\}rm 1}$ 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), 1964-2012

				Cur	rent 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
1964 1965 1966 1967 1968	111.8 121.0 138.0 146.9 171.3 192.7	87.7 95.6 104.7 109.8 129.7 146.0	46.0 51.1 58.6 64.4 76.4 91.7	15.4 15.4 14.4 15.2 16.9 17.8	26.1 28.9 31.4 30.0 36.1 36.1	21.8 22.7 30.6 34.1 37.9 43.3	1.8 1.9 2.1 2.5 2.9 2.7	0.7 1.1 1.2 1.1 1.1	-0.3 3 6 6 3 4	110.9 117.7 135.7 156.2 173.7 184.1	62.8 65.7 75.7 87.0 95.3 98.3	35.4 38.5 44.4 52.8 59.7 65.5	10.0 10.6 11.6 12.7 14.6 15.8	2.7 3.0 3.9 3.8 4.1 4.5	0.9 3.2 2.3 -9.3 -2.4 8.6
1970 1971 1972 1973 1974 1976 1977 1978	186.1 191.9 220.3 250.8 280.0 277.6 323.0 364.0 424.0 486.9	137.9 138.6 158.2 173.0 192.1 186.8 217.9 247.2 286.6 325.9	88.9 85.8 102.8 109.6 126.5 120.7 141.2 162.2 188.9 224.6	18.1 19.0 18.5 19.8 20.1 22.1 21.4 22.7 25.3 25.7	30.6 33.5 36.6 43.3 45.1 43.6 54.6 61.6 71.4 74.4	45.5 50.3 58.3 74.5 84.1 88.1 99.8 111.1 128.7 149.8	3.1 3.5 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 2.0 2.7 3.1	-1.5 -1.6 -1.1 -1.8 -1.8 -3.6 -2.2 -3.0 -2.5 -2.6	201.6 220.6 245.2 262.6 294.5 348.3 376.7 410.1 452.9 500.9	98.6 101.9 107.6 108.8 117.9 129.5 137.1 150.7 163.3 178.9	80.5 96.1 112.7 125.9 146.9 185.6 200.9 215.5 235.7 258.0	17.7 17.9 18.8 22.8 26.0 28.9 33.8 37.1 45.3 55.7	4.8 4.6 6.6 5.1 3.2 4.3 4.9 6.9 8.7 8.2	-15.5 -28.7 -24.9 -11.8 -14.5 -70.6 -53.7 -46.1 -28.9 -14.0
1980	532.8 619.9 617.4 643.3 710.0 774.4 816.0 896.5 958.5 1,038.0	355.5 407.7 386.3 393.2 425.2 460.2 479.2 543.6 566.2 621.2	250.0 290.6 295.0 286.2 301.4 336.0 350.0 392.5 402.8 451.5	33.7 49.9 41.0 44.4 47.3 46.1 43.7 45.9 49.8 49.7	70.3 65.7 49.0 61.3 75.2 76.3 83.8 103.2 111.1 117.2	163.6 193.0 206.0 223.1 254.1 277.9 298.9 317.4 354.8 378.0	13.7 18.3 22.2 23.8 26.6 29.1 31.3 27.5 29.4 28.0	3.9 4.1 5.7 6.1 7.4 9.7 8.5 11.0 10.5	-3.9 -3.2 -2.9 -3.0 -3.4 -2.6 -1.9 -3.0 -2.3 -1.7	589.5 676.7 752.6 819.5 881.5 953.0 1,010.7 1,045.9 1,096.9 1,172.0	207.4 238.3 263.3 286.4 309.9 338.3 358.0 373.7 381.7 398.5	302.9 333.5 363.0 387.2 400.8 424.0 449.9 457.6 486.8 527.1	69.7 93.9 111.8 124.6 150.3 169.4 178.2 184.6 199.3 219.3	9.4 11.1 14.6 20.9 20.7 21.0 24.6 30.0 29.2 27.1	-56.6 -56.8 -135.3 -176.2 -171.5 -178.6 -194.6 -149.3 -138.4 -133.9
1990	1,082.8 1,101.9 1,148.0 1,224.1 1,322.1 1,407.8 1,526.4 1,656.2 1,777.9 1,895.0	642.2 635.6 659.9 713.0 781.4 844.6 931.9 1,030.1 1,115.8 1,195.4	470.1 461.3 475.2 505.5 542.5 585.8 663.3 744.2 825.2 893.0	50.9 61.8 63.3 66.4 79.0 75.6 72.9 77.8 80.7 83.4	118.1 109.9 118.8 138.5 156.7 179.3 190.6 203.0 204.2 213.0	402.0 420.6 444.0 465.5 496.2 521.9 545.4 579.4 617.4 654.8	29.6 29.1 24.8 25.5 22.7 23.3 26.5 25.4 21.2 20.6	14.2 18.2 19.4 21.3 22.8 18.4 23.8 21.3 22.6 23.4	-5.3 -1.6 .0 -1.3 9 3 -1.2 1	1,259.2 1,320.3 1,450.5 1,504.3 1,542.5 1,614.0 1,674.7 1,716.3 1,744.3	419.0 438.3 444.1 441.2 440.7 440.1 446.5 457.5 454.6 473.3	576.2 604.0 725.4 773.4 808.3 849.0 896.0 925.4 954.9	237.5 250.9 251.3 253.4 261.3 290.4 297.3 300.0 298.8 282.7	26.6 27.1 29.7 36.3 32.2 34.5 34.9 33.4 35.9 44.8	-176.4 -218.4 -302.5 -280.2 -220.4 -206.2 -148.2 -60.1 33.6 98.8
2000 2001 2002 2003 2004 2005 2006 2007 2008 2009	2,057.1 2,020.3 1,859.3 1,885.1 2,013.9 2,290.1 2,524.5 2,654.7 2,502.2 2,226.5	1,309.6 1,249.4 1,073.5 1,070.2 1,153.8 1,383.7 1,558.3 1,637.6 1,447.7 1,163.6	995.6 991.8 828.6 774.2 799.2 931.9 1,049.9 1,165.6 1,101.3 857.0	87.3 85.3 86.8 89.3 94.3 98.8 99.4 94.5 94.0 91.4	219.4 164.7 150.5 197.8 250.3 341.0 395.0 362.8 233.7 200.4	698.6 723.3 739.3 762.8 807.6 852.6 904.6 945.3 973.1 949.1	24.5 24.5 20.3 22.8 23.2 23.7 26.1 29.8 30.7 48.1	25.7 27.0 26.1 25.6 29.0 33.6 38.3 44.8 54.4 70.2	-1.2 -4.0 .2 3.7 .3 -3.5 -2.9 -2.7 -3.7 -4.5	1,871.9 1,979.8 2,112.1 2,261.5 2,393.4 2,573.1 2,728.3 2,900.0 3,115.7 3,455.8	496.0 530.2 590.5 660.3 721.4 765.8 811.0 848.9 931.7 987.0	1,047.4 1,140.0 1,252.1 1,339.4 1,405.0 1,491.3 1,587.1 1,690.4 1,841.9 2,157.5	283.3 258.6 229.1 212.9 221.0 255.4 279.2 313.2 292.1 253.1	45.3 51.1 40.5 49.0 46.0 60.5 51.0 47.4 49.9 58.3	185.2 40.5 -252.8 -376.4 -379.5 -283.0 -203.8 -245.2 -613.5 -1,229.3
2010 2011 2012 ^p 2009: I	2,395.4 2,519.6 2,218.7 2,207.4	1,309.8 1,502.7 1,162.3 1,130.7	894.2 1,075.2 1,139.9 915.3 846.4	95.5 107.4 116.0 86.8 94.2	305.1 304.2 144.3 174.5	969.8 905.5 935.5 951.0 951.7	53.0 55.3 53.4 39.6 49.6	69.8 68.8 59.2 70.5 79.7	-7.0 -12.7 -17.7 -4.8 -4.4	3,703.4 3,757.0 3,757.8 3,230.6 3,520.9	1,055.8 1,061.5 1,059.4 954.6 979.5	2,310.8 2,309.4 2,319.4 2,015.7 2,214.0	281.4 325.0 318.5 205.9 271.6	55.4 61.1 60.4 54.4 55.6	-1,308.0 -1,237.4
III IV 2010: I II IV	2,206.5 2,273.4 2,326.6 2,365.8 2,427.2 2,461.9	1,154.0 1,207.2 1,252.3 1,282.0 1,333.9 1,371.3	832.0 834.2 860.3 887.4 908.2 921.0	91.8 92.7 92.4 95.3 97.2 97.1	216.9 265.9 285.7 284.3 314.1 336.1	947.0 946.8 961.1 969.5 973.8 974.8	48.3 54.7 49.8 52.2 55.0 54.8	61.1 69.6 68.6 68.3 71.7 70.4	-3.9 -5.0 -5.1 -6.2 -7.2 -9.4	3,525.1 3,546.8 3,641.8 3,685.3 3,730.2 3,756.3	998.7 1,015.1 1,034.2 1,057.0 1,068.3 1,063.6	2,187.6 2,212.5 2,289.1 2,287.8 2,325.8 2,340.6	271.5 263.4 264.0 286.2 281.0 294.5	67.3 55.7 54.6 54.3 55.1 57.7	-1,318.6 -1,273.5 -1,315.2 -1,319.5 -1,303.1 -1,294.4
2011: I II IV	2,509.8 2,522.9 2,511.3 2,534.3	1,494.0 1,504.1 1,494.2 1,518.5	1,052.6 1,068.5 1,082.0 1,097.7	102.4 108.3 108.1 110.9	324.8 312.4 287.1 292.5	900.5 905.1 907.0 909.2	55.7 55.6 55.5 54.5	69.7 69.0 68.1 68.3	-10.0 -11.0 -13.4 -16.4	3,737.1 3,830.6 3,743.3 3,716.8	1,054.2 1,071.0 1,069.0 1,052.0	2,314.8 2,341.8 2,292.3 2,288.6	309.3 356.4 320.1 314.0	58.8 61.4 62.0 62.2	-1,227.3 -1,307.7 -1,232.0 -1,182.6
2012: I II IV ^p	2,664.9 2,659.5 2,673.4	1,629.2 1,631.2 1,650.1	1,124.9 1,131.0 1,141.4 1,162.4	113.3 115.2 116.1 119.5	375.7 368.1 375.5	929.3 931.5 936.0 945.1	54.7 53.2 53.0 52.7	68.3 61.6 53.1 53.6	-16.7 -18.0 -18.8 -17.4	3,723.6 3,774.8 3,760.6 3,772.1	1,055.6 1,054.8 1,086.3 1,041.1	2,301.0 2,310.8 2,326.1 2,339.8	306.7 348.7 288.1 330.6	60.4 60.6 60.1 60.6	-1,058.7 -1,115.4 -1,087.2

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), 1964-2012

					rrent recei		<u>'</u>		ry dujusti			nt expend	itures		
Year or quarter	Total	Total	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 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
1964 1965 1966 1967 1968	61.3 66.5 74.9 82.5 93.5 105.5	49.8 53.9 58.8 64.0 73.4 82.5	6.1 6.6 7.8 8.6 10.6 12.8	41.8 45.3 48.8 52.8 59.5 66.0	1.8 2.0 2.2 2.6 3.3 3.6	0.7 .8 .8 .9 .9	1.9 2.2 2.6 3.0 3.5 4.3	7.3 8.0 11.1 13.1 14.2 16.2	1.6 1.7 1.6 1.5 1.5	54.9 60.0 67.2 75.5 86.0 97.5	45.8 50.2 56.1 62.6 70.4 79.8	6.2 6.7 7.6 9.2 11.4 13.2	2.9 3.1 3.4 3.7 4.2 4.4	0.0 .0 .0 .0 .0	6.4 6.5 7.8 7.0 7.5 8.0
1970 1971 1972 1973 1974 1976 1976 1977 1978	120.1 134.9 158.4 174.3 188.1 209.6 233.7 259.9 287.6 308.4	91.3 101.7 115.6 126.3 136.0 147.4 165.7 183.7 198.2 212.0	14.2 15.9 20.9 22.8 24.5 26.9 31.1 35.4 40.5 44.0	73.3 81.5 89.4 97.4 104.8 113.2 125.0 136.9 145.6 154.4	3.7 4.3 5.3 6.0 6.7 7.3 9.6 11.4 12.1 13.6	1.1 1.2 1.3 1.5 1.7 1.8 2.2 2.8 3.4 3.9	5.2 5.5 5.9 7.8 10.2 11.2 10.4 11.7 14.7 20.1	21.1 25.2 34.0 37.3 39.3 48.7 55.0 61.4 71.1 72.7	1.5 1.4 1.6 1.5 .9 .4 .4 .3 .3	113.0 128.5 142.8 158.6 178.7 207.1 226.3 246.8 268.9 295.4	91.5 102.7 113.2 126.0 143.7 165.1 179.5 195.9 213.2 233.3	16.1 19.3 22.0 24.1 25.3 30.8 34.1 37.0 40.8 44.3	5.3 6.5 7.5 8.5 9.6 11.1 12.5 13.7 14.9 17.2	.0 .0 .1 .1 .2 .2 .2 .2	7.1 6.5 15.6 15.7 9.3 2.5 7.4 13.1 18.7
1980 1981 1982 1983 1984 1985 1986 1987 1988	338.2 370.2 391.4 428.6 480.2 521.1 561.6 590.6 635.5 687.5	230.0 255.8 273.2 300.9 337.3 363.7 389.5 422.1 452.8 488.0	48.9 54.6 59.1 66.1 76.0 81.4 87.2 96.6 102.1 114.6	166.7 185.7 200.0 218.9 242.5 262.1 279.7 301.6 324.6 349.1	14.5 15.4 14.0 15.9 18.8 20.2 22.7 23.9 26.0 24.2	3.6 3.9 4.0 4.1 4.7 4.9 6.0 7.2 8.4 9.0	26.3 32.0 36.7 41.4 47.7 54.8 58.4 58.2 60.5 65.7	79.5 81.0 79.1 82.4 89.0 94.5 105.0 100.0 118.1	-1.2 -2.4 -1.6 2 1.5 3.2 2.8 3.1 4.8 6.7	329.4 362.7 393.6 423.7 456.2 498.7 540.9 578.6 618.3 667.4	258.4 282.3 304.9 324.1 347.7 381.8 418.1 441.4 471.0 504.5	51.2 57.1 61.2 66.9 71.2 77.3 84.3 90.7 98.5 109.3	19.4 22.8 27.1 32.3 37.0 39.4 38.2 46.2 48.4 53.2	.4 .5 .4 .4 .3 .3 .3 .4 .4	8.8 7.6 -2.2 4.9 23.9 22.4 20.7 12.0 17.2 20.1
1990 1991 1992 1993 1994 1996 1996 1997 1998	738.0 789.4 846.2 888.2 944.8 991.9 1,045.1 1,099.5 1,164.5 1,240.4	519.1 544.3 579.8 604.7 644.2 672.1 709.6 749.9 794.9 840.4	122.6 125.3 135.3 141.1 148.0 158.1 168.7 182.0 201.2 214.5	374.1 395.3 420.1 436.8 466.3 482.4 507.9 533.8 558.8 590.2	22.5 23.6 24.4 26.9 30.0 31.7 33.0 34.1 34.9 35.8	10.0 11.6 13.1 14.1 14.5 13.6 12.5 10.8 10.4 9.8	68.5 68.0 64.8 61.3 63.3 68.5 73.4 78.2 81.5 85.8	133.5 158.2 180.3 198.1 212.3 224.2 234.0 246.4 265.3 291.1	6.9 7.3 8.3 9.9 10.5 13.5 15.6 14.2 12.5 13.3	731.8 795.2 847.6 889.1 936.6 982.7 1,022.1 1,063.2 1,117.6 1,198.6	547.0 577.5 606.2 634.2 668.2 701.3 730.2 764.5 808.6 870.6	127.7 156.5 180.0 195.2 206.7 217.6 224.3 227.6 235.8 252.3	56.8 60.8 61.0 59.4 61.4 63.5 67.3 70.6 72.8 75.2	.4 .4 .3 .3 .3 .4 .4	6.2 -5.8 -1.4 9 8.2 9.2 23.0 36.3 46.9 41.8
2000	1,322.6 1,374.0 1,412.7 1,496.3 1,601.0 1,730.4 1,829.7 1,923.1 1,944.8 1,961.4	893.2 914.3 928.7 977.7 1,059.4 1,163.1 1,249.0 1,313.6 1,326.4 1,264.9	236.7 243.0 221.8 226.2 248.6 276.7 302.5 323.1 334.4 287.6	621.3 642.4 676.0 717.5 769.1 831.4 887.4 932.7 944.6 931.8	35.2 28.9 30.9 34.0 41.7 54.9 59.2 57.8 47.4 45.5	10.8 13.7 15.9 20.1 24.1 24.8 21.8 18.9 19.0	94.3 90.0 79.6 74.0 77.1 88.3 103.5 114.5 106.8 95.0	313.9 348.0 382.3 421.3 439.4 454.3 456.7 485.1 505.0 593.6	10.4 8.0 6.1 3.3 1.0 -1.3 -9.1 -12.3 -11.1	1,281.3 1,389.9 1,466.8 1,535.1 1,609.3 1,704.5 1,778.6 1,910.8 2,017.0 2,074.6	930.6 994.2 1,049.4 1,096.5 1,139.1 1,212.0 1,282.3 1,368.9 1,449.2 1,473.3	271.4 305.1 333.0 353.4 384.3 404.8 402.9 433.7 456.7 495.1	78.8 83.0 83.5 85.1 85.6 87.3 93.0 101.1 108.1 104.8	.5 7.7 .9 .1 .4 .4 .4 7.1 3.0 1.4	41.3 -15.9 -54.1 -38.8 -8.4 25.9 51.0 12.2 -72.2 -113.2
2010 2011 2012 P	2,042.4	1,304.6 1,360.8	300.6 322.8 334.7 284.4	959.5 990.4 1,014.3	44.5 47.6 	18.4 18.3 17.5	88.8 86.4 85.3	643.2 612.7 584.9	-12.5 -13.8 -16.3 -11.8	2,132.1 2,166.3 2,198.8	1,496.2 1,518.0 1,530.9 1,436.1	528.3 538.5 554.6 480.0	106.0 109.2 112.8 107.4	1.6 .5 .5	-89.7 -102.0
2009: I II IV	1,909.9 1,955.3 1,975.9 2,004.4	1,254.8 1,240.1 1,275.2 1,289.6	274.9 273.6 297.4	923.3 922.3 935.9 945.7	47.1 42.9 45.6 46.4	19.3 19.1 18.8 18.6	98.3 95.6 93.9 92.4	549.3 611.6 598.7 614.6	-11.0 -11.0 -10.6 -10.8	2,025.5 2,065.2 2,101.5 2,106.3	1,430.1 1,465.8 1,487.9 1,503.5	493.5 508.6 498.4	107.4 104.7 103.8 103.1	2.0 1.2 1.2 1.2	-115.6 -109.9 -125.5 -101.8
2010: I II IV	2,011.8 2,010.5 2,061.9 2,085.6	1,289.4 1,283.3 1,312.9 1,332.6	296.6 285.6 303.6 316.5	950.9 955.2 961.4 970.4	41.9 42.5 47.8 45.7	18.5 18.4 18.3 18.4	90.9 89.6 87.7 86.9	624.7 631.5 655.9 660.8	-11.7 -12.4 -12.9 -13.1	2,122.9 2,118.9 2,134.3 2,152.3	1,505.2 1,494.2 1,488.6 1,496.9	511.7 516.6 538.0 546.9	104.5 106.0 106.1 107.5	1.6 2.1 1.6 1.0	-111.1 -108.4 -72.4 -66.7
2011: I II III IV	2,073.9 2,098.0 2,045.2 2,040.5	1,350.2 1,364.5 1,358.9 1,369.6	319.9 328.1 321.7 321.4	982.1 990.7 990.1 998.8	48.3 45.7 47.1 49.3	18.4 18.4 18.3 18.1	86.7 86.4 86.6 86.0	631.7 642.2 595.4 581.6	-13.1 -13.5 -14.1 -14.7	2,172.6 2,172.6 2,163.2 2,157.0	1,511.4 1,520.3 1,522.0 1,518.4	552.0 542.9 531.4 527.9	108.3 109.0 109.3 110.3	.9 .4 .4 .4	-98.7 -74.6 -118.0 -116.5
2012: I II IV P	2,050.4 2,066.7 2,069.2	1,391.2 1,396.1 1,395.7	325.9 334.2 335.0 343.8	1,015.2 1,015.7 1,012.3 1,014.2	50.1 46.2 48.4	17.8 17.5 17.3 17.2	85.7 85.8 85.0 84.8	571.1 583.4 587.8 597.5	-15.4 -16.1 -16.7 -17.0	2,178.1 2,190.3 2,209.2 2,217.6	1,531.4 1,525.5 1,532.4 1,534.4	534.4 551.6 563.7 568.8	111.9 112.8 112.6 113.9	.5 .5 .5	-127.6 -123.7 -140.0

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, 1948-2010

[Millions of dollars]

			General	revenues by	source 2				General exp	oenditures l	by function ²	
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}
1948 1950 1952	17,250 20,911 25,181	6,126 7,349 8,652	4,442 5,154 6,357	543 788 998	592 593 846	1,861 2,486 2,566	3,686 4,541 5,762	17,684 22,787 26,098	5,379 7,177 8,318	3,036 3,803 4,650	2,099 2,940 2,386	7,170 8,867 10,744
1953 1954 1955 1956 1957 1958 1960 1960 1961 1962	27,307 29,012 31,073 34,670 38,164 41,219 45,306 50,505 54,037 58,252 62,891	9,375 9,967 10,735 11,749 12,864 14,047 14,983 16,405 18,002 19,054 20,089	6,927 7,276 7,643 8,691 9,467 9,829 10,437 11,849 12,463 13,494	1,065 1,127 1,237 1,538 1,754 1,759 1,994 2,463 2,613 3,037 3,269	817 778 744 890 984 1,018 1,001 1,180 1,266 1,308 1,505	2,870 2,966 3,131 3,335 3,843 4,865 6,377 6,974 7,131 7,871 8,722	6,253 6,898 7,583 8,467 9,252 9,701 10,514 11,634 12,562 13,488 14,850	27,910 30,701 33,724 36,715 40,375 44,851 48,887 51,876 56,201 60,206 64,815	9,390 10,557 11,907 13,224 14,134 15,919 17,283 18,719 20,574 22,216 23,776	4,987 5,527 6,452 6,953 7,816 8,567 9,592 9,428 9,844 10,357 11,135	2,914 3,060 3,168 3,139 3,485 3,818 4,136 4,404 4,720 5,084 5,481	10,619 11,557 12,197 13,399 14,940 16,547 17,876 19,325 21,063 22,549 24,423
1963–64 1964–65 1965–66 1966–67 1967–68 1968–69 1969–70	68,443 74,000 83,036 91,197 101,264 114,550 130,756	21,241 22,583 24,670 26,047 27,747 30,673 34,054	15,762 17,118 19,085 20,530 22,911 26,519 30,322	3,791 4,090 4,760 5,825 7,308 8,908 10,812	1,695 1,929 2,038 2,227 2,518 3,180 3,738	10,002 11,029 13,214 15,370 17,181 19,153 21,857	15,952 17,251 19,269 21,198 23,599 26,117 29,973	69,302 74,678 82,843 93,350 102,411 116,728 131,332	26,286 28,563 33,287 37,919 41,158 47,238 52,718	11,664 12,221 12,770 13,932 14,481 15,417 16,427	5,766 6,315 6,757 8,218 9,857 12,110 14,679	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	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	150,674 168,549 181,357 199,222 230,722 256,731 274,215 296,984 327,517 369,086	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 78,358 92,180 103,004 112,472 122,478 137,731 155,276
1980-81 1981-82 1982-83 1983-84 1984-85 1985-86 1986-87 1987-88 1988-99	423,404 457,654 486,753 542,730 598,121 641,486 686,860 726,762 786,129 849,502	74,969 82,067 89,105 96,457 103,757 111,709 121,203 132,212 142,400 155,613	85,971 93,613 100,247 114,097 126,376 135,005 144,091 156,452 166,336 177,885	46,426 50,738 55,129 64,871 70,361 74,365 83,935 88,350 97,806 105,640	14,143 15,028 14,258 16,798 19,152 19,994 22,425 23,663 25,926 23,566	90,294 87,282 90,007 96,935 106,158 113,099 114,857 117,602 125,824 136,802	111,599 128,925 138,008 153,571 172,317 187,314 200,350 208,482 227,838 249,996	407,449 436,733 466,516 505,008 553,899 605,623 657,134 704,921 762,360 834,818	145,784 154,282 163,876 176,108 192,686 210,819 226,619 242,683 263,898 288,148	34,603 34,520 36,655 39,419 44,989 49,368 52,355 55,621 58,105 61,057	54,105 57,996 60,906 66,414 71,479 75,868 82,650 89,090 97,879 110,518	172,957 189,935 205,080 223,068 244,745 269,568 295,510 317,527 342,479 375,094
1990-91 1991-92 1992-93 1993-94 1994-95 1995-96 1996-97 1997-98 1999-99	902,207 979,137 1,041,643 1,100,490 1,169,505 1,222,821 1,289,237 1,365,762 1,434,029 1,541,322	167,999 180,337 189,744 197,141 203,451 209,440 218,877 230,150 239,672 249,178	185,570 197,731 209,649 223,628 237,268 248,993 261,418 274,883 290,993 309,290	109,341 115,638 123,235 128,810 137,931 146,844 159,042 175,630 189,309 211,661	22,242 23,880 26,417 28,320 31,406 32,009 33,820 34,412 33,922 36,059	154,099 179,174 198,663 215,492 228,771 234,891 244,847 255,048 270,628 291,950	262,955 282,376 293,935 307,099 330,677 350,645 371,233 395,639 409,505 443,186	908,108 981,253 1,030,434 1,077,665 1,149,863 1,193,276 1,249,984 1,318,042 1,402,369 1,506,797	309,302 324,652 342,287 353,287 378,273 398,859 418,416 450,365 483,259 521,612	64,937 67,351 68,370 72,067 77,109 79,092 82,062 87,214 93,018 101,336	130,402 158,723 170,705 183,394 196,703 197,354 203,779 208,120 218,957 237,336	403,467 430,526 449,072 468,916 497,779 517,971 545,727 572,343 607,134 646,512
2000-01 2001-02 2002-03 2003-04 2004-05 2005-06 2006-07 2007-08 2008-09 2009-10	1,647,161 1,684,879 1,763,212 1,887,397 2,026,034 2,197,475 2,329,356 2,421,977 2,425,812 2,502,055	263,689 279,191 296,683 317,941 335,779 364,559 388,701 409,540 431,896 441,661	320,217 324,123 337,787 361,027 384,266 417,735 440,331 449,945 433,373 431,176	226,334 202,832 199,407 215,215 242,273 268,667 290,278 304,902 270,894 260,338	35,296 28,152 31,369 33,716 43,256 53,081 60,626 57,231 46,281 42,860	324,033 360,546 389,264 423,112 438,558 452,975 464,585 477,441 537,174 623,732	477,592 490,035 508,702 536,386 581,902 640,458 684,834 722,919 706,193 702,288	1,626,066 1,736,866 1,821,917 1,908,543 2,012,110 2,123,663 2,259,899 2,406,183 2,501,260 2,542,453	563,575 594,694 621,335 655,182 688,314 728,917 773,676 826,061 852,172 859,965	107,235 115,295 117,696 117,215 126,350 136,502 144,714 153,831 154,172 155,870	261,622 285,464 310,783 340,523 365,295 373,846 388,277 408,920 436,698 460,739	693,634 741,413 772,102 795,622 832,151 884,398 953,232 1,017,372 1,058,219 1,065,879

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 between State and local governments 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, sea and inland port facilities, parking facilities, transit subsidies, police protection, fire protection, correction, protective inspection and regulation, sewerage, natural resources, parks and recreation, housing and community development, solid waste management, financial 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 1963-64 to 2009-10 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.

TABLE B-87. U.S. Treasury securities outstanding by kind of obligation, 1974-2012 [Billions of dollars]

-	Total				Marketable	9			Nonmarketable				
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: 1974	473.2 532.1 619.3 697.6 767.0 819.0	266.6 315.6 392.6 443.5 485.2 506.7	105.0 128.6 161.2 156.1 160.9 161.4	128.4 150.3 191.8 241.7 267.9 274.2	33.1 36.8 39.6 45.7 56.4 71.1				206.7 216.5 226.7 254.1 281.8 312.3	61.9 65.5 69.7 75.4 79.8 80.4	25.0 23.2 21.5 21.8 21.7 28.1	115.4 124.2 130.6 140.1 153.3 176.4	4.3 3.6 4.9 16.8 27.1 27.4
1980	906.4 996.5 1,140.9 1,375.8 1,559.6 1,821.0 2,122.7 2,347.8 2,599.9 2,836.3	594.5 683.2 824.4 1,024.0 1,176.6 1,360.2 1,564.3 1,676.0 1,802.9 1,892.8	199.8 223.4 277.9 340.7 356.8 384.2 410.7 378.3 398.5 406.6	310.9 363.6 442.9 557.5 661.7 776.4 896.9 1,005.1 1,089.6 1,133.2	83.8 96.2 103.6 125.7 158.1 199.5 241.7 277.6 299.9 338.0				311.9 313.3 316.5 351.8 383.0 460.8 558.4 671.8 797.0 943.5	72.7 68.0 67.3 70.0 72.8 77.0 85.6 97.0 106.2 114.0	25.2 20.5 14.6 11.5 8.8 6.6 4.1 4.4 6.3 6.8	189.8 201.1 210.5 234.7 259.5 313.9 365.9 440.7 536.5 663.7	24.2 23.7 24.1 35.6 41.8 63.3 102.8 129.8 148.0 159.0
1990 1991 1992 1993 1994 1995 1996 1997 1998	3,210.9 3,662.8 4,061.8 4,408.6 4,689.5 4,950.6 5,220.8 5,407.5 5,518.7 5,647.2	2,092.8 2,390.7 2,677.5 2,904.9 3,091.6 3,260.4 3,418.4 3,439.6 3,331.0 3,233.0	482.5 564.6 634.3 658.4 697.3 742.5 761.2 701.9 637.6 653.2	1,218.1 1,387.7 1,566.3 1,734.2 1,867.5 1,980.3 2,098.7 2,122.2 2,009.1 1,828.8	377.2 423.4 461.8 497.4 511.8 522.6 543.5 576.2 610.4 643.7	24.4 58.8 92.4	24.4 41.9 67.6	17.0 24.8	1,118.2 1,272.1 1,384.3 1,503.7 1,597.9 1,690.2 1,802.4 1,967.9 2,187.7 2,414.2	122.2 133.5 148.3 167.0 176.4 181.2 184.1 182.7 180.8 180.0	36.0 41.6 37.0 42.5 42.0 41.0 37.5 34.9 35.1 31.0	779.4 908.4 1,011.0 1,114.3 1,211.7 1,324.3 1,454.7 1,608.5 1,777.3 2,005.2	180.6 188.5 188.0 179.9 167.8 143.8 126.1 141.9 194.4 198.1
2000 2001 1 2002 2003 2004 2005 2006 2007 2008 2009	5,622.1 5,807.5 6,228.2 6,783.2 7,379.1 7,932.7 8,507.0 9,007.7 10,024.7 11,909.8	2,992.8 2,930.7 3,136.7 3,460.7 3,846.1 4,084.9 4,303.0 4,448.1 5,236.0 7,009.7	616.2 734.9 868.3 918.2 961.5 914.3 911.5 958.1 1,489.8 1,992.5	1,611.3 1,433.0 1,521.6 1,799.5 2,109.6 2,328.8 2,447.2 2,458.0 2,624.8 3,773.8	635.3 613.0 593.0 576.9 552.0 520.7 534.7 561.1 582.9 679.8	115.0 134.9 138.9 166.1 223.0 307.1 395.6 456.9 524.5 551.7	81.6 95.1 93.7 120.0	33.4 39.7 45.1 46.1	2,629.3 2,876.7 3,091.5 3,322.5 3,533.0 3,847.8 4,203.9 4,559.5 4,788.7 4,900.1	177.7 186.5 193.3 201.6 204.2 203.6 203.7 197.1 194.3 192.5	25.4 18.3 12.5 11.0 5.9 3.1 3.0 3.0 4.9	2,242.9 2,492.1 2,707.3 2,912.2 3,130.0 3,380.6 3,722.7 4,026.8 4,297.7 4,454.3	183.3 179.9 178.4 197.7 192.9 260.5 274.5 332.6 293.8 248.4
2010 2011 2012	13,561.6 14,790.3 16,066.2	8,498.3 9,624.5 10,749.8	1,788.5 1,477.5 1,616.0	5,255.9 6,412.5 7,120.7	849.9 1,020.4 1,198.2	593.8 705.7 807.8			5,063.3 5,165.8 5,316.5	188.8 185.2 183.7	4.2 3.0 3.0	4,645.3 4,793.9 4,939.5	225.0 183.7 190.4
2011: Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec	14,131.1 14,194.8 14,270.1 14,287.6 14,344.7 14,342.4 14,684.3 14,790.3 14,993.7 15,110.5 15,222.9	8,964.7 9,048.2 9,132.7 9,136.6 9,262.2 9,334.6 9,521.8 9,624.5 9,746.5 9,878.3 9,936.9	1,760.5 1,738.5 1,698.5 1,638.5 1,578.5 1,531.5 1,492.5 1,477.5 1,482.5 1,512.5 1,520.5	5,672.2 5,750.8 5,847.9 5,903.5 6,054.7 6,151.3 6,204.3 6,318.7 6,412.5 6,507.0 6,679.0 6,605.1	905.9 922.3 935.3 948.9 964.9 977.9 990.9 1,007.4 1,020.4 1,033.4 1,050.6 1,064.1	615.8 626.3 640.8 635.4 653.8 665.5 681.5 693.8 705.7 715.2 727.8 738.8			5,166.3 5,146.6 5,137.4 5,151.1 5,082.4 5,008.4 4,964.7 5,162.5 5,165.8 5,247.2 5,232.2 5,286.1	187.5 187.3 186.9 186.6 186.4 185.8 185.4 185.2 185.6 185.5 185.3	4.0 3.8 3.8 3.7 3.7 3.1 3.0 3.0 3.0 3.0	4,755.8 4,741.3 4,748.0 4,684.8 4,620.4 4,588.2 4,791.3 4,793.9 4,872.2 4,857.2 4,913.9	219.0 214.1 213.7 212.7 207.5 198.3 187.7 182.8 183.7 186.4 186.5 183.9
2012: Jan Feb Mar Apr May June July Aug Sept Oct. Nov Dec	15,356.1 15,488.9 15,582.1 15,692.4 15,770.7 15,855.0 15,933.2 16,015.8 16,066.2 16,261.5 16,369.5 16,432.7	10,068.9 10,222.3 10,338.3 10,400.1 10,486.2 10,520.7 10,607.3 10,757.0 10,749.8 10,887.5 11,032.8 11,053.2	1,525.4 1,610.4 1,674.4 1,613.4 1,605.4 1,596.4 1,581.0 1,663.0 1,616.0 1,622.0 1,695.0	6,711.3 6,754.4 6,776.5 6,883.3 6,941.5 6,962.9 7,067.2 7,105.8 7,120.7 7,228.2 7,267.7 7,327.1	1,078.0 1,096.0 1,109.9 1,125.3 1,142.3 1,156.2 1,169.2 1,185.2 1,198.2 1,211.2 1,227.2 1,240.2	745.7 753.0 769.0 769.6 788.5 798.1 782.9 795.9 807.8 819.0 835.8 849.8			5,287.2 5,266.6 5,243.8 5,292.3 5,284.5 5,334.4 5,325.9 5,258.7 5,316.5 5,374.0 5,336.8 5,379.5	185.2 185.0 184.8 184.9 184.7 184.4 184.2 183.9 183.7 183.5 183.2 182.5	3.8 3.6 3.4 3.2 3.0 3.0 3.0 3.0 3.0 3.0	4,922.0 4,902.1 4,870.8 4,912.5 4,901.7 4,953.1 4,952.9 4,885.5 4,939.5 4,992.1 4,959.9 4,999.6	176.2 175.7 184.6 191.5 195.0 193.8 185.8 186.4 190.4 195.4 190.7

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 2012 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" nonmarketable securities.

 Alonomarketable 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 Overnment 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.

 $\begin{array}{c} \text{Table B-88. Maturity distribution and average length of marketable interest-bearing public debt securities held by private investors, 1974–2012} \end{array}$

	Amount		, 1	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 length ¹
	'		Millions	of dollars	'		Months
Fiscal year: 1974 1975 1976 1976 1977 1978	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	35 32 31 35 39 43
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	41 43 43 44 49 54 59 65 66 70
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	70 70 69 69 66 63 62 64 68 72
2000 2001 2002 2003 2004 2005 2006 2007 2008	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 6,228,565	858,903 900,178 939,986 1,057,049 1,127,850 1,100,783 1,140,553 1,176,510 2,042,003 2,604,676	791,540 650,522 802,032 955,239 1,150,979 1,279,646 1,295,589 1,309,871 1,468,455 2,074,723	355,382 329,247 311,176 351,525 414,728 499,386 589,748 677,905 719,347 994,688	167,082 174,653 203,816 243,755 243,036 281,229 290,733 291,963 352,430 350,550	296,246 273,702 235,811 196,497 208,652 173,367 179,736 178,417 163,022 203,928	75 73 66 61 59 58 59 58 49
2010 2011 2012	7,676,335 7,951,366 9,039,954	2,479,518 2,503,926 2,896,780	2,955,561 3,084,882 3,851,873	1,529,283 1,543,847 1,487,726	340,861 309,151 270,921	371,112 509,559 532,654	57 60 55
2011: Jan	7,825,784 7,810,240 7,781,983 7,653,649 7,721,626 7,764,300 7,861,156 7,951,366 8,074,439 8,196,987 8,205,749	2,559,917 2,588,072 2,555,954 2,522,043 2,499,253 2,474,344 2,481,706 2,495,843 2,503,926 2,546,549 2,615,920 2,641,533	2,968,708 2,962,896 2,937,225 2,937,225 2,953,201 2,961,638 2,924,762 3,048,014 3,084,882 3,164,655 3,234,816 3,251,453	1,552,207 1,527,039 1,528,474 1,496,984 1,499,893 1,486,856 1,471,149 1,510,394 1,543,847 1,539,649 1,535,457 1,505,074	328,998 329,050 329,019 324,243 317,188 315,369 315,618 310,042 309,151 307,001 292,136 289,711	415,954 423,183 431,311 440,152 452,090 468,382 481,063 496,863 509,559 516,588 517,978	57 57 58 58 59 59 60 60 60 60 59
2012: Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec More Peb More Move Move Dec Market Market Market Move Move Move Move Move Move Move Move	8,399,585 8,551,311 8,608,508 8,729,683 8,815,377 8,792,599 8,950,594 9,102,348 9,039,954 9,28,648 9,28,648 9,373,556	2,652,591 2,743,327 2,820,573 2,776,665 2,795,764 2,808,138 2,818,970 2,934,717 2,896,780 2,906,732 2,992,450 2,932,843	3,412,176 3,479,479 3,477,460 3,614,220 3,682,506 3,667,577 3,790,401 3,855,400 3,851,873 3,997,210 4,051,300 4,124,101	1,527,281 1,513,140 1,498,189 1,528,759 1,524,989 1,501,719 1,528,840 1,507,576 1,487,726 1,516,348 1,513,173 1,516,995	287,847 285,554 283,948 288,053 287,006 285,192 282,782 273,162 270,921 269,465 263,682 261,723	519,690 529,809 528,338 521,987 525,113 529,601 531,493 532,654 538,893 540,956 537,895	58 58 57 57 57 56 56 55 55 55 55 54

¹ Average length calculations are to call date. 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 January 23, 2013.

TABLE B-89. Estimated ownership of U.S. Treasury securities, 1999-2012

[Billions of dollars]

			Federal				ı	Held by priv	ate investo	rs			
		Total	Reserve and				Pensio	n funds			0		
Er	nd of month	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
	Mar	5,651.6	2,324.1	3,327.5	247.4	180.6	135.5	211.5	137.5	245.0	288.4	1,272.3	609.4
	June	5,638.8	2,439.6	3,199.2	240.6	180.0	142.9	213.8	133.6	228.1	298.6	1,258.8	502.7
	Sept	5,656.3	2,480.9	3,175.4	241.2	180.0	150.9	204.8	128.0	222.5	299.2	1,281.4	467.3
	Dec	5,776.1	2,542.2	3,233.9	248.7	179.3	153.0	198.8	123.4	228.7	304.5	1,268.7	528.8
	Mar	5,773.4	2,590.6	3,182.8	237.7	178.6	150.2	196.9	120.0	222.3	306.3	1,085.0	685.7
	June	5,685.9	2,698.6	2,987.3	222.2	177.7	149.0	194.9	116.5	205.4	309.3	1,060.7	551.7
	Sept	5,674.2	2,737.9	2,936.3	220.5	177.7	147.9	185.5	113.7	207.8	307.9	1,038.8	536.5
	Dec	5,662.2	2,781.8	2,880.4	201.5	176.9	145.0	179.1	110.2	225.7	310.0	1,015.2	516.9
	Mar	5,773.7	2,880.9	2,892.8	188.0	184.8	153.4	177.3	109.1	225.3	316.9	1,012.5	525.4
	June	5,726.8	3,004.2	2,722.6	188.1	185.5	148.5	183.1	108.1	221.0	324.8	983.3	380.2
	Sept	5,807.5	3,027.8	2,779.7	189.1	186.5	149.9	166.8	106.8	234.1	321.2	992.2	433.1
	Dec	5,943.4	3,123.9	2,819.5	181.5	190.4	145.8	155.1	105.7	261.9	328.4	1,040.1	410.6
	Mar	6,006.0	3,156.8	2,849.2	187.6	192.0	152.7	163.3	114.0	266.1	327.6	1,057.2	388.8
	June	6,126.5	3,276.7	2,849.8	204.7	192.8	152.1	153.9	122.0	253.8	333.6	1,123.1	313.7
	Sept	6,228.2	3,303.5	2,924.7	209.3	193.3	154.5	156.3	130.4	256.8	338.6	1,188.6	296.9
	Dec	6,405.7	3,387.2	3,018.5	222.6	194.9	153.8	158.9	139.7	281.0	354.7	1,235.6	277.4
	Mar	6,460.8	3,390.8	3,070.0	153.6	196.9	165.8	162.1	139.5	296.6	350.0	1,275.2	330.2
	June	6,670.1	3,505.4	3,164.7	145.4	199.2	170.2	161.3	138.7	302.3	347.9	1,371.9	327.8
	Sept	6,783.2	3,515.3	3,267.9	146.8	201.6	167.7	155.5	137.4	287.1	357.7	1,443.3	371.0
	Dec	6,998.0	3,620.1	3,377.9	153.1	203.9	172.2	148.6	136.5	280.9	364.2	1,523.1	395.4
	Mar	7,131.1	3,628.3	3,502.8	162.8	204.5	169.8	143.6	172.4	280.8	374.1	1,670.0	324.8
	June	7,274.3	3,742.8	3,531.5	158.6	204.6	173.3	134.9	174.6	258.7	381.2	1,735.4	310.1
	Sept	7,379.1	3,772.0	3,607.1	138.5	204.2	174.0	140.8	182.9	255.0	381.7	1,794.5	335.5
	Dec	7,596.1	3,905.6	3,690.5	125.0	204.5	173.7	151.0	188.5	254.1	389.1	1,849.3	355.4
	Mar	7,776.9	3,921.6	3,855.3	141.8	204.2	177.3	158.0	193.3	261.1	412.0	1,952.2	355.5
	June	7,836.5	4,033.5	3,803.0	126.9	204.2	181.0	171.3	195.0	248.7	444.0	1,877.5	354.4
	Sept	7,932.7	4,067.8	3,864.9	125.3	203.6	184.2	164.8	200.7	244.7	463.7	1,929.6	348.2
	Dec	8,170.4	4,199.8	3,970.6	117.1	205.2	184.9	153.8	202.3	251.3	475.0	2,033.9	347.0
	Mar	8,371.2	4,257.2	4,114.0	113.0	206.0	186.7	153.0	200.3	248.7	473.3	2,082.1	450.9
	June	8,420.0	4,389.2	4,030.8	119.5	205.2	191.6	150.9	196.1	244.2	524.9	1,977.8	420.5
	Sept	8,507.0	4,432.8	4,074.2	113.6	203.7	201.7	154.7	196.8	235.7	526.2	2,025.3	416.5
	Dec	8,680.2	4,558.1	4,122.1	114.8	202.4	207.2	156.2	197.9	250.7	551.7	2,103.1	338.1
	Mar	8,849.7	4,576.6	4,273.1	119.8	200.3	221.3	158.3	185.4	264.5	582.0	2,194.8	346.8
	June	8,867.7	4,715.1	4,152.6	110.4	198.6	232.0	159.3	168.9	267.7	608.9	2,192.0	214.7
	Sept	9,007.7	4,738.0	4,269.7	119.7	197.1	246.1	138.9	155.1	306.3	586.0	2,235.3	285.1
	Dec	9,229.2	4,833.5	4,395.7	129.8	196.5	257.2	141.6	141.9	362.9	588.1	2,353.2	224.5
	Mar	9,437.6	4,694.7	4,742.9	125.0	195.4	270.3	142.0	152.1	484.4	582.4	2,506.3	285.0
	June	9,492.0	4,685.8	4,806.2	112.7	195.0	276.7	141.8	159.4	477.2	574.3	2,587.4	281.7
	Sept	10,024.7	4,692.7	5,332.0	130.0	194.3	292.3	143.9	163.4	656.1	544.8	2,802.4	404.8
	Dec	10,699.8	4,806.4	5,893.4	105.0	194.1	297.3	146.4	171.4	768.8	526.7	3,077.2	606.6
	Mar	11,126.9	4,785.2	6,341.7	125.6	194.0	331.3	150.2	191.0	716.0	556.0	3,265.7	812.0
	June	11,545.3	5,026.8	6,518.5	140.8	193.6	354.0	159.9	200.0	695.6	554.3	3,460.8	759.5
	Sept	11,909.8	5,127.1	6,782.7	198.1	192.5	398.8	167.3	210.2	644.9	543.8	3,570.6	856.4
	Dec	12,311.3	5,276.9	7,034.4	202.4	191.3	430.5	174.5	222.0	666.3	547.2	3,685.1	915.2
2010:	Mar	12,773.1	5,259.8	7,513.3	269.4	190.2	462.8	179.1	225.7	646.4	545.4	3,877.9	1,116.4
	June	13,201.8	5,345.1	7,856.7	266.1	189.6	485.2	182.0	231.8	632.1	537.1	4,070.0	1,262.8
	Sept	13,561.6	5,350.5	8,211.1	322.9	188.7	502.1	185.5	240.6	607.4	531.3	4,324.2	1,308.4
	Dec	14,025.2	5,656.2	8,368.9	319.1	187.9	520.8	185.6	248.4	638.0	538.7	4,435.6	1,294.9
2011:	Mar	14,270.0	5,958.9	8,311.1	321.2	186.7	532.5	187.9	251.4	641.0	526.0	4,481.4	1,183.1
	June	14,343.1	6,220.4	8,122.7	279.3	186.0	542.5	186.9	250.6	653.0	508.7	4,690.6	825.1
	Sept	14,790.3	6,328.0	8,462.4	293.7	185.1	569.0	189.0	253.4	719.4	487.9	4,912.2	852.7
	Dec	15,222.8	6,439.6	8,783.3	279.7	185.2	583.9	188.9	260.7	827.9	485.2	5,007.4	964.3
2012:	Mar June Sept Dec	15,582.3 15,855.5 16,066.2 16,432.7	6,397.2 6,475.8 6,446.8 6,523.7	9,185.1 9,379.7 9,619.4 9,909.1	320.2 304.4 337.4	184.8 184.7 183.8 182.5	596.4 605.2 615.6	189.3 189.6 190.3	260.5 259.1 263.8	882.2 864.5 889.1	483.4 489.6 492.2	5,148.3 5,312.4 5,475.4	1,120.1 1,170.3 1,171.8

Note: Data shown in this table are as of January 23, 2013.

Source: Department of the Treasury.

² Federal Reserve holdings exclude Treasury securities held under repurchase agreements.

³ Includes U.S. chartered depository institutions, foreign banking offices in U.S., banks in U.S. affiliated areas, credit unions, and bank holding companies.

⁴ Current accrual value.

⁵ Includes Treasury securities held by the Federal Employees Retirement System Thrift Savings Plan "G Fund."

Includes measury securities read by the redeal enjoyees neutrenin system time. Savings read of rains.

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 Bulletin and http://www.treas.gov/ric/ticsec2.shtml.

Blouddes individuals, Government-sponsored enterprises, brokers and dealers, bank personal trusts and estates, corporate and noncorporate businesses,

CORPORATE PROFITS AND FINANCE

$\begin{array}{c} \text{Table B-90. Corporate profits with inventory valuation and capital consumption} \\ \text{adjustments, } 1964-2012 \end{array}$

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

	Corporate profits	Tayon	Corporate pr	ofits after tax with inven apital consumption adjus	tory valuation tments
Year or quarter	with inventory valuation and capital consumption adjustments	Taxes on corporate income	Total	Net dividends	Undistributed profits with inventory valuation and capital consumption adjustments
1964 1965 1966 1967 1968 1968	75.5 86.5 92.5 90.2 97.3 94.5	28.2 31.1 33.9 32.9 39.6 40.0	47.4 55.5 58.7 57.3 57.6 54.5	18.2 20.2 20.7 21.5 23.5 24.2	29.2 35.3 38.0 35.8 34.1 30.3
1970 1971 1972 1973 1973 1974 1975 1976 1977 1978	82.5 96.1 111.4 124.5 115.1 133.3 161.6 191.8 218.4 225.4	34.8 38.2 42.3 50.0 52.8 51.6 65.3 74.4 84.9 90.0	47.7 57.9 69.1 74.5 62.3 81.7 96.3 117.4 133.6 135.3	24.3 25.0 26.8 29.9 33.2 33.0 44.8 50.8 57.5	23.4 32.9 42.2 44.6 29.1 48.7 57.3 72.6 82.8 77.8
1980 1981 1982 1983 1984 1985 1986 1987	201.4 223.3 205.7 259.8 318.6 332.5 314.1 367.8 426.6	87.2 84.3 66.5 80.6 97.5 99.4 109.7 130.4 141.6	114.2 138.9 139.2 179.2 221.1 233.1 204.5 237.4 285.0 279.5	64.1 73.8 77.7 83.5 90.8 97.6 106.2 112.3 129.9	50.2 65.2 61.5 95.7 130.3 135.6 98.3 125.1 155.1
1990 1991 1992 1993 1994 1995 1996 1997	434.4 457.3 496.2 543.7 628.2 716.2 801.5 884.8 812.4 856.3	145.4 138.6 148.7 171.0 193.1 217.8 231.5 245.4 258.8	289.0 318.7 347.5 372.7 435.1 498.3 570.0 639.4 564.1 597.5	169.1 180.7 188.0 202.9 235.7 254.4 297.7 331.2 351.5 337.4	120.0 138.0 159.5 169.7 199.4 243.9 272.3 308.2 212.6
2000 2001 2002 2002 2003 2004 2005 2006 2006 2007 2008 2009	819.2 784.2 872.2 977.8 1,246.9 1,456.1 1,608.3 1,510.6 1,248.4 1,342.3	265.1 203.3 192.3 243.8 306.1 412.4 473.3 445.5 309.0 269.4	554.1 580.9 679.9 734.0 940.8 1,043.7 1,135.0 1,065.2 939.4	377.9 370.9 399.3 424.9 550.3 704.8 794.5 786.9 554.1	176.3 210.0 280.6 309.2 390.5 486.4 430.3 270.7 152.5 518.8
2010	1,702.4 1,827.0	373.3 379.0	1,329.1 1,447.9	600.9 697.2 779.2	728.2 750.7
2009:	1,198.4 1,243.3 1,403.2 1,524.5 1,648.0 1,625.4 1,747.5 1,788.8	214.9 240.5 285.0 337.0 351.1 350.2 385.5 406.6	983.5 1,002.8 1,118.2 1,187.4 1,297.0 1,275.2 1,382.1	652.4 548.4 502.4 513.3 554.9 588.8 618.1 645.0	331.1 454.3 615.9 674.1 742.1 689.4 744.0 737.3
2011: I	1,723.3 1,800.9 1,830.5 1,953.1	398.7 385.1 362.0 370.4	1,324.6 1,415.8 1,468.5 1,582.8	677.6 687.5 705.9 717.9	647.0 728.4 762.6 864.9
2012: I	1,900.1 1,921.9 1,967.6	453.6 443.3 452.4	1,446.6 1,478.5 1,515.2	727.1 747.5 760.3 881.8	719.4 731.0 754.8

TABLE B-91. Corporate profits by industry, 1964-2012

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

			Corporat	e profits w	ith invent	ory valuati	on adjustr	nent and	without ca	pital cons	umption a	djustment		
							Domestic	industries	:					
Year or quarter	Total			Financial					Nonfir	nancial				Rest
	rotai	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 1964 1965 1966 1967 1968	68.6 78.9 84.6 82.0 88.8 85.5	64.1 74.2 80.1 77.2 83.2 78.9	8.8 9.3 10.7 11.2 12.8 13.6	1.1 1.3 1.7 2.0 2.5 3.1	7.6 8.0 9.1 9.2 10.3 10.5	55.4 64.9 69.3 66.0 70.4 65.3	32.6 39.8 42.6 39.2 41.9 37.3	10.2 11.0 12.0 10.9 11.0 10.7		3.4 3.8 4.0 4.1 4.6 4.9	4.5 4.9 4.9 5.7 6.4 6.4		4.7 5.4 5.9 6.1 6.6 6.1	4.5 4.7 4.5 4.8 5.6 6.6
1970 1971 1972 1973 1974 1975 1976 1977 1978	74.4 88.3 101.6 115.4 109.6 135.0 165.6 194.8 222.4 232.0	67.3 80.4 92.1 100.5 92.1 120.4 149.1 175.7 199.6 197.4	15.4 17.6 19.2 20.5 20.2 25.0 31.9 39.5 40.4	3.5 3.3 4.5 5.7 5.6 5.9 6.1 7.6 9.4	11.9 14.3 15.8 16.1 14.5 14.6 19.1 25.8 31.9 30.9	52.0 62.8 72.9 80.0 71.9 100.2 124.1 143.8 160.0 157.0	27.5 35.1 42.2 47.2 41.4 55.2 71.4 79.4 90.5 89.8	8.3 8.9 9.5 9.1 7.6 11.0 15.3 18.6 21.8 17.0		4.4 5.2 6.9 8.2 11.5 13.8 12.9 15.6 15.6 18.8	6.0 7.2 7.4 6.7 2.3 8.2 10.5 12.4 12.3 9.9		5.8 6.4 7.0 8.8 9.1 12.0 14.0 17.8 19.8 21.6	7.1 7.9 9.5 14.9 17.5 14.6 16.5 19.1 22.9 34.6
1980 1981 1982 1983 1984 1985 1986 1987 1988 1989	211.4 219.1 191.1 226.6 264.6 257.5 253.0 306.9 367.7 374.1	175.9 189.4 158.5 191.5 228.1 219.4 213.5 258.8 310.8 307.0	34.0 29.1 26.0 35.5 34.4 45.9 56.8 61.6 68.8 80.2	11.8 14.4 15.2 14.6 16.4 16.3 15.5 16.2 18.1 20.6	22.2 14.7 10.8 21.0 18.0 29.5 41.2 45.3 50.7 59.5	142.0 160.3 132.5 156.0 193.7 173.5 156.8 197.3 242.0 226.8	78.3 91.1 67.1 76.2 91.8 84.3 57.9 87.5 122.5 112.1	18.4 20.3 23.1 29.5 40.1 33.8 35.8 42.4 48.9 43.8		17.2 22.4 19.6 21.0 29.5 23.9 24.1 19.0 20.4 22.1	6.2 9.9 13.5 18.8 21.1 22.2 23.5 24.0 21.0 22.1		21.8 16.7 9.3 10.4 11.1 9.2 15.5 24.4 29.3 26.7	35.5 29.7 32.6 35.1 36.6 38.1 39.5 48.0 57.0 67.1
1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 <i>MAICS: ³</i>	398.8 430.3 471.6 515.0 586.6 666.0 743.8 815.9 738.6 776.6 755.7	322.7 353.8 398.5 438.1 508.6 573.1 641.8 708.3 635.9 655.0 610.0	92.3 122.1 142.7 133.4 129.2 160.1 167.5 187.4 159.6 190.4 194.4	21.8 20.7 18.3 16.7 18.5 22.9 22.5 24.3 25.6 26.7 31.2	70.5 101.4 124.4 116.7 110.7 137.2 144.9 163.2 134.0 163.8 163.2	230.4 231.7 255.8 304.7 379.5 413.0 474.4 520.9 476.2 464.6 415.7	114.4 99.4 100.8 116.8 150.1 176.7 192.0 212.2 173.4 174.6 166.5	44.7 53.8 59.2 70.2 85.2 87.9 93.7 86.5 81.1 59.1 45.8		19.6 22.2 25.5 26.7 31.8 28.0 40.6 48.2 51.7 51.7 55.6	21.6 27.7 29.2 40.6 47.2 44.8 53.7 65.9 74.7 75.6 71.4		30.1 28.7 41.1 50.4 65.2 75.5 94.5 108.1 95.5 103.6 76.4	76.1 76.5 73.1 76.9 78.0 92.9 102.0 107.6 102.8 121.5 145.6
1998	738.6 776.6 755.7 720.8 762.8 892.2 1,195.1 1,609.5 1,784.7 1,691.1 1,315.5 1,443.6	635.9 655.0 610.0 551.1 604.9 726.4 990.1 1,370.0 1,527.8 1,340.2 908.9 1,090.8	159.5 189.3 189.6 228.0 265.2 311.8 362.3 443.6 448.0 345.5 122.2 374.8	25.6 26.7 31.2 28.9 23.5 20.1 20.0 26.6 33.8 36.0 35.1 47.3	133.9 162.6 158.4 199.1 241.7 291.8 342.3 417.0 414.1 309.5 87.1 327.5	476.4 465.7 420.4 323.1 339.7 414.6 627.8 926.4 1,079.9 994.7 786.7 716.0	155.8 148.8 143.9 49.7 47.7 69.4 154.1 247.2 304.5 271.3 195.5 131.0	21.3 16.5 15.2 1.2 1 7.4 14.4 29.0 42.1 27.7 31.9 24.8	33.5 33.7 25.6 25.2 12.3 12.4 19.4 29.8 54.4 50.3 30.7 23.1	52.8 54.8 58.7 51.3 49.1 54.8 75.6 92.2 103.7 99.9 86.3 86.6	67.3 65.7 60.7 72.6 81.6 88.9 93.4 122.6 133.2 117.8 81.6 108.0	21.9 12.5 -15.5 -24.4 -3.8 4.9 45.6 81.3 92.4 93.6 75.1 72.8	123.7 133.6 131.8 147.4 153.0 176.7 225.2 324.3 349.6 334.2 285.7 269.7	102.8 121.5 145.6 169.7 157.9 165.8 205.0 239.4 256.8 350.9 406.6 352.8
2010	1,777.7 1,791.6 1,758.0 1,741.0 1,824.6 1,787.0	1,376.1 1,352.7 1,369.3 1,332.7 1,420.2 1,382.2 1,258.8	424.3 408.3 416.0 372.9 425.8 482.4 417.6	71.6 75.9 71.6 74.0 71.4 69.2 72.1	352.7 332.3 344.3 298.9 354.4 413.2 345.4	951.8 944.4 953.3 959.8 994.4 899.8 841.2	233.5 244.9 210.5 235.2 252.1 236.2 215.5	48.1 45.5 39.6 51.3 57.5 44.2 41.1	27.9 17.7 43.2 11.1 31.7 25.5 8.9	98.2 96.3 99.5 114.3 103.9 75.1 79.1	122.6 108.9 125.7 124.2 121.0 119.5	86.0 85.5 87.3 84.9 91.5 80.4 78.7	335.4 345.7 347.4 338.7 336.7 318.8 308.9	401.6 438.9 388.8 408.3 404.4 404.8 420.6
2012: I	1,764.6 1,798.8 1,923.5 2,100.8 2,124.3 2,167.5	1,328.4 1,351.0 1,472.5 1,697.9 1,687.7 1,739.2	365.6 380.8 469.1 481.2 441.9 509.6	79.8 76.6 75.2 74.5 74.2 69.4	285.8 304.1 393.9 406.6 367.6 440.1	962.8 970.2 1,003.4 1,216.8 1,245.8 1,229.6	229.2 248.9 285.9 363.5 372.8 367.6	45.8 45.6 49.5 56.7 55.0 54.6	36.5 10.2 15.1 38.3 41.3 42.0	94.7 105.3 106.0 134.6 149.6 130.2	101.9 103.8 120.9 138.6 136.4 138.3	90.2 87.5 85.4 109.8 118.6 118.1	364.5 368.9 340.6 375.3 372.2 378.7	436.3 447.8 450.9 402.9 436.5 428.3

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 1988).

 SIC-based industry data use the 1987 SIC or data beginning in 1987 and the 1972 SIC for prior data. NAICS-based data use 2002 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, 1964-2012

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

			Corporate	profits with	n inventory	valuation a	djustment a	and withou	t capital co	nsumption	adjustment		
				Du	ırable good	s ²				Non	idurable go	ods ²	
Year or quarter	Total manu- factur- ing	Total ¹	Fabri- cated metal products	Ma- chinery	Computer and electronic products	Electrical equip- ment, appli- ances, and compo- nents	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 1964 1965 1966 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1977 1978 1979 1980 1981 1982 1983 1998 1990 1991 1993 1993 1993 1995	32.6 39.8 42.6 39.2 41.9 37.3 27.5 35.1 42.2 47.2 41.4 55.2 71.4 90.5 89.8 84.3 57.9 87.5 112.5 112.5 112.5 112.5 112.5 112.5 112.5 112.5 112.6 116.8 150.7 176.2 173.4 176.6	18.1 23.3 24.1 21.3 22.5 19.2 10.6 22.9 25.2 15.3 20.6 38.0 45.4 37.2 18.9 19.5 39.7 26.3 41.3 44.5 35.1 44.5 35.1 44.5 35.1 47.8 48.7 77.8 88.7 77.9 64.6	1.5 2.4 2.5 2.0 1.1 1.5 2.2 2.7 3.3 3.4 5.5 5.0 4.5 4.5 5.3 4.4 4.5 6.6 6.1 5.3 6.6 6.1 11.9 11.9 11.6 11.1 11.1 11.1 1	3.3 4.0 4.6 4.2 3.8 3.1 3.1 4.6 4.9 9.5 8.6 9.0 5.7 8.0 9.0 5.7 8.6 11.3 12.0 5.8 7.6 9.3 14.9 17.0 19.0 19.0 19.0 19.0 19.0 19.0 19.0 19		1.7 2.7 3.0 3.0 2.3 1.3 2.9 3.2 2.6 2.6 3.8 5.9 6.7 3.5 5.1 2.6 2.7 7.8 9.5 5.1 10.6 11.4 22.0 20.7 26.0 27.0 20.7 20.7 20.7 20.7 20.7 20.7 20	4.62 5.20 5.20 5.7 5.3 5.7 7.4 4.7 7.4 4.8 8.3 8.3 8.3 8.3 8.3 9.0 1.8 9.0 4.7 4.5 5.9 7.4 4.5 5.9 7.5 7.5 7.5	4.4 5.2 4.9 4.9 4.1 5.6 6.2 4.0 4.7 7.3 8.5 10.5 2.7 -2.6 8.4 10.1 17.7 16.7 17.5 17.5 17.5 17.5 17.5 17.5 17.5 19.6 29.3 33.3 29.3 34.8 34.8 34.8 34.8	14.5 16.5 18.6 18.0 19.4 18.1 17.0 18.5 19.3 22.1 26.1 34.5 39.9 41.4 45.1 52.6 62.1 55.5 71.6 62.1 62.1 64.3 69.9 60.4 74.3 99.9 90.9 90.6 90.6	2.7 2.9 3.3 3.3 3.1 3.2 3.6 3.0 2.5 6.9 6.2 9.2 9.2 9.7 7.3 6.3 6.3 6.3 6.3 8.8 7.5 11.2 9.7 11.4 18.3 18.4 18.5 20.4 22.7 22.0 22.1 22.2 22.2 22.2 22.2 22.2 22.2	4.1 4.6 4.9 4.3 4.6 3.9 4.5 5.3 6.2 7.8 8.0 5.7 8.0 7.5 14.6 18.8 11.0 16.3 17.0 16.3 16.0 23.6 28.2 22.6 24.8	2.4 2.9 3.4 4.0 3.8 3.4 5.4 10.9 10.1 13.1 15.8 24.8 34.7 40.0 34.7 -4.7 -1.4 12.9 6.6 16.5 7.4 -1.5 7.4 15.3 17.6 2.8 15.3 17.6 2.8 15.3 17.6 2.8 17.1 4.6 2.9 2.9 2.9 2.9 2.9 2.9 2.9 2.9 2.9 2.9	5.3 6.1 6.9 6.4 7.1 7.0 6.1 6.1 6.7 7.7 9.5 13.6 14.8 14.7 13.1 14.5 19.1 20.5 21.3 26.4 24.2 22.3 25.9 25.0 28.9 31.4 33.3 33.3 31.4 39.2
2000 <i>NAICS: 3</i> 1998 1999	166.5 155.8 148.8	64.6 82.7 71.2	15.5 16.4 16.4	16.2 15.3 11.7	4.2 -6.8	5.1 6.2 6.4	-1.4 6.4 7.7	28.1 34.2 35.9	73.1 77.6	26.0 22.1 30.9	15.3 25.0 22.8	29.7 5.3 2.2	30.9 20.7 21.7
2000	143.9 49.7 47.7 69.4 154.1 247.2 304.5 271.3 195.5 131.0 233.5 244.9 210.5 235.2 252.1 236.2 252.1 236.2 252.2 252.1 236.2 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248.9 248	60.0 -26.9 -7.7 -4.3 40.7 95.6 118.9 96.1 56.8 21.1 100.3 95.6 99.8 110.2 106.7 82.1 87.1 98.6 133.2	15.8 9.8 9.1 8.0 12.2 18.1 18.7 20.5 15.8 11.3 15.0 16.4 12.6 16.5 17.7 14.9 15.3 16.1	7.7 2.0 1.4 1.0 7.1 14.5 19.2 22.1 16.6 7.3 17.5 21.5 14.2 16.3 19.9 18.7 19.4 22.1 25.6	4.2 -48.6 -34.4 -14.7 -9.0 17.4 11.0 12.2 19.1 35.2 27.6 37.6 37.8 37.8 22.1 25.3 26.4	5.9 1.9 2.0 2.2 6 -1.4 11.5 -1.2 4.6 9.1 7.7 5.1 7.6 8.7 8.0 6.5 4.4 4.4 4.5 5.4	-7.7 -8.9 -4.5 -11.7 -6.8 -16.4 -33.1 -49.7 -112.7 -12.7 -12.6 -9.2 -4.3 -13.8 -15.1 -14.5 -16.4	27.1 16.8 20.7 10.8 31.9 54.2 58.9 60.2 40.7 24.0 39.3 42.4 40.2 36.0 38.7 35.3 37.2 45.9 56.9 56.9 56.9 56.9 56.9 56.9 56.9 5	83.9 76.6 55.4 73.8 113.4 151.7 185.7 175.2 138.6 109.9 130.4 144.6 114.9 129.5 133.4 142.1 150.3 152.7	26.0 28.2 25.3 24.0 24.3 27.3 32.5 30.7 29.9 43.3 41.2 34.6 42.0 41.9 46.3 34.8 34.8 34.8 34.8	13.8 11.6 17.8 18.9 24.7 25.7 52.5 48.3 23.9 38.5 45.9 40.4 56.6 46.8 42.7 59.1	27.6 29.7 1.3 23.5 49.1 79.4 76.6 73.5 77.8 11.9 23.5 40.8 19.6 34.1 17.1 123.4 48.8 51.8 51.8 52.2	16.5 7.1 11.0 7.4 15.3 19.3 24.0 22.7 7.1 16.2 19.8 19.1 21.9 19.8 20.2 15.8 17.3 23.0
2012:	363.5 372.8 367.6	174.9 185.7 181.0	23.6 24.4 23.9	30.2 33.3 34.1	42.2 46.2 43.9	10.2 7.6 9.0	3.3 5.0 3.7	65.4 69.2 66.4	188.6 187.1 186.6	47.5 44.8 45.0	63.3 65.0 57.5	45.4 46.2 48.5	32.4 31.1 35.6

¹ For Standard Industrial Classification (SIC) data, includes primary metal industries, not shown separately.

¹ For Standard Industrial Classification (s.t.) data, includes primary metal industries, not snown separately.

² 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 tobacco 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, 1971-2012

[Billions of dollars]

	All r	manufacturii	ng corporati	ions	ı	Ourable goo	ds industrie	S	No	ondurable go	ods industr	ies
V		Pro	fits	0. 1		Pro	fits	0. 1		Pro	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
1971 1972 1973	751.1 849.5 1,017.2	52.9 63.2 81.4	31.0 36.5 48.1	320.8 343.4 374.1	381.8 435.8 527.3	26.5 33.6 43.6	14.5 18.4 24.8	160.4 171.4 188.7	369.3 413.7 489.9	26.5 29.6 37.8	16.5 18.0 23.3	160.5 172.0 185.4
1973: IV New series:	275.1	21.4	13.0	386.4	140.1	10.8	6.3	194.7	135.0	10.6	6.7	191.7
1973: IV 1974	236.6 1,060.6	20.6 92.1	13.2 58.7	368.0 395.0	122.7 529.0	10.1 41.1	6.2 24.7	185.8 196.0	113.9 531.6 544.1	10.5 51.0	7.0 34.1	182.1 199.0
1975 1976 1977 1978 1979	1,065.2 1,203.2 1,328.1 1,496.4 1,741.8	79.9 104.9 115.1 132.5 154.2	49.1 64.5 70.4 81.1 98.7	423.4 462.7 496.7 540.5 600.5	521.1 589.6 657.3 760.7 865.7	35.3 50.7 57.9 69.6 72.4	21.4 30.8 34.8 41.8 45.2	208.1 224.3 239.9 262.6 292.5	613.7 670.8 735.7 876.1	44.6 54.3 57.2 62.9 81.8	27.7 33.7 35.5 39.3 53.5	215.3 238.4 256.8 277.9 308.0
1980	1,912.8 2,144.7 2,039.4 2,114.3 2,335.0 2,331.4 2,220.9 2,378.2 2,596.2 2,745.1	145.8 158.6 108.2 133.1 165.6 137.0 129.3 173.0 215.3 187.6	92.6 101.3 70.9 85.8 107.6 87.6 83.1 115.6 153.8 135.1	668.1 743.4 770.2 812.8 864.2 866.2 874.7 900.9 957.6 999.0	889.1 979.5 913.1 973.5 1,107.6 1,142.6 1,125.5 1,178.0 1,284.7 1,356.6	57.4 67.2 34.7 48.7 75.5 61.5 52.1 78.0 91.6 75.1	35.6 41.6 21.7 30.0 48.9 38.6 32.6 53.0 66.9 55.5	317.7 350.4 355.5 372.4 395.6 420.9 436.3 444.3 468.7 501.3	1,023.7 1,165.2 1,126.4 1,140.8 1,227.5 1,188.8 1,095.4 1,200.3 1,311.5 1,388.5	88.4 91.3 73.6 84.4 90.0 75.6 77.2 95.1 123.7 112.6	56.9 59.6 49.3 55.8 58.8 49.1 50.5 62.6 86.8 79.6	350.4 393.0 414.7 440.4 468.5 445.3 438.4 456.6 488.9 497.7
1990 1991 1992 4 1993 1994 1995 1996 1997 1998 1999 2000	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 4,548.2	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 94.3 106.1 121.4 127.8 140.3 131.8	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 1,528.2 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	69.4 59.3 46.0 55.7 87.8 103.9 118.8 123.1 106.5 117.5 143.5	528.9 557.4 560.8 557.1 576.8 627.0 674.2 719.3 703.0 699.7 768.7
2000: IV	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
NAICS: 5 2000: IV	1,128.8	62.1	41.7	1,833.8	623.0	26.9	15.4	1,100.0	505.8	35.2	26.3	733.8
2001 2002 2003 2004 2005 2006 2007 2007 2008	4,295.0 4,216.4 4,397.2 4,934.1 5,411.5 5,782.7 6,060.0 6,374.1 5,109.8	83.2 195.5 305.7 447.5 524.2 604.6 602.8 388.1 360.6	36.2 134.7 237.0 348.2 401.3 470.3 442.7 266.3 286.5	1,843.0 1,804.0 1,952.2 2,206.3 2,410.4 2,678.6 2,921.8 2,980.4 2,781.1	2,321.2 2,260.6 2,282.7 2,537.3 2,730.5 2,910.2 3,015.7 2,969.5 2,426.9	-69.0 45.9 117.6 200.0 211.3 249.1 246.8 97.7 84.5	-76.1 21.6 88.2 156.5 161.2 192.8 159.4 43.3 54.9	1,080.5 1,024.8 1,040.8 1,212.9 1,304.0 1,384.0 1,493.1 1,480.6 1,342.5	1,973.8 1,955.8 2,114.5 2,396.7 2,681.0 2,872.5 3,044.4 3,404.6 2,683.0	152.2 149.6 188.1 247.5 312.9 355.5 356.1 290.4 276.1	112.3 113.1 148.9 191.6 240.2 277.5 283.3 223.1 231.6	762.5 779.2 911.5 993.5 1,106.5 1,294.6 1,428.7 1,499.8 1,438.5
2010 2011	5,756.0 6,485.4	584.3 721.7	477.9 593.9	3,176.5 3,502.7	2,707.7 2,927.8	287.3 335.3	232.5 284.1	1,559.5 1,741.3	3,048.3 3,557.6	297.1 386.4	245.4 309.8	1,617.0 1,761.4
2010: 	1,349.2 1,461.7 1,463.5 1,481.5	138.7 141.8 155.6 148.2	108.3 117.2 127.5 125.0	3,043.5 3,117.5 3,219.3 3,325.9	625.2 688.8 696.3 697.3	59.3 81.5 74.9 71.6	45.7 65.8 60.6 60.4	1,489.4 1,528.1 1,578.2 1,642.3	724.0 772.9 767.2 784.2	79.4 60.3 80.7 76.6	62.6 51.4 66.9 64.5	1,554.1 1,589.4 1,641.1 1,683.6
2011: I II IV	1,532.5 1,657.4 1,650.6 1,644.9	179.0 202.1 184.7 155.9	143.8 164.0 150.5 135.6	3,441.2 3,551.2 3,542.7 3,475.6	694.9 732.7 743.4 756.7	82.7 91.4 86.0 75.1	65.9 75.5 70.8 71.9	1,700.1 1,760.6 1,762.4 1,742.1	837.6 924.7 907.2 888.2	96.3 110.7 98.7 80.8	77.9 88.5 79.7 63.7	1,741.1 1,790.6 1,780.4 1,733.5
2012: 	1,649.1 1,692.4 1,652.5	181.2 196.9 167.6	145.3 158.9 134.9	3,580.5 3,584.7 3,655.9	756.5 794.9 770.5	86.2 94.9 78.1	68.6 75.1 61.2	1,801.1 1,833.0 1,860.6	892.6 897.5 881.9	95.0 102.0 89.5	76.6 83.8 73.7	1,779.4 1,751.7 1,795.3

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.

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, Trade, and Selected Service Industries, Department of Commerce, Bureau of the Census.

Source: Department of Commerce (Bureau of the Census).

Income taxes nave been deducted.

2 Annual data are average equity for the year (using four end-of-quarter figures).

3 Beginning with 1988, profits before and after income taxes reflect inclusion of minority stockholders' interest in net income before and after income taxes.

4 Data for 1992 (most significantly 1992:I) 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:I) 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).

Table B–94. Relation of profits after taxes to stockholders' equity and to sales, all manufacturing corporations, 1963-2012

	Ratio of profits to stockl	after income taxes (nolders' equity—per	annual rate) cent ¹	Pro per	ofits 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
63	10.3	10.1	10.4	4.7	4.5	4.9
64	11.6	11.7	11.5 12.2	5.2 5.6	5.1	5.4
55I	13.0	13.8	12.2 12.7	5.6	5.7	5. 5.
66 67	13.4 11.7	14.2 11.7	12.7	5.6 5.0	5.6 4.8	D.
68	12.1	12.2	11.0	5.1	4.9	5. 5.
69	11.5	11.4	11.5	4.8	4.6	5.
70	9.3	8.3	10.3	4.0	3.5	4.
71	9.7	9.0	10.3	4.1	3.8	4.
72	10.6	10.8	10.5	4.3	4.2	4
73	12.8	13.1	12.6	4.7	4.7	4
73: IV	13.4	12.9	14.0	4.7	4.5	5.
ew series:	13.4	12.3	14.0	4.7	4.0	J.
	110	10.0	45.0		F 0	
73: IV	14.3	13.3	15.3	5.6	5.0	6.
74	14.9	12.6	17.1	5.5	4.7	6.
75	11.6	10.3	12.9	4.6	4.1	5.
76	13.9	13.7	14.2	5.4	5.2	5
77 78	14.2 15.0	14.5 16.0	13.8 14.2	5.3 5.4	5.3 5.5	5
79	16.4	15.4	17.4	5.7	5.2	5 6
		I				
80	13.9 13.6	11.2 11.9	16.3 15.2	4.8 4.7	4.0 4.2	5. 5.
B1 B2	9.2	6.1	11.9	3.5	2.4	4
B3	10.6	8.1	12.7	4.1	3.1	4
B4	12.5	12.4	12.5	4.6	4.4	4
85	10.1	9.2	11.0	3.8	3.4	4
86	9.5	7.5	11.5	3.7	2.9	4
87 88 ²	12.8	11.9	13.7	4.9	4.5	5.
88 4	16.1	14.3	17.8	5.9	5.2	6. 5.
89	13.5	11.1	16.0	4.9	4.1	
90	10.6	7.9	13.1	3.9	3.0	4.
91 92 ³	6.2	1.4	10.6	2.4	.5	4.
92 3	2.1 8.0	-5.1	8.2	.8 2.8	-1.7	3.
93 94	15.8	5.7 16.3	10.0 15.2	2.8 5.4	1.8 5.3	3. 5.
95	16.0	15.4	16.6	5.6	5.2	6
96	16.7	15.7	17.6	6.0	5.5	6
97	16.7	16.3	17.1	6.2	5.8	6
98 l	15.8	16.4	15.2	5.9	5.9	6.
99	16.4	16.1	16.8	6.2	6.1	6.
00	15.1	12.5	18.7	6.1	5.4	6.
00: IV	9.9	7.0	13.9	4.0	3.1	5.
AICS: 4						
00: IV	9.1	5.6	14.3	3.7	2.5	5.
01	2.0	-7.0	14.7	.8	-3.3	5.
02	7.5	2.1	14.5	3.2	1.0	5
D2 D3	12.1	8.5	16.3	5.4	3.9	7.
04	15.8	12.9	19.3	7.1	6.2	8
05	16.7	12.4	21.7	7.4	5.9	9
06	17.6	13.9	21.4	8.1	6.6	9
07	15.2 8.9	10.7	19.8 14.9	7.3 4.2	5.3	9
08 09	10.3	2.9 4.1	16.1	5.6	1.5 2.3	8
10	15.0	14.9	15.2	8.3	8.6	8
11	17.0	16.3	17.6	9.2	9.7	8
10: [14.2	12.3	16.1	8.0	7.3	8
	15.0	17.2	12.9	8.0	9.6	6
 V	15.8	15.3	16.3	8.7	8.7	8
	15.0	14.7	15.3	8.4	8.7	
11: [16.7	15.5	17.9	9.4	9.5	9
	18.5	17.2	19.8	9.9	10.3	g
 V	17.0	16.1	17.9	9.1	9.5 9.5	8
	15.6	16.5	14.7	8.2		7
12: I	16.2	15.2	17.2	8.8	9.1	8.
	17.7	16.4	19.1	9.4	9.5	9

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.

Source: Department of Commerce (Bureau of the Census).

Note: Based on data in millions of dollars. See Note, Table B-93.

TABLE B-95. Historical stock prices and yields, 1949-2003

				Co	ommon stock	prices ¹				Common s (Standard (perd	stock yields d & Poor's) ent) ⁵
		New York	Stock Excha	ange (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					179.48	15.23		6.59	15.48
1950 1951 1952 1953 1954		10.87 13.08 13.81 13.67 16.19					216.31 257.64 270.76 275.97 333.94	18.40 22.34 24.50 24.73 29.69		6.57 6.13 5.80 5.80 4.95	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	5.70 5.90 4.62 5.82 5.50 5.32
1965 1966 1967 1968	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	5.52 5.59 6.63 5.73 5.67 6.08
1970 1971 1972 1973	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	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, 2000-2012

		-	Cor	mmon stock pric	es ¹			(Standard	stock yields I & Poor's) ent) ⁴
Year or month		York Stock Excha (December 31, 2	(0002=5,000) ^{2,3}	exes	Dow Jones industrial	Standard & Poor's composite index	Nasdaq composite index (Feb. 5,	Dividend- price ratio ⁵	Earnings- price ratio ⁶
	Composite	Financial	Energy	care	average ²	(1941–43=10) ²	1971=100) ²	Idlio	Idlio
2000 2001 2002 2003	6,805.89 6,397.85 5,578.89 5.447.46	5,583.00	5,273.90	5,288.67	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
2004	6,612.62	6,822.18	6,952.36	5,924.80	10,317.39	1,130.65	1,986.53	1.72	4.89
2005	7,349.00 8,357.99 9,648.82 8,036.88 6,091.02	7,383.70 8,654.40 9,321.39 6,278.38 3,987.04	9,377.84 11,206.94 13,339.99 13,258.42 10,020.30	6,283.96 6,685.06 7,191.79 6,171.19 5,456.63	10,547.67 11,408.67 13,169.98 11,252.62 8,876.15	1,207.23 1,310.46 1,477.19 1,220.04 948.05	2,099.32 2,263.41 2,578.47 2,161.65 1,845.38	1.83 1.87 1.86 2.37 2.40	5.36 5.78 5.29 3.54 1.86
2010 2011 2012	7,230.43 7,871.41 8,011.65	4,744.05 4,641.01 4,616.63	10,943.85 12,880.35 12,512.32	6,230.62 6,847.80 7,503.05	10,662.80 11,966.36 12,967.08	1,139.97 1,267.64 1,379.35	2,349.89 2,677.44 2,965.56	1.98 2.05 2.24	6.04 6.77
2009: Jan	5,477.14 5,051.42 4,739.72 5,338.39 5,823.10 5,985.64 6,026.55 6,577.18 6,839.88 6,986.35 7,079.38 7,167.51	3,337.14 2,823.74 2,633.65 3,313.47 3,819.95 3,924.19 4,000.66 4,646.60 4,844.93 4,918.07 4,848.04 4,734.07	9,295.97 8,785.04 8,266.81 8,839.95 9,848.66 10,189.64 9,765.09 10,295.91 10,791.73 11,342.57 11,486.95 11,335.23	5,256.13 5,106.78 4,596.81 4,771.71 5,051.78 5,224.16 5,410.22 5,706.96 5,838.22 5,931.28 6,155.21 6,430.25	8,396.20 7,690.50 7,235.47 7,992.12 8,398.37 8,593.00 8,679.75 9,375.06 9,634.97 9,857.34 10,227.55 10,433.44	865.58 805.23 757.13 848.15 902.41 926.12 935.82 1,009.72 1,044.55 1,067.66 1,088.07 1,110.38	1,537.20 1,485.98 1,432.23 1,641.15 1,726.08 1,873.84 1,997.16 2,084.75 2,122.85 2,143.53 2,220.60	3.01 3.07 2.92 2.60 2.41 2.35 2.31 2.12 2.06 2.02 1.99 1.95	.86
2010: Jan	7,257.37 6,958.36 7,349.86 7,607.49 7,010.08 6,767.75 6,814.61 6,922.30 7,149.32 7,482.15 7,608.40 7,837.43	4,795.75 4,567.29 4,942.17 5,187.03 4,689.81 4,484.05 4,553.76 4,588.87 4,694.66 4,778.71 4,770.65 4,875.84	11,548.08 10,840.96 11,194.52 11,690.25 10,491.24 9,960.54 10,007.16 10,186.03 10,423.43 11,164.11 11,639.37 12,180.49	6,523.83 6,320.43 6,453.81 6,391.99 5,929.68 5,838.56 5,867.77 5,939.69 6,208.29 6,456.56 6,389.44 6,447.34	10,471.24 10,214.51 10,677.52 11,052.15 10,500.19 10,159.27 10,222.24 10,350.40 10,598.07 11,044.49 11,198.31 11,465.26	1,123.58 1,089.16 1,152.06 1,197.32 1,125.06 1,083.36 1,079.80 1,087.28 1,122.08 1,171.58 1,198.89 1,241.53	2,267.77 2,194.44 2,362.24 2,475.72 2,319.24 2,235.23 2,210.27 2,205.28 2,298.35 2,441.30 2,530.99 2,631.56	1.92 2.00 1.90 1.84 1.98 2.09 2.10 2.10 2.06 1.97 1.94	6.51
2011: Jan Feb Mar Apr June July Aug Sept Oct Nov Dec Dec Mar	8,093.40 8,361.70 8,274.78 8,470.07 8,414.33 8,108.71 8,286.83 7,342.37 7,099.58 7,255.05 7,348.85 7,401.26	5,097.71 5,292.98 5,157.33 5,177.21 5,067.79 4,814.06 4,846.73 4,215.95 3,958.64 4,048.81 3,991.61 4,023.34	12,861.65 13,680.69 13,896.16 14,197.31 13,534.36 13,118.75 13,678.27 11,964.10 11,370.24 11,700.87 12,243.52 12,258.25	6,570.59 6,658.62 6,696.08 6,989.18 7,345.34 7,214.22 7,290.81 6,587.04 6,578.35 6,666.64 6,696.20 6,880.58	11,802.37 12,190.00 12,081.48 12,434.88 12,579.99 12,097.31 12,512.33 11,326.62 11,175.45 11,515.93 11,804.33 12,075.68	1,282.62 1,321.12 1,304.49 1,331.51 1,338.31 1,287.29 1,325.18 1,185.31 1,173.88 1,207.22 1,226.41	2,717.21 2,783.54 2,722.29 2,797.07 2,815.08 2,687.76 2,810.58 2,504.62 2,524.14 2,594.78 2,606.29 2,601.67	1.84 1.80 1.90 1.92 1.95 2.04 1.99 2.20 2.25 2.28 2.22 2.24	6.13 6.35 7.69
2012: Jan	7,737.68 8,071.44 8,166.75 8,043.14 7,713.74 7,555.41 7,766.83 8,011.67 8,279.78 8,295.68 8,129.90 8,367.74	4,295.28 4,593.42 4,740.40 4,664.43 4,393.13 4,290.69 4,409.41 4,545.72 4,794.62 4,855.25 4,804.71 5,012.50	12,782,96 13,318,47 13,196,85 12,499,31 11,789,32 11,377,92 11,945,87 12,575,01 12,954,45 12,812,78 12,343,98 12,550,75	7,122.69 7,208.35 7,305.10 7,363.86 7,200.82 7,204.25 7,493.65 7,617.84 7,830.79 7,988.93 7,757.04 7,943.33	12,550.89 12,889.05 13,079.47 13,030.75 12,721.08 12,544.90 12,814.10 13,134.90 13,418.50 13,380.65 12,896.44 13,144.18	1,300.58 1,352.49 1,389.24 1,386.43 1,341.27 1,325.48 1,359.78 1,403.44 1,443.42 1,437.82 1,394.51	2,743.80 2,928.98 3,035.92 3,035.10 2,900.41 2,850.35 2,920.11 3,032.67 3,136.80 3,060.26 2,941.02 3,003.79	2.17 2.11 2.09 2.20 2.31 2.38 2.33 2.26 2.21 2.24 2.33 2.28	6.29

Sources: New York Stock Exchange, Dow Jones & Co., Inc., Standard & Poor's, and Nasdaq Stock Market.

<sup>Averages of daily closing prices.

Includes stocks as follows: for NYSE, all stocks listed (in 2012, over 2,900); for Dow Jones industrial average, 30 stocks; for Standard & Poor's (S&P) composite index, 500 stocks; and for Nasdaq composite index, in 2012, over 2,400.

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.

Asserted as the day of the stock of the stock in the S&P composite index.</sup>

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. Real farm income, 1950-2012

[Billions of chained (2005) dollars]

			-					
			Inc	come of farm oper	ators from farmin	g ¹		
			Gross far	m income				
Year			Value of farm se	ector production			Production	Net
	Total ²	Total	Crops ^{3, 4}	Livestock ⁴	Forestry and services	Direct Government payments	expenses	farm income
1950	243.4 244.8 236.3 212.9 209.2 202.0 198.0 214.6 206.3 207.2 215.3 221.8 216.0 233.4 244.1 239.0 235.2 243.9 241.6 243.0 245.0 247.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 249.0 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289.6 289.6 289.6 289.6 289.6 289.6 289.6 289.6 289.6 289.6 289.6 289.6 289.6 289.6 289.6 289.6 289.6 28	90.2 90.2 90.7 95.9 87.5 88.3 86.0 276.9 82.7 84.0 84.2 84.0 89.3 93.0 85.9 85.9 85.1 84.3 91.6 150.0 136.1 150.0 152.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 150.1 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125.2 145.5 162.5 147.1 134.6 127.0 121.4 120.3 111.8 112.2 116.9 117.3 119.9 124.6 117.3 119.9 124.6 117.3 119.9 124.6 117.3 119.9 124.6 117.3 119.9 124.6 117.3 119.9 124.6 117.3 119.9 124.6 117.3 119.9 124.6 113.8 117.5 112.3 107.5 112.3 107.5 112.3 110.7	10.1 10.6 11.3 11.4 11.1 11.2 10.9 11.0 11.5 12.3 12.6 13.0 13.0 13.2 13.7 14.2 14.4 14.7 15.3 15.2 15.6 15.6 16.0 16.2 27.4 24.6 26.2 22.4 24.6 26.2 27.9 28.8 33.0 16.3 17.7 21.1 16.3 17.4 21.7 22.7 21.1 21.7 22.7 22.7 21.1 22.7 22.7	1.9 1.8 1.7 1.3 1.6 1.4 1.7 1.3 3.2 5.7 6.0 3.7 3.8 7.9 9.2 8.8 1.1 12.3 16.0 15.7 16.4 15.3 12.3 12.3 12.3 12.3 12.3 12.3 12.3 12	133.0 142.9 142.6 132.7 133.5 133.8 132.4 133.5 142.0 148.0 147.0 151.8 158.6 163.8 162.4 168.7 178.0 180.6 179.3 182.1 182.6 184.2 193.8 229.3 231.2 223.3 232.8 243.2 255.3 281.4 266.5 252.7 241.9 252.7 241.9 252.7 262.9 262.9 262.9 263.6 263.6 263.6 263.6 263.6 263.6 263.6 263.6 263.6 263.6 263.6 263.6 263.6 263.6 263.6 263.6 263.6 263.6 263.6 263.6 263.6 263.6 263.6 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1999	270.5 272.4 275.4 250.1 274.8 304.7 298.5 281.1 319.6 347.9 313.5	245.8 246.2 250.7 236.6 257.3 291.3 274.1 265.8 308.4 336.6 302.3	106.8 107.0 104.7 106.2 115.3 129.3 114.4 115.0 142.2 168.6 153.9	109.6 111.7 117.2 101.4 111.5 128.4 126.5 115.6 130.3 129.3 109.4	29.3 27.5 28.7 29.1 30.4 33.6 33.2 35.2 35.9 38.7 39.0	24.8 26.2 24.7 13.5 17.6 13.4 24.4 15.3 11.2 11.3	215.6 215.3 214.9 207.6 210.1 214.3 219.7 225.4 253.7 269.5 255.9	54.5 57.7 60.9 42.8 64.8 90.3 78.8 55.6 65.8 78.8 57.8
2010 2011 2012 <i>P</i>	329.4 377.9 392.2	318.2 368.8 382.6	155.7 180.7 188.7	127.0 145.2 142.9	35.6 42.9 50.9	11.2 9.2 9.6	257.0 273.9 286.0	72. 104. 106.

Note: Data for 2012 are forecasts.

<sup>The GDP chain-type price index is used to convert the current-dollar statistics to 2005=100 equivalents.

Value of production, Government payments, other farm-related cash income, and nonmoney income produced by farms including imputed rent of farm dwellings.

Torp receipts include proceeds received from commodities placed under Commodity Credit Corporation loans.

The value of production equates to the sum of cash receipts, home consumption, and the value of the change in inventories.</sup>

TABLE B-98. Farm business balance sheet, 1960-2012

[Billions of chained (2005) dollars]

				Assets					Cla	ims	
			Р	hysical asset	S						
End of year	Total			Non-rea	al estate		Financial	Total	Real	Non-real	Farm
	assets	Real estate	Livestock and poultry ¹	Machinery and motor vehicles	Crops stored ²	Purchased inputs ³	assets	claims	estate debt ⁴	estate debt ⁵	equity
1960 1961 1962 1963 1963 1964 1965 1966 1967 1967 1968	936.4 964.6 989.5 1,019.7 1,042.6 1,107.1 1,141.0 1,163.9 1,166.8 1,157.9	662.1 685.6 705.3 738.0 768.2 809.9 834.8 855.8 859.3	83.8 87.2 90.7 82.2 73.9 88.2 92.5 89.1 91.9 98.7	102.4 102.3 104.3 105.6 108.5 112.5 117.3 124.4 125.9 123.8	34.2 34.4 34.2 38.4 35.8 39.6 39.5 37.9 33.5 35.8		53.9 55.0 55.1 55.4 56.3 57.1 56.8 56.6 56.2 55.2	936.4 964.6 989.5 1,019.7 1,042.6 1,107.1 1,141.0 1,163.9 1,166.8 1,157.9	60.7 65.4 70.7 77.7 86.0 94.8 100.9 107.0 112.2 114.2	59.8 62.8 69.0 75.6 78.1 84.7 90.3 92.7 87.1 86.5	815.8 836.4 849.8 866.4 878.5 927.6 949.7 964.3 967.5
1970 1971 1972 1973 1973 1974 ⁶ 1975 1976 1977 1977	1,145.1 1,180.3 1,274.6 1,486.8 1,463.4 1,519.9 1,662.4 1,723.7 1,922.9 2,087.8	831.3 850.9 911.1 1,059.8 1,093.2 1,141.3 1,284.8 1,347.5 1,487.8	97.4 106.6 126.3 150.5 80.0 87.4 81.7 84.5 123.9 140.1	124.7 126.9 129.9 140.9 157.9 170.9 178.1 183.4 194.9 209.8	35.7 38.9 48.6 76.0 73.4 61.1 57.9 54.1 58.8 68.2		56.0 56.9 58.7 59.6 58.9 59.3 59.9 54.3 57.4 58.0	1,145.1 1,180.3 1,274.6 1,486.8 1,463.4 1,519.9 1,662.4 1,723.7 1,922.9 2,087.8	111.9 112.7 117.7 125.0 128.9 130.2 136.4 147.7 156.8 173.0	87.3 93.9 100.2 112.2 114.4 118.3 128.5 139.1 149.4 163.8	945.9 973.7 1,056.7 1,249.6 1,220.1 1,271.4 1,397.4 1,436.9 1,616.6 1,751.1
1980 1981 1982 1983 1984 1985 1986 1987 1987	2,092.2 1,907.1 1,733.8 1,662.4 1,499.5 1,257.8 1,145.0 1,167.1 1,176.1	1,637.1 1,501.3 1,351.1 1,305.6 1,105.2 950.3 860.2 869.6 868.5 862.5	126.8 102.3 95.5 85.9 82.7 75.0 75.7 89.4 92.8	203.8 193.3 187.1 176.3 210.2 139.5 125.3 121.4 120.8 120.9	68.7 56.4 46.6 41.2 43.6 37.1 25.8 27.5 35.3 34.4	3.3 2.0 3.3 4.9 5.2 3.7	55.8 53.8 53.6 53.5 54.4 53.9 54.7 54.2 53.6 52.9	2,092.2 1,907.1 1,733.8 1,662.4 1,499.5 1,257.8 1,145.0 1,167.1 1,176.1 1,169.5	178.3 179.5 174.3 170.0 169.3 152.5 133.4 117.0 105.6 98.8	161.4 160.1 157.1 152.7 146.0 126.6 106.6 96.7 92.9 89.5	1,752.5 1,567.5 1,402.4 1,339.8 1,184.1 978.8 905.1 953.4 977.5 981.2
1990 1991 1992 1993 1994 1995 1996 1997 1998	1,163.1 1,128.2 1,132.8 1,161.3 1,169.4 1,183.5 1,206.1 1,242.3 1,265.9	856.7 835.0 836.5 865.5 880.9 907.4 925.4 955.0 982.0 1,021.4	98.0 91.0 92.6 93.0 85.0 70.8 72.5 79.3 74.1 84.3	119.4 114.8 110.7 109.1 108.5 107.3 105.9 104.9 105.0 103.5	32.1 29.7 31.6 29.8 29.1 33.6 38.1 38.6 35.0 32.6	3.9 3.5 5.2 4.8 6.3 4.1 5.2 5.8 5.9	53.0 54.2 56.2 59.2 59.5 60.1 58.9 58.7 64.0 65.1	1,163.1 1,128.2 1,132.8 1,161.3 1,169.4 1,183.5 1,206.1 1,242.3 1,265.9 1,311.4	93.6 90.1 88.6 87.4 87.5 87.9 89.5 92.8 97.1 100.4	87.8 86.1 83.1 84.1 86.3 87.3 89.2 92.6 95.3 92.7	981.7 951.9 961.1 989.8 995.6 1,008.3 1,027.4 1,056.8 1,073.5 1,118.3
2000 2001 2002 2003 2004 2005 2006 2007 2007 2008	1,356.1 1,384.2 1,366.4 1,469.6 1,640.8 1,779.4 1,863.3 1,934.7 1,863.7 1,875.6	1,066.7 1,098.0 1,083.3 1,181.4 1,348.6 1,487.0 1,574.9 1,648.7 1,568.6	86.5 86.6 82.0 83.4 82.1 81.1 78.2 75.9 74.2	101.6 102.3 104.3 106.5 111.4 113.1 110.6 108.0 113.6	31.5 27.8 25.1 26.0 25.2 24.3 22.0 21.4 25.4 30.0	5.5 4.6 6.1 6.0 5.9 6.5 6.3 6.6 6.6	64.3 64.9 65.6 66.3 67.7 67.5 71.3 74.2 75.1	1,356.1 1,384.2 1,366.4 1,469.6 1,640.8 1,779.4 1,863.3 1,934.7 1,863.7 1,875.6	95.5 97.6 103.5 88.4 98.8 104.8 104.7 106.1 124.0 119.9	89.3 90.5 88.7 86.1 89.1 91.6 92.5 95.4 98.5 100.9	1,171.4 1,196.1 1,174.2 1,295.2 1,452.8 1,583.0 1,666.1 1,733.2 1,641.1 1,654.8
2010 2011 2012 <i>P</i>	1,973.7 2,102.8 2,216.9	1,670.0 1,794.7 1,906.0	73.3 71.6 70.4	115.3 117.8 120.5	32.1 31.1 30.2	6.6 6.7 6.9	76.5 80.9 82.9	1,973.7 2,102.8 2,216.9	127.2 128.9 126.1	99.6 95.3 100.7	1,837.1 1,878.7 1,990.1

¹ Excludes commercial broilers; excludes horses and mules; excludes turkeys beginning with 1986 data.

Note: Data exclude operator and other dwellings.

Data for 2012 are forecasts.

Non-Commodity Credit Corporation (CCC) crops held on farms plus value above loan rate for crops held under CCC.

Includes fertilizer, chemicals, fuels, parts, feed, seed, and other supplies.

Includes CCC storage and drying facilities loans.

Does not include CCC crop loans.

⁶ Beginning with 1974 data, farms are defined as places with sales of \$1,000 or more annually.

TABLE B-99. Farm output and productivity indexes, 1950-2009

[2005=100]

		Farm o	output		Productivity	y indicators
Year	Total	Livestock and products	Crops	Farm-related output	Farm output per unit of total input	Farm output per unit of labor input
1950 1951 1951 1952 1953 1953 1954 1955 1956 1957 1960 1961 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1977 1978 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1979 1978 1979 1979 1978 1979 1978 1979 1979 1979 1979 1978 1978 1979 1979 1978 1979 1979 1978 1979 1979 1978 1979 1978 1978 1979 1979 1978 1978 1979 1978 1979 1978 1979 1978 1979 1978 1979 1978 1978 1979 1978 1978 1979 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1978 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988 1988	39 40 411 422 433 444 433 446 467 49 550 552 551 533 544 555 60 60 628 628 627 637 647 69 774 775 76 772 777	### Products ### 49 50 50 50 50 52 54 56 56 58 59 62 64 65 67 67 67 67 67 67 70 68 71 72 73 75 75 75 76 76 78 79 80 80	35 36 38 38 38 38 38 44 41 42 44 45 46 49 50 50 52 49 55 55 55 55 57 77 77 78 80 60 77 77 77 78 80 60 75 79 79 79 79 79 79 79 79 79 79 79 79 79	output 25 24 23 23 25 25 25 27 30 37 38 38 34 33 30 29 27 24 25 25 25 25 25 25 26 66 64 65 77 78 80	of total input 39 40 41 42 42 43 43 43 43 43 546 48 49 49 50 51 52 51 53 54 55 66 66 66 67 67 69 60 67 77 75 72 78	of labor input 10 11 11 11 12 12 12 13 14 15 17 17 19 20 20 20 21 21 22 23 25 28 28 28 29 30 33 34 35 36 37 40 41 41 43 42 45 50 54 55 55 55 55 55 55 55 55 55 55 55 55
1990	80 81 86 82 91 86 89 94 94 96	82 84 86 87 91 93 91 94 95 98	80 79 87 78 93 82 89 94 93 94	76 81 76 76 74 84 79 91 105 113	81 82 88 83 89 82 89 91 90 90	64 64 69 69 66 63 70 74 79 81
2001 2002 2003 2004 2005 2006 2007 2007 2008	97 95 97 101 100 99 102 103	97 99 100 98 100 102 103 103	95 91 95 104 100 95 102 104	110 106 99 104 100 106 92 88 84	95 94 97 102 100 101 99 104	90 88 93 101 100 105 106 110

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 feeding See Table B–100 for farm inputs

TABLE B-100. Farm input use, selected inputs, 1950-2012

	Far (m employn thousands	nent 1					Select	ed indexe	es of inpu	it use (20	05=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 ⁵	Dur- able equip- ment	Total	Hired labor	Self- em- ployed and unpaid family labor	Total	Farm Ori- gin ⁶	Energy and lubri- cants ⁷	Agri- cul- tural chemi- cals	Pur- chased serv- ices
1950 1951 1952 1953 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1963 1965 1965 1967 1968 1967 1968 1970 1971 1971 1977 1978 1977 1978 1979 1979 1978 1979 1988 1988 1999 1988 1988 1988 1989 1999 1988 1988 1989 1989 1980 1981 1982 1983 1984 1985 1986 1997 1998 1999 1991 1992 1993 1994 1995 1997 1997 1998 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 1999 2000 2001 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000 2000	9,283 8,653 8,653 8,653 7,719 7,783 7,719 7,783 6,966 6,666 6,666 6,565 5,984 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504 4,504	6,965 6,464 6,301 5,817 5,782 5,675 5,046 4,705 4,260 4,1621 4,260 4,135 3,997 3,700 3,585 3,245 2,974 2,843 3,036 2,974 2,843 2,727 2,665 2,664 2,702 2,588 2,347 2,410 2,320 2,241 1,930 1,740 1,777 1,725 1,709 1,640 1,777 1,725 1,709 1,640 1,777 1,725 1,709 1,640 1,777 1,725 1,709 1,640 1,777 1,725 1,709 1,640 1,777 1,725 1,709 1,640 1,777 1,725 1,709 1,640 1,777 1,725 1,709 1,640 1,777 1,725 1,709 1,640 1,777 1,725 1,709 1,640 1,777 1,725 1,730 1,540 1,740 1,740 1,740 1,740 1,740 1,740 1,740 1,740 1,741 1,730 1,640 1,741 1,730 1,641 1,741 1,730 1,541 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741 1,741	2,318 2,189 2,140 2,087 2,111 2,044 1,916 1,920 1,962 1,944 1,895 1,855 1,855 1,855 1,855 1,855 1,207 1,224 1,203 1,267 1,233 1,267 1,233 1,267 1,233 1,267 1,233 1,267 1,233 1,267 1,203 1,267 1,233 1,267 1,203 1,268 1,203 1,268 1,203 1,268 1,203 1,272 1,229 1,203 1,256 1,193 1,267 1,272 1,272 1,272 1,272 1,272 1,272 1,272 1,272 1,272 1,272 1,272 1,272 1,272 1,272 1,272 1,272 1,273 1,276 1,276 1,277 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377 1,377	344 349 348 340 324 324 324 324 325 298 298 298 298 298 298 298 298	999 1000 1000 1000 1000 1000 1000 1000	120 122 124 125 126 126 127 123 123 123 123 123 124 125 125 127 129 129 120 121 121 123 123 124 125 125 127 127 129 129 129 129 129 129 129 129 129 129	84 94 102 107 113 115 115 113 115 1115 1116 115 117 117 118 119 119 119 119 119 119 119 119 119	388 373 373 365 3500 3500 3500 3500 3500 3500 3500	3100 299 292 284 288 263 324 225 277 2276 255 155 155 155 155 155 155 155 155 155	435 417 408 389 388 378 305 280 270 272 255 243 2216 218 219 219 210 210 211 211 211 212 213 214 215 216 217 217 217 218 218 219 219 219 219 219 219 219 219 219 219	50 522 522 522 522 522 522 520 524 526 526 526 526 526 526 526 526 526 526	522 544 533 554 552 557 663 3567 772 766 633 677 772 770 776 677 777 811 822 833 837 868 839 96 96 99 91 944 947 847 889 99 92 95 95 95 95 95 95 95 95 95 95 95 95 95	81 84 88 88 90 92 92 90 88 90 93 93 90 90 90 91 90 91 91 91 92 93 93 94 95 97 98 99 99 90 90 90 90 90 90 90 90	30 28 82 28 28 26 27 29 27 28 32 33 33 35 36 39 41 46 49 39 942 27 75 63 37 70 64 66 66 69 97 72 77 82 82 66 69 91 93 39 83 55 99 97 100 88	516 556 559 555 557 561 674 711 700 687 667 667 668 669 670 73 73 73 73 73 73 73 73 73 73 73 73 75 81 81 81 81 81 81 81 81 81 95 85 86 87 87 87 88 88 89 89 89 80 80 80 80 80 80 80 80 80 80 80 80 80
2007 2008 2009 2010	1,832 1,786 1,757 1,756	1,082 1,054 1,018 991	750 732 739 765	322 327 319 322	103 99 100	99 101 101	102 104 107	96 94 89	104 99 98	91 90 84	108 101 103	105 97 98	108 98 119	103 104 106	112 105 101
2010 2011 2012 P	1,764	1,013	751	311 326											

¹ Persons involved in farmwork.

² Data from Current Population Survey (CPS) conducted by the Department of Commerce, Census Bureau, for the Department of Labor, Bureau of Labor

 ³ Datas
 4 Acreage harvested plus acreages in fruits, tree nuts, and vegetables and minor crops. Includes double-cropping.
 5 Consists of durable equipment, service buildings, land, and inventories.

⁶ Consists of seed, feed, and purchased livestock.
7 Consists of petroleum fuels, natural gas, electricity, hydraulic fluids, and lubricants.

TABLE B-101. Agricultural price indexes and farm real estate value, 1975-2012

[1990-92=100, except as noted]

	Pric	es receive farmers	d by					Prices p	aid by fa	rmers					Adden-
				All com-				Prod	duction it	ems					dum: Average
Year or month	All farm prod- ucts	Crops	Live- stock and prod- ucts	modities, serv- ices, interest, taxes, and wage rates 1	Total ²	Feed	Live- stock and poul- try ³	Fertil- izer	Agri- cul- tural chemi- cals	Fuels	Farm ma- chin- ery	Farm serv- ices	Rent	Wage rates	farm real estate value per acre (dollars) ⁴
1975 1976 1977 1978	73 75 73 83 94	88 87 83 89 98	62 64 64 78 90	47 50 53 58 66	55 59 61 67 76	83 83 82 80 89	39 47 48 65 88	87 74 72 72 77	72 78 71 66 67	40 43 46 48 61	38 43 47 51 56	5 5 6	18 52 57 50 66	44 48 51 55 60	340 397 474 531 628
1980	98 100 94 98 101 91 87 89 99	107 111 98 108 111 98 87 86 104 109	89 90 88 91 86 88 91 93	75 82 86 86 89 86 85 87 91	85 92 94 92 94 91 86 87 90	98 110 99 107 112 95 88 83 104 110	85 80 78 76 73 74 73 85 91	96 104 105 100 103 98 90 86 94	71 77 83 87 90 90 89 87 89	86 98 97 94 93 76 76 77 83	63 70 76 81 85 85 83 85 89	8 8 8 8 8 8	81 89 86 82 86 85 83 84 85	65 70 74 76 77 78 81 85 87	737 819 823 788 801 713 640 599 632 668
1990 1991 1992 1993 1994 1995 1996 1997 1998	104 100 98 101 100 102 112 107 102 96	103 101 101 102 105 112 127 115 107 97	105 99 97 100 95 92 99 98 97 95	99 100 101 104 106 109 115 118 115	99 100 101 104 106 108 115 119 113	103 98 99 102 106 103 129 125 111 100	102 102 96 104 94 82 75 94 88	97 103 100 96 105 121 125 121 112 105	95 101 103 109 112 116 119 121 122 121	100 104 96 93 89 102 106 84 94	96 100 104 107 113 120 125 128 132 135	96 98 103 110 115 116 116 115 114	96 100 104 100 108 117 128 136 120 113	96 100 105 108 111 114 117 123 129 135	683 703 713 736 798 844 887 926 974
2000 2001 2002 2002 2003 2004 2005 2006 2007 2008 2009	96 102 98 106 118 114 115 136 149	96 99 105 110 115 110 120 142 169	97 106 90 103 122 119 111 130 130	119 123 124 128 134 142 150 161 183 178	115 120 119 124 132 140 148 160 190 182	102 109 112 114 121 117 124 149 194 186	110 111 102 109 128 138 134 131 124 115	110 123 108 124 140 164 176 216 392 275	120 121 119 121 121 123 128 129 139 149	129 121 115 140 165 216 239 264 344 229	139 144 148 151 162 173 182 191 209 222	118 120 120 125 127 133 139 146 146 156	110 117 120 123 126 129 141 147 165 184	140 146 153 157 160 165 171 177 183 188	1,090 1,150 1,210 1,270 1,340 1,610 1,830 2,010 2,170 2,170
2010 2011 2012	141 178 190	154 204 220	130 152 157	183 203 215	188 215 229	180 226 261	133 155 168	252 328 336	144 145 153	284 362 358	230 244 256	161 164 168	190 205 212	189 192 199	2,200 2,390 2,650
2011: Jan Feb Mar Apr June July Aug Sept Mar May June July Aug Sept Mar May June July Aug Sept Got. Nov Dec Sulp Apr Apr Apr Apr Apr May June July Aug Sept Oct Nov Nov Dec Sept Oct Nov Dec Sept Oct Nov Dec Sept Oct Nov	166 1711 173 176 178 180 183 184 180 185 184 179 189 181 178 178 193 193 209 206	189 200 198 201 201 201 201 204 204 204 206 206 209 214 228 231 224 237 238 228	137 144 152 156 152 153 155 158 157 157 156 158 160 152 150 155 156 163 168	195 197 197 201 203 204 205 205 205 205 206 206 210 211 213 215 214 214 214 218 218 218	204 207 212 215 216 215 217 218 217 218 221 223 227 228 228 229 228 229 228 229 231 233 233 233 233 233	204 2112 212 223 230 232 233 239 241 227 225 226 229 235 246 253 263 287 290 286 287	151 155 159 160 149 146 156 165 168 178 186 176 172 169 148 151 156 163 163	305 304 318 326 327 328 333 331 332 342 349 346 347 333 333 345 348 329 329 331	144 145 145 144 144 143 144 145 146 148 147 148 152 152 152 152 152 154 153 155 155	320 335 363 380 383 373 371 368 368 369 359 356 364 380 359 359 335 335 335 335 335 335 335 335	237 238 239 240 242 242 243 245 257 251 251 251 252 252 257 258 258 258 258 258 258 258	163 163 164 163 164 165 165 165 164 164 167 167 167 168 169 169 169 168 168	205 205 205 205 205 205 205 205 205 205	195 195 195 189 189 189 189 193 193 193 193 199 199 197 197 197 196 196 203 203 203	

Source: Department of Agriculture (National Agricultural Statistics Service).

Includes items used for family living, not shown separately.
 Includes other production items, not shown separately.
 Includes cattle, hogs, dairy, and poultry.
 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, January 1 for 1990–2009, and annual average for 2010-2012.

TABLE B-102. U.S. exports and imports of agricultural commodities, 1951-2012 [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
1951 1952 1953 1954 1955 1955 1956 1957 1958	4.0 3.4 2.8 3.1 3.2 4.2 4.5 3.9 4.0	0.3 .3 .2 .3 .4 .3 .5 .6	1.1 1.1 .7 .5 .6 1.0 1.0	0.3 .2 .2 .3 .4 .5 .5 .4	1.1 .9 .5 .8 .5 .7 1.0 .7	0.3 .2 .3 .3 .4 .3 .4	0.5 .3 .4 .5 .6 .7 .5	5.2 4.5 4.2 4.0 4.0 4.0 3.9 4.1	0.2 .2 .2 .2 .2 .2 .2 .2 .2	1.1 .7 .6 .5 .5 .4 .5 .7	1.4 1.5 1.5 1.4 1.4 1.2	0.2 .2 .2 .3 .2 .2 .2 .2	-1.1 -1.1 -1.3 9 8 .2 .6 *
1960 1961 1962 1963 1964 1965 1966 1967 1967	4.8 5.0 5.6 6.3 6.2 6.4 6.2 5.9	.5 .8 .9 1.1 1.3 1.1 .9	1.2 1.4 1.3 1.5 1.7 1.4 1.8 1.5 1.4	.6 .6 .7 .8 1.0 1.2 1.3 1.3	1.0 .9 .5 .6 .7 .5 .4 .5 .5	.4 .4 .4 .4 .5 .5	.6 .6 .7 .8 .8 .7 .7	3.8 3.7 3.9 4.0 4.1 4.1 4.5 4.4 5.0	.2 .2 .3 .3 .3 .4 .5 .6	.6 .7 .9 .9 .9 1.2 1.1 1.3	1.0 1.0 1.0 1.2 1.1 1.1 1.2 .9	.2 .2 .2 .2 .1 .1 .2 .2	1.0 1.3 1.2 1.6 2.3 2.1 2.4 1.9 1.2
1970	7.2 7.7 9.4 17.6 21.9 23.0 23.6 29.4 34.7	1.1 1.0 1.5 3.6 4.7 5.2 6.0 4.9 5.9 7.7	1.4 1.3 1.8 4.7 5.4 6.1 4.7 3.6 5.5 6.3	1.9 2.2 2.5 4.4 5.8 4.6 5.2 6.8 8.4 9.4	.4 .6 .5 .9 1.4 1.0 1.1 1.5 2.2	.5 .5 .7 .7 .8 .9 .9 1.1 1.4	.9 1.0 1.1 1.6 1.8 1.7 2.4 2.7 3.1 3.8	5.7 5.8 6.4 8.4 10.2 9.3 11.0 13.4 14.8 16.7	.7 .8 1.0 1.0 1.2 1.5 1.8 2.0	1.6 1.9 2.6 2.2 1.8 2.4 2.4 3.1 3.9	1.2 1.3 1.7 1.6 1.7 2.9 4.3 4.1	.3 .2 .3 .5 .5 .6 1.0 1.4	1.5 1.9 2.9 9.3 11.7 12.6 12.0 10.2 14.6 18.0
1980 1981 1982 1983 1984 1985 1986 1987 1987	41.2 43.3 36.6 36.1 37.8 29.0 26.2 28.7 37.1 40.0	9.8 9.4 6.4 7.3 8.1 6.0 3.1 3.8 5.9 7.7	7.9 9.6 7.9 7.4 7.5 4.5 3.9 3.8 5.9 7.1	10.0 10.1 9.8 9.4 9.1 6.4 7.3 7.2 8.5 6.4	2.9 2.3 2.0 1.8 2.4 1.6 .8 1.6 2.0	1.3 1.5 1.5 1.5 1.5 1.5 1.2 1.1 1.3	3.8 4.0 3.8 4.3 4.2 4.6 5.2 6.5	17.4 16.8 15.2 16.6 19.3 20.0 21.4 20.4 20.9 21.9	2.0 2.5 2.8 2.9 3.7 4.1 4.2 4.3 4.4	3.8 3.5 3.8 4.0 4.2 4.4 4.8 5.1	4.2 2.9 2.8 3.3 4.6 2.9 2.5 2.4	.9 .7 .8 1.1 1.4 1.1 1.2 1.0	23.9 26.6 21.4 19.5 18.5 9.1 4.8 8.3 16.2 18.2
1990 1991 1992 1993 1994 1995 1996 1997 1998	39.5 39.4 43.2 43.0 46.2 56.2 60.4 57.1 51.8 48.4	7.0 5.7 5.8 5.0 4.7 8.1 9.4 6.0 5.0	4.8 4.2 5.4 5.7 5.3 6.7 7.4 5.3 5.0 4.7	5.7 6.4 7.3 7.2 8.9 10.8 12.1 9.5 8.1	2.8 2.5 2.0 1.6 2.6 3.7 2.7 2.7 2.6 1.0	1.4 1.6 1.3 1.3 1.4 1.4 1.5	6.6 7.0 7.9 8.0 9.2 10.9 11.1 11.3 10.6	22.9 22.9 24.8 25.1 27.0 30.3 33.5 36.1 36.9 37.7	5.5 5.4 5.5 5.6 6.0 6.5 7.5 7.8 8.4 9.3	5.7 5.5 5.7 5.9 5.8 6.0 6.1 6.5 6.9 7.3	1.9 1.7 1.5 2.5 3.3 2.8 3.9 3.4 2.9	1.1 1.1 1.0 1.0 1.1 1.4 1.5 1.7	16.6 16.5 18.5 17.9 19.1 26.0 26.9 21.0 14.9 10.7
2000	51.3 53.7 53.1 59.4 61.4 63.2 71.0 90.0 114.8 98.5	5.2 5.5 5.4 6.4 7.7 10.9 14.9 9.4	4.3 4.2 4.5 5.0 6.3 5.7 5.5 9.9 13.6 7.7	8.6 9.2 9.6 11.7 10.4 10.2 11.3 15.6 23.7 24.1 27.2	1.9 2.2 2.0 3.4 4.2 3.9 4.5 4.6 4.8 3.3	1.2 1.3 1.0 1.0 1.0 1.1 1.2 1.2 1.2	11.6 12.4 11.1 12.2 10.4 12.2 13.5 17.2 21.3 18.0 22.3	39.0 39.4 41.9 47.4 54.0 59.3 65.3 71.9 80.5 71.7	9.3 9.7 10.4 11.6 13.1 14.4 15.8 18.1 19.5 18.9 21.3	8.4 9.2 9.0 8.9 10.6 11.5 12.4 12.0 10.1	2.7 1.7 2.0 2.3 3.0 3.3 3.8 4.4 4.1	1.4 1.5 1.8 2.4 2.5 2.8 2.7 2.7 3.3 3.5	12.3 14.3 11.2 12.0 7.4 3.9 5.6 18.1 34.3 26.8
2011 Jan-Nov: 2011 2012	136.4 124.6 128.3	14.7 13.4 9.4	13.4 12.6 9.5	26.1 23.6 30.9	7.8 5.8	1.1 1.0 1.0	27.8 25.4 26.6	98.9 90.5 94.6	24.0 21.9 22.6	12.3 11.2 12.4	7.3 6.5	4.7 4.3 3.7	37.4 34.1 33.7

^{*} Less than \$50 million.

Note: Data derived from official estimates released by the Department of Commerce, Census Bureau. 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.

¹ Total includes items not shown separately.
2 Rice, wheat, and wheat flour.
3 Includes fruit, nut, and vegetable preparations and fruit juices.
4 In 1989, the World Customs Organization established new trade codes that harmonized reporting of commodity trade around the world. Significant changes were made in individual commodity groupings. Those changes are reflected in the data from 1989 forward.

INTERNATIONAL STATISTICS

TABLE B-103. U.S. international transactions, 1953-2012

[Millions of dollars; quarterly data seasonally adjusted. Credits (+), debits (-)]

-		Goods ¹			Services			Income re	eceipts and	navments		
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
1953 1954 1955 1956 1957 1958 1959	12,412 12,929 14,424 17,556 19,562 16,414 16,458	-10,975 -10,353 -11,527 -12,803 -13,291 -12,952 -15,310	1,437 2,576 2,897 4,753 6,271 3,462 1,148	1,753 902 -113 -221 -423 -849 -831	-238 -269 -297 -361 -189 -633 -821	307 305 299 447 482 486 573	3,259 3,514 2,786 4,618 6,141 2,466 69	2,736 2,929 3,406 3,837 4,180 3,790 4,132	-624 -582 -676 -735 -796 -825 -1,061	2,112 2,347 2,730 3,102 3,384 2,965 3,071	-6,657 -5,642 -5,086 -4,990 -4,763 -4,647 -4,422	-1,286 219 430 2,730 4,762 784 -1,282
1960 1961 1962 1963 1964 1965 1966 1967 1968	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 1971 1972 1973 1974 1975 1976 1977 1978	42,469 43,319 49,381 71,410 98,306 107,088 114,745 120,816 142,075 184,439	-39,866 -45,579 -55,797 -70,499 -103,811 -98,185 -124,228 -151,907 -176,002 -212,007	2,603 -2,260 -6,416 911 -5,505 8,903 -9,483 -31,091 -33,927 -27,568	-641 653 1,072 740 165 1,461 931 1,731 857 -1,313	-2,038 -2,345 -3,063 -3,158 -3,184 -2,812 -2,558 -3,565 -3,573 -2,935	2,330 2,649 2,965 3,406 4,231 4,854 5,027 5,680 6,879 7,251	2,254 -1,303 -5,443 1,900 -4,292 12,404 -6,082 -27,246 -29,763 -24,565	11,748 12,707 14,765 21,808 27,587 25,351 29,375 32,354 42,088 63,834	-5,515 -5,435 -6,572 -9,655 -12,084 -12,564 -13,311 -14,217 -21,680 -32,961	6,233 7,272 8,192 12,153 15,503 12,787 16,063 18,137 20,408 30,873	-6,156 -7,402 -8,544 -6,913 -9,249 -7,075 -5,686 -5,226 -5,788 -6,593	2,331 -1,433 -5,795 7,140 1,962 18,116 4,295 -14,335 -15,143 -285
1981 1982 1983 1984 1985 1986 1987 1988	224,250 237,044 211,157 201,799 219,926 215,915 223,344 250,208 320,230 359,916	-249,750 -265,067 -247,642 -268,901 -332,418 -368,425 -409,765 -447,189 -477,665	-25,500 -28,023 -36,485 -67,102 -112,492 -122,173 -145,081 -159,557 -126,959 -117,749	-1,822 -844 112 -563 -2,547 -4,390 -5,181 -3,844 -6,320 -6,749	-997 144 -992 -4,227 -8,438 -9,798 -8,779 -8,010 -3,013 3,551	8,912 12,552 13,209 14,124 14,404 14,483 20,502 19,728 21,725 27,805	-19,407 -16,172 -24,156 -57,767 -109,073 -121,880 -138,538 -151,684 -114,566 -93,142	72,606 86,529 91,747 90,000 108,819 98,542 97,064 108,184 136,713 161,287	-42,532 -53,626 -56,583 -53,614 -73,756 -72,819 -81,571 -93,891 -118,026 -141,463	30,073 32,903 35,164 36,386 35,063 25,723 15,494 14,293 18,687 19,824	-8,349 -11,702 -16,544 -17,310 -20,335 -21,998 -24,132 -23,265 -25,274 -26,169	2,317 5,030 -5,536 -38,691 -94,344 -118,155 -147,177 -160,655 -121,153 -99,486
1990 1991 1992 1993 1994 1995 1996 1997	387,401 414,083 439,631 456,943 502,859 575,204 612,113 678,366 670,416 698,218	-498,438 -491,020 -536,528 -589,394 -668,690 -749,374 -803,113 -876,794 -918,637 -1,034,389	-111,037 -76,937 -96,897 -132,451 -165,831 -174,170 -191,000 -198,428 -248,221 -336,171	-7,599 -5,274 -1,448 1,385 2,570 4,600 5,385 4,968 5,220 -7,245	7,501 16,561 19,969 19,714 16,305 21,772 25,015 22,152 10,210 6,606	30,270 34,516 39,164 41,041 48,463 51,414 56,535 63,035 66,651 73,649	-80,864 -31,135 -39,212 -70,310 -98,493 -96,384 -104,065 -108,273 -166,140 -263,159	171,742 149,214 133,766 136,057 166,521 210,244 226,129 256,804 261,819 295,423	-143,192 -125,084 -109,531 -110,741 -149,375 -189,353 -203,811 -244,195 -257,554 -283,492	28,550 24,130 24,234 25,316 17,146 20,891 22,318 12,609 4,265 11,931	-26,654 9,904 -36,636 -39,812 -40,265 -38,074 -43,017 -45,062 -53,187 -50,428	-78,968 2,898 -51,613 -84,806 -121,612 -113,567 -124,764 -140,726 -215,062 -301,656
2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2009 2009 2009 2009 2009 2009	784,781 731,189 697,439 729,816 821,986 911,686 1,039,406 1,163,957 1,307,499 1,069,733	-1,230,568 -1,152,464 -1,171,930 -1,270,225 -1,485,492 -1,692,416 -1,875,095 -1,982,843 -2,137,608 -1,575,491	-445,787 -421,276 -474,491 -540,409 -663,507 -780,730 -835,689 -818,886 -830,109 -505,758	-6,488 -8,324 -12,719 -17,060 -17,359 -15,594 -11,743 -10,826 -13,600 -14,461	2,462 -3,389 -4,465 -12,451 -16,225 -14,549 -11,276 2,599 16,365 14,527	73,065 71,219 74,242 78,934 91,734 102,249 105,420 130,386 129,006 126,538	-376,749 -361,771 -417,432 -490,984 -605,356 -708,624 -753,288 -696,728 -698,338 -379,154	352,478 292,430 282,701 322,411 415,793 537,339 684,620 833,834 813,903 601,609	-333,300 -262,702 -257,526 -278,721 -350,712 -468,748 -640,438 -732,349 -666,814 -481,891	19,178 29,728 25,175 43,691 65,081 68,591 44,182 101,485 147,089 119,717	-58,767 -64,561 -64,990 -71,796 -88,243 -105,741 -91,515 -115,061 -125,885 -122,459	-416,338 -396,603 -457,248 -519,089 -628,519 -745,774 -800,621 -710,303 -677,135 -381,896
2010	1,288,882 1,497,406 360,917 372,160 382,161 382,167	-1,934,006 -2,235,819 -542,276 -559,344 -562,778 -571,421	-645,124 -738,413 -181,358 -187,184 -180,617 -189,254	-15,639 -11,564 -3,448 -3,000 -2,679 -2,437	21,257 31,339 6,063 8,038 9,431 7,805	144,769 158,758 41,518 40,598 39,044 37,600	-494,737 -559,880 -137,225 -141,549 -134,822 -146,286	676,282 744,621 180,781 189,499 187,449 186,891	-492,423 -517,614 -128,330 -133,290 -128,971 -127,022	183,859 227,007 52,451 56,209 58,478 59,869	-131,074 -133,053 -35,223 -33,777 -31,815 -32,240	-441,951 -465,926 -119,997 -119,117 -108,158 -118,656
2012: I II	388,523 394,114 393,395	-582,821 -579,850 -567,294	-185,736 -173,899	-2,437 -2,432 -2,459 -1,864	7,617 9,403 10,306	40,749 41,370 40,970	-148,364 -137,423 -124,488	184,708 184,002 184,416	-137,277 -131,949 -133,596	47,431 52,054 50,820	-32,692 -32,743 -33,839	-118,030 -133,624 -118,112 -107,507

Adjusted from Census data to align with concepts and definitions used to prepare the international and national economic accounts. The adjustments are necessary to supplement coverage of Census data, to eliminate duplication of transactions recorded elsewhere in the international accounts, to value transactions according to a standard definition, and for earlier years, to record transactions in the appropriate period.

2 Includes transfers of goods and services under U.S. military grant programs.

3 Consists of gold, special drawing rights, foreign currencies, and the U.S. reserve position in the International Monetary Fund (IMF).

See next page for continuation of table.

Table B-103. U.S. international transactions, 1953-2012—Continued

[Millions of dollars; quarterly data seasonally adjusted. Credits (+), debits (-)]

					Financial			, ,, ,	*	Statistical	discrepancy
V	Capital account	ex	U.Sowned a ccluding finan crease/finan	cial derivativ	es l	excludin	vned assets i g financial de e/financial in	rivatives	Financial	Total (sum of	Of which:
Year 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	deriva- tives, net	the items with sign reversed)	Seasonal adjustment discrep- ancy
1953			1,256								
1954 1955			480 182								
1956			-869								
1957 1958			-1,165 2,292								
1959			1,035								
1960		-4.099	2,145	-1,100	-5,144	2,294	1,473	821		-1,019	
1961		-5,538	607	-910	-5,235	2,705	765	1,939		-989	
1962		-4,174	1,535	-1,085	-4,623	1,911	1,270	641		-1,124 -360	
1963 1964		-7,270 -9,560	378 171	-1,662 -1,680	-5,986 -8.050	3,217 3,643	1,986 1,660	1,231 1,983		-300 -907	
1965		-9,560 -5,716	1,225	-1,605	-5,336	742	134	607		-457	
1966 1967		-7,321 -9,757	570 53	-1,543 -2,423	-6,347 -7,386	3,661 7,379	-672 3,451	4,333 3,928		629 -205	
1968		-9,757 -10,977	-870	-2,423 -2,274	-7,833	9,928	-774	10,703		438	
1969		-11,585	-1,179	-2,200	-8,206	12,702	-1,301	14,002		-1,516	
1970		-9,337	2,481	-1,589	-10,229	7,226	7,775	-550		-219	
1971 1972		-12,475 -14,497	2,349 -4	-1,884 -1,568	-12,940 -12,925	23,687 22,171	27,596 11,185	-3,909 10,986		-9,779 -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	
1975 1976		-39,703 -51,269	-849 -2,558	-3,474 -4,214	-35,380 -44,498	16,870 37,839	7,027 17,693	9,843 20,147		4,717 9,134	
1977		-34.785	-375	-3,693	-30.717	52.770	36,816	15.954		-3,650	
1978		-61,130	732	-4,660	-57,202	66,275	33,678	32,597		9,997	
19/9		-66,054	-1,133	-3,746	-61,176	40,693	-12,526	53,218		25,647	
1980 1981		-86,967 -114,147	-8,155 -5,175	-5,162 -5,097	-73,651 -103,875	62,037 85,684	16,649 6,053	45,388 79,631		22,613 23,433	
1982		-114,147	-4,965	-5,037 -6,131	-116,786	95,056	3,593	91,464		38,362	
1983		-66,373	-1,196	-5,006	-60,172	87.399	5,845	81,554		17,666	
1984 1985		-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		18,672 18,677	
1986		-111,723	312	-2,022	-110,014	228,330	35,648	192,681		30,570	
1987		-79,296	9,149	1,006	-89,450	247,100	45,387	201,713		-7,149	
1988 1989	-207	-106,573 -175,383	-3,912 -25,293	2,967 1,233	-105,628 -151,323	244,833 222,777	39,758 8,503	205,075 214,274		-17,107 52,299	
1990	-7,220	-81,234	-2,158	2,317	-81,393	139,357	33,910	105,447		28,066	
1991	-5,130	-64,388	5,763	2,924	-73.075	108.221	17.389	90,833		-41,601	
1992	1,449 -714	-74,410 -200,552	3,901 -1,379	-1,667	-76,644	168,349 279,758	40,477 71,753	127,872		-43,775	
1993	-1,111	-200,552 -178,937	5,346	-351 -390	-198,822 -183,893	303,174	39,583	208,005 263,591		6,314 -1.514	
1995	-222	-352,264	-9,742	-984	-341,538	435,102	109,880	325,222		30,951	
1996 1997	-7 -256	-413,409 -485,475	6,668 -1.010	-989 68	-419,088 -484.533	547,885 704,452	126,724 19.036	421,161 685.416		-9,705 -77,995	
1998	-230 -8	-353.829	-6,783	-422	-346,624	420,794	-19,903	440,697		148,105	
1999	-4,176	-504,062	8,747	2,750	-515,559	742,210	43,543	698,667		67,684	
2000	-1	-560,523	-290	-941	-559,292	1,038,224	42,758	995,466		-61,361	
2001	13,198 -141	-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		-16,849 -43,126	
ZUU3	-1,821	-325,424	1,523	537	-327.484	858,303	278,069	580,234		-11,969	
2004	3,049	-1,000,870	2,805	1.710	-1,005,385	1.533.201	397,755	1,135,446		93,138	
2005 2006	13,116 -1,788	-546,631 -1,285,729	14,096 2,374	5,539 5,346	-566,266 -1,293,449	1,247,347 2,065,169	259,268 487,939	988,079 1,577,230	29,710	31,942 -6,742	
2007	384	-1,453,604	-122	l –22.273	-1,431,209	2,064,642	481,043	1.583.599	6.222	92,660	
2008	6,010	332,109	-4,848	-529,615	866,571	431,406	554,634	-123,228	-32,947	-59,443	
2009	-140	-119,535	-52,256	541,342	-608,622	314,390	480,286	-165,896	44,816	142,365	
2010	-157 -1,212	-939,484 -483,653	-1,834 -15,877	7,540 -103,666	-945,189 -364,110	1,308,279 1,000,990	398,188 211,826	910,091 789,164	14,076 39,010	59,237 -89,208	
2011:	-29 -829	-372,944 7,418	-3,619 -6,267	-547 -1,358	-368,778 15,042	578,972 98,554	72,974 121,822	505,998 -23,268	2,927 7,419	-88,930	17,684 -11,134
 	-829 -300	7,418 -91,896	-6,267 -4,079	-1,358 -1,137	-86,679	266,397	121,822	-23,268 246,508	7,419 -3,949	6,555 -62,094	-11,134 -26,771
IV	-55	-26,231	-1,912	-100,624	76,305	57,067	-2,859	59,926	32,613	55,263	20,223
2012: I	1	106,549	-1,233	51,076	56,706	59,564	69,711	-10,147	-1,396	-31,092	19,501
	-291	248,186	-3,289 -833	16,650	234,826	-143,607	79,772	-223,379	464 _6.406	13,360	-11,580 -27,070
P		-229,774	-833	14,151	-243,092	281,960	130,281	151,679	-6,406	61,727	-27,070

Note: Data are on a balance of payments basis. Beginning with data for 1999, exports of goods under the U.S. Foreign Military Sales program and imports of petroleum abroad by U.S. military agencies are included in goods and excluded from net military transactions. Beginning with data for 1999, fuel purchases by air and ocean carriers in foreign ports are included in goods exports and imports and excluded from net travel and transportation.

Table B-104. U.S. international trade in goods by principal end-use category, 1965-2012 [Billions of dollars; quarterly data seasonally adjusted]

Exports Imports Nonagricultural products Nonpetroleum products Petro-Indus-Indus-Agri-cultural Year or quarter leum Capital Capital trial trial and Total Total supgoods supgoods prod-Auto-Auto-Total except Other prod-Total except Other plies plies ucts motive motive ucts and autoand automateri materi motive motive 26.5 29.3 30.7 6.3 6.9 6.5 6.3 20.2 22.4 24.2 1.9 2.4 2.8 2.6 2.9 3.0 21.5 25.5 26.9 8.0 9.2 8.2 23.4 8.9 9.9 10.2 1.8 1966 9.9 1967 27.3 2.4 30.6 2.8 96 35 4 N 118 1968 33 B 3.9 3.7 2.6 33.2 6 1 10.3 124 118 3 4 49 1969 12.3 10.9 3.9 2.9 3.7 36.9 41.9 12.4 13.8 42.5 7.4 14.7 4.3 4.0 5.5 7.4 15.0 35.1 45.6 43.3 7.8 15.4 16.4 1972 49.4 9.5 18.0 399 11.9 17.0 16.9 5.5 6.9 5.6 7.6 55.8 70.5 47 51.1 16.3 59 87 20.2 71.4 53.4 8.3 10.3 22 N 8 4 196 62 1 1974 98.3 22.4 75.9 26.3 30.9 8.6 10.0 103.8 26.6 77.2 27.8 9.8 12.0 27.5 22.2 23.4 24.3 27.0 34.6 45.0 98.2 124.2 151.9 71.2 89.7 24.0 29.8 35.7 25.3 31.4 107.1 84.8 26.8 36.6 10.6 10.8 10.2 91.4 1977 120.8 96.5 112.2 29.8 39.8 13.4 13.5 106.9 14 0 18.6 38.6 142 1 29.9 34 2 47.5 15.2 15.3 176 0 42 6 4N 7 193 48 4 133 4 25 0 52.2 60.4 1979 184.4 35.5 149.0 60.2 17.9 18.7 212.0 151.6 47.5 24.6 26.6 52.8 76.3 84.2 23.4 25.5 22.4 42.0 17.4 249.8 79.5 224.3 170.2 53.0 31.6 57.4 1981 44.1 193.0 63.6 19.7 265.1 78.4 186.7 56.1 37.1 31.0 76.5 71.7 1982 211 2 37.3 173.9 57.7 17 2 247.6 62.0 185.7 48.6 38 4 34.3 64.3 21.8 1983 201.8 37 1 1647 185 268.9 55 1 53.7 437 43 N 733 1984 219.9 38.4 181.5 56.8 77.0 22.4 25.3 332.4 58.1 274.4 66.1 60.4 56.5 91.4 29.6 27.2 29.8 24.9 25.1 27.6 27.2 28.9 36.4 51.4 34.3 42.9 39.6 62.6 69.9 61.3 72.0 64.9 186.3 54.8 286.7 223.3 250.2 320.2 1986 59.4 368.4 334. 78.1 114.2 1987 220.4 409.8 447.2 366.8 70.8 85.1 102.2 85.2 87.9 38.8 281.4 82.6 33.4 46.3 134.4 1988 119.1 407.6 83.1 359.9 318.8 90.5 35.1 56.3 477.7 50.9 84.6 112.3 87.4 1989 136.9 426.8 142.5 62.3 51.7 387.4 40.2 347.2 97.0 153.0 36.2 61.0 498.4 436.1 83.0 116.4 88.2 148.5 65.9 70.6 491.0 51.7 51.6 81.3 89.1 85.5 91.5 44.1 1992 439.6 395.6 176.4 46.9 536.5 484.9 134.8 169.6 1993 456.9 43.6 4133 105.1 112.7 182 7 51.6 57.5 74 N 589 4 51.5 51.3 537.9 100.8 153.2 102 1 182 N 118.1 1994 502.9 47.1 455.8 205.7 799 668 7 617.4 185.0 200 6 575.2 234.4 61.4 86.5 749.4 222.1 123.7 57.2 518.0 135.6 56.0 693.3 128.5 219.0 61.5 58.5 53.2 550.6 619.9 617.3 254.0 295.8 299.8 72.7 228.4 253.6 269.8 612.1 64.4 93.6 803.1 730.4 144.9 151.6 1997 678.4 148.6 73.4 72.5 102.0 876.8 918.6 71.8 50.9 805.0 867.7 139.4 267.1 1998 670 4 139 4 105 5 148 R 297 1,034.4 1999 698 2 497 648 6 1437 3112 75.3 1184 72.1 962.3 178 2 157.8 296 1 330.1 52.8 54.9 54.5 2000 784.8 732.0 168.4 357.0 80.4 126.3 1,230.6 126.1 1,104.4 183.5 347.7 195.0 378.3 2001 2002 676.3 154.6 124.5 1,152.5 109.4 1,043.0 299.2 284.9 188.7 697.4 642 9 151.4 290.4 78.9 109.3 1,062.7 166.3 202.8 408.6 1,129 8 2003 729 8 60.9 668.9 167.5 293.7 80.6 127.1 1.270.2 140 4 183.2 297 6 209.2 130 B 822 N 62.9 199 1 327 5 234 5 346 1 227.3 759 N 89 2 143 2 1 485 5 189 9 1 295 6 487 6 2005 911.7 64.9 846.8 230.8 358.4 98.4 159.2 1.692.4 1,429.2 274.9 238.7 263.2 382.8 532.8 2006 2007 2008 1,039.4 72.9 275.0 107.3 121.3 180.2 1,875.1 1,558.4 302.5 422.6 256.0 258.5 966.5 316.7 577.3 433.0 982.8 310.8 449.1 1,189.5 1.307.5 118.0 389 5 457 7 220.9 2,137.6 476.1 1.661.5 335 5 458.7 634 1 2009 210.8 1.069.7 101.0 968.8 294.3 391.5 81.7 201.3 1.575.5 267.7 1.307.8 374.1 159.2 563.8 2010 2011 1,288.9 387.8 447.8 493.2 112.0 222.3 234.6 1.934.0 353.8 462.3 1,580.3 1,773.5 450.3 225.6 255.2 119.0 1.169.9 269.2 635.1 1,497.4 140.0 1,357.4 496.4 133.1 2,235.8 319.8 513.4 685.1 2009: 254.1 23.1 231.0 66.1 98.6 17.1 49.2 376.6 321.0 55.3 93.1 32.5 140.2 253.9 25.5 228.4 68.1 94.3 17.0 49.0 364.9 59.9 305.0 47 1 0.88 32.3 137.6 270.1 25.3 27.1 244.8 77.7 95.9 22.1 25.6 49.7 399.0 72.3 79.8 326.7 50.5 57.9 928 43.6 139.8 82.9 102.7 291.7 264.6 53.4 435.0 355.1 100.2 50.8 146.2 304.0 28.4 275.6 89.4 106.0 26.5 53.7 456.6 88.7 367.9 63.4 102 7 51.0 150.8 2010 315.5 26.9 288.6 95.8 110.7 27.9 54.2 480.1 88.7 391.5 67.2 111.2 56.4 156.6 29.4 34.3 67.4 71.2 344.2 309.8 105.0 117.1 29.3 58.4 505.3 90.2 415.1 120.1 59.4 164.5 118.3 123.2 360.9 36.5 324 4 117.2 31.8 57.1 542.3 111.4 430.8 76.6 62.9 168.1 2011: I 5593 372 2 35 6 336.6 58.7 1194 440 N 81 1 58 2 33.9 129.1 34.4 59.3 562.8 448.6 66.3 67.7 382.2 348.2 125.5 129.5 34.0 348.2 127.4 126.9 34.4 571.4 79.8 133.1 173.6 382.2 454.1 2012: 388 5 33.8 127 1 131.2 36.5 59.9 582.8 119.4 463 4 79.6 137.7 73.5 172.7 394 1 36.7 357.4 126.7 131.3 37.5 61.9 579.9 111.3 468 5 79.8 1398 747 174 2 40.6 120.9 133.6 36.4 61.8 567.3 173.8

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

Note: Data are on a balance of payments basis. Beginning with data for 1999, exports of goods under the U.S. Foreign Military Sales program are included in "other" exports and imports of petroleum abroad by U.S. military agencies are included in imports of petroleum and products; prior to 1999, these transactions are included in services. Beginning with data for 1978, re-exports 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, 2004-2012

[Millions of dollars]

		[IVIIIIOI	is or dorial:	3]					
ltem	2004	2005	2006	2007	2008	2009	2010	2011	2012 first 3 quarters at annual rate 1
EXPORTS									
Total, all countries	821,986	911,686	1,039,406	1,163,957	1,307,499	1,069,733	1,288,882	1,497,406	1,568,043
Europe Euro area ²	194,296	213,452	247,642	288,916	331,868	263,832	289,515	335,393	340,572
France	127,373 21,157	138,294 22,612	156,150 24,009	180,691 27,217	203,542 29,681	164,870 26,989	178,076 27,369	198,248 28,490	197,984 31,616
Germany	31,782	34,874	41,919	50,115	55,322	43.949	48,526	49,626	50,096
Germany Italy	10,903	11,627	12,750	14,372	15,755	12,428	14,396	16,246	16,663
United Kingdom	36,158	38,870	45,673	51,104	54,873	46,827	49,038	57,036	57,543
Canada	190,042 172,629	212,340 193,679	231,346 223,288	249,819 243,863	262,282 289,785	205,457 239,374	250,132 302,901	282,277 368,416	296,644 399,693
Latin America and Other Western Hemisphere Brazil	13,870	15,343	19,008	24,304	32,435	26.097	35,353	42,821	42,753
IVIEXICU	110,837	120,444	133,998	136,166	151,610	129,214	163,532	198,711	216,967
Venezuela	4,788	6,439	9,017	10,218	12,638	9,348	10,648	12,338	17,364
Asia and Pacific	226,576 34,833	244,220 41,874	280,513 54,813	312,005 64,313	339,342 71,346	291,572 70,636	369,060 93,029	418,116 105,263	429,717 107,972
India	6,170	8,014	9,775	15,048	17,845	16,480	19,335	21,616	22,029
Japan	53,458	54,817	59,276	62,796	67,178	52,944	61,483	67,204	73,271
Korea, Republic of	26,835 19,606	28,639 20,755	33,515 24,172	35,874 25,932	36,746 28,576	29,703 22,648	39,794 29,105	45,150 31,373	45,863 30,437
Korea, Republic of Singapore Taiwan	22,264	22,794	23,817	26,854	26,177	19,402	26,763	27,113	25,756
Middle East	24,357	32,151	37,754	45,533	55,755	44,920	48,881	59,397	67,232
Africa Memorandum: Members of OPEC 3	14,086	15,844	18,863	23,817	28,468	24,578	28,393	33,808	34,184
	22,570	31,781	39,265	48,757	65,386	50,430	54,526	65,370	78,508
IMPORTS									
Total, all countries	1,485,492	1,692,416	1,875,095	1,982,843	2,137,608	1,575,491	1,934,006	2,235,819	2,306,620 459,049
Europe Euro_area ²	323,567 211,259	358,581 231,450	386,870 248,580	414,509 270,765	446,750 281,395	333,100 213,884	385,359 244,345	453,605 289,108	296,687
France	31,830	34,210	37,431	41,865	44,556	34,390	38,719	40,676	42.005
Germany Italy	77,556 28,239	85,321 31,226	89,613 32,869	94,792 35,268	98,299 36,567	71,688 26,691	82,866 28,771	99,425 34,327	107,557 37,095
United Kingdom	46,418	51,469	54,087	57,215	59,418	47,780	50,706	51,878	54,944
Canada Latin America and Other Western Hemisphere	259,377	293,960	305,822	319,498	341,640	227,208	281,034	320,538	330,629
Latin America and Other Western Hemisphere	257,925	297,364	337,128	351,251	382,247	288,475	365,045	442,901	461,476
Brazil Mexico	21,250 158,598	24,571 173,771	26,547 202,434	25,831 215.350	30,719 220,856	20,208 179,638	24,203 232,726	31,549 267,345	33,611 285.417
Venezuela	24,946	34,006	37,206	39,997	51,531	28,149	32,825	43,391	38,463
Asia and Pacific	546,224	614,121	691,217	725,995	738,752	603,702	741,047	818,921	866,705
ChinaIndia	197,456 15,625	244,699 18.896	289,246 21,969	322,975 24,233	339,580 25,888	297,872 21,336	366,125 29,682	400,642 36,338	418,485 42.017
Japan	131,500	140,380	150,847	148,271	142,393	97,783	122,925	131,836	150,569
Korea, Republic of	46,757	44,142	46,386	48,648	49,312	39,919	49,535	57,454	60,023
Japan Korea, Republic of Singapore Taiwan	15,713 35,193	15,556 35,350	18,381 38,699	18,919 38,814	16,873 36,857	16,323 28,731	18,454 35,974	20,081 41,526	20,621 39,087
Middle East	52,721	63,112	73,523	79,473	114,613	60.504	76,274	106,531	119,659
Africa Members of OPEC 3	45,678	65,278	80,535	92,116	113,605	62,501	85,248	93,323	69,104
Memorandum: Members of OPEC 3	95,215	125,501	146,507	176,145	245,143	113,100	151,467	193,947	185,176
BALANCE (excess of exports +)									
Total, all countries	-663,507	-780,730	-835,689	-818,886	-830,109	-505,758	-645,124	-738,413	-738,577
Éurope Euro_area ²	-129,271 -83,887	-145,129 -93,156	-139,228 -92,430	-125,593 -90,074	-114,882 -77,853	-69,268 -49,014	-95,844 -66,269	-118,212 -90,860	-118,477 -98,701
France	-10,674 -45,774	-11,598	-13,422	-14,649	−14.875	-7,402 -27,739	-11,350	-12,186	-10,391
Germany	-45,774	-50,447	-47,694	-44,677	-42,977	-27,739	-34,340	49,799	-57,460
Italy' United Kingdom	-17,336 -10,260	-19,599 -12,599	-20,119 -8,414	-20,896 -6,110	-20,812 -4,545	-14,263 -954	-14,375 -1,668	-18,081 5,158	-20,432 2,599
Canada	-69,335	-81.620	-74.476	-69.679	-79.359	-21,751	-30.902	-38.261	-33,984
Latin America and Other Western Hemisphere	-85,297	-103,685	-113,839	-107,388	-92,462	-49,101	-62,144	-74,486	-61,780
Brazil Mexico	-7,380 -47,761	-9,228 -53,327	-7,539 -68,436	-1,528 -79,184	1,716 -69.246	5,890 -50,424	11,150 -69,195	11,272 -68,634	9,145 -68.451
Venezuela	-20,157	-27,567	-28,189	-29,779	-38,893	-18,801	-22,177	-31,053	-21,097
Asia and Pacific	-319,648	-369,901	-410,705	-413,990	-399,410	-312,130	-371,987	-400,805	-436,989
China	-162,623	-202,825	-234,433	-258,662	-268,234	-227,236	-273,096	-295,378	-310,513
India Japan	-9,455 -78,042	-10,882 -85,562	-12,194 -91,571	-9,185 -85,475	-8,043 -75,214	-4,856 -44,840	-10,347 -61,442	-14,722 -64,632	-19,988 -77,299
Korea, Republic of	-19,922	-15,503	-12,872	-12,774	-12,566	-10,216	-9,741	-12,304	-14,160
Korea, Republic of Singapore Taiwan	3,893 -12,928	5,199 -12,555	5,791 -14,883	7,013 -11,959	11,703 -10,680	6,326 -9,329	10,652 -9,211	11,292 -14,413	9,815 -13,329
Middle East	-28.364	-12,555 -30,961	-35,769	-33.940	-58,859	-9,329 -15,585	-9,211	-14,413 -47,134	-13,329 -52.427
Africa	-28,364	-30,961 -49,434	-35,769	-33,940 -68,298	-85,137	-37,923	-27,393 -56,855	-47,134 -59,514	-34,920
Africa Memorandum: Members of OPEC 3	-72,645	-93,720	-107,242	-127,389	-179,757	-62,670	-96,941	-128,577	-106,667

Note: Data are on a balance of payments basis. For further details, and additional data by country, see Survey of Current Business, January 2013. Source: Department of Commerce (Bureau of Economic Analysis).

Preliminary; seasonally adjusted.
 Euro area consists of: Austria, Belgium, Cyprus (beginning in 2008), Estonia (beginning in 2011), Finland, France, Germany, Greece (beginning in 2001), Ireland, Italy, Luxembourg, Malta (beginning in 2008), Novenia (beginning in 2007), and Spain.
 Organization of Petroleum Exporting Countries, consisting of Algeria, Angola (beginning in 2007), Ecuador (beginning in 2007), Indonesia (ending in 2008), Iran, Iran, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela.

TABLE B-106. U.S. international trade in goods on balance of payments (BOP) and Census basis, and trade in services on BOP basis, 1985-2012

[Billions of dollars; monthly data seasonally adjusted]

		Goods: Exports (f.a.s. value) ^{1, 2}								Goo (cust	ids: Impo ioms valu	irts ie) ⁶			Sen (BOP	vices basis)
		С	ensus ba	sis (by e	nd-use o	ategory)				Census b	asis (by	end-use	category)			
Year or month	Total, BOP basis ^{3, 4}	Total, Census basis ^{3, 5}	Foods, feeds, and bev- erages	Indus- trial sup- plies and mate- rials	Capi- tal goods ex- cept auto- mo- tive	Auto- motive vehi- cles, parts, and en- gines	Con- sumer goods (non- food) except auto- mo- tive	Total, BOP basis ⁴	Total, Census basis ⁵	Foods, feeds, and bev- erages	Indus- trial sup- plies and mate- rials	Capi- tal goods ex- cept auto- mo- tive	Auto- motive vehi- cles, parts, and en- gines	Con- sumer goods (non- food) except auto- motive	Ex- ports ⁴	lm- ports ⁴
1985	215.9 223.3 250.2 359.9 387.4 414.1 439.6 456.9 575.2 612.1 678.4 670.4 698.2 784.8 731.2 697.4 729.8 822.0 911.7 1,039.4 1,164.0 1,307.5	8218.8 8227.2 254.1 363.8 393.6 421.7 448.2 465.1 584.7 625.1 689.2 689.2 689.3 781.9 901.1 1,026.0 1,148.2 1,287.4	24.0 22.3 32.3 37.2 35.1 35.7 40.3 40.6 42.0 50.5 55.5 51.5 46.4 46.4 49.6 55.0 56.6 56.6 59.0 66.0 84.3 108.3 93.9	58.5 57.3 66.7 85.1 99.3 104.4 111.8 111.8 112.8 147.7 158.2 147.5 172.6 160.1 173.0 203.9 2376.0 316.4 3296.5	73.9 75.8 86.2 109.2 138.8 152.7 175.9 181.7 175.9 233.0 253.0 299.4 299.5 299.5 430.8 433.0 433.0 433.0 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356.9 356	22.9 21.7 24.6 29.3 34.8 37.4 40.0 47.0 57.8 61.8 65.0 72.4 75.4 75.4 75.4 75.4 75.4 75.4 71.3 80.4 72.4 75.4 75.4 80.6 89.2 98.4 107.3 121.3 121.3 121.3 81.7	12.6 14.2 17.7 23.1 36.4 43.3 45.9 51.4 54.7 60.0 64.4 70.1 77.4 80.3 80.9 89.4 88.3 84.4 89.9 103.2 115.3 129.1 146.0 161.3	338.1 368.4 409.8 447.2 477.7 498.4 491.0 536.5 589.4 668.7 749.4 803.1 876.8 918.6 1,152.5 1,171.9 1,270.2 1,485.5 1,692.4 1,982.8 2,137.6 1,575.5	7336.5 365.4 406.2 441.0 473.2 495.3 488.5 532.7 663.3 743.5 795.3 869.7 911.9 1,124.0 1,141.0 1,161.4 1,257.1 1,469.7 1,673.5 1,853.9 1,957.0 2,103.6	21.9 24.4 24.8 25.1 26.6 26.5 27.9 31.0 33.2 35.7 41.2 43.6 46.0 49.7 55.8 62.1 68.1 74.9 81.7 89.0	113.9 101.3 111.0 118.3 132.3 143.2 143.2 143.6 145.6 162.0 181.8 204.5 273.9 221.4 299.0 273.9 273.9 263.4 777.5 634.7 777.5 634.7 777.5	65.1 71.8 84.5 101.4 113.3 116.4 120.7 134.3 152.4 228.1 228.1 253.3 295.7 347.0 298.0 298.0 298.0 298.0 343.6 444.5 453.7 370.5	66.8 78.2 85.2 87.7 86.1 87.3 85.7 91.8 102.4 118.3 128.9 139.8 148.7 179.0 195.9 189.8 203.7 210.7 228.2 239.4 256.6 256.7 231.2	68.3 79.4 88.7 95.9 102.9 105.7 108.0 122.7 134.0 146.3 159.9 172.0 193.8 217.0 241.9 281.8 284.3 307.8 333.9 407.2 442.6 474.6 481.6 427.3	73.2 86.7 98.7 110.9 127.1 147.8 164.3 177.3 185.9 200.4 219.2 239.5 256.1 262.8 288.0 276.5 283.4 293.7 341.2 375.8 420.4 490.6 535.2	72.9 80.1 90.8 98.5 102.5 117.7 118.6 123.8 133.1 141.4 152.6 165.9 180.7 195.8 219.0 2217.0 226.4 244.3 303.6 338.0 338.0 338.0 338.4 403.4 382.6
2010	1,288.9 1,497.4	1,278.3 1,480.4	107.7 126.2	391.5 500.3	447.5 493.0	112.0 133.1	165.2 175.0	1,934.0 2,235.8	1,913.2 2,207.8	91.7 107.5	602.5 755.8	449.3 510.7	225.1 254.6	483.2 514.1	553.6 606.0	403.2 427.4
2011: Jan Feb Apr May July Aug Sept Oct Nov	119.1 117.7 124.2 125.6 124.9 121.7 126.6 126.5 129.1 127.9 126.4	117.6 115.9 122.5 124.1 123.5 120.2 125.1 125.2 127.5 126.7 125.2 126.8	10.4 10.4 11.1 10.9 10.9 10.2 10.4 10.5 10.4 10.3 10.5	39.4 38.6 41.3 42.7 41.5 39.8 42.2 42.9 44.3 42.9 42.1 42.8	39.0 39.1 40.2 41.0 41.2 40.2 41.9 41.7 41.8 42.4 42.2 42.2	10.6 10.2 11.1 10.7 10.9 10.9 11.8 11.1 11.4 11.3 11.8	13.9 13.9 14.4 14.7 14.4 14.9 14.5 14.7 15.2 14.8 14.9	181.0 177.0 184.3 184.1 187.9 187.3 187.5 186.7 188.6 188.4 189.7	178.9 174.8 182.1 181.9 185.5 184.8 185.1 184.4 186.0 185.9 187.4	8.4 8.6 8.6 8.9 9.0 9.1 8.9 9.1 9.4 9.3 9.2	60.8 57.4 63.6 63.0 66.2 64.5 63.0 62.9 63.9 62.2 63.5 64.8	41.7 39.9 41.3 41.8 42.7 42.5 42.9 42.8 43.0 43.7 43.6 44.9	21.2 20.3 21.2 19.1 19.4 19.6 22.3 21.5 22.4 21.8 22.6 23.2	41.7 43.6 42.0 43.7 42.8 43.2 43.0 42.4 42.3 43.4 42.7 43.4	49.0 48.9 50.0 50.1 50.8 51.0 51.8 51.9 50.8 50.3 49.9	34.6 34.3 34.8 35.1 35.4 35.7 36.4 36.5 36.0 35.9 36.2
2012: Jan Feb Apr May June July Aug Sept Oct Nov ^p	128.0 128.4 132.2 130.6 130.8 132.8 130.7 128.7 133.9 127.7 129.3	126.5 126.9 130.8 129.0 129.6 131.5 129.3 127.2 132.5 126.3 128.1	10.4 9.8 10.2 10.9 11.8 11.0 12.9 11.8 12.9 11.5	41.8 42.1 43.9 42.9 42.0 42.6 40.2 39.0 42.4 39.6 40.2	43.2 43.3 44.6 43.2 43.9 44.2 44.1 44.5 44.9 43.0	12.5 12.1 11.9 12.3 12.2 12.9 12.3 12.2 11.9 11.6 12.3	14.4 14.8 14.9 15.1 14.9 15.8 15.8 14.9 15.4 15.3 15.4	194.8 188.4 199.6 195.8 193.9 190.2 188.4 187.6 191.3 186.8 195.0	192.5 186.4 197.5 193.8 191.9 188.2 186.6 185.6 189.2 184.6 193.1	9.6 9.0 9.2 9.1 9.0 9.1 9.2 9.3 8.9 9.4	65.4 62.0 65.7 65.2 61.5 59.1 57.2 58.7 59.7 60.1 61.4	44.5 44.6 47.8 45.8 47.2 46.0 45.4 44.9 45.5 45.1	24.2 24.6 24.3 24.8 25.5 26.2 25.3 24.4 24.0 25.6	43.1 40.3 43.8 43.5 43.2 42.4 42.9 41.6 44.2 40.7 45.3	50.8 51.9 52.7 52.1 52.5 52.9 52.8 53.0 53.4 53.1 53.2	36.2 36.4 36.9 36.5 36.3 36.4 36.7 36.3 36.1 36.3

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.
 Eas. (free alongside ship) value basis at U.S. port of exportation for exports.

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, to value transactions according to a standard definition, and for earlier years, to record transactions in the appropriate

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).

 ² Fa.s. (free alongside ship) value basis at U.S. port of exportation for exports.
 ³ Beginning with data for 1989, exports have been adjusted for undocumented exports to Canada and are included in the appropriate end-use categories. For prior years, only total exports include this adjustment.
 ⁴ Beginning with data for 1999, exports of goods under the U.S. Foreign Military Sales program and fuel purchases by foreign air and ocean carriers in U.S. ports are included in goods exports (BDP basis) and excluded from services exports. Beginning with data for 1999, imports of petroleum abroad by U.S. military agencies and fuel purchases by U.S. air and ocean carriers in foreign ports are included in goods imports (BDP basis) and excluded from services imports.
 ⁵ Total includes "other" exports or imports, not shown separately.
 ⁶ Total includes "includes the post them in transit bigments" to be program and fine prior to the program of the prior to the p

⁶ Total arrivals of imported goods other than in-transit shipments.

⁷ Total includes revisions not reflected in detail

⁸ 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, 2005-2011 [Millions of dollars]

	[IVIIIIIVII]	dollaroj					
Type of investment	2005	2006	2007	2008	2009	2010	2011 P
NET INTERNATIONAL INVESTMENT POSITION OF THE UNITED STATES	-1,932,149	-2.191.653	-1.796.005	-3.260.158	-2.321.770	-2.473.599	-4.030.250
Financial derivatives, net	57,915	59,836	71,472	159,635	126,335	110,382	126,252
Net international investment position, excluding financial	37,313	33,030	/1,7/2	100,000	120,000	110,002	120,232
derivativesderivatives	-1,990,064	-2,251,489	-1,867,477	-3,419,793	-2,448,105	-2,583,981	-4,156,502
U.SOWNED ASSETS ABROAD	11,961,552	14,428,137	18,399,676	19,464,717	18,511,691	20,298,413	21,132,370
Financial derivatives, gross positive fair value	1,190,029	1,238,995	2,559,332	6,127,450	3,489,779	3,652,313	4,704,666
U.Sowned assets abroad, excluding financial derivatives	10,771,523	13,189,142	15,840,344	13,337,267	15,021,912	16,646,100	16,427,704
U.S. official reserve assets	188,043	219,853	277,211	293,732	403,804	488,673	536,036
Gold ¹	134,175	165,267	218,025	227,439	284,380	367,537	400,355
Special drawing rights Reserve position in the International Monetary Fund	8,210	8,870	9,476	9,340	57,814	56,824	54,956
Reserve position in the International Monetary Fund	8,036	5,040	4,244	7,683	11,385	12,492	30,080
Foreign currencies	37,622	40,676	45,466	49,270	50,225	51,820	50,645
U.S. Government assets, other than official reserve assets	77,523	72,189	94,471	624,099	82,774	75,235	178,901
U.S. credits and other long-term assets 2	76,960	71,635	70,015	69,877	71,830	74,399	78,373
Repayable in dollars	76,687	71,362	69,742	69,604	71,557	74,126	78,100
Other ³	273	273	273	273	273	273	273
U.S. foreign currency holdings and U.S. short-term							
assets 4	563	554	24,456	554,222	10,944	836	100,528
U.S. private assets	10,505,957	12,897,100	15,468,662	12,419,436	14,535,334	16,082,192	15,712,767
Direct investment at current cost	2,651,721	2,948,172	3,553,095	3,748,512	4,029,457	4,306,843	4,681,569
Foreign securities	4,329,259	5,604,475	6,835,079	3,985,712	5,565,636	6,336,370	5,922,001
Bonds	1,011,554	1,275,515	1,587,089	1,237,284	1,570,341	1,689,462	1,763,754
Corporate stocks	3,317,705	4,328,960	5,247,990	2,748,428	3,995,295	4,646,908	4,158,247
U.S. claims on unaffiliated foreigners reported by U.S.	1.018.462	1,184,073	1,233,341	930.909	930.337	874,762	796,827
nonbanking concerns U.S. claims reported by U.S. banks and securities	1,010,402	1,104,073	1,233,341	330,303	330,337	074,702	730,027
brokers, not included elsewhere	2,506,515	3,160,380	3,847,147	3,754,303	4,009,904	4,564,217	4,312,370
FOREIGN-OWNED ASSETS IN THE UNITED STATES	13.893.701	16.619.790	20.195.681	22.724.875	20.833.461	22.772.012	25.162.620
Financial derivatives, gross negative fair value	1.132.114	1.179.159	2.487.860	5.967.815	3,363,444	3.541.931	4.578.414
Foreign-owned assets in the United States, excluding			, , , , , , , , , , , , , , , , , , , ,	.,,		.,.,,	
financial derivatives	12,761,587	15,440,631	17,707,821	16,757,060	17,470,017	19,230,081	20,584,206
Foreign official assets in the United States	2,313,295	2.832.999	3,411,831	3.943.862	4,402,809	4,912,727	5.250.792
U.S. Government securities	1,725,193	2.167.112	2.540.062	3.264.139	3,588,575	3,993,275	4.277.348
U.S. Treasury securities	1,340,598	1,558,317	1,736,687	2,400,516	2,879,612	3,364,758	3,653,065
Other	384,595	608,795	803,375	863,623	708,963	628,517	624,283
Other U.S. Government liabilities 5	22,869	26,053	31,860	40,694	99,119	110,464	119,359
U.S. liabilities reported by U.S. banks and securities							
brokers, not included elsewhere	296,647	297,012	406,031	256,355	187,507	179,540	209,550
Other foreign official assets	268,586	342,822	433,878	382,674	527,608	629,448	644,535
Other foreign assets	10,448,292	12,607,632	14,295,990	12,813,198	13,067,208	14,317,354	15,333,414
Direct investment at current cost	1,905,979	2,154,062	2,345,923	2,397,396	2,398,208	2,597,707	2,908,791
U.S. Treasury securities	643,793	567,861	639,755	852,458	790,985	1,101,828	1,418,050
U.S. securities other than U.S. Treasury securities Corporate and other bonds	4,352,998	5,372,339	6,190,018	4,620,661	5,319,948	5,933,958	5,968,177
Corporate stocks	2,243,135 2,109,863	2,824,871 2.547.468	3,289,070 2,900,948	2,770,606 1.850.055	2,825,638 2.494.310	2,915,698 3,018,260	2,909,962 3,058,215
U.S. currency	280,400	282,627	271,952	301,139	313,771	342,090	397,086
U.S. liabilities to unaffiliated foreigners reported by U.S.	200,400	202,021	2/1,332	301,133	313,771	342,030	337,000
nonbanking concerns	658,177	799,471	863,140	740,553	706,387	643,618	629,728
U.S. liabilities reported by U.S. banks and securities brokers, not included elsewhere	2,606,945	3,431,272	3,985,202	3,900,991	3,537,909	3,698,153	4,011,582
Memoranda:							
Direct investment abroad at market value	3,637,996	4,470,343	5,274,991	3,102,418	4,287,203	4,766,730	4,499,962
Direct investment in the United States at market value	2,817,970	3,293,053	3,551,307	2,486,446	2,995,459	3,397,411	3,509,359

Note: For details regarding these data, see Survey of Current Business, July 2012.

¹ U.S. official gold stock is valued at market prices.

² Also includes paid-in capital subscriptions to international financial institutions and resources provided to foreigners under foreign assistance programs requiring repayment over several years. Excludes World War I debts that are not being serviced.

³ 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.

⁴ Beginning in 2007, includes foreign-currency-denominated assets obtained through temporary reciprocal currency arrangements between the Federal Reserve System and foreign central banks.

⁵ Includes U.S. Government liabilities associated with military sales contracts and U.S. Government reserve-related liabilities from allocations of special drawing rights (SDRs).

Table B–108. Industrial production and consumer prices, major industrial countries, $1986\hbox{--}2012$

Year or quarter	United States ¹	Canada	Japan	France	Germany ²	Italy	United Kingdom
			Industrial	I production (Index, 2	2007=100) ³		
1986 1987 1988 1989	55.3 58.1 61.1 61.7	64.3 67.0 71.5 71.2	73.9 76.5 83.8 88.7	74.3 75.8 78.8 81.7	64.0 64.3 66.5 69.7	75.0 77.3 82.2 85.2	81.0 84.2 88.3 90.1
1990 1991 1992 1993 1994 1995 1996 1996	62.3 61.3 63.0 65.1 68.5 71.0 80.4	69.3 66.8 67.7 70.9 75.4 78.8 79.7 84.3	92.3 93.9 88.2 84.9 85.7 88.3 90.1 93.8	86.6 86.2 84.6 81.1 84.6 86.8 86.6 90.0	73.3 78.2 76.5 70.7 72.8 73.6 75.8	85.4 84.6 83.7 81.7 86.6 91.8 90.2 93.7	89.8 86.8 87.1 89.0 93.8 95.5 96.8
1998 1999 2000 2001 2002 2002 2003 2004 2005	85.1 88.7 92.3 89.1 89.3 90.4 92.5 95.5	87.2 92.3 100.3 96.3 97.8 97.9 99.5 101.4	87.2 87.6 92.2 86.2 85.1 87.6 91.8 93.2 97.1	93.2 94.7 98.1 98.9 97.5 96.5 97.9 98.8	78.6 79.4 83.9 84.1 83.2 83.7 86.2 89.2	94.9 94.6 98.6 97.4 96.0 95.4 94.7 98.1	99.6 100.7 102.8 101.2 99.6 99.3 100.2 99.4
2007 2008 2009 2010 2011 2012 P 2011: I	100.0 96.5 85.4 90.1 93.7 97.1	100.0 95.5 84.5 89.7 92.8	100.0 96.6 75.5 88.1 86.0 85.2	100.0 97.2 84.9 88.9 90.4	100.0 100.0 83.6 92.6 99.7	100.0 96.2 78.3 83.6 83.8	100.0 97.2 88.4 90.3 89.6
2012: I	92.9 94.2 95.3 96.7	91.9 93.1 93.5 93.4	82.8 87.3 87.6 88.7	90.5 90.4 89.8 89.3	99.5 101.3 99.6 99.4	85.0 83.5 82.1 80.2	89.7 89.6 88.4 88.1
 V ^p	97.3 97.4 97.6	93.9 93.7	87.0 83.3 81.8	88.8 88.5 r prices (Index, 198:	99.2 100.1 2	78.6 78.2	87.3 87.9
1986	109.6	113.5	104.8	117.2	104.7	128.9	114.9
1987	113.6 118.3 124.0	118.4 123.2 129.3	105.0 105.7 108.1	121.1 124.3 128.7	105.0 106.3 109.2	135.0 141.9 150.8	119.7 125.6 135.4
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	135.5 143.1 145.2 147.9 148.2 151.4 153.8 156.2 157.8 160.5	111.4 115.1 117.0 118.5 119.3 119.2 119.3 121.4 122.2 121.8	133.1 137.3 140.6 143.6 146.0 148.6 151.5 153.3 154.3	112.2 116.7 122.7 128.1 131.6 133.9 135.8 138.4 139.7 140.5	160.4 170.6 179.4 187.3 194.9 205.2 213.2 217.6 221.9 225.5	148.2 156.9 162.7 165.3 169.4 175.1 179.4 185.0 191.4
2000	172.2 177.1 179.9 184.0 188.9 195.3 201.6 207.342 215.303 214.537	164.9 169.1 172.9 177.7 181.0 185.0 188.7 192.7 197.3	121.0 120.1 119.0 118.7 118.7 118.4 118.6 118.7 120.3	157.8 160.3 163.4 166.9 170.4 173.4 176.3 178.9 184.0	142.5 145.3 147.4 148.9 151.4 153.7 156.2 159.7 163.9 164.5	231.2 237.7 243.5 250.1 255.6 260.6 266.1 270.9 280.0 282.2	200.0 203.7 207.0 213.0 219.3 225.6 232.8 242.7 252.4 251.1
2010	218.056 224.939 229.594 221.666 225.531 226.452	201.4 207.2 210.4 204.8 207.6 208.0	117.9 117.5 117.5 117.4 117.7 117.7	186.9 190.9 194.6 189.1 191.2 191.1	166.3 170.2 173.5 168.8 169.9 170.7	286.5 294.5 303.4 291.0 293.8 295.5	262.7 276.3 285.2 271.3 276.0 277.5
2012: I	226.108 227.907 229.793 230.297 230.380	208.6 209.6 210.9 210.5 210.5	117.4 117.7 117.9 117.2 117.1	192.3 193.4 195.0 194.8 195.3	171.2 172.4 173.2 174.0 174.6	297.7 300.5 303.4 304.8 305.0	280.4 281.5 284.6 285.6 289.0

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: As reported by each country, Board of Governors of the Federal Reserve System, and Department of Labor (Bureau of Labor Statistics).

TABLE B-109. Civilian unemployment rate, and hourly compensation, major industrial countries, 1986-2012

[Quarterly data seasonally adjusted]

Year or quarter	United						
	States	Canada	Japan	France	Germany ¹	Italy	United Kingdom
			Civilian u	nemployment rate	(Percent) ²		
1986 1987 1988 1989	7.0 6.2 5.5 5.3 ³ 5.6	9.2 8.4 7.4 7.1	2.7 2.6 2.4 2.2 2.0	9.0 9.2 8.9 8.3 8.0	6.6 6.3 6.3 5.7 5.0	7.5 7.9 7.9 7.8 7.0	11.4 10.5 8.6 7.3 7.1
1991 1992 1993 1994 1995 1996	6.8 7.5 6.9 ³ 6.1 5.6 5.4 4.9	9.8 10.7 10.8 ³ 9.6 8.6 8.8 8.4	2.0 2.1 2.4 2.6 2.9 3.1 3.1	8.2 9.1 10.2 10.8 10.2 10.7 10.8	³ 5.6 6.7 8.0 8.5 8.2 9.0	³ 6.9 7.3 ³ 9.8 10.8 11.3 11.3	8.9 10.0 10.4 9.5 8.7 8.1 7.0
1998 1999 2000 2001 2002 2002 2003 2004	4.5 4.2 4.0 4.7 5.8 6.0 5.5	7.7 7.0 6.1 6.5 7.0 6.9 6.4	3.8 4.2 4.4 4.5 4.9 4.6 4.2	10.4 10.1 8.6 7.8 8.0 8.6 9.0	9.3 38.5 7.8 7.9 8.6 9.3 10.3	11.4 11.0 10.1 9.1 8.6 8.5 8.1	6.3 6.0 5.5 5.1 5.2 5.0 4.8
2005 2006 2007 2008 2009 2010 2010	5.1 4.6 4.6 5.8 9.3 9.6 8.9	6.0 5.5 5.2 5.3 7.3 7.1 6.5	3.8 3.6 3.6 3.7 4.8 4.8	9.0 8.9 8.1 7.5 9.2 9.5 9.4	³ 11.2 10.3 8.7 7.6 7.8 7.1 6.0	7.8 6.9 6.2 6.8 7.9 8.5 8.5	4.9 5.5 5.4 5.7 7.7 7.9 8.1
2012	8.1 9.0 9.1 9.0 8.7 8.2	6.7 6.5 6.3 6.5 6.4	4.4 4.3 4.0 4.1 4.2	9.2 9.2 9.3 9.5 9.7	6.2 6.0 5.9 5.8 5.7	8.1 8.1 8.6 9.3	7.8 7.9 8.3 8.4 8.2
II	8.2 8.0 7.8	6.4 6.3	4.0 3.8	9.9 10.0	5.7 5.8	10.6 10.7	8.1 7.9
	7.0		acturing hourly cor	npensation in U.S.	dollars (Index, 2002		
1986 1987 1988 1989	53.8 55.6 57.5 59.3	64.5 69.2 78.0 84.9	48.5 58.2 67.2 66.1	54.1 64.7 67.6 66.7	46.2 58.3 62.1 61.0	61.2 75.9 81.2 85.0	41.9 51.5 59.0 57.5
1990 1991 1992 1993 1994 1995 1996 1997 1998	62.1 65.8 68.9 70.5 72.2 73.4 74.6 76.5 81.2 84.8	91.8 100.0 99.4 94.2 91.5 93.3 95.3 95.3 96.1	67.2 77.1 84.8 99.5 110.2 123.8 108.0 100.3 95.0 109.3	81.8 83.5 93.5 91.1 96.4 110.6 109.7 99.5 99.3	76.3 78.9 92.1 92.3 98.5 117.7 117.3 103.5 103.9	104.8 110.0 118.0 96.3 99.1 103.6 105.6 105.9 105.9	70.3 79.0 79.0 69.4 72.4 76.1 74.9 82.5 89.4
2000 2001 2001 2002 2003 2004 2004 2005 2006 2007 2008 2009	91.3 94.8 100.0 108.0 108.9 112.5 114.8 118.5 123.5 128.6	99.0 97.6 100.0 115.8 129.0 145.3 163.1 177.4 181.6 171.9	114.6 102.9 100.0 105.7 112.0 108.3 100.9 99.4 117.2 129.8	89.7 89.3 100.0 122.8 139.3 144.4 151.4 168.5 185.8 183.6	92.7 92.7 100.0 122.2 135.0 136.7 143.4 157.9 174.0 171.7	92.1 92.1 100.0 124.3 141.5 145.8 150.3 168.5 189.1 184.8	91.4 90.2 100.0 115.2 135.6 141.9 152.4 170.8 163.3 142.2

¹ Prior to 1991 data are for West Germany only.

Source: Department of Labor (Bureau of Labor Statistics).

¹ Prior to 1991 data are for West Germany only.
² Civilian unemployment rates, approximating U.S. concepts. Quarterly data for Germany 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), Germany (1991, 1999, and 2005), Italy (1991 and 1993), and the United States (1990 and 1994). For details, see *International Comparisons of Annual Labor Force Statistics, Adjusted to U.S. Concepts, 16 Countries, 1970—2011*, June 7, 2012, Appendix B, at http://www.bis.gov/lic/fiscomparelf/country_notes.htm.
⁴ Hourly compensation in manufacturing, U.S. dollar basis; data relate to all employed persons (employees and self-employed workers). For details, see *International Comparisons of Manufacturing Productivity and Unit Labor Cost Trends, 2011*, December 6, 2012.

TABLE B-110. Foreign exchange rates, 1993-2012

[Foreign currency units per U.S. dollar, except as noted; certified noon buying rates in New York]

			F	,			, 3				
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	1.4129	0.9967	2.2401		2.8132	261.90	0.013	398.85	4.4294	3.2171	2.4724
1993 1994 1995 1996 1997 1998	.6799 .7316 .7407 .7828 .7437 .6291 .6454	1.2902 1.3664 1.3725 1.3638 1.3849 1.4836 1.4858	5.7795 8.6397 8.3700 8.3389 8.3193 8.3008 8.2783	1.0653	1.6545 1.6216 1.4321 1.5049 1.7348 1.7597	111.08 102.18 93.96 108.78 121.06 130.99 113.73	3.116 3.385 6.447 7.600 7.918 9.152 9.553	805.75 806.93 772.69 805.00 953.19 1,400.40 1,189.84	7.7956 7.7161 7.1406 6.7082 7.6447 7.9522 8.2740	1.4781 1.3667 1.1812 1.2361 1.4514 1.4506 1.5045	1.5016 1.5319 1.5785 1.5607 1.6376 1.6573 1.6172
2000 2001 2001 2002 2003 2004 2005 2006 2006 2007 2008 2009	.5815 .5169 .5437 .6524 .7365 .7627 .7535 .8391 .8537 .7927	1.4855 1.5487 1.5704 1.4008 1.3017 1.2115 1.1340 1.0734 1.0660 1.1412 1.0298	8.2784 8.2770 8.2771 8.2772 8.2768 8.1936 7.9723 7.6058 6.9477 6.8307	.9232 .8952 .9454 1.1321 1.2438 1.2449 1.2563 1.3711 1.4726 1.3935		107.80 121.57 125.22 115.94 108.15 110.11 116.31 117.76 103.39 93.68 87.78	9.459 9.337 9.663 10.793 11.290 10.894 10.906 10.928 11.143 13.498	1,130.90 1,292.01 1,250.31 1,192.08 1,145.24 1,023.75 954.32 928.97 1,098.71 1,274.63 1,155.74	9.1735 10.3425 9.7233 8.0787 7.3480 7.4710 7.3718 6.7550 6.5846 7.6539 7.2053	1.6904 1.6891 1.5567 1.3450 1.2428 1.2459 1.2532 1.1999 1.0816 1.0860	1.5156 1.4396 1.5025 1.6347 1.8330 1.8204 1.8434 2.0020 1.8545 1.5661
2011 2012	1.0332 1.0359	.9887 .9995	6.4630 6.3093	1.3931 1.2859		79.70 79.82	12.427 13.154	1,106.94 1,126.16	6.4878 6.7721	.8862 .9377	1.6043 1.5853
2011: I	1.0055 1.0626 1.0496 1.0133	.9856 .9677 .9803 1.0227	6.5783 6.4986 6.4155 6.3584	1.3699 1.4399 1.4123 1.3476		82.24 81.56 77.62 77.34	12.060 11.723 12.332 13.638	1,118.58 1,082.63 1,084.50 1,144.16	6.4779 6.2607 6.4783 6.7460	.9404 .8699 .8247 .9127	1.6027 1.6309 1.6102 1.5718
2012: I	1.0557 1.0103 1.0396 1.0386	1.0009 1.0102 .9954 .9912	6.3099 6.3305 6.3516 6.2437	1.3121 1.2836 1.2508 1.2977		79.40 80.07 78.60 81.21	12.966 13.533 13.164 12.941	1,129.61 1,151.78 1,132.62 1,089.71	6.7462 6.9474 6.7433 6.6463	.9206 .9365 .9626 .9309	1.5721 1.5828 1.5801 1.6065

Trade-weighted	متنامينا	of the	110	dollar	
Trane-weinnten	vallie	or me	11.2	nonar	

		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			
1993	93.2 91.3 84.2 87.3 96.4 98.8	83.78 90.87 92.65 97.46 104.43 115.89 116.16	89.90 88.43 83.41 87.25 93.93 98.45 97.06	63.37 80.54 92.51 98.24 104.64 125.89 129.20	89.13 88.96 86.51 88.52 93.23 101.20 100.34	85.46 85.10 81.24 86.14 93.41 98.47 98.14	102.33 102.34 102.40 99.40 100.45 113.61 112.19			
2000		119.55 126.06 126.83 119.27 113.76 110.84 108.71 103.58 99.88	101.76 107.87 106.18 93.15 85.51 83.86 82.60 77.95 74.39 77.65	129.81 135.92 140.41 143.57 143.38 138.86 135.40 130.23 126.79 135.89	104.16 110.16 110.32 103.66 99.03 97.37 96.25 91.66 87.82 91.40	104.80 112.23 110.62 97.60 90.62 90.37 90.29 86.13 83.13 86.21	112.25 116.81 119.26 120.87 119.47 115.80 113.09 107.51 102.31			
2010 2011 2012		101.82 97.15 99.82	75.34 70.82 73.50	130.37 125.76 128.28	87.11 82.61 84.36	83.81 79.51 82.81	100.21 95.01 95.51			
2011: I II IV		97.75 95.28 95.90 99.63	71.79 69.51 69.71 72.35	125.84 123.32 124.46 129.42	83.16 81.16 81.67 84.47	80.23 78.00 78.55 81.26	95.46 93.45 93.96 97.17			
2012: 		98.87 100.64 100.64 99.18	72.84 73.91 74.07 73.13	126.97 129.57 129.35 127.28	83.82 85.02 84.96 83.63	81.96 83.16 83.52 82.61	95.19 96.54 96.09 94.22			

¹ U.S. dollars per foreign currency unit.
2 European Economic and Monetary Union (EMU) members consists of Austria, Belgium, Cyprus (beginning in 2008), Estonia (beginning in 2011), Finland, France, Germany, Greece (beginning in 2001), Ireland, Italy, Luxembourg, Malta (beginning in 2008), Netherlands, Portugal, Slovakia (beginning in 2009), Slovenia (beginning in 2007), and Spain.
3 G-10 index discontinued after December 1998.
4 Weighted average of the foreign exchange value of the U.S. dollar against the currencies of a broad group of major 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 (OITP) whose currencies do not circulate widely outside the country of issue.
7 Adjusted for changes in consumer price indexes for the United States and other countries.

Source: Board of Governors of the Federal Reserve System.

TABLE B-111. International reserves, selected years, 1992-2012

[Millions of special drawing rights (SDRs); end of period]

A	4000	0000	0000	0000	0010	0044	20	112
Area and country	1992	2002	2008	2009	2010	2011	October	November
World ¹	760,743	1,893,351	4,847,162	5,481,698	6,299,077	6,973,923	7,358,466	7,396,619
Advanced economies 1	557,729	1,160,382	1,674,769	1,954,435	2,196,889	2,439,216	2,610,056	2,621,991
United States	52,995	59,160	52,396	85,519	87,977	98,331	100,799	100,522
Japan	52,937	340,088	656,178	652,926	690,127	820,373	800,455	801,186
United Kingdom Canada	27,300 8,662	27,973 27,225	29,142 28,426	35,881 34,601	44,728 37,015	51,983 42,766	58,601 44,056	58,563 44,331
Euro area (incl. ECB) 1		195,771	154,221	192.559	207,103	218.426	228,970	229,941
Austria	9,703	7,480	6,101	5,491	6,542	7,471	8,191	8,268
Belgium	10,914	9,010	6,306	10,403	10,970	11,927	12,433	12,322
Cyprus Estonia	764 127	2,239 736	416 2,574	524 2,534	350 1,660	344 127	314 183	313 184
Finland	3.862	6,885	4.587	6.250	4.813	5.173	5.584	5.554
France	22,522	24,268	24,630	32,487	38,974	34,404	36,752	38,364
Germany	69,489	41,516	31,846	42,059	44,277	47,416	48,295	48,132
Greece	3,606	6,083	350 572	1,118	976	939 918	966 914	977 913
Ireland Italy	2,514 22,438	3,989 23,798	26,838	1,245 31,955	1,203 33,722	34.796	36.123	35.809
Luxembourg	66	114	20,030	469	488	589	576	584
Malta	927	1,625	239	340	348	326	422	392
Netherlands	17,492	7,993	8,140	12,088	12,683	13,888	15,143	15,107
Portugal	14,474	8,889	1,281	1,996	2,802	1,717	1,873	1,900
Slovak Republic Slovenia	520	6,519 5,143	11,631 567	477 620	503 605	592 545	569 505	568 496
Spain	33,640	25,992	8,376	11,930	12,749	21,709	23,501	23,544
		15,307	20.015	24.935	25,193	27.957	30.503	28,597
AustraliaChina, P.R.: (Hong Kong)	25.589	82,308	118.468	163,152	174,446	185.830	195,786	198,784
Czech Republic		17,342	23,812	26,268	27,227	25,853	28,258	28,480
Denmark	8,090	19,924	26,347	47,464	47,803	53,277	56,222	56,132
Iceland	364	326	2,284 27,601	2,435 38,663	3,703 46,043	5,506 48,769	2,731 49.265	2,665 49,304
Israel Korea	3,729 12.463	17,714 89.272	130.607	172.201	189,293	198.238	208.113	210,109
New Zealand	2,239	3,650	7,175	9,947	10.859	11.081	12,694	12,802
Norway	8,725	23,579	33,079	31,166	34,284	32,175	35,576	36,324
San Marino		135	459	504	292	223		
Singapore	29,048 16.667	60,322 12.807	112,955 16,967	119,661 27.481	146,428	154,714 28.817	164,878	166,507
Sweden Switzerland	27,100	31,693	30,426	63,810	27,781 146,285	183,152	29,599 304,088	29,703 306,480
Taiwan Province of China	60,333	119,381	189,864	222,586	248,527	251,602	259,612	261,718
Emerging and developing economies	195,929	729,126	3,168,632	3,523,707	4,098,458	4,530,994	4,744,657	4,770,883
By area:								
Déveloping Asia	63,406	368,214	1,657,594	1,977,867	2,375,427	2,643,163	2,703,297	2,715,069
China, P.R. (Mainland)	15,441	214,815	1,266,206	1,542,335	1,862,240	2,087,326		
India	4,584	50,174	161,036	169,782	179,375	1//,330	175,373	175,782
Europe Russia	13,684	107,521 32,840	480,693 267,908	501,070 266,503	550,677 288,925	567,042 296,673	590,870 309,547	593,704 311,348
Middle East and North Africa	45.316	107,687	604.017	591,275	655,152	721,669	808.881	815,450
Sub-Saharan Africa	8,421	27,004	102,116	102,651	104,519	116,222	126,059	127,088
Western Hemisphere	65,102	118,700	324,212	350,844	412,682	482,898	515,550	519,572
Brazil	16,457	27,593	125,239	151,448	186,434	228,243	243,377	244,295
Mexico	13,800	37,223	61,766	63,536	78,101	93,908	104,318	105,278
Memoranda: Export earnings: Fuel	40,861	121 200	001 614	061 500	939,233	1 020 000	1 150 647	1 150 /11
Export earnings: Fuel Export earnings: Nonfuel	155.068	131,380 597,746	901,614 2,267,018	861,593 2,662,114	3,159,225	1,039,808 3,491,186	1,150,647 3,594,010	1,159,411 3,611,472
	100,000	JJ1,140	2,207,010	2,002,114	3,133,423	3,431,100	3,334,010	3,011,472

¹ Includes data for European Central Bank (ECB) beginning 1999. Detail does not add to totals shown.

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: 1.37500 in 1992; 1.35952 in 2002; 1.54027 in 2008; 1.56769 in 2009; 1.54003 in 2010; 1.53527 in 2011; 1.54057 in October 2012; and 1.53481 in November 2012.

TABLE B-112. Growth rates in real gross domestic product, 1994-2013 [Percent change]

Area and country	1994– 2003 annual average	2004	2005	2006	2007	2008	2009	2010	2011	2012 1	2013 1
World	3.4	4.9	4.6	5.3	5.4	2.8	6	5.1	3.9	3.2	3.5
Advanced economies	2.8	3.1	2.6	3.0	2.8	.1	-3.5	3.0	1.6	1.3	1.4
Of which: United States Euro area ² Germany France Italy Spain Japan United Kingdom Canada	3.3 2.2 1.5 2.2 1.7 3.6 0.9 3.5	3.5 2.2 .7 2.5 1.7 3.3 2.4 2.9 3.1	3.1 1.7 .8 1.8 .9 3.6 1.3 2.8 3.0	2.7 3.2 3.9 2.5 2.2 4.1 1.7 2.6 2.8	1.9 3.0 3.4 2.3 1.7 3.5 2.2 3.6 2.2	3 .4 .8 1 -1.2 .9 -1.0 -1.0	-3.1 -4.4 -5.1 -3.1 -5.5 -3.7 -5.5 -4.0 -2.8	2.4 2.0 4.0 1.7 1.8 3 4.5 1.8 3.2	1.8 1.4 3.1 1.7 .4 6 .9 2.6	2.3 4 .9 .2 -2.1 -1.4 2.0 2 2.0	2.0 2 .6 .3 -1.0 -1.5 1.2 1.0
Memorandum: Newly industrialized Asian economies ³	5.1	5.9	4.8	5.8	5.9	1.8	7	8.5	4.0	1.8	3.2
Emerging market and developing economies	4.4	7.5	7.3	8.2	8.7	6.1	2.7	7.4	6.3	5.1	5.5
Regional groups: Central and eastern Europe Commonwealth of Independent States 4 Russia Developing Asia China India Latin America and the Caribbean Brazil Mexico Middle East and North Africa Sub-Saharan Africa	0.5 0.7 7.0 9.4	7.3 8.2 7.2 8.5 10.1 7.6 6.0 5.7 4.0 6.2 7.1	5.9 6.4 9.5 11.3 9.0 4.7 3.2 5.3 6.2	6.4 8.8 8.2 10.3 12.7 9.5 5.7 4.0 5.1 6.3 6.4	5.4 9.0 8.5 11.4 14.2 10.0 5.8 6.1 3.2 5.7 7.1	3.2 5.4 5.2 7.9 9.6 6.9 4.2 5.2 4.5 5.6	-3.6 -6.4 -7.8 7.0 9.2 5.9 -1.5 -3 -6.0 2.6	4.6 4.8 4.3 9.5 10.4 10.1 6.2 7.5 5.6 5.0	5.3 4.9 4.3 8.0 9.3 7.9 4.5 2.7 3.9 3.5 5.3	1.8 3.6 3.6 6.6 7.8 4.5 3.0 1.0 3.8 5.2 4.8	2.4 3.8 3.7 7.1 8.2 5.9 3.5 3.5 3.5

¹ All figures are forecasts as published by the International Monetary Fund. For the United States, the second estimate by the Department of Commerce shows that real GDP rose 2.2 percent in 2012.

Sources: Department of Commerce (Bureau of Economic Analysis) and International Monetary Fund.

² Euro area consists of: Austria, Belgium, Cyprus, Estonia, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, Malta, Netherlands, Portugal, Slovak

Republic, Slovenia, and Spain.

3 Consists of Hong Kong SAR (Special Administrative Region of China), Korea, Singapore, and Taiwan Province of China.

4 Includes Georgia and Mongolia, which are not members of the Commonwealth of Independent States but are included for reasons of geography and similarities in economic structure.

Note: For details on data shown in this table, see World Economic Outlook, October 2012, and World Economic Outlook Update, January 2013, published by the International Monetary Fund.