

ECONOMIC REPORT OF THE PRESIDENT



Transmitted to the Congress February 2012

Together With

THE ANNUAL REPORT

of the

COUNCIL OF ECONOMIC ADVISERS

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OF THE

PRESIDENT



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C O N T E N T S

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ECONOMIC R	EPORT OF THE PRESIDENT1
ANNUAL REP	ORT OF THE COUNCIL OF ECONOMIC ADVISERS* 7
CHAPTER 1.	TO RECOVER, REBALANCE, AND REBUILD21
CHAPTER 2.	THE YEAR IN REVIEW AND THE YEARS AHEAD
CHAPTER 3.	RESTORING FISCAL RESPONSIBILITY81
CHAPTER 4.	STABILIZING AND HEALING THE HOUSING MARKET99
CHAPTER 5.	INTERNATIONAL TRADE AND FINANCE129
CHAPTER 6.	JOBS AND INCOME: TODAY AND TOMORROW163
CHAPTER 7.	PRESERVING AND MODERNIZING THE SAFETY NET197
CHAPTER 8.	IMPROVING THE QUALITY OF LIFE THROUGH SMART REGULATION, INNOVATION, CLEAN ENERGY, AND PUBLIC INVESTMENT231
REFERENCES	
APPENDIX A	REPORT TO THE PRESIDENT ON THE ACTIVITIES OF THE COUNCIL OF ECONOMIC ADVISERS DURING 2011293
APPENDIX B.	STATISTICAL TABLES RELATING TO INCOME, EMPLOYMENT, AND PRODUCTION307

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

ECONOMIC REPORT OF THE PRESIDENT

ECONOMIC REPORT OF THE PRESIDENT

To the Congress of the United States:

One of the fundamental tenets of the American economy has been that if you work hard, you can do well enough to raise a family, own a home, send your kids to college, and put a little money away for retirement. That's the promise of America.

The defining issue of our time is how to keep that promise alive. We can either settle for a country where a shrinking number of people do very well while a growing number of Americans barely get by, or we can restore an economy where everyone gets a fair shot, everyone does their fair share, and everyone plays by the same set of rules.

Long before the recession that began in December 2007, job growth was insufficient for our growing population. Manufacturing jobs were leaving our shores. Technology made businesses more efficient, but also made some jobs obsolete. The few at the top saw their incomes rise like never before, but most hardworking Americans struggled with costs that were growing, paychecks that were not, and personal debt that kept piling up.

In 2008, the house of cards collapsed. We learned that mortgages had been sold to people who could not afford them or did not understand them. Banks had made huge bets and doled out big bonuses with other people's money. Regulators had looked the other way, or did not have the authority to stop the bad behavior. It was wrong. It was irresponsible. And it plunged our economy into a crisis that put millions out of work, saddled us with more debt, and left innocent, hardworking Americans holding the bag.

In the year before I took office, we lost nearly 5 million private sector jobs. And we lost almost another 4 million before our policies were in full effect

Those are the facts. But so are these: In the last 23 months, businesses have created 3.7 million jobs. Last year, they created the most jobs since 2005. American manufacturers are hiring again, creating jobs for the first time since the late 1990s. And we have put in place new rules to hold Wall Street accountable, so a crisis like this never happens again.

Some, however, still advocate going back to the same economic policies that stacked the deck against middle-class Americans for way too many years. And their philosophy is simple: We are better off when everybody is left to fend for themselves and play by their own rules.

That philosophy is wrong. The more Americans who succeed, the more America succeeds. These are not Democratic values or Republican values. They are American values. And we have to reclaim them.

This is a make-or-break moment for the middle class, and for all those who are working to get into the middle class. It is a moment when we can go back to the ways of the past—to growing deficits, stagnant incomes and job growth, declining opportunity, and rising inequality—or we can make a break from the past. We can build an economy by restoring our greatest strengths: American manufacturing, American energy, skills for American workers, and a renewal of American values—an economy built to last.

When it comes to the deficit, we have already agreed to more than \$2 trillion in cuts and savings. But we need to do more, and that means making choices. Right now, we are poised to spend nearly \$1 trillion more on what was supposed to be a temporary tax break for the wealthiest 2 percent of Americans. Right now, because of loopholes and shelters in the tax code, a quarter of all millionaires pay lower tax rates than millions of middle-class households. I believe that tax reform should follow the Buffett Rule. If you make more than \$1 million a year, you should not pay less than 30 percent in taxes. In fact, if you are earning a million dollars a year, you should not get special tax subsidies or deductions. On the other hand, if you make under \$250,000 a year, like 98 percent of American families do, your taxes should not go up.

Americans know that this generation's success is only possible because past generations felt a responsibility to each other, and to the future of their country. Now it is our turn. Now it falls to us to live up to that same sense of shared responsibility.

This year's Economic Report of the President, prepared by the Council of Economic Advisers, describes the emergency rescue measures taken to end the recession and support the ongoing recovery, and lays out a blueprint for an economy built to last. It explains how we are restoring our strengths as a Nation—our innovative economy, our strong manufacturing base, and our workers—by investing in the technologies of the future, in companies that create jobs here in America, and in education

and training programs that will prepare our workers for the jobs of tomorrow. We must ensure that these investments benefit everyone and increase opportunity for all Americans or we risk threatening one of the features that defines us as a Nation—that America is a country in which anyone can do well, regardless of how they start out.

No one built this country on their own. This Nation is great because we built it together. If we remember that truth today, join together in common purpose, and maintain our common resolve, then I am as confident as ever that our economic future is hopeful and strong.

THE WHITE HOUSE

FEBRUARY 2012



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

LETTER OF TRANSMITTAL

COUNCIL OF ECONOMIC ADVISERS Washington, D.C., February 17, 2012

Mr. President:

The Council of Economic Advisers herewith submits its 2012 Annual Report in accordance of the Employment Act of 1946 as amended by the Full Employment and Balanced Growth Act of 1978.

Sincerely,

Alan B. Krueger
Chairman

Katharine G. Abraham

Carl Shapin

Member

Carl Shapiro

Member



C O N T E N T S

	Page
CHAPTER 1. TO RECOVER, REBALANCE, AND REBUILD	21
RECOVERING FROM THE GREAT RECESSION	23
REBALANCING AT HOME AND ABROADRestoring Fiscal Responsibility	
REBUILDING A STRONGER ECONOMY Jobs and Income: Today and Tomorrow	
Preserving and Modernizing the Safety Net	32
Improving the Quality of Life through Smart Regulation, Innovation, Clean Energy, and Public Investment	33
CONCLUSION	34
CHAPTER 2. THE YEAR IN REVIEW AND THE YEARS AHEAD	37
AN ECONOMY IN RECOVERY: KEY EVENTS OF 2011	38
AN ECONOMY IN RECOVERY: THE LINGERING EFFECTS OF FINANCIAL CRISES	42
DEVELOPMENTS IN 2011 AND THE NEAR-TERM OUTLOOK Consumption and Saving	
Developments in Housing Markets	51
Business Fixed Investment	53
Manufacturing Output	54
Business Inventories	57
Government Outlays, Consumption, and Investment	57
State and Local Governments	59
Real Exports and Imports	60
Labor Market Trends	61
Wages, Labor Productivity, and Prices	63
Financial Markets	66

Small Businesses and the Recovery	67
THE LONG-TERM OUTLOOK	
Growth in GDP over the Long Term	76
CONCLUSION	79
CHAPTER 3. RESTORING FISCAL RESPONSIBILITY	81
DETERMINANTS OF CURRENT DEFICITSFalling Effective Tax Rates on Upper-Income Taxpayers	
Heterogeneity in Effective Tax Rates among High-Income Taxpayers	86
Addressing the Role Of Exclusions and Deductions in Effective Tax Burdens	87
THE FISCAL OUTLOOK Medium-Term Budget Projections	
The Vital Role of Economic Growth in Future Fiscal Outcomes	91
Improvement in Long-Run Budget Projections	92
THE IMPORTANCE OF RESTORING FISCAL SUSTAINABILITY	93
THE PRESIDENT'S BALANCED APPROACH TO DEFICIT REDUCTION	95
CHAPTER 4. STABILIZING AND HEALING THE HOUSING MARKET	99
THE HOUSING CRISIS AND THE INITIAL POLICY RESPONSES	
Initial Policy Responses to the Crisis	
Negative Equity: An Unprecedented and Pervasive Problem	105
MACROECONOMIC EFFECTS OF HOUSING MARKET WEAKNESS	
Residential Construction and Home Ownership Patterns	
STRUCTURAL PROBLEMS IN HOUSING MARKET	
Incentive Conflicts	119

POLICY ACTIONSBuilding on the Experience of Existing Programs	
New Levers in Housing Policy	
CONCLUSION	
CHAPTER 5. INTERNATIONAL TRADE AND FINANC	E 129
THE EURO-AREA CRISIS AND ITS IMPLICATIONS	
FOR THE UNITED STATESOutlook for Europe and Implications for the	
U.S. Economy	
International Cooperation in Resolving Crises	138
FOREIGN DIRECT INVESTMENT, INTERNATIONAL TRADI	
AND THE U.S. ECONOMY	
Investment in the United States by Foreign Companies.	
The National Export Initiative	143
The Role of Services in Export Growth and America's Current Account Balance	148
Policy Initiatives to Support Export Growth in	
Goods and Services	153
CONCLUSION	161
CHAPTER 6. JOBS AND INCOME:	
TODAY AND TOMORROW	163
JOBS AND EMPLOYMENT	164
THE DYNAMICS OF LABOR MARKET TRENDS Job Dynamics	
Worker Flows	
Earnings and Income Mobility over the Career and between Generations	174
Overall Trends in Income and Rising Inequality	
Long-Term Unemployment	
PREPARING FOR TOMORROW'S LABOR MARKET Education and the Workers of Tomorrow	
Increasing Educational Attainment	189
Federally Supported Job Training	192
CONCLUSION	195

CHAPTER 7. PRESERVING AND MODERNIZING THE SAFETY NET	107
UNEMPLOYMENT INSURANCE The Economics of Unemployment Insurance	
Recent Trends in UI Receipt and Its Effect on	201
Household Income	202
Policy Innovations	203
OTHER SAFETY NET PROGRAMS	206
HEALTH INSURANCE	209
The Economics of Employer-Sponsored Health Insurance	
Medicaid and CHIP: A Health Care Safety Net for Children	211
Expanding Health Care Coverage: The Affordable Care Act	214
Provisions of the Affordable Care Act Now in Place	
The Economic Benefits of Expanding Insurance Coverage	
The Affordable Care Act and Medicare	
RETIREMENT SECURITY	220
Declining Retirement Preparedness	
Challenges to the Retirement Safety Net	222
Policies to Address Retirement Saving Challenges	228
CONCLUSION	229
CHAPTER 8. IMPROVING THE QUALITY OF LIFE THRO SMART REGULATION, INNOVATION, CLEAN ENERGY, PUBLIC INVESTMENT	AND
A SMART APPROACH TO REGULATIONS Designing Smart Regulations	
Smart Regulations in Practice	
Retrospective Analysis	
"Look-Back" Initiative	
Improvements in Everyday Life	
INNOVATION	243
Measuring Innovation	
Intellectual Property Rights and Patent Reform	246

	Private and Public Investments in R&D	247
	Commercialization	250
	Wireless Broadband and Spectrum Policy	251
C	CLEAN & SECURE ENERGYEnhancing Energy Security	
	Reducing Demand	253
	Increasing Domestic Energy Supplies	253
	Reducing Emissions	254
	Supporting Clean Energy R&D and Infrastructure	255
I	NFRASTRUCTURE	259
	The State of the Nation's Infrastructure	259
	Government and Private Sector Roles in Infrastructure	261
	Financing Infrastructure Investments	262
	Recent and Current Federal Infrastructure Initiatives	264
C	CONCLUSION	266
REFI	ERENCES	267
	APPENDIXES	
A.	Report to the President on the Activities of the Council of	
	Economic Advisers During 2011	293
B.	Statistical Tables Relating to Income, Employment, and	
	Production	307
	FIGURES	
1-1.	Median Household Income, 1979–2010	22
1-2.	Change in Nonfarm Payrolls, 2007-2011	27
1-3.	Unemployment Rate Increases in Recessions Associated with	
	Financial Crises	
1-4.	Earnings Ratio: College Degree or More to High School Degree 1963–2010	
2-1.	Real GDP Growth by Quarter, 2007–2011	
2-1. 2-2.	Real GDP During Recoveries	
2-2. 2-3.	Real GDP in Recessions Associated with Financial Crises	
2-4.	Unemployment Rate Increases in Recessions Associated with	10
	Financial Crises	45

2-5.	Consumption and Wealth Relative to Disposable Personal			
	Income (DPI), 1952–2011	47		
2-6.	Business Fixed Investment and Cash Flow, 1990-2011	55		
2-7.	Weekly Initial Unemployment Insurance Claims, 2004–2012	61		
2-8.	Private Nonfarm Employment During Recoveries	62		
2-9.	Unemployment Rate, 1979–2011	63		
2-10.	Consumer Price Inflation, 2004–2011	65		
2-11.	Price Markup over Unit Labor Costs, Nonfarm Business,			
	1947–2011			
2-12.	10-Year Treasury Yields, 2004-2012			
2-13.	Private Sector Job Recovery by Firm Size, 2007–2011			
2-14.	Small Business Commercial and Industrial Loans, 2007–2011			
2-15.	Employment Outlook for Small Businesses, 2003–2012	73		
2-16.	Labor Force Participation and Educational Enrollment,			
	Ages 16–24, 2002–2011	78		
3-1.	Selected Components of Deficit Projections: 2009–2019	84		
3-2.	Average Tax Rates for Selected Income Groups Under a			
	Fixed Income Distribution, 1960–2010	86		
3-3.	Average Individual Income Tax Rates by Income Quintile,			
	2000 and 2008	87		
3-4.	Projected Medium-Term Budget Deficits, 2011-2022	89		
4-1.	Housing Busts in U.S. History	102		
4-2.	Price-to-Rent Ratio and Mortgage Debt	103		
4-3.	S&P/Case-Shiller: January 2009 Expectations of Future			
	House Prices and Actual Price Index	104		
4-4.	The Distribution of Underwater Mortgages By State, 2011	106		
4-5.	Employment Growth: Nontradable Industries	114		
5-1.	Real GDP Growth, 2000–2011	130		
5-2.	Economic and Fiscal Indicators for Selected Euro-Area			
	Countries	132		
5-3.	10-Year Bond Spreads Relative to Germany, 2010–2012	134		
5-4.	Share of Each State's Goods Exports to the European			
	Union by State, 2010	138		
5-5.	Annual FDI Inflows, Selected Countries, 2006–2010			
5-6.	Change in Manufacturing Unit Labor Costs, 2002–2010	146		
5-7.	U.S. Current Account Balance and Its Components,			
	2000-2011	149		
5-8.	Contribution to Services Surplus by Service Sector			
	Category, 2010	151		
	0 1/			

6-1.	Monthly Change in Private Sector Employment, 1980–2011164
6-2.	Unemployment Rate, 1980–2012
6-3.	BDS Estimates of Annual Gross Job Gain and Loss Rates,
	1980–2009170
6-4.	BED Estimates of Quarterly Gross Job Gain and Loss Rates,
	1990–2011171
6-5.	Hires and Separations, 2001–2011172
6-6.	Flows into and out of Unemployment as Percent of the
	Labor Force, 1990–2012173
6-7.	The Great Gatsby Curve: Inequality and Intergenerational
	Mobility177
6-8.	Percent of Households with Annual Income within 50 Percent
	of the Median
6-9.	Growth in Real After–Tax Income, 1979 –2007179
6-10.	Share of Total U.S. Income Earned by Top 1 Percent,
	1913–2010
6-11.	Median Duration of Unemployment and Long-Term
	Unemployed as a Percent of Total Unemployed, 1980–2011182
6-12.	Average Annual Earnings by Worker Education Level,
	1963–2010
6-13.	Difference Between Projected Employment Growth Rate by
	Education and Average Projected Employment Growth Rate,
	2010-2020
7-1.	Share of Household Income from Unemployment Insurance
	among Recipients in 2010, by Household Type203
7-2.	Percentage of Private Sector Establishments Offering Health
	Insurance by Number of Employees, 1996–2010211
7-3.	Percentage of Workers Without Health Insurance and the
	Ratio of Per Capita Health Expenditures to Median Income,
	1979–2010212
7-4.	Percentage of Children and Adults Without Health Insurance,
	1988–2010213
7-5.	Percentage of Young Adults Without Health Insurance,
	2010 Q3 and 2011 Q2216
7-6.	The National Retirement Risk Index, 1983–2009223
7-7.	Percent of Individuals with Various Shares of Family Income
	from Social Security, by Age of Householder, 2010225
8-1.	Benefits and Costs of Regulations, 2001–2011235
8-2.	Economic Growth, Vehicle Safety, and Air Quality,
	1980-2010

TABLES

2-1.	Administration Economic Forecast74
2-2.	Alternative Labor Market Forecasts, as of February 2012
2-3.	Components of Actual and Potential Real GDP Growth,
	1952–2022
3-1.	Distribution of Average Federal Tax Rates
5-1.	Growth in U.S. Goods Exports, by Product145
5-2.	Dissection of U.S. Goods Export Growth, by Market148
5-3.	Cross-Border Services Exports by Type and Country, 2010 154
5-4.	Cross-Border Services Imports by Type and Country, 2010 154
7-1.	Number of Participants and Total Federal Expenditures
	for Safety Net Programs, 2010
7-2.	Distribution of Wealth Components for Households
	Aged 65–69, 2008
	BOXES
Box 2-	1: SBA's Role in Financing Small Firms During the Recovery70
	-1: Work-Life Balance
Box 8-	1 Developing Domestic Energy: Shale Gas and Shale Oil256
	DATA WATCH
Data V	Natch 1-1: Innovation in Measurement24
Data V	Natch 1-2: Revisions to Estimates of the Gross Domestic Product 26
Data V	Natch 2-1: The Data Implications of the Transition to a
	Services-Based Economy
Data V	Natch 2-2: Investment in Intangibles56
Data V	Natch 3-1: Data from the IRS Statistics of Income Division92
Data V	Natch 3-2: Measuring Government Debt across Countries96
Data V	Natch 4-1: Need for a Comprehensive Source of Data on
	Mortgage Debt and Performance
Data V	Natch 4-2: Need for a Comprehensive Source of Data
	on Home Sales116
Data V	Natch 5-1: The Role of the New Office of Financial Research in
	Combating Global Financial Risks
Data V	Natch 6-1: Measurement of Startups169
Data V	Natch 6-2: Intergenerational Mobility176
	Natch 7-1: The Census Bureau's Supplemental Poverty Measure 198
Data V	Natch 7-2: Health Data for Policy218
Data V	Natch 8-1: The Value of Information—the PACE Survey240

ECONOMICS APPLICATIONS

Economic Application Box 3-1: Measuring Progressivity	
in the Tax Code	90
Economics Application Box 4-1: Making a Decision about	
Refinancing a Mortgage	108
Economics Application Box 6-1: Calculating the Cost of College	193
Economics Application Box 7-1: Financial Literacy and	
Common Mistakes Made by Retirement Savers	22 <i>6</i>
Economics Application Box 8-1: Comparing Benefits and Costs	236



CHAPTER 1

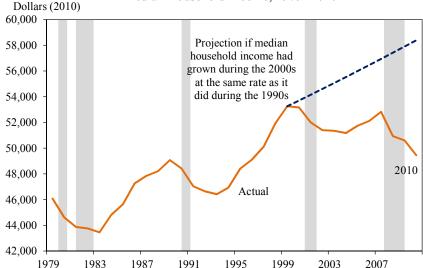
TO RECOVER, REBALANCE, AND REBUILD

The problems that caused the deep recession that began at the end of 2007 and lasted until mid-2009 were a long time in the making and will not be solved overnight. But in 2011, the Nation continued to recover from the Great Recession and to make progress toward building a stronger foundation for more balanced and sustainable economic growth in the future. The economy has expanded for 10 straight quarters. As a result of this growth, by the third quarter of 2011, the real gross domestic product (GDP) of the United States had surpassed its peak level at the start of the 2007–09 recession. Sustaining and strengthening the ongoing recovery remains a top priority for the Obama Administration, while seeking to address the fundamental imbalances and other problems that had built up for decades and erupted with the financial and economic crisis in 2008.

The pace of the recovery has not been faster because of the severity of the financial and economic crisis and the unique nature of the problems that led to the crisis in the first place. These problems included excess borrowing in the run-up to the financial crisis that subsequently caused massive deleveraging by households, a massive loss of wealth during the financial crisis that continues to constrain consumption, and excess residential home building during the housing boom that continues to cause weakness in residential construction and the housing sector.

Fundamentally, many of the problems that have plagued the economy in the past decade can be traced to weak income growth for middle-class workers. This can be seen in Figure 1-1, which displays the median household's income each year after adjusting for inflation. Income growth was stagnant for middle-income earners in the 2001–07 period and, as is common, declined in the recessions at the end and beginning of the decade. Had income grown at the same average annual rate in the first decade of the 2000s as it did in the 1990s, middle-income households would have greatly improved their financial situation.

Figure 1-1 Median Household Income, 1979–2010



Note: Shading denotes recession.

Source: CEA calculations and Census Bureau.

A related phenomenon is that the size of the middle class has shrunk. This disturbing trend has taken place over several decades. While those at the top of the income distribution have seen strong income growth, many in the middle and at the bottom have struggled. Many economists have argued that, when confronted with easy credit and nontransparent terms, many families borrowed at an unsustainable rate to make up for the weak income growth they experienced in the 2000s. Strengthening and expanding the middle class, and adequately reforming the financial sector, are therefore at the root of the Obama Administration's strategy to reestablish an economy that is built to last.

In addition to lingering effects of the financial crisis and the long-standing problem of weak income growth for the middle class, the recovery in 2011 faced additional shocks from natural disasters in Asia, unrest in the Middle East that caused oil prices to spike, self-inflicted wounds to confidence from the contentious debt ceiling debate over the summer, and stress in European debt markets. Despite these encumbrances—and with the support, in part, of measures the President signed into law in December 2010, including the payroll tax cut, the extension of unemployment insurance, and 100 percent business expensing—private-sector employment has increased for 23 straight months, and the unemployment rate fell from a high of 10.0 percent in October 2009 to 8.3 percent in January 2012. Over the course of

2011, the unemployment rate fell by 0.9 percentage points, the largest drop in any year since 1994. Most of that decline occurred in the last three months of 2011.

The sharp drop in unemployment toward the end of 2011 took economic forecasters by surprise, because unemployment was projected to remain in the high-8-percent range by many forecasters, including the Council of Economic Advisers (CEA). As part of the Budget process, the CEA, together with the Office of Management and Budget and Treasury officials, made its forecast of economic outcomes in mid-November 2011. Since that forecast was locked down, the reported unemployment rate has now fallen by 0.7 percentage points, and the advance estimate of GDP growth for the fourth quarter of 2011 exceeded what most forecasters had expected in November. In view of the new information, the consensus of Blue Chip forecasters lowered its forecast of the unemployment rate for the end of 2012 by about 0.8 percentage point, to 8.1 percent. The more optimistic private forecasters expect the rate to be below 8.0 percent at the end of the year. In Chapter 2, the Report illustrates the latest forecasting range for the unemployment rate. One of the reasons for the range of forecasting uncertainty is that it is unclear how many of the President's job creation initiatives Congress will enact in the coming year. Respected private forecasters have estimated that a continuation of the 2 percentage point payroll tax cut and extended unemployment insurance benefits through the remainder of 2012 could significantly boost economic growth and job creation.

The Administration's economic strategy continues to be to: 1) pursue avenues to raise demand for U.S. goods and services in the short run to support the ongoing recovery and put more people back to work; 2) develop credible policies to return to a fiscally sustainable path in the intermediate and long term; and 3) invest in education, innovation, research, domestic energy, and infrastructure in order to build a stronger foundation for future economic growth and an expanding middle class. Put simply, the Nation needs to recover, rebalance, and rebuild. As described in this Report, in many instances, when Congress has not acted, the President has taken steps to implement this agenda.

RECOVERING FROM THE GREAT RECESSION

When President Obama took office on January 20, 2009, the U.S. economy was contracting at an alarming rate, and employment was falling by more than 700,000 jobs a month. The plunge in economic activity was even deeper than the Bureau of Economic Analysis initially reported: revised estimates showed that the economy contracted at an 8.9 percent annualized

Data Watch 1-1: Innovation in Measurement

Economic statistics are central to understanding how the economy is working—whether consumer spending is growing or shrinking, the extent to which businesses are investing in equipment and software, the number of people currently employed, and the wages they are earning, among many other examples. This year's Economic Report of the President highlights the role that accurate and timely economic measurement plays in supporting sound economic decisions by policymakers, businesses, and families. In a series of Data Watch boxes, the Report offers examples of recently developed data series that shed light on economic performance, significant gaps in available economic data, and opportunities for improvements in the Nation's economic measures.

The growing integration of technology in our daily lives has created an abundance of new possibilities for producing better and more timely data based on nontraditional sources of information. As Census Bureau Director Robert Groves has written, "(t)he volume of data generated outside the government statistical systems is increasing much faster than the volume of data collected by the statistical systems; almost all of these data are digitized in electronic files" (Groves 2012). Nontraditional sources of information include both digital administrative data (e.g., tax records and records related to participation in government transfer programs) and records generated in the private sector (e.g., data from Internet searches, scanner data and social media data).

There is a long history of using administrative records to produce economic statistics—under strict standards of confidentiality. The Obama Administration has endeavored to create new databases that track student performance across different stages of education, as well as the performance of postsecondary educational institutions. Once these databases have been developed, analyses of the outcomes achieved by students with different educational experiences will help to guide improvements in instructional quality and college choice.

Innovative statistics based on electronic records compiled as a byproduct of commercial activity also can be informative. Adding series based on Google Trends to economic forecasting models, for example, can improve those models' predictive power. The number of search queries for a particular make of automobiles in the last two weeks of a month, for instance, turns out to be a good predictor of sales of that car, and the number of searches for real estate agencies is one of the best predictors of current home sales (Choi and Varian 2009).

Unlike government survey data, data based on electronic records generated for commercial or administrative purposes may not be nationally representative, and expanding access to these records, even for purely statistical purposes, can pose privacy concerns that must be addressed. But their use also has the potential to improve and enrich existing official statistics. The Bureau of Economic Analysis, for example, plans to use credit card data to improve its statistics on international travel services. The Census Bureau is exploring the use of administrative data on receipt of government benefits to improve estimates of income in its household surveys. Other uses of both commercial and administrative data to improve official statistics can easily be imagined. Government statistical agencies can play a vital role in this burgeoning field by providing survey data to improve the representativeness of nonsurvey data, and the Federal statistical agencies can improve their measures by integrating private-sector information. Progress in this area will ultimately lead to better informed decisions by policymakers, businesses, and families.

rate in the last quarter of 2008, from the initial advanced estimate of 3.8 percent, the largest quarterly downward revision in history. The Administration immediately took bold steps to turn around an economy in free fall. It worked to stem the job losses and put people back to work through the American Recovery and Reinvestment Act of 2009 (the Recovery Act), and it shored up the banking system and stabilized 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 funds from the Troubled Asset Relief Program, and it rescued the American auto industry.

Soon after the Recovery Act was passed, the contraction of GDP slowed markedly to -0.7 percent in the second quarter of 2009 from -6.7 percent in the preceding quarter. Economic growth turned positive in the third quarter of 2009, and the economy has grown at an annualized growth rate of 2.4 percent over the past 10 quarters.

The economy is continuing to recover from the most severe downturn since the Great Depression. Despite numerous adverse headwinds—both domestic and international—that threatened the recovery, the U.S. economy displayed notable resilience in 2011. Private nonfarm employment growth, shown in Figure 1-2, averaged 174,000 jobs per month in 2011, and 218,000 jobs per month over the past three months (ending in January 2012). Private employers added more than 2.1 million jobs in 2011, the most in any year since 2005. At \$15.3 trillion dollars, real GDP now exceeds its pre-recession peak. Clearly, this improvement since the end of the recession represents real progress. Nevertheless, given the depth and severity of the Great Recession,

Data Watch 1-2: Revisions to Estimates of the Gross Domestic Product

The gross domestic product (GDP) is a summary measure of the Nation's economic activity, constructed as the sum of personal consumption, gross private investment, net exports, and government expenditures. The first estimate of GDP appears within a month after the end of the quarter to which it applies and is based, in part, on source data that are preliminary and incomplete. More complete data are available for the second estimate, published the following month, and the third estimate, released the month after that; each of these revisions incorporates new or revised information from private and public sources, including monthly and quarterly Census Bureau surveys. Annual revisions to the National Income and Product Accounts allow the Bureau of Economic Analysis (BEA) to catch up in an organized way with further revisions to the source data used to compute GDP and to incorporate additional data available only at yearly frequencies. About every five years, a benchmark revision incorporates data from the Economic Censuses (Landefeld, Seskin, and Fraumeni 2008).

Between 1983 and 2009, revisions in the annualized growth rate of real quarterly GDP between the first and latest available estimate averaged 1.2 percentage points in absolute value (Fixler, Greenaway-McGrevy, and Grimm 2011). A dramatic example is provided by the revisions to the GDP growth rate for the fourth quarter of 2008, which was originally reported as -3.8 percent and later revised down to -8.9 percent in the annual revision released in July 2011. This was the largest downward revision to the quarterly data ever reported. Taken as a whole, the revised data for 2008 and 2009 indicated that the recent recession was considerably more severe than originally reported.

While revisions to initial GDP estimates for the United States can be substantial, they are smaller than the average for other large developed economies (see, for example, Faust, Rogers, and Wright 2005). And despite sometimes sizable revisions, early estimates of quarterly GDP growth generally do a good job of capturing increases or decreases in growth rates, as well as the timing of cyclical peaks and troughs (Fixler and Grimm 2005). Further, research has found that there is only limited potential to improve the initial GDP estimates given the contemporaneous information available to the BEA (Dynan and Elmendorf 2001; McKenzie, Tosetto, and Fixler 2008).

Still, more accurate early estimates of GDP would be helpful to policymakers and businesses. Improving the quality and timeliness of the source data available to the BEA is the best way to accomplish this objective.

stronger economic growth and faster job gains are needed to make full use of the Nation's human and physical resources.

On the whole, the pace of real GDP growth so far during this recovery has been almost as fast as was the case at a similar stage of the recoveries following the 1991 and 2001 recessions, which is noteworthy progress given that the earlier recoveries received a strong boost from residential home building and State and local government spending. Because of the excess home and office construction during the housing bubble, construction of structures has been notably weak so far in this recovery. In addition, once Recovery Act funds began to phase out, State and local governments cut spending and laid off workers at a faster pace. Both of these developments are unprecedented headwinds that were not present during other postwar recoveries.

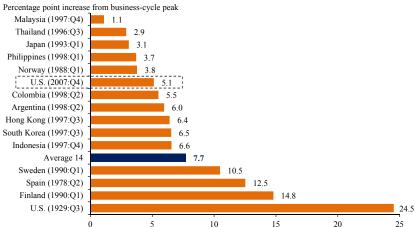
As has been the pattern in recent recoveries, job growth has lagged a resumption of economic growth. Job growth started in February 2010, 8 months after the official conclusion of the 2007-09 recession, versus 11 months after the end of the 1991 recession and 21 months after the end of the 2001 recession. From February 2010 through January 2012 (months 8 through 31 after the official end of the recession), private-sector employers added a net total of 3.7 million jobs. Over the comparable period of the recovery from the 1991 recession, businesses added 3.0 million jobs (from November 1991 to October 1993), and over the comparable period of the

Thousands, seasonally adjusted 400 200 Jan-12 -200 -400 -600 ■ Total (excluding Census hiring) -800 ■ Private -1,000Jan-08 Jan-09 Jan-07 Jan-10 Jan-11 Jan-12

Figure 1-2 Change in Nonfarm Payrolls, 2007-2011

Note: Shading denotes recession. Source: Bureau of Labor Statistics.

Figure 1-3
Unemployment Rate Increases in Recessions
Associated with Financial Crises



Note: Financial crises are from recessions identified by Reinhart and Rogoff (2009) as associated with major, systemic financial crises. Each data point represents the increase from the business-cycle peak to the subsequent peak in the unemployment rate. U.S. business-cycle peaks are defined by the National Bureau of Economic Research, and the business-cycle peaks of other countries refer to the peaks of real GDP. Unemployment rates for Argentina, Colombia, Indonesia, Malaysia, and Thailand are based on annual data. "Average 14" excludes the 2007–2009 U.S. recession.

Source: Reinhart and Rogoff (2009); National Bureau of Economic Research; International Monetary Fund, World Economic Outlook and International Financial Statistics; Moore (1961); national sources; CEA calculations.

recovery from the 2001 recession, businesses added 1.1 million jobs (July 2002 to June 2004).

The catastrophic financial crisis that exacerbated the economic downturn during the second half of 2008 is an important reason why the pace of the recovery has not been stronger. As discussed in Chapter 2, previous research finds that recessions associated with financial crises not only tend to be deeper than other types of economic downturns but also longer lasting. Yet, as bad as the Great Recession was, the United States appears to have fared relatively better than other countries that have experienced severe financial crises, in large part because of the emergency actions that were taken to strengthen the economy and stabilize the financial system. In a group of 14 countries identified by the economists Carmen Reinhart and Kenneth Rogoff as having experienced severe financial crises, these crises were followed by a real GDP decline of more than 10 percent, on average. In contrast, U.S. output decreased by substantially less. In addition, from each country's business cycle peak to their subsequent peak unemployment rate, the unemployment rate across these 14 countries increased by an average of 7.7 percentage points as a result of their financial crises (Figure 1-3).1

¹ Figure 1-3 shows the average increase in the unemployment rate across 14 financial crisis recessions, regardless of how many quarters it took the unemployment rate to reach its peak. Figure 2-4, in contrast, shows the average rise in the unemployment rate in each quarter elapsed from the beginning of each recession.

Although still a large increase relative to previous postwar recessions, the U.S. unemployment rate rose by 5.1 percentage points from the last quarter of 2007 to the fourth quarter of 2009, about 2.6 points less than the average country's experience.

The financial crisis was precipitated largely by lax credit standards, inadequate oversight, excessive debt, and a boom-and-bust cycle in housing prices, which led to unsustainable expansions in residential construction and consumer spending. Chapter 4 highlights the challenges that remain in the housing market, deriving primarily from institutional frictions, and explains the Administration's initiatives for addressing many of the interlinked housing market problems.

REBALANCING AT HOME AND ABROAD

Once economic recovery began in mid-2009, the Obama Administration took steps to restore balance to the U.S. economy to help prevent the sorts of excesses that led to the financial crisis that erupted in 2008. In June 2009, the President presented his proposals for Wall Street reform. Those proposals began a process that culminated at the end of July 2010 with President Obama signing the Wall Street Reform and Consumer Protection Act of 2010.

Progress is being made on rebalancing the sources of economic growth as well. Business investment has begun to rebound. The mix of business investment has shifted from residential and structures toward equipment and software, the types of investments that expand capacity, help workers become more productive, and build a foundation for sustainable growth. Exports as a share of GDP have also grown by 13 percent since the end of the recession. The growth in exports puts the United States on track to meet the President's goal of doubling exports by the end of 2014.

More rebalancing is needed, and the adjustment process may continue to cause headwinds for the recovery. As Chapter 3 details, government balance sheets need to shift by both cutting unnecessary spending and raising revenue to continue needed investments in the future. In September 2011, President Obama submitted a balanced plan to the Joint Select Committee on Deficit Reduction that would have reduced the deficit by \$4 trillion over 10 years with a mix of spending cuts and additional revenue, and the President remains committed to pursuing a balanced approach to put America on a sustainable fiscal path.

Finally, rebalancing in the economy is required so that the gains of economic growth provide more opportunity for the middle class and those struggling to get into the middle class. One step in this direction is provided

by the landmark Affordable Care Act, which will provide premium assistance tax credits for those without access to affordable health insurance to obtain coverage. The new law will also begin to lower the rate of health care cost growth. Additionally, improvements in K–12 education and greater access to postsecondary education will provide more opportunity for middle-class families and those struggling to get into the middle class.

Restoring Fiscal Responsibility

In the late 1990s, the Federal Government was generating budget surpluses, both annually and throughout the 10-year budget window, as well as actually paying down the national debt. Since 2001, Federal debt has been growing unsustainably, primarily as a result of the 2001 and 2003 tax cuts that were skewed toward the wealthiest, increased military operations, the unfunded Medicare prescription drug benefit, and slow job and economic growth. Although safety net stabilizers and job creation measures in the short term are important to keep the recovery gaining momentum, the long-term Federal debt must be reduced.

Chapter 3 details how Federal debt shifted sharply from a downward to an upward path to reach today's unsustainable heights, and what the options are for reducing the long-term debt. Recognizing the economic risks associated with increased budget deficits, the Administration and Congress agreed on a \$1 trillion deficit reduction package in the Budget Control Act of 2011—with an additional \$1.2 trillion to \$1.5 trillion in further reductions scheduled to follow. In his Fiscal Year 2013 Budget, the President has proposed a balanced approach that recognizes the need to prioritize spending initiatives while aligning revenues with current spending.

REBUILDING A STRONGER ECONOMY

President Obama has emphasized that the United States can outeducate, out-innovate, and out-build the rest of the world. Accomplishing this goal will require a Federal Government that lives within its means and makes targeted cuts to government spending while maintaining essential safety net services. But it will also require continuing to invest in the Nation's future—training and educating workers; increasing the commitment to research and technology; and building new roads and bridges, high-speed rail, and high-speed Internet. In cities and towns throughout America, the benefits of these investments are clear.

Investments in education, innovation, clean energy, and infrastructure are an essential down payment on the future. These investments today will be the foundation of long-term output and employment growth in the

future, robust wage growth for all Americans, and improvements in the quality of life. As emphasized, the Nation can afford these investments only by getting its fiscal house in order. The Federal Government has to live within its means to make room for things it absolutely needs, without jeopardizing essential safety net programs or the ability to make investments for the future. That is why President Obama urged Congress to find common ground so that government policies can, with the private sector, accelerate, not impede, economic growth and sharpen America's competitive edge in the world.

Measured GDP growth is not the only contributor to the quality of life that Americans seek to enjoy. Government investments as well as regulatory policies can improve well-being by correcting market failures and protecting safety, health, and environmental quality. In fashioning long-term policies, the Nation should not overlook those factors that contribute to well-being even if they are not fully captured in economic statistics.

Jobs and Income: Today and Tomorrow

Problems that were building in the labor market for well over a decade were amplified by the Great Recession. Chapter 6 explains where the labor market is today and distinguishes between the effects of the recession and longer-term trends in employment and income that predated the recession. The goals of current policies are twofold: to increase job growth in the near term, and to prepare Americans of all ages for the jobs of the future. The chapter discusses the President's job creation proposals and the key role they can play in supporting job growth in the near term.

One notable long-term trend that can be stopped is the sharp decline in manufacturing jobs. From 2000 to 2007, the economy lost nearly 4 million manufacturing jobs, as these positions migrated overseas. Another 2 million manufacturing jobs were lost during the 2007–09 recession. Thanks, in part, to the President's efforts to rescue the American auto industry, manufacturing companies have been adding jobs for the first time since the late 1990s. On net, 400,000 manufacturing jobs have been added in the past two years. The auto industry was central to the rebound in manufacturing: although the auto industry accounts for only 6 percent of industrial production, it is responsible for 23 percent of the increase in industrial production since the end of the recession.

As discussed in Chapter 5 and Chapter 6, a number of companies have indicated that they are bringing jobs back to the United States because of the Nation's high productivity and growing cost advantages. The President has laid out a bold agenda to support this trend and to encourage more manufacturing production at home.

Investments in education will build on America's highly productive workforce and are essential to prepare today's children for the jobs of tomorrow. Increasing educational attainment for low-income children would substantially improve their chances of moving up the rungs of the ladder of opportunity. As shown in Figure 1-4, the average earnings of college-educated workers has risen to a level twice as high as that of workers with only a high school diploma. And the unemployment rate of college graduates is about half of the national average. Yet while the benefits of education have grown, the growth in the relative share of college-educated American workers has slowed since 1980 (Goldin and Katz 2008). In the last few years, however, there has been an increase in school enrollment, and the President has set a goal for the United States to have the highest share of 25- to 34-year-olds with a college degree of any country by 2020. Chapter 6 lays out the strides the Obama Administration has made in bettering the education system at every level, making higher education more affordable, and improving job training programs.

Making sure American workers have the right set of skills is also critical for a revival of manufacturing jobs and jobs in other high-paying sectors. The United States has a comparative advantage in high-technology, innovative sectors, but jobs in such sectors require a highly skilled workforce. As technology changes, advanced manufacturing products can become an even more important segment of the U.S. economy. Cars, for example, are now a highly advanced product: fully 30 percent of the value of many automobiles is derived from computer software, electronic components, and intellectual property, according to industry estimates. Thus, the President's education and job training strategy is a necessary complement to proposals to strengthen the manufacturing sector.

Preserving and Modernizing the Safety Net

The recession highlighted the need for a strong safety net as millions of Americans, through no fault of their own, lost their jobs and saw their savings decline. In addition to cushioning the shock of income loss, safety net programs are important for long-term growth because they help maintain consumer demand in a downturn and make it easier for entrepreneurs to take risks, knowing that if they fail, they will have access to a minimum level of support.

As the economy has undergone major changes, the safety net has not always adapted with it. Chapter 7 describes this changing landscape and the steps the Administration has taken to modernize the safety net for a more dynamic economy and more mobile workforce. The President has already reformed health care to give millions more Americans access to care and to

Figure 1-4 Earnings Ratio: College Degree or More to High School Degree,



Source: CEA calculations using March Current Population Survey data for workers aged 25-65 who worked at least 35 hours a week and for at least 50 weeks in the calendar year. Before 1992, education groups are defined based on the highest grade of school or year of college completed. Beginning in 1992, groups are defined based on the highest degree or diploma earned. Earnings are deflated using the CPI-U. Calculations are based on survey data collected in March of each year and reflect average wage and salary income for the previous calendar year.

bring down costs. He has also called for the largest changes to the unemployment insurance program in 60 years and proposes to improve retirement preparedness by broadening the reach of individual retirement accounts, simplifying financial decisions for retirement savers and retirees, and promoting financial literacy.

Improving the Quality of Life through Smart Regulation, Innovation, Clean Energy, and Public Investment

Rebuilding the American economy entails investments in the foundations of economic growth-education, infrastructure, and research and development. Government investments in innovation and infrastructure and smart government regulations improve the quality of life and help the economy to operate more efficiently.

The President has reduced burdensome regulations, where possible, but smart regulations have also enabled Americans to live longer, healthier, and more productive lives. As discussed in Chapter 8, the Obama Administration has made significant reforms to the regulatory system to better measure relevant costs and benefits and to establish a review process that will result in continual improvement of the regulatory architecture.

A focus on quality of life also emphasizes public investments in innovation and infrastructure. Technological breakthroughs improve the quality of life in ways that are not fully captured by measures of economic activity. Cellular telephones, for example, generate large increases in convenience that benefit consumers without being fully captured in measures of GDP. Similarly, investments in infrastructure improve productivity but also have other, even larger benefits. A strong infrastructure system, for example, facilitates shorter commuting times, increasing leisure time and improving well-being.

Ensuring that America has abundant clean energy to power the economy of the future is also a prerequisite for raising the quality of life and enhancing the Nation's security. Early in 2011, President Obama noted that, "The United States of America cannot afford to bet our long-term prosperity and security on a resource that will eventually run out." The Administration laid out a Blueprint for a Secure Energy Future, a comprehensive strategy that focuses on three key areas: developing and securing America's energy supplies, including oil and natural gas; providing consumers with choices to reduce costs and save energy; and innovating our way to a clean energy future. This past year has seen remarkable progress toward reaching many of these energy goals. In 2011, domestic oil production was the highest it has been in the past eight years and natural gas production reached an all-time high. At the same time, the Administration has advanced common-sense new standards to ensure the safe and responsible development of these resources.

Conclusion

The U.S. economy has been expanding for two and a half years, but the pace of economic growth and job growth has not been fast enough given the deep hole that was created by the sharp recession that started at the end of 2007. The economic challenges that the United States faces are the direct result of problems that took years to build up and that came to a boil in the financial and economic crisis of 2007–09. While actions taken to prevent a deeper recession and to strengthen the recovery have made a difference, the Nation is still recovering from that profound crisis and the problems that led to it. Because household income for vast swaths of the middle class had stagnated, many families borrowed to support their consumption and to buy houses that later fell in value. Families are now paying down debt, which is restraining consumption and economic growth. Meanwhile, because of the

collapse of the housing boom, builders have been reluctant to build new homes, and construction workers had a 16.4 percent unemployment rate in 2011. And the government budget moved from surplus and debt reduction at the end of the 1990s to deficit and increasing debt in the early 2000s, as the priorities in Washington at that time shifted to increased spending to prosecute two wars while cutting taxes in a skewed and inefficient way.

These are the Nation's principal economic challenges, not uncertainty about economic policies, taxes, or regulations. To economists, the solution to these problems is clear: the Nation needs to raise demand for its goods and services in the short run to strengthen and sustain the economic recovery and put more people back to work, while pursuing credible policies to return to a fiscally sustainable path in the intermediate and long term and investing more in education, innovation, clean domestic energy, research and development, and infrastructure to raise long-run growth and expand the middle class.



CHAPTER 2

THE YEAR IN REVIEW AND THE YEARS AHEAD

The U.S. economy continued to recover in 2011 from the deep recession that began at the end of 2007. The real value of goods and services produced in the economy, as measured by gross domestic product adjusted for changes in prices (real GDP), has now grown in each of the past 10 quarters. In the third quarter of 2011, real output surpassed the level last reached at the business-cycle peak in the fourth quarter of 2007. Employment continued to expand in 2011, and the private sector created more than 3 million new jobs in 2010 and 2011, about in line with the recovery from the 1991 recession and faster than the recovery from the 2001 recession.

However, the level of unemployment remains too high, and the pace of the recovery in output and employment would in all likelihood be faster if it were not for the lingering effects of the financial crisis. The destruction of household wealth during the financial crisis and the deep recession that followed appears to have restrained the growth of consumption during the recovery, particularly in services. Investment in new residential construction also remains much weaker than in typical recoveries, a reflection of soft demand since the recession as well as the vast amount of overbuilding of houses during the years leading up to the crisis. Growth in other components of demand, such as business investment and exports, has followed trajectories more typical of business-cycle recoveries, and in some cases has been even stronger than average.

To put the current U.S. recovery in historical and international context, this chapter presents an overview of the influential work by Charles Kindleberger (1978) and Carmen Reinhart and Kenneth Rogoff (2009), who argue that recessions associated with financial crises are typically deeper than normal downturns and that the recoveries that follow tend to take longer. As severe as the recession was, the drop in U.S. real GDP after the financial crisis of 2008 was smaller than the average decline in recessions associated with other severe, systemic financial crises in various countries

over the past 40 years. Similarly, the rise in U.S. unemployment was less extreme than the average experience following these financial crises, and it peaked earlier. As of January 2012, the unemployment rate has fallen by 1.7 percentage points since peaking in October 2009.

This chapter also reviews the developments of 2011 for individual sectors of the U.S. economy. In the household sector, credit conditions continued to improve, and purchases of durable goods—such as motor vehicles—rose at a robust pace. Households continued to work down debt in 2011. As noted, growth in consumption remained somewhat restrained, however, as households continued to pay down debt and growth in nominal income slowed. In the business sector, investment in equipment and software posted solid gains in 2011, and global demand for U.S. goods and services was strong. The growth in U.S. exports supported job creation in 2011 as well as the continued expansion of manufacturing output. Conditions in residential real estate markets continued to stabilize in 2011, with a modest uptick toward the end of the year, but demand for new housing remained weak. Spending by State and local governments was also severely restrained in 2011 by tight budgets. Much of the weakness in these areas can be tied directly to the financial crisis and the problems that precipitated the crisis.

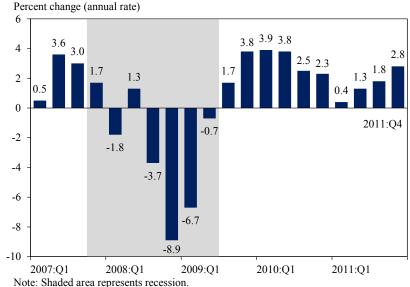
AN ECONOMY IN RECOVERY: KEY EVENTS OF 2011

Real GDP rose 1.6 percent over the four quarters of 2011 after having risen 3.1 percent in 2010. Output expanded at an annual rate of only 0.8 percent in the first half of the year, when a series of shocks—among them a sharp rise in the price of oil due to turmoil in the Middle East—appeared to reduce consumer and business sentiment and dampen economic activity. As the effects of the transitory shocks waned in the second half of the year, real GDP growth picked up to an average annual rate of 2.3 percent (Figure 2-1).

Nonfarm private payroll employment expanded by 2.1 million jobs during the twelve months of 2011, having added 1.3 million jobs in the last 10 months of 2010. The recovery in payroll employment, like that in real output, was uneven over the months of 2011. Payrolls expanded moderately near the beginning of the year, but job creation slowed in the spring and summer before picking up again in the fall. The unemployment rate fell over the course of the year, from 9.4 percent in December 2010 to 8.5 percent in December 2011, and then to 8.3 percent in January 2012.

A Series of Global Shocks and Revised GDP Data. A succession of global shocks turned 2011 into a turbulent year for the U.S. economy. The collapse of Libyan crude oil production during that nation's revolution caused world oil markets to tighten near the beginning of the year. The price

Figure 2-1 Real GDP Growth by Quarter, 2007–2011



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

refiners paid for crude oil rose from an average of \$78 a barrel in the second half of 2010 to \$101 a barrel in the first half of 2011. The \$23 per-barrel increase led to higher gasoline prices, eroded the real purchasing power of disposable personal income by more than \$50 billion at an annual rate, and dampened consumer confidence. Consumers appear to have reacted with a combination of reduced spending on other goods and services and a lower saving rate than might otherwise have been the case. The 2 percentage point cut in the payroll tax for workers that President Obama proposed and the Congress passed near the end of 2010 helped offset the impact of higher oil prices.

Another supply shock hit the world economy in March 2011, when an earthquake struck northeastern Japan and set off a tsunami, a disaster that resulted in a devastating human toll and required a massive rebuilding effort. Economic activity across the globe slowed because damage to Japan's electrical grid disrupted industrial output throughout the country. As a result, global supply chains in some industries faced shortages of key parts. In the United States, vehicle assembly plants were forced to cut production when supplies of critical parts produced in Japan became scarce. U.S. motor vehicle production fell 21.2 percent at an annual rate in the second quarter before rebounding in the third and fourth quarters.

In the summer, concerns mounted over sovereign debts and financial institutions in Europe and the likelihood of a global slowdown in economic growth. In addition, the contentious debate in Congress over raising the statutory debt ceiling kept financial markets on edge and appeared to weigh on equity markets over the summer and fall.

In addition, revised estimates of U.S. real GDP released by the Bureau of Economic Analysis (BEA) in July 2011 revealed that the 2007-09 recession was more severe than had been originally reported. Real GDP fell at an average annual rate of 7.8 percent in the fourth quarter of 2008 and the first quarter of 2009, the sharpest two-quarter contraction since quarterly GDP data began being collected in 1947. The change to the estimate for the fourth quarter of 2008 was particularly stark. The BEA originally estimated that output contracted at an annual rate of 3.8 percent that quarter, but its July 2011 revised estimate showed an 8.9 percent rate of contraction. The downward change of 5.1 percentage points was the largest downward adjustment to the quarterly data ever reported. The BEA also revised down the average annual rate of growth during the recovery (from the second quarter of 2009 through the first quarter of 2011) by 0.2 percentage point, to 2.6 percent.

Policy Developments in late 2010 and 2011. Supportive policies enacted near the end of 2010—the Tax Relief, Unemployment Insurance Reauthorization, and Job Creation Act (TRUIRJCA)—cushioned the adverse shocks experienced in 2011. Provisions in the legislation included a 2 percentage point reduction in workers' payroll taxes and a continuation of the extended and emergency unemployment benefit programs through the end of 2011. In the absence of this legislation, real GDP growth over the four quarters of 2011 would have been lower by 0.9 to 2.8 percentage points, according to the Congressional Budget Office (CBO 2011b). Because the legislative package was constructed to be temporary (including mostly one- and two-year provisions), it had little effect on the long-term deficit.

The American Recovery and Reinvestment Act (Recovery Act), enacted in early 2009 when real GDP was contracting at an annual rate of more than 6 percent and employment was falling by more than 700,000 jobs a month, also continued to support the level of real GDP in 2011, although its effect, which had been designed to be strongest during 2009 and 2010, was gradually declining. In 2011, Recovery Act-related outlays, obligations, and tax cuts totaled \$117 billion, down from \$350 billion a year earlier, as measured in the National Income and Product Accounts. The Council of Economic Advisers (CEA 2011) estimates that the Recovery Act increased GDP as of the second quarter of 2011, relative to what it otherwise would have been, by 2.0 to 2.9 percent and raised employment by between 2.2 million and 4.2 million jobs. The CBO and outside analysts have also presented estimates in this range.

In 2011, the Administration proposed additional steps to strengthen and sustain the economic recovery in the wake of world events that posed increasing risks to growth. Before a joint session of Congress on September 8, 2011, the President proposed the American Jobs Act to strengthen the current recovery and spur the creation of new jobs. The American Jobs Act incorporated a number of proposals that some independent economists estimated could have boosted payrolls by 1.3 million to 1.9 million jobs by the end of 2012 (for example, Macroeconomic Advisers 2011). Equally important, the American Jobs Act would not have added to the long-term Federal Budget deficit. The CBO (2011a) estimated that revenue raisers recommended by the President in September would have more than offset the cost of the proposed tax cuts and investments. Specifically, the bill proposed limiting deductions and exclusions for upper-income taxpayers, taxing carried interest earned on private equity and hedge fund investments at the same rate as ordinary income, and eliminating certain tax provisions for oil and gas production companies.

The full American Jobs Act did not pass Congress in the form that the President proposed. Nevertheless, the President kept pressing for measures to support economic growth and job creation and will keep doing so until every American looking for work can get a job. In November, the President won enactment of one element of the American Jobs Act: a new tax credit for America's veterans that provides up to \$5,600 to businesses that hire veterans who have been unemployed for more than 26 weeks and \$9,600 for businesses that hire a veteran with a service-related disability.

And, in the waning days of 2011, the President signed into law a 2-month extension of the 2 percentage point reduction in workers' payroll taxes and of the emergency and extended unemployment insurance programs. Those initiatives were mostly paid for by an increase in guarantee fees charged to lenders by Fannie Mae and Freddie Mac. The President has called on Congress to extend these policies for the entire calendar year. The extension of the payroll tax cut for the rest of 2012 would help approximately 160 million full-time and part-time workers and provide a typical worker with an additional \$40 in each bi-weekly paycheck. The full-year extension of unemployment insurance programs would prevent 5 million unemployed workers from exhausting benefits this year and help support the equivalent of about 500,000 cumulative job-years of employment by the end of 2014 as these benefits are spent.

Policy actions by the Federal Reserve also supported the recovery in 2011. Monetary policy remained accommodative throughout the year, with the Federal Open Market Committee (FOMC) maintaining a target range for the federal funds rate of 0 to 0.25 percent. During the first half of the year, the FOMC continued to advise that economic conditions were "likely to warrant exceptionally low levels for the federal funds rate for an extended period." In June, the Federal Reserve completed the program first announced in November 2010 under which it purchased \$600 billion of longer-term Treasury securities, and the FOMC maintained its policy of reinvesting principal payments from its holdings of debt and mortgagebacked securities issued by Fannie Mae and Freddie Mac.

The FOMC took steps in the second half of 2011 and in the early part of 2012 to further ease conditions in financial markets and to provide additional support to the recovery. In the statement released following its August 2011 meeting, the FOMC said that it expected economic conditions to warrant exceptionally low levels for the federal funds rate at least through mid-2013. In January 2012, the committee extended this period until at least late-2014. The committee voted at its September 2011 meeting to extend the average maturity of the Federal Reserve's holdings of Treasury securities in order to lower longer-term interest rates. In response to the escalation of the sovereign debt crisis in Europe, the FOMC approved an extension of the temporary U.S. dollar liquidity swap arrangements with a number of foreign central banks in June and again in November.1

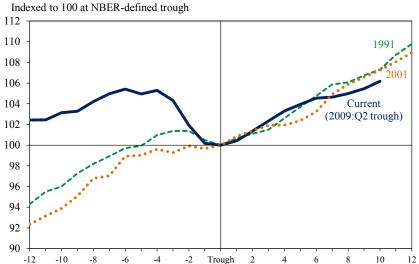
AN ECONOMY IN RECOVERY: THE LINGERING EFFECTS OF FINANCIAL CRISES

The 2007-08 financial crisis and the drop in economic activity during the recession were unprecedented. In the two and a half years that have elapsed since the official end of the recession, real U.S. GDP has risen 6.2 percent, enough to recoup the 5.1 percent loss of real output recorded during the recession. The pace of GDP growth during the recovery has been almost the same as the rates of growth observed during the recoveries that followed the 1991 and 2001 recessions (Figure 2-2), although private employment has grown at a faster pace than in the 2001 recession.

A major reason that the rate of real GDP growth has not been faster during the current recovery involves the lingering effects of the financial crisis. As argued by Kindleberger (1978) and Reinhart and Rogoff (2009), recessions linked with financial crises tend to be deeper than other recessions, and the subsequent recoveries take longer. Hall (2010) and Woodford (2010) argue that recessions around financial crises are worse, in part,

¹ The Federal Reserve receives collateral in the form of foreign currency during the life of the transaction. The exchange rate used for the transaction is based on the market exchange rate at the time of the transaction. The swap is unwound at the same exchange rate, so the Fed is not exposed to any currency risk resulting from the transaction.

Figure 2-2 Real GDP During Recoveries



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

Ouarters from trough

because the critical intermediation role played by the financial sector is disrupted. Financial crises also tend to spread across countries, temporarily reducing the volume of world trade and restraining growth of output during the recovery, as noted by Reinhart and Rogoff (2009) and IMF (2009). Housing slumps are also typically associated with slower growth during recoveries (Howard, Martin, and Wilson 2011).

Some sectors of the U.S. economy are recovering at a moderate pace, while growth in other sectors continues to be restrained by the lingering effects of the financial crisis. In the current recovery, real U.S. exports have risen at a robust pace and have exceeded their average rate of growth in the preceding eight recoveries. Business fixed investment has been about as strong in the current recovery as in the average U.S. recovery. Real residential investment, in contrast, had barely returned to its level at the business-cycle trough by the very end of 2011, whereas this type of investment in a typical U.S. recovery would have increased roughly 34 percent over a comparable period. In addition, real expenditures by State and local governments have continued to decline, on balance, during the current recovery, instead of rising, as they had in every other postwar recovery.

Personal consumption expenditures have risen more slowly in the current recovery than in the average U.S. recovery. The slower recovery in consumer spending may partly reflect the sharp losses in household net worth caused by the financial crisis and the high levels of consumer

debt-including mortgage debt-taken on during the period leading up to the financial crisis. After the collapse in house prices destroyed large amounts of household net worth, households have reduced their consumption as they work down debt taken on before the crisis.

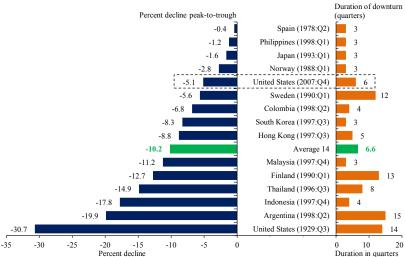
To put the 2007-09 U.S. recession in international and historical contexts, Figure 2-3 compares the depth and duration of the 2007-09 recession in the United States with 14 recessions including the 1929 downturn in the United States, a group of recessions categorized by Reinhart and Rogoff (2009) as occurring near major systemic banking crises. The horizontal bars on the left of the figure refer to the decline in real output measured in each of the recessions, and the bars on the right report the length of each recession, measured as the number of quarters between the peak and trough of real output.

While the drop in real U.S. GDP reached as high as 8.9 percent at an annual rate in the last quarter of 2008, the figure shows that the cumulative decline in GDP was 5.1 percent during the recession. This was the biggest drop in U.S. output during any business-cycle contraction since the Great Depression, although it was less drastic than the declines in output experienced in most other financial crises, and well below the average decline of 10.2 percent. The duration of the recent U.S. downturn, which measured six quarters, was about 10 percent shorter than the average. The breadth and speed of the emergency economic recovery measures that were put in place to address the financial and economic crisis, including the Recovery Act and Financial Stability Plan, as well as extraordinary actions by the Federal Reserve Board, are the main reasons why the economy avoided a steeper and more prolonged decline, with growth returning by the middle of 2009.

Figure 2-4 compares the rise in the unemployment rate in the United States between the fourth quarter of 2007 and January 2012 with the average rise in unemployment following the business-cycle peaks for the 14 financial crises shown in Figure 2-3. Between the fourth quarter of 2007 and the fourth quarter of 2009, the U.S. unemployment rate rose more sharply than the average cumulative rise over the first 8 quarters after these business-cycle peaks, but then it peaked and declined over the next two years—an outcome less severe than the average rise in unemployment around other financial crises. If the United States had followed the path of the average country during a financial crisis recession, the unemployment rate would have been 10.4 percent in January 2012 instead of 8.3 percent.

² The crises shown in Figure 2-3 are the major, systemic banking crises included in Reinhart and Rogoff (2009) Table 14-3. The analysis here differs from Reinhart and Rogoff (2009) in that we use seasonally adjusted quarterly real GDP rather than annual real GDP per capita.

Figure 2-3
Real GDP in Recessions Associated with Financial Crises

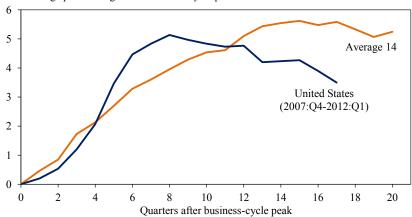


Note: Financial crisis dates are from Reinhart and Rogoff (2009). U.S. business cycles are defined by the National Bureau of Economic Research, and the business cycles of other countries refer to the peaks and troughs of real GDP. "Average 14" excludes current U.S. cycle.

Source: Reinhart and Rogoff (2009); National Bureau of Economic Research; International Monetary Fund, World Economic Outlook (2010) and data from authors; Gordon and Krenn (2010); national sources; CEA calculations.

Figure 2-4
Unemployment Rate Increases in Recessions
Associated with Financial Crises

Percentage point change from business-cycle peak



Note: "Average 14" shows the average rise in the unemployment rate in each quarter after the business-cycle peaks identified by Reinhart and Rogoff (2009) as being associated with major, systemic financial crises. Financial crises are shown in Figure 2-3. U.S. business-cycle peaks are defined by the National Bureau of Economic Research, and the business-cycle peaks of other countries refer to the peaks of real GDP. Quarterly unemployment rates for Argentina, Colombia, Indonesia, Malaysia, and Thailand are based on annual data. The 2012:Q1 value for the United States is through January 2012.

Source: Reinhart and Rogoff (2009); National Bureau of Economic Research; International Monetary Fund, International Statistics, World Economic Outlook (2010), and data from authors; Moore (1961); national sources; CEA calculations.

According to analysis by the Congressional Budget Office and privatesector forecasters, the Recovery Act, the Financial Stability Plan, and the extraordinary and exigent actions taken by the Federal Reserve had sizable, positive effects on U.S. GDP and employment in 2009. Rather than plunging into what many think could have been a second Great Depression, the U.S. economy began to grow again in the second half of 2009. As a result, the 2007-09 recession was shallower and shorter in duration than the average recession experienced by a country after a major financial crisis, and unemployment started to come down sooner and swifter.

DEVELOPMENTS IN 2011 AND THE NEAR-TERM OUTLOOK

Consumption and Saving

Consumer spending—a category that makes up about 70 percent of GDP—rose moderately in 2011, as credit conditions continued to ease, household liabilities fell relative to income, and the labor market continued to recover. Gains over the year were uneven, however, in the face of upheavals at the beginning of the year. Partly reflecting these shocks, real consumer spending rose at an annual rate of only 1.4 percent in the first half of 2011, having increased more than 3 percent at an annual rate in the second half of 2010. The slowdown in spending growth would have been more severe in the absence of the workers' payroll tax cut, which offset oil price shocks early in the year and supported household consumption.

The disturbances that slowed consumption growth in the early part of the year proved transitory, and their effects dissipated in the second half of the year; oil prices stabilized over the summer, and by the fourth quarter, production (and availability) of motor vehicles had returned to levels that prevailed before the earthquake in Japan disrupted supply chains. The second half of 2011 brought new challenges, however. Concerns about the weakening pace of growth in several industrialized economies—most notably in Europe—escalated during the summer, and the contentious debates held in Congress over raising the statutory debt ceiling unsettled equity markets. The stock market and consumer confidence both fell in the third quarter before rebounding in the fourth quarter and early 2012. Despite these headwinds, the growth rate of real consumer spending picked up in the third and fourth quarters to an average annual rate of 1.9 percent.

Several key developments in 2011 shaped the contours of consumer spending.

Household Income in 2011. Nominal personal income grew 3.9 percent during the four quarters of 2011, a somewhat slower pace of growth than in 2010. Growth in nominal personal income was held down in 2011 by a slowdown in job growth near the middle of the year. Real disposable personal income, which is personal income less personal taxes and adjusted for price changes, edged down 0.1 percent over the four quarters of 2011 after having risen 3.5 percent in the year-earlier period. The purchasing power of wages and salaries was curtailed somewhat in 2011 by a run-up in food and energy prices in the first half of the year, which appeared to have passed through to the prices of some other goods and services as well. As noted, tax policies passed near the end of 2010 helped cushion some of the effects of these price increases on consumers while providing an additional boost to income. The Administration seeks to extend the workers' payroll tax cut in 2012 and to provide additional immediate support for aggregate demand through the continuation of extended unemployment insurance benefits and other measures initially proposed in the American Jobs Act.

Household Wealth and Saving in 2011. The wealth-to-income ratio, depicted in Figure 2-5, declined in the third quarter of 2011 after rising, on balance, since the beginning of 2009. The consumption rate (shown in the figure as the share of disposable income consumed) tends to fluctuate with the wealth-to-income ratio. As a rule of thumb, a one dollar drop in wealth tends to reduce annual consumer spending by about two to five cents, although the source of the wealth change (housing or equities, for example)

Figure 2-5

Consumption and Wealth Relative to Disposable Personal Income (DPI), 1952–2011 Consumption/DPI ratio Years of disposable income 1.10 2011:O3 1.05 6 Total-wealth-to-DPI ratio (right axis) 1.00 0.95 Consumption-to-DPI ratio (left axis) 2011:O4 0.90 3 Stock market 2011:Q3 Net housing 0.85 wealth-to-DPI 2 wealth-to-DPI ratio ratio (right axis) (right axis) 0.80 1 2011:Q3 0.75 1960 1968 1976 1984 1992 2000 2008 Source: Bureau of Economic Analysis, National Income and Product Accounts; Federal Reserve Board, Z.1; CEA calculations.

also may matter. The decline in the wealth-to-income ratio from the second quarter of 2007 to its low point in the first quarter of 2009 amounted to 1.8 years of income. (In other words, household wealth declined by the amount of income earned in 1.8 years). The drop in the wealth-to-income ratio over this period was the deepest sustained decline since 1952, when these data began to be compiled. Of the total decline, 1.1 years were lost from the decline in stock market wealth, and about 0.6 year from net housing wealth. All told, a drop in wealth of this magnitude could be expected to reduce personal consumption expenditures by about 6.7 percent.

Equity prices fell during the summer of 2011 before regaining most of the losses toward the end of the year. Driven in part by the rise in uncertainty during the debt ceiling debate as well as external events in Japan and Europe, consumer sentiment also dropped to low levels in the summer before partially rebounding toward year's end.

Households continued to work down their debt through the third guarter of 2011 (the latest data available as this report goes to press). The personal saving rate—expressed in the National Income and Product Accounts as a share of disposable personal income—fluctuated around 5 percent for the first half of 2011, about the same rate as in 2010 but below the average rate of about 6 percent observed in the first half of 2009. The personal saving rate fell in the second half of 2011 to 3.8 percent, a decline from the first half of 2011 that may have partially reflected the pick up in purchases of consumer durables, especially new vehicles. Purchases of new motor vehicles, are counted as a consumption outlay in the National Income and Product Accounts even though households view these purchases as investment, and so a rise in vehicle purchases reduces the personal saving rate.

Looking ahead, the personal saving rate appears roughly consistent at current levels with household wealth. As a consequence, while some further drops in the saving rate are possible, the growth rate of real consumer spending in the years ahead would be expected to largely mirror the growth rate of income, barring a dramatic change in asset prices. Even so, further increases in household purchases of durable goods, perhaps reflecting pentup demand for motor vehicle purchases that were deferred during the recession, may reduce the saving rate temporarily.

Some of the recent patterns in aggregate spending and saving behavior—including the sluggish growth in consumer spending—may reflect the sharp rise over the past 30 years in the inequality in the income distribution in the United States. As the Congressional Budget Office recently noted, the top 1 percent of families had a 278 percent increase in their real after-tax income from 1979 to 2007, while the middle 60 percent had an increase of less than 40 percent. As a result of these trends, the very top income earners

have pulled much further ahead of everyone else. (See Chapter 6 for a discussion of shifts in the income distribution.)

The effects of this dramatic shift in the income distribution on aggregate demand are hard to document, although some of the spending patterns in the Consumer Expenditure Survey reveal evidence of the increasing inequality of income. For example, the share of income spent on luxury goods and services, such as entertainment, relative to necessities, such as food, is higher for high-income households than for low-income households, and this gap has widened over time (Aguiar and Bils 2011).

Several authors have argued that increases in inequality have likely adversely affected the economy.³ For example, the rise in income inequality may have reduced aggregate demand, because the highest income earners typically spend a lower share of their income—at least over intermediate horizons—than do other income groups. The following calculation illustrates the potential magnitude of this effect. As shown in recent research by Piketty and Saez (2003, 2010), the share of all income going to the top 1 percent has risen sharply over the past three decades, rising by 13.5 percentage points, from 10 percent to 23.5 percent, between 1979 and 2007. This is the equivalent of about \$1.2 trillion of annual income in 2007. Research on the saving rate (or marginal propensity to consume) of families at the very top of the income distribution is scarce, but one study (Dynan, Skinner, and Zeldes 2004) implies that the top 1 percent of households save about half of their total current income, while the population at large has a saving rate of about 10 percent of their total income. This finding implies that if another \$1.2 trillion had been earned by the bottom 99 percent instead of the top 1 percent of income earners, annual consumption could have been about \$480 billion—or about 5 percent—higher.

There are many caveats to this calculation, because the marginal propensity to consume is not well established for the extreme upper end of the income distribution. In addition, aggregate consumption may not have been reduced by a full 5 percent because the dramatic shift in the income distribution likely led many households to accrue more debt. In his book Fault Lines, Raghuram Rajan (Rajan 2010) argues that slow income growth for the middle class led, in part, to the rising levels of debt and the overleveraging that played a central role in the 2007-08 financial crisis.⁵

³ See Rajan (2010) and Reich (2010). Kaldor (1956) provides some early research in this area.

⁴ The saving rate cited here refers to the change in real net worth as a share of real pre-tax income, a measure that differs from the personal saving rate reported in the National Income

⁵ Note that the increase in leverage by the middle class may explain why the aggregate saving rate did not rise despite the shift in income to high savers.

Increases in the inequality of income have been developing for some time, but their effects on aggregate demand may have become more pronounced in the wake of the financial crisis. Increasing levels of debt during 1979-2007 may have masked the influence of the rising inequality of incomes on aggregate consumer spending, because increased access to credit card debt, other consumer loans, and mortgage loans allowed the growth of purchases to outpace the growth of income for most income groups. With the onset of the recession and financial crisis, however, the scope for this level of borrowing came to an abrupt end. Access to credit, particularly for mortgages, was severely restricted, and the average consumer was left with elevated levels of debt taken on before the crisis. Since the crisis, the process of deleveraging appears to have reduced consumption below what it would have been otherwise. By targeting support to a broad group of American workers—including those with a higher propensity to spend additional income—the measures the President put forward in the American Jobs Act, like the payroll tax cut and extension of unemployment benefits, are likely to have a greater impact on consumption and aggregate demand than alternative measures.

Other Influences on Consumption in 2011. For the second consecutive year, lending standards eased, as reported in the Federal Reserve's senior loan officer survey, and consumer credit expanded modestly over the first three quarters of 2011. The level of overall household debt fell in 2011, reflecting a decline in mortgage debt. The decline in real household debt outstanding in the current recovery has been unprecedented, which suggests that the process of deleveraging has played a sizable role in household consumption decisions in recent years.

Reflecting, in part, the improvement in credit availability since 2009, household consumption of durable goods, including items such as new and used automobiles as well as household electronics, furniture, and other appliances has risen at a solid pace in the current recovery and somewhat more strongly than the rates of growth observed during the recoveries that followed the 1991 and 2001 recessions. Household consumption of nondurable goods and services, in contrast, has risen at a slower pace in the current recovery than in most previous U.S. recoveries. Real consumer spending on services has increased only 2.9 percent so far in the current recovery, whereas this type of spending grew by an average of 10.7 percent over the first ten quarters of the previous eight recoveries. Consumer spending on services has been particularly weak in categories such as housing services, financial services, and insurance, likely reflecting the continuing effects of

the financial crisis, and on categories that are more discretionary, such as recreation and gambling.6

Restrained demand for services may have implications for the labor market, because the production of services accounts for about two-thirds of U.S. GDP and a larger share of U.S. employment. (For a discussion of the measurement of services see Data Watch 2-1.) Although it is difficult to tie final consumption of a particular type of good or service to employment in that industry (the purchase of a new motor vehicle creates jobs in a number of service industries, for example), jobs in service-producing sectors accounted for about 68 percent of total nonfarm payroll employment in 2007.7

Developments in Housing Markets

After posting steep declines during the 2007-09 recession, activity in the housing sector remained at subdued levels in the first half of 2011 before edging up in the second half of the year. New housing starts were about 607,000 units in 2011, an increase of 3.7 percent from the level in 2010. New housing starts remain well below the long-run trend in U.S. housing demand. According to researchers at the Joint Center for Housing Studies at Harvard University, projected rates of household formation and immigration for the period 2010 through 2020 are consistent with housing starts in the range of 1.6 million to 1.9 million units a year (Masnick, McCue, and Belsky 2010). Activity in the housing sector is likely to remain below these levels for some time, however, as new construction continues to be restrained by a sizable overhang of vacant properties for sale.

House prices, discussed in more detail in Chapter 4, fell 4.7 percent, on net, during the twelve months of 2011, according to the CoreLogic home price index. Distressed sales—which include short sales and sales of properties owned by lenders (real-estate owned, or REO)—remained a headwind in 2011: CoreLogic estimates that 1.6 million properties were seriously delinquent, in foreclosure, or owned by lenders in October 2011, equal to about five months of supply at the current pace of sales. The modest rates of growth in personal income and the tighter mortgage underwriting standards observed in recent years also kept sales and starts below their long-run trend levels.

⁶ Consumption of services is more difficult to measure than is consumption of goods, and estimates for 2011 may be revised considerably when the Services Annual Survey is incorporated into the National Income and Product Accounts. Nonetheless, the pattern of weaker-than-normal growth in services consumption in the current recovery has been quite pronounced through 2010, a period for which estimates reflect the latest annual survey. ⁷ Industries counted in this figure include professional and business services, education and health services, leisure and hospitality, other services, and government services.

Data Watch 2-1: The Data Implications of the Transition to a Services-Based Economy

In 1947, services represented less than 40 percent of U.S. gross domestic product (GDP). Today, service industries account for almost 70 percent of total U.S. domestic output. For many years, however, the measurement of service activity lagged the sector's growing importance.

A fundamental challenge in measuring the value of services is the disparate range of activities encompassed within the service sector. The Bureau of Economic Analysis (BEA) defines services as "products that cannot be stored and are consumed at the place and time of their purchase." This includes, for instance, medical consultations, admission to movie theaters, Internet subscriptions, haircuts, and apartment rents, but also some less apparent things such as meals at restaurants, check clearing by banks, and the "rental value" of homeownership. (Although the purchase of a newly constructed home is categorized under residential investment, the BEA estimates the amount homeowners would have had to pay to rent similar houses and classifies this imputed rent under housing services.)

A major breakthrough in the measurement of service output came with the introduction of the North American Industry Classification System (NAICS) beginning in 1997 to replace the Standard Industrial Classification (SIC) system. Originally developed during the 1930s and reflecting the economy of its time, the SIC provided far more detail for goods-producing industries such as manufacturing and mining than for service-producing industries. The 1997 NAICS added more than 149 new services industries. Just as important, a process was put in place to add new industries to NAICS as they develop. A parallel effort carried out over the past decade, the development of the North American Product Classification System, similarly will provide a consistent basis for categorizing the rich array of outputs produced in the growing service sector.

The quality of the source data on the volume of service transactions also has improved over time. Since the 1980s, the BEA has collected data on international trade in services. In 2004, the Census Bureau introduced the Quarterly Services Survey (QSS) to provide more timely data on domestic consumption of services. The QSS, normally published about 21/2 months after the end of each quarter, allows the BEA to incorporate actual survey data on many services into its quarterly estimates of GDP, rather than relying on "judgmental trends." Furthermore, the Census Bureau has expanded the scope of its annual surveys of the service sector. In fact, the Services Annual Survey and the Quarterly Services Survey both now capture 55 percent of U.S. GDP—equaling the coverage of services in the Economic Census and marking substantial improvement relative to even just a few years ago.

Measurement of real activity in the service sector requires appropriate price deflators for service outputs. In 1990, the Producer Price Index (PPI) covered less than 5 percent of U.S. service output. Today, thanks to a concerted effort by the Bureau of Labor Statistics, PPI deflators are available for more than three-quarters of domestically provided services. This has translated directly into more accurate estimates of real GDP.

Nevertheless, as the U.S. economy continues to evolve, the work of accurately measuring service activity grows accordingly. Despite recent innovations in the collection of primary source data, there are still conceptual issues pertaining to the appraisal and definition of services that remain unresolved. As an example, improvements in health care have contributed to longer life spans and better quality of life, but there is not a consensus about how to value and incorporate these benefits in a national income accounting framework. Similarly, industries such as finance largely produce intangible outputs that are difficult even to identify, much less quantify. Furthermore, although estimates of international trade in services are now more detailed than was the case before the 1980s, the statistics still could and should be improved. Data on the prices of traded services are extremely limited, and even the most disaggregated data collected by the BEA on services extend to only 36 categories, in contrast to thousands of categories for manufactured goods. Continued research and investment in the development of data on services are needed to ensure timely and accurate measurement of the U.S. economy.

Although home prices in some parts of the country have stabilized, CoreLogic estimates that more than 20 percent of homeowners with mortgages remained underwater at the end of the third quarter of 2011 (that is, the value of the mortgage exceeds the house price). The share of mortgages in the foreclosure process remained elevated by historical standards in 2011 and changed little from the level in 2010, as reported by the Mortgage Bankers Association.

For a description of the Administration's housing policy proposals, see Chapter 4.

Business Fixed Investment

Business fixed investment grew at a solid 7.3 percent annual rate during the four quarters of 2011, after rising 11.1 percent at an annual rate in the four quarters of 2010. Among the two main components of business fixed investment, spending on equipment and software investment grew 9.0 percent over the four quarters of 2011, and investment in nonresidential structures increased 2.7 percent.

Within equipment and software, purchases of transportation equipment rose at a brisk 22.7 percent annual rate over the four quarters of 2011, after having surged at a 68.1 percent annual rate in 2010. Business outlays on information technology rose at a 4.1 percent annual rate over the four quarters of 2011, a third consecutive year of solid growth. Investment in industrial equipment also grew notably, posting a four-quarter increase of 15.2 percent. (For more information on how investment is defined, see Data Watch 2-2.)

Investment growth among the categories of nonresidential structures was mixed in 2011. On one hand, investment in mining and drilling structures was strong, reflecting elevated oil prices as well as some advances in technology that have enabled drilling at new sites. (See Chapter 8.) Investment in commercial and health care structures, on the other hand, edged down over the four quarters of 2011.

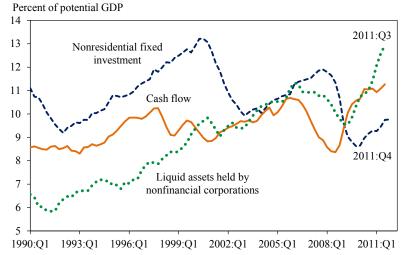
The strength of business fixed investment since mid-2009 reflects several developments. Investment fell sharply during the recession, and, as the prospects for sales have begun to improve, businesses have invested in recent years to replace aging equipment. In addition, the Administration's 100 percent business expensing policy boosted business investment by allowing firms to take an immediate deduction on investments made in new equipment in 2011. The President has proposed extending this provision into 2012.

Business investment may be positioned to grow rapidly if demand accelerates because corporations have plenty of internal funds (Figure 2-6). Corporate profits continued to rise in 2011 and were above their pre-recession level, while corporate dividends have returned roughly to pre-recession levels. Largely as a result, corporate cash flow, a measure that includes undistributed profits and depreciation and represents the internal funds available for investment, has also risen substantially during the recovery. A large share 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.

Manufacturing Output

The real output of U.S. factories rose 3.7 percent over the twelve months of 2011 after having risen 6.4 percent in 2010, according to the manufacturing component of the industrial production index published

Figure 2-6 Business Fixed Investment and Cash Flow, 1990-2011



Note: Potential GDP is a CBO estimate. Cash flow, from the National Income and Product Accounts, and nonfinancial liquid assets are plotted using three-quarter moving averages. Source: Bureau of Economic Analysis, National Income and Product Accounts; Federal Reserve Board (Flow of Funds L.102); Congressional Budget Office.

by the Federal Reserve Board. The manufacturing sector has been growing faster than the rest of the economy during the recovery, with real output rising at an average annual rate of 5.7 percent since its low in June of 2009—its fastest pace of growth in a decade.

The rise in manufacturing output during the recovery has provided a considerable boost to the U.S. economy. Following two decades of shrinking employment—a trend that reflected both increases in automation and the lower labor costs in emerging-market economies-manufacturers in the United States have added more than 400,000 jobs since employment in the sector reached its low in January 2010. These numbers reflect an emerging trend of some companies bringing jobs back to the United States, as discussed in the special report, Investing in America: Building an Economy that Lasts (White House 2012). This nascent trend likely reflects, in part, the improvement in unit labor costs in the United States relative to many of our trading partners in recent years. (See Chapter 5 for more discussion of the rising competitiveness of U.S. industry.)

The robust gains in manufacturing output during the recovery appear to reflect rising investment demand for domestically-produced capital goods from both domestic and foreign customers. The rebound of the U.S. motor vehicle industry has played a particularly large role, with the production of motor vehicles and parts directly accounting for about 23 percent of the increase in manufacturing output since mid-2009. As U.S. demand for new

Data Watch 2-2: Investment in Intangibles

Investment can be defined as devoting resources to produce a durable asset that will yield a future flow of services. Until recently, measures of investment in the National Income and Product Accounts (NIPAs) were restricted to investments in physical capital such as buildings, machinery, and equipment; new residential construction; and net additions to inventories. In today's knowledge economy, however, intangible assets such as computer software and scientific innovations make increasingly important contributions to economic growth.

The Bureau of Economic Analysis (BEA) has begun to incorporate investments in intangible capital into the NIPAs. The first step in this direction, taken in 1999, was to treat spending on computer software as an investment outlay, which enters GDP directly, rather than as a business expense, which is considered an intermediate input rather than a part of final demand; the treatment of government spending on computer software was changed at the same time. Because business and government spending on computer software had been growing rapidly compared to other types of spending, these changes raised the measured growth rate of GDP slightly. In 2013, BEA plans to begin treating spending on scientific research and development as an investment rather than an expense; had this treatment been in effect historically, it too would have raised the average measured rate of growth of GDP in recent decades.

Some researchers have argued that investment in intangibles should be defined even more broadly (Corrado, Hulten, and Sichel 2009; Corrado and Hulten 2010). In addition to research and development that builds on a scientific base of knowledge, for example, there is an argument for treating as investment the money firms spend on other sorts of new product development, such as the development of new motion pictures or new financial services products. Businesses also spend money on strategic planning, the implementation of new business processes, and employee training, all of which may add significantly to future productivity and thus arguably should be treated as investment as well. Taking an even broader perspective, time and money devoted to formal education add to the human capital of the American workforce and thus to its future productivity. While accounting accurately for the value of these investments poses some difficult measurement challenges (Abraham 2010), their importance to future economic growth should not be overlooked. According to some research (Krueger 1999), returns on human capital generate the lion's share of national income.

vehicles has recovered, the Detroit auto companies along with the foreigndomiciled auto companies have been expanding U.S. production to serve both U.S. and foreign markets. Over the past two years, the entire U.S. auto industry—including dealerships and suppliers of auto parts—has added nearly 160,000 jobs. General Motors was the world's top-selling automaker in 2011, Ford is investing in new American plants, and sales at Chrysler grew faster in 2011 than in recent years.

In addition to rescuing the American auto industry, the Administration has more broadly supported American manufacturing through its efforts to reduce barriers for American businesses to sell products all over the world. To build on the progress already made, the President laid out in his 2012 State of the Union address a Blueprint for an America Built to Last, which included proposals to encourage companies to create manufacturing jobs in the United States while removing tax deductions for shipping jobs overseas.

Business Inventories

Businesses continued to build inventories during 2011, and inventories in the manufacturing and trade sectors remained lean relative to sales. 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.

Over the course of 2011, real inventory investment stepped up in the first quarter and then slowed in the second and third quarters, but closed out the year on a high note. The slower pace of inventory investment in the second quarter reflected, in part, the reduced rate of motor vehicle production caused by disruptions to the flow of auto parts following the earthquake and tsunami in Japan. Altogether, real inventory investment added roughly 0.2 percentage point to real GDP growth between the fourth quarter of 2010 and the fourth quarter of 2011.

Government Outlays, Consumption, and Investment

The Federal budget deficit during Fiscal Year 2011—which ended on September 30—was \$1.3 trillion, roughly unchanged from the year before. As a share of GDP, the deficit fell to 8.7 percent in FY 2011 from 9.0 percent in FY 2010. Federal receipts rose 6.5 percent during FY 2011, largely driven by a 21.5 percent increase in individual income tax receipts. Corporate tax receipts fell 5.4 percent in FY 2011, partly reflecting the introduction of 100 percent depreciation for business equipment investment in calendar year 2011 (up from 50 percent in calendar year 2010), which pulls forward deductions that businesses would otherwise receive over several years. Corporate tax receipts in FY 2011 were only about half what they were in FY 2007,

even as domestic corporate profits (excluding Federal Reserve Banks) were roughly unchanged.8 In contrast, individual income tax receipts in FY 2011 were more than 90 percent of their FY 2007 level.

Federal outlays rose 4.2 percent in FY 2011 from FY 2010 but remained steady as a share of GDP at 24.1 percent. According to the CBO, approximately half of the year-over-year increase in Federal outlays reflects re-evaluations of the cumulative cost of the Troubled Asset Relief Program (TARP).9 The President's FY 2013 Budget estimates that the cumulative cost of TARP will be \$67.8 billion, well below the Administration's 2009 estimate of \$341 billion.

Nominal spending on defense grew more slowly in FY 2011 than in recent years. Combined total spending on Social Security, Medicare, and Medicaid rose in FY 2011, though at a slower pace than the average over the past three years. According to the Department of Labor, extended unemployment benefits and emergency unemployment benefits are on track to be about \$60 billion in 2011, following total benefits of \$80 billion in 2010. The past three years of unemployment benefits stabilized consumer spending at a level higher than would have occurred absent this income support. In addition, the 2 percentage point reduction in payroll taxes through the end of 2011 lowered tax liabilities by about \$114 billion.

During the four quarters of calendar year 2011, real Federal expenditures on consumption and gross investment, as measured in the National Income and Product Accounts, declined 3.3 percent; federal defense spending fell 3.7 percent over the four quarters of 2011, and federal nondefense spending declined 2.6 percent.

As projected in the Administration's FY 2013 Budget, which includes demand-supporting initiatives for FY 2012 that have not yet been approved by the Congress, the deficit as a share of GDP will fall from 8.7 percent in FY 2011 to 5.5 percent in FY 2013, and to 3.4 percent in FY 2015. The fullemployment deficit as a share of GDP (the budget deficit that would exist if the economy were at full employment) would be roughly unchanged in FY 2012 and fall by about 3 percentage points in FY 2013 and by another 1.5 percentage points in FY 2014. This fiscal consolidation will restrain the

⁸ The divergence of corporate profits and corporate tax receipts between 2007 and 2011 reflects changes in tax policy and differences in how profits in the National Income and Product Accounts (NIPA) and corporate taxable income are calculated. Business credits for corporations have increased between 2007 and 2011. The components of NIPA profits that are not counted in taxable income include capital gains, bad debt, and Federal Reserve profits. ⁹ The CBO (2011c) estimates the net present value of the cumulative cost of TARP each year and—if costs are revised down—records the changes in these valuations in the Budget as a negative outlay. The CBO adjusted down the total cost of the program in FY 2010 and FY 2011, but the downward adjustment in FY 2011 was smaller than in FY 2010.

growth of demand in those years, but an increase in private-sector demand in those years is projected to fill in the gap.

Looking further ahead, the deficit reduction from the cuts mandated by the Budget Control Act of 2011 and the expiration of the tax cuts on upper-income Americans enacted between 2001 and 2003, combined with the winding down of operations in Afghanistan and Iraq, will bring deficits down to approximately 2.8 percent of GDP near the end of the 10-year budget window. Policy changes recommended in the FY 2013 Budget put the debt on a stable or declining path as a share of the economy and would—if enacted—place the budget in a fiscally sustainable position in the ten-year budget window.

State and Local Governments

State and local governments remained under severe fiscal pressure in 2011, and, as noted, declines in this sector's revenues have forced sharper declines in real State and local consumption and gross investment than in earlier U.S. recoveries. Although nominal State and local government tax receipts continued to increase in 2011, Federal funds from the Recovery Act—which helped support State and local governments during 2009 and 2010—declined, and employment continued to contract.

State and local tax revenues rose about 4 percent, or \$50 billion, during the four quarters through the third quarter of 2011, roughly the same pace as during the year-earlier period. About half of the rise came from personal income taxes. State and local taxes on production and imports—a category that includes sales and property taxes—increased about \$32 billion over this period, while corporate taxes were down \$8 billion. Federal grantsin-aid to the states plunged \$87.8 billion during the four quarters of 2011 after rising notably during 2009 and 2010; both the earlier increase and the 2011 decline were attributable to the Recovery Act, which was designed to offer temporary support to State and local governments.

Current State and local government expenditures—which include transfers to individuals as well as government consumption—fell 0.2 percent over the four quarters of 2011, following a 4.4 percent increase in the year-earlier period. Reflecting, in part, the decline in Federal grants-in-aid between the third quarters of 2010 and 2011, the operating position of State and local governments deteriorated to an aggregate deficit of \$83 billion by the third quarter of 2011, the fourth consecutive year of operating deficits for the State and local sector.

Employment in State and local government declined by 235,000 in 2011, and employment in the sector fell 660,000 from its peak in August 2008 to December 2011. About 36 percent of the jobs lost over this period were in education.

Real investment by State and local governments in structures, such as schools, roads, and bridges, fell 9.9 percent during the four quarters of 2011, a decline notably steeper than those of the preceding three years. Some of the decline is attributable to the expiration of the Build America Bonds program at the end of 2010. Part of the Recovery Act, the program subsidized municipal bonds issued for infrastructure development and helped finance \$181 billion worth of capital projects, including schools, bridges, and hospitals (Department of Treasury 2011).

State and local governments have made tough budget decisions during the past four years. They will likely continue doing so in 2012 as Federal transfers diminish, and past declines in house prices erode the property tax base. The Administration took important steps in 2010 and 2011 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 eased the burden on State and local governments in August 2010 by establishing a new teacher job fund and by extending the enhanced Federal matching formula for certain social services and medical insurance expenditures covered by the States. In 2011, the President proposed additional funds as part of the American Jobs Act to prevent layoffs of teachers, police, and firefighters. To support infrastructure investment, the Administration also included funds in the American Jobs Act to modernize more than 35,000 schools.

Real Exports and Imports

Real exports grew 5.2 percent during the four quarters of 2011 after jumping 8.8 percent in 2010. As noted, the rebound in exports since the trough of the recession has been strong and reflects rising demand for U.S. goods and services abroad. Total exports rose at an average rate of almost 16 percent per year between 2009 and the twelve-month period that ended in November 2011, an increase that creates jobs for U.S. workers and puts U.S. exports on track to meet the President's goal of doubling nominal exports between 2009 and the end of 2014. Meeting this goal depends, in part, on healthy growth of the world economy; world growth, however, may falter in the near term for reasons related to the sovereign debt crisis in Europe. Maintaining robust exports is a key to building an American economy that can prosper in the global economy in the years to come (see Chapter 5).

Real imports also grew in 2011, expanding 3.8 percent over the four quarters of the year. The rise in real imports over the past year likely reflects

the increase in consumer spending on goods, the rise in real business fixed investment, and the continued recovery in industrial production in 2011.

All told, real net exports—exports less imports—made a small positive contribution to the rise in real GDP over the four quarters of 2011, after subtracting from real GDP growth in the year-earlier period.

Labor Market Trends

The job market continued to heal in 2011, adding a total of 1.8 million jobs. The private-sector added 2.1 million jobs during the twelve months of 2011, while State and local government employment fell by 235,000. The growth in private-sector jobs was the strongest since 2005. Private sector payroll employment has grown in each month since February 2010, and layoffs—as measured by the four-week average of initial claims for unemployment insurance—have come down considerably over this period (Figure 2-7). The four-week average of initial claims continued to recede through the end of January 2012.

Private-sector job growth during the current recovery has been similar to that in the 1991 recovery and faster than that in the 2001 recovery, as illustrated in Figure 2-8. As is typical, the recovery in jobs since 2009 has lagged the recovery in output. Growth in private nonfarm jobs in the current recovery began nine months after the business-cycle trough. By comparison,

Figure 2-7 Weekly Initial Unemployment Insurance Claims, 2004–2012 Thousands, seasonally adjusted



Source: Department of Labor, Employment and Training Administration.

payrolls first began expanding consistently twelve 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 featured job losses much deeper than those in the recessions of 1990–91 and 2001, recovery in the labor market began somewhat sooner.

Nonetheless, the steep rate of job loss during the recession has left the rate of unemployment high. During the recovery the unemployment rate receded from its peak of 10.0 percent in October 2009 to 8.3 percent by January 2012. The unemployment rate dropped by 0.6 percentage point between October 2011 and January 2012 (Figure 2-9). Other measures of labor market slack—such as the "U-6" unemployment rate published by the Bureau of Labor Statistics—have also declined over the past year. The U-6 measure includes in the pool of unemployed workers those who are underemployed or are marginally attached to the labor force, that is, would like a job but are not currently searching for work. The U-6 unemployment rate in January 2012 was a percentage point below its year-earlier level.

In addition to tracking the number of jobs added in 2011, other margins of labor market adjustment such as the workweek also contain important information about the pace of the recovery. At the business-cycle peak in the fourth quarter of 2007, the workweek for all private-sector employees

Indexed to 100 at NBER-defined trough 108 106 Current (June 2009 trough) 104 102 100 2001 98 96 -24 -12 12 18 24 30 -30 -18 -6 Trough 36 -36 Months from trough

Figure 2-8
Private Nonfarm Employment During Recoveries
Indexed to 100 at NBER-defined trough

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

Figure 2-9 Unemployment Rate, 1979–2012



Source: Bureau of Labor Statistics, Current Population Survey.

averaged 34.6 hours. By the second quarter of 2009, it had shortened 0.8 hour. By the fourth quarter of 2011, the workweek increased to 34.4 hours, recovering most of the hours lost during the recession. A 0.1 hour lengthening of the workweek is roughly equivalent, in terms of labor input, to an increase in employment of more than 300,000 jobs.

Wages, Labor Productivity, and Prices

Hourly compensation rose at about the same pace in 2011 as in 2010. The employment cost index for private-sector workers, including wages and benefits, rose 2.1 percent over the twelve months of 2011, roughly the same as the year-earlier increase. Nominal hourly compensation in the nonfarm business sector—a measure based primarily on compensation in the National Income and Product Accounts—rose 1.7 percent during the four quarters of 2011, up slightly from the pace during 2010 but well below the average increase of about 4.0 percent in 2006 and 2007.

Labor productivity in the nonfarm business sector (that is, real output per hour worked) rose about 0.5 percent during the four quarters of 2011, a slower pace of growth than during the preceding two years. Averaged over the nearly four years since the business-cycle peak, labor productivity grew at a 1.8 percent annual rate.

Consumer prices—as measured by the consumer price index (CPI) rose almost 3 percent during the twelve months of 2011, 1.6 percentage points more than they did in 2010 (Figure 2-10). The cost of food, crude oil, and many other commodities rose sharply in the first half of 2011, and some of these increases were passed through to consumer prices for food and energy products. Excluding food and energy products, the core CPI rose a more moderate 2.2 percent during the 12 months of 2011 after rising at an unusually slow pace of 0.8 percent in 2010.

Over the second half of 2011, overall consumer price inflation fell considerably as the price pressures from the earlier increases in energy and commodity prices waned. After rising at an annual rate of 3.8 percent in the first six months of the year, consumer price inflation fell to 2.2 percent between June and December.

Most of the inflation in nonfarm business prices during the past four years has been due to a rise in the price markup over unit labor costs rather than to rising unit labor costs. Hourly compensation has risen at a roughly 2 percent annual rate during the four years since the business-cycle peak, but this growth has been offset by growth of labor productivity also by an annual rate of about 2 percent during the same period, leaving unit labor costs essentially unchanged. Over the long run, prices of nonfarm business output rise in a roughly parallel fashion to unit labor costs, so the markup of prices relative to unit labor costs has been flat, although it has certainly fluctuated in the short run. As can be seen in Figure 2-11, this long-term property of the U.S. economy appears to have broken down over the past decade. The markup has now risen to its highest level in post-World War II history, with much of that increase taking place over the past four years. Because the markup of prices over unit labor costs is the inverse of the labor share of output, saying that an increase in the price markup is the highest in postwar history is equivalent to saying that the labor share of output has fallen to its lowest level.

The Administration expects consumer prices to rise slightly below 2 percent a year for the next few years, edging up to a 2.1 percent annual rate in the long run. The long-run projection is in line with the levels of inflation deemed by the Federal Reserve as consistent with stable prices and full employment, and only slightly below survey measures of long-run inflation expectations and the 5-year forward inflation rate implied by the yields on inflation-protected Treasury securities. 10 Moreover, because slack in the labor market remains, the economy has considerable room to expand without increasing price pressures.

¹⁰ The Survey of Professional Forecasters projects the CPI will grow at an average annual rate of 2.5 percent from 2011 through 2020.

Figure 2-10 Consumer Price Inflation, 2004–2011

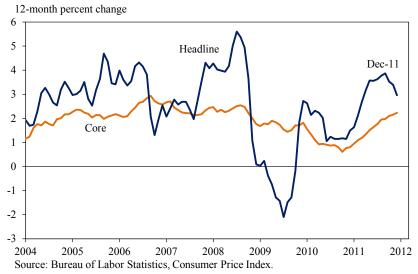
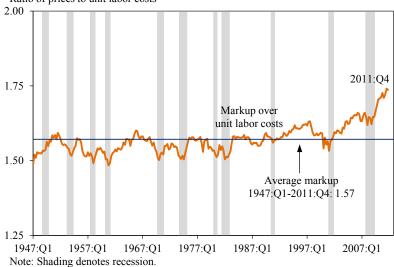


Figure 2-11 Price Markup over Unit Labor Costs, Nonfarm Business, 1947-2011 Ratio of prices to unit labor costs



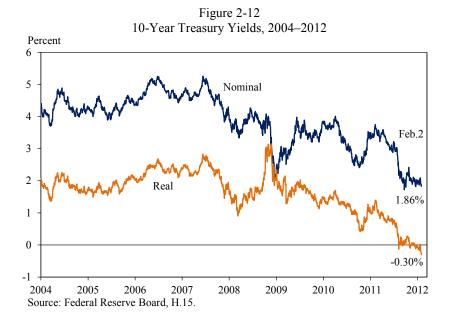
Source: Bureau of Economic Analysis, National Income and Product Accounts; Bureau of Labor Statistics, Productivity and Costs; CEA calculations.

Financial Markets

The past year was a volatile one for financial markets. Concerns that had arisen late in 2009 over sovereign debt in Greece and Portugal continued into 2011 and spread to several larger countries in the European Union, with effects that were felt worldwide.

Following a 12.8 percent gain in 2010, U.S. equity prices—as measured by the Standard and Poor's 500 Composite Index—were essentially flat in 2011. External factors weighed heavily on investor sentiment at times over the course of the year. After rising more than 8 percent from the end of 2010 through April, equity values plunged during the summer, reflecting the uncertainty surrounding the European sovereign debt problems and the protracted negotiations over raising the statutory U.S. Federal debt ceiling. Measures of market volatility—such as the Market Volatility Index (VIX)—rose sharply in mid-2011 before retreating near the end of the year. The VIX reached levels in 2011 that were about equal to those in mid-2009 but remained well below record levels in late 2008. The day-to-day changes in the S&P index exceeded 1 percentage point on 96 days in 2011, 20 days more than in 2010. In 2005 and 2006, swings in the S&P index exceeded a percentage point only 30 times per year on average.

Yields on 10-year Treasury notes were 1.98 percent in December 2011, down from 3.29 percent in December 2010 (Figure 2-12). Ten-year yields rose to a monthly high of 3.58 percent in February of 2011, as investors



elevated their outlook for the U.S. economy. Renewed concerns about sovereign debt issues in Europe, however, triggered a flight to safety that pushed down long-term rates, on balance, during the remainder of 2011. The Federal Reserve System's program to lengthen the maturity of the portfolio of their U.S. government debt also held down long-term rates. Over the final five months of the year, 10-year Treasury yields fluctuated around 2 percent, and real long-term interest rates at the same maturity, as indicated by the market for Treasury Inflation-Protected Securities, fluctuated around zero.

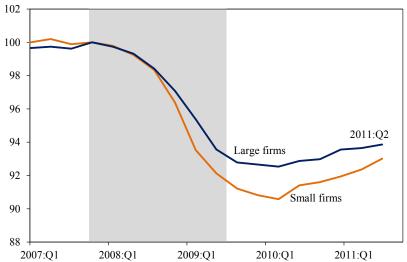
When the Administration's economic forecast was finalized in mid-November 2011, interest rates, both short- and long-term, were recognized as being in the low end of their historical range. Yet, in light of the Federal Reserve's August 9 announcement that "economic conditions ... are likely to warrant exceptionally low levels for the federal funds rate at least through mid-2013," the Administration did not foresee any material changes in short-term interest rates over the near term. Thus, the Administration's projected path for 91-day Treasury bills, calibrated from rates in the market for federal funds futures, anticipated that these rates would remain extremely low until the second half of 2013. The FOMC forecasted in January 2012 that these rates would remain low at least through late 2014.

Small Businesses and the Recovery

Small firms—with fewer than 500 employees—account for about half of private-sector nonfarm employment. Between 1993 and 2010, more than half of firms in the private sector had 1 to 4 employees, and nearly 98 percent had fewer than 100 employees. Figure 2-13 illustrates that small firms experienced proportionately larger job losses than large firms during the recession and until early 2010. Similarly, the number of bank loans to small firms fell dramatically during the recession and—although it has stabilized since—still has not returned to pre-recession levels (see Figure 2-14). In 13 consecutive quarters between 2007:Q1 and 2010:Q1, respondents to the Federal Reserve's Senior Loan Officer Opinion Survey reported that credit tightened or remained tight for small firms (those with less than \$50 million in annual sales) and that, since 2010, credit standards for large firms eased at a faster rate than for small firms.

Small firms depend more on banks for financing than do larger firms, in part because larger firms have access to other forms of finance, including public debt and equity markets, typically unavailable to small firms. Petersen and Rajan (1994) have documented the critical relationship between banks and small firms and showed that over half of financing for small firms came

Figure 2-13 Private Sector Job Recovery by Firm Size, 2007-2011 Indexed to 100 at 2007:Q4



Note: Small firms have fewer than 500 employees. Shaded area denotes recession.

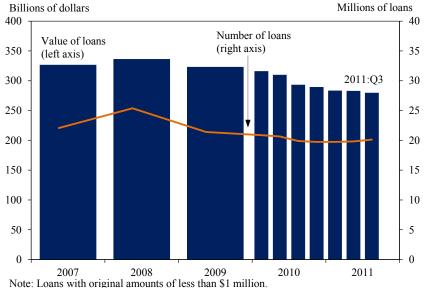
Source: Bureau of Labor Statistics, Business Employment Dynamics.

from bank finance. 11 Economists have modeled a link between the supply of credit and macroeconomic activity (Bernanke 1983; Holmstrom and Tirole 1997; and Peek and Rosengren 2000). Credit conditions have been shown to affect a variety of specific macroeconomic outcomes, including investment spending, inventories, and economic growth and development (Fazzari, Hubbard, and Petersen 1988; King and Levine 1993; Kashyap, Lamont, and Stein 1994; Levine and Zervos 1998; Rajan and Zingales 1998; and Guiso, Sapienza, and Zingales 2004). Gertler and Gilchrist (1994) find that smaller manufacturing firms respond more to money supply conditions than larger firms, and Kroszner, Laeven, and Klingebiel (2007) use cross-country evidence to show that banking crises negatively affect bank-dependent firms more than they affect firms less dependent on bank finance.

The credit-contraction hypothesis has been used to explain the steeper loss of employment in small firms. Until recently, however, the literature from the recent financial crisis has largely been unable to disentangle the contributions of credit-supply and aggregate-demand conditions. Duygan-Bump, Levkov, and Montoriol-Garriga (2011) use data from the Current Population Survey, Compustat, and the National Survey of Small Business

¹¹ Small firms in their paper are the smallest 10 percent of the sample measured by the book value of assets. Their sample, which is drawn from the Federal Reserve's National Survey of Small Business Finances conducted in 1988 and 1989, contains 3,404 firms with fewer than 500 employees.

Figure 2-14 Small Business Commercial and Industrial Loans, 2007–2011



Source: Federal Deposit Insurance Corporation, Statistics on Banking.

Finances to separate the contributions of these two factors. They find that, as in previous recessions involving banking crises, following the crisis of 2007-09, the likelihood of becoming unemployed was greater in sectors that were more dependent on external finance. Further, among firms highly dependent on banks for financing, the likelihood that an employee will become unemployed is greater in small firms (defined as those with 99 or fewer employees).12 The authors do not observe such a divergence in unem-

ployment incidence in firms with low dependence on external finance.

Prior to the financial crisis, the share of lending to small businesses by the largest banks-those with assets of over \$50 billion-had risen substantially (Corner and Bhaskar 2010). Since 2009, however, financing has been constrained and it remains so for small firms seeking funding. Simultaneously, the data show that other financial institutions—smaller banks, credit unions, and other alternative lenders—and governmentsponsored programs have filled part of this gap. Between January and December 2011, Biz2Credit, a private firm that matches over 1.5 million small businesses seeking loans to nearly 500 lenders and loan intermediaries, reports that loan-approval rates by large banks fell 3.1 percentage points, while increasing 3.6 percentage points at small banks, 8.5 percentage points

¹² This evidence does not address whether the credit-supply conditions are due to factors related to lower credit quality.

Box 2-1: SBA's Role in Financing Small Firms During the Recovery

The Small Business Administration (SBA) was created by Congress in 1953 to aid and provide technical support for small businesses. Many SBA programs seek to minimize the riskiness of small-business loans for lenders by guaranteeing a portion of these loans against default. SBA collaborates with federal agencies and the White House to ensure that at least 23 percent of Federal Government contract opportunities, worth nearly \$100 billion, are available to small businesses.

Traditional SBA programs, the 7(a) and 504 loans, target small firms. These programs have been found to have a positive impact on local economic performance (Craig, Jackson, and Thomson 2005). In response to ongoing tight credit conditions facing small firms during the recovery, the Small Business Jobs Act of 2010 increased the loan limits for SBA loan guarantees. The limits for equipment and real estate loans were increased permanently and the limits for working capital loans through the SBA Express program were increased temporarily. Between FY2010 and FY2011, the number of SBA loans approved increased 12.5 percent, while the value of SBA loans approved increased 45.4 percent (see box figure). SBA increased overall lending supported to \$30.5 billion in FY 2011, the highest ever lending year in its 60-year history.²

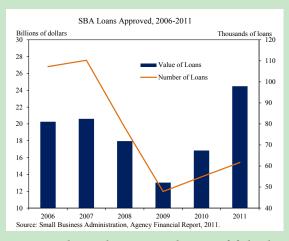
Recent economic research shows that new and young firms contribute disproportionately to job growth in the U.S. (see Chapter 6). The Obama Administration has created the Startup America initiative to support the role that startups play in economic growth and job creation. The initiative aims to accelerate high-growth entrepreneurship through policies that unlock access to capital for high-growth companies, create mentoring programs, accelerate lab-to-market innovation, and make government work better for entrepreneurs.

As a part of the Startup America initiative, SBA is improving access to capital for high-growth small businesses. The SBA has launched two new Small Business Investment Company (SBIC) programs, each seeking to guarantee an additional \$1 billion in private investment within five years: the Early-Stage Innovation Fund for seed- and early-stage companies and the Impact Investment Fund for companies in areas of national priority, including underserved markets and emerging

¹The Small Business Administration's definition of a small business uses guidelines that reflect, among other things, sales, employment levels, and sector of economic activity. These guidelines are available online at http://www.sba.gov/sites/default/files/Size_Standards_ Table.pdf.

² Lending supported includes gross loan approvals for SBA's 7(a) and 504 programs as well as third-party loans that are made by commercial lenders as part of the 504 funding package. The box figure depicts the value of loans 7(a) and 504 loans approved, which will be smaller than the value of loans supported.

sectors, such as energy and education. SBA licensed the first SBIC Impact Investment Fund in Michigan in July 2011. The InvestMichigan! Mezzanine Fund, with resources of \$130 million, is a public-private partnership between SBA, Dow Chemical Company, and Michigan Growth Capital Partners that will be managed privately and will focus on funding new and small firms with plans to expand their operations and create jobs. SBA also deepened its commitment to underserved markets in 2011 with the implementation of the Underserved Markets Initiative, which will disseminate SBA resources to youth, rural, veteran, low-income, and other communities.



SBA augmented its role as a coordinator of federal agencies in supporting small businesses in 2011. As is common after financial crises, small firms are experiencing difficulties managing cash flow due to adverse credit conditions. To improve access to working capital for thousands of small firms, in September, President Obama issued an executive order to institute the QuickPay program, which requires an agency to pay its contractors within 15 days and, at a maximum, within 30 days. As with the QuickPay program, SBA plays a coordinating role for the Small Business Innovation Research (SBIR) program, which focuses on small high-technology firms and includes 11 granting agencies. Evidence suggests that SBA and SBIR involvement make a difference to young firms. Between 1983 and 1997 awardees of the SBIR program subsequently had substantially higher employment and sales growth compared to a matched sample of similar firms (Lerner 1999). In December, Congress passed a long-term reauthorization of the SBIR program that will increase its funding.

at credit unions, and 12.9 percentage points at other alternative lenders, such as CDFIs, microlenders, and accounts-receivable financiers.¹³

In 2009, the Obama Administration increased the amount of capital invested in financial institutions and other entities to support small-business lending. This lending evolved along two lines: investing capital directly into financial institutions that provide small business loans and adding funding to new and existing programs that provide credit support to small business loans. In terms of direct investment that strengthened small-business lending, the Administration invested more than \$11 billion in over 1,000 financial institutions, most of which were small banks but also including credit unions, Community Development Financial Institutions (CDFIs), and business loan funds. The programs that provide small-business credit support include the new State Small Business Credit Initiative (SSBCI), which is expected to channel \$15 billion in new small-business lending, as well as existing programs, such as loan-guarantee programs housed at the Small Business Administration (SBA), the Department of Agriculture, and the Export-Import Bank. Other Administration initiatives also helped small firms gain access to capital at a critical period. For example, the Financial Stability program was modified in 2009 to protect auto parts suppliers, 82 percent of which employ less than 100 workers, to ensure that they would be paid for any parts they shipped, regardless of the fate of the recipient car company. Given the integral role auto-parts manufacturers play in the manufacturing supply chain, systemic failure in this sector would have had a substantial effect on the auto industry, the manufacturing supply chain, output, and employment.14

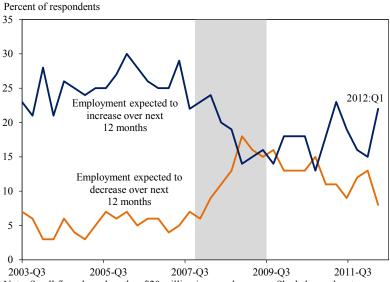
By the end of FY2011, marked increases in these capital-access programs were partly due to the introduction of two new programs administered by Treasury—the Small Business Lending Fund (SBLF) and the SSBCI—and increases in the scope of the aforementioned loan-guarantee programs. As of the beginning of January, institutions participating in the SBLF have increased lending to small businesses by roughly \$3.5 billion over their baseline, and, in Fiscal Year 2011, SBA supported over \$30 billion in loans. (Box 2-1 further describes the Administration's efforts to address credit constraints among small businesses through the SBA's loan-guarantee programs administered through bank finance and Startup America.)

The most recent data on the expectations of small businesses concerning financing and future job growth suggest that these efforts, along with

¹³ Small firms in the Biz2Credit sample are firms with fewer than 500 employees and under \$6 million in annual revenue. Loan-approval rates are based on a random sample of 1,000 firms in the Biz2Credit database reported each month between January 2011 and December 2011.

¹⁴ It is estimated that intervention in the auto industry broadly averted a loss of approximately 1.1 million jobs and hundreds of small businesses (White House 2010).

Figure 2-15 Employment Outlook for Small Businesses, 2003-2012



Note: Small firms have less than \$20 million in annual revenue. Shaded area denotes

Source: Wells Fargo/Gallup Small Business Survey cited in Jacobe (2012).

the ongoing economic recovery, are having a positive effect. Small-business owners who responded to the Wells Fargo-Gallup survey conducted from January 9 to 13, 2012, for example, report being more optimistic than at any time since July 2008. This sentiment is largely attributed to sharp increases in their expectations related to their firms' financial situation, i.e., revenue and cash flow.¹⁵ Moreover, respondents' hiring plans have become more optimistic than at any point since January 2008, as Figure 2-15 illustrates. In early 2012, more small businesses expected to add new employees in the next 12 months (22 percent) than expected to let them go (8 percent). This is the biggest margin by which small businesses' expectations for increasing jobs have exceeded those for decreasing jobs since the start of the financial crisis in 2008.

THE LONG-TERM OUTLOOK

Looking ahead, the Administration projects that the economic recovery that began in 2009 will continue and gather speed (Table 2-1). In the economic forecast, which was used to estimate the FY 2013 Budget, inflation

¹⁵ The Wells Fargo-Gallup telephone survey was based on a nationally representative sample of 604 firms extracted from the Dun & Bradstreet database of firms earning \$20 million in annual revenue or less. See Jacobe (2012).

remains moderate, interest rates rise gradually, and the rate of unemployment recedes. The Administration projects real GDP growth to rise to 3 percent in 2012 and 2013 after growing 1.6 percent during the four quarters of 2011.

The Administration also expects the employment situation to continue to improve in coming years: The Administration's unemployment rate forecast—also completed in mid-November 2011, when the latest-available reading on the unemployment rate was 9.0 percent for October, is shown in the first column of Table 2-2. The Budget forecast does not reflect the improvement in the job market since the forecast was finalized. Since that forecast was completed, the unemployment rate has fallen to 8.3 percent, beginning 2012 well below the 8.9 percent unemployment rate that had been forecast for the year as a whole. This should not be interpreted as a projection that the unemployment rate will rise: instead, it is the result of an out-of date forecast. The second, third, and fourth columns of Table 2-2 show a range of forecasts that were completed more recently so as to illustrate a plausible range through which the unemployment rate is likely to evolve.

Table 2-1 Administration Economic Forecast

Transmittation Economic Toronto							
	Nominal GDP	Real GDP (chain- type)	GDP price index (chain- type)	Con- sumer price index (CPI-U)	Interest rate, 91-day Treasury bills (percent)	Interest rate, 10-year Treasury notes (percent)	
	Percent change, Q4-to-Q4				Level, calendar year		
2010 (actual)	4.7	3.1	1.6	1.2	0.1	3.2	
2011	4.0	1.7	2.2	3.6	0.1	2.8	
2012	4.6	3.0	1.6	1.9	0.1	2.8	
2013	4.7	3.0	1.6	1.9	0.2	3.5	
2014	5.8	4.0	1.7	2.0	1.4	3.9	
2015	6.1	4.2	1.8	2.0	2.7	4.4	
2016	5.8	3.9	1.8	2.1	3.8	4.7	
2017	5.7	3.8	1.8	2.1	4.1	5.0	
2018	4.6	2.8	1.8	2.1	4.1	5.1	
2019	4.4	2.6	1.8	2.1	4.1	5.1	
2020	4.3	2.5	1.8	2.1	4.1	5.1	
2021	4.3	2.5	1.8	2.1	4.1	5.3	
2022	4.3	2.5	1.8	2.1	4.1	5.3	

Note: 2011-2022 forecasts were based on data available as of November 15, 2011, and were used for the FY 2013 Budget. The interest rate on 91-day T-bills is measured on a secondary-market discount basis.

Source: The forecast was done jointly by the Council of Economic Advisers, the Department of Commerce (Bureau of Economic Analysis), the Department of the Treasury, and the Office of Management and Budget.

Table 2-2 Alternative Labor Market Forecasts, as of February 2012

		Nonfarm payroll employment				
		Annual average		Fourth quarter	(average monthly	
	FY 2013 Budget ^a Nov-2011	CBO ^b Dec-2011	Blue Chip ^c low-high Feb-2012	FOMC ^d low-high Jan-2012	change, Q4-to-Q4, thousands) Feb-2012	
2011	9.0	9.0	_	_	146	
2012	8.9	8.8	8.0 – 8.6	8.2 – 8.5	167	
2013	8.6	9.1	7.4 – 8.4	7.4 – 8.1	220	
2014	8.1	8.7	_	6.7 – 7.6	264	
2015	7.3	7.4	_	_	284	
2016	6.5	6.3	_	_	259	
2017	5.8	5.7	_	_	251	
2018	5.5	5.5	_	_	131	
2019	5.4	5.5	_	_	101	
2020	5.4	5.4	_	_	92	
2021	5.4	5.4	_	_	97	
2022	5.4	5.3	_	_	89	

^a The Administration Budget forecast (done jointly by the Council of Economic Advisers, the Office of Management and Budget, the Department of the Treasury, and the Department of Commerce) was based on data available as of November 15, 2011.

Source: Aspen Publishers, Blue Chip Economic Indicators; Federal Reserve, Federal Open Market Committee.

In early February, the ten forecasters with the lowest unemployment rate forecasts on the Blue Chip panel of professional forecasters projected that the unemployment rate would average 8.0 percent in 2012 and 7.4 percent in 2013 while the highest ten projected 8.6 and 8.4 percent for those two years. Similarly, the members of the Federal Reserve's Open Market Committee projected a central-tendency band of 8.2 percent to 8.5 percent for the fourth quarter of 2012 and 7.4 to 8.1 percent for 2013. And it should be noted that the CBO and FOMC forecasts are somewhat out of date in view of the encouraging January labor market report.

The Council of Economic Advisers' forecast for the gain in payroll employment was finalized in early February, after the labor market report was released showing growth of 157,000, 203,000, and 243,000 in November, December, and January, respectively. Looking ahead, the average monthly change in payroll employment is projected to rise from 146,000 in 2011 to

^b The Congressional Budget Office forecast was completed in early December.

^cThe Blue Chip Economic Indicators for February 2012 was based on a survey of more than 50 professional forecasters conducted on February 6-7, 2012. The high-10 and low-10 forecasts are the average of the ten highest and ten lowest forecasts.

^d The high and low end of the central tendency of the Federal Open Market Committee announced on January 25, 2012.

^eBased on data available on February 5, 2012.

about 167,000 in 2012. At this pace, two million jobs will be created during 2012, an increase from the 1.8 million created last year.

Despite shocks that slowed growth in 2011, the Administration expects an upturn in economic growth. With the economy now operating below its capacity and many resources still underutilized, we forecast that the recovery will continue to gain strength.

Growth in GDP over the Long Term

The growth rate of the economy over the long run is determined by the growth of its supply-side components, although growth rates over shorter periods can vary considerably. The growth rate that characterizes the long-run trend in real U.S. GDP—or potential GDP—plays an important role in guiding the Administration's long-run forecast, because actual GDP tends to gravitate toward its potential in the long run. Between 2011:Q3 and 2022:Q4—the projection period for the FY 2013 Budget—potential real GDP is projected to grow at a 2.5 percent annual rate.

Table 2-3 shows the Administration's forecast for the contribution of each supply-side factor to the growth in potential real GDP. The factors include the population, the rate of labor force participation, the employed share of the labor force, the ratio of nonfarm business employment to household employment, the workweek, labor productivity, and the ratio of real GDP to nonfarm output. Each column in Table 2-3 shows the average annual growth rate for each component over a specific period of time: The first column shows the long-run average growth rates between the business-cycle peak of 1953 and the business-cycle peak of 2007, with business-cycle peaks chosen as end points to remove the substantial fluctuations within cycles and to reveal long-run trends. The second column shows average growth rates between 2007:Q4 and 2011:Q3, a period that includes the 2007-09 recession and the recovery so far. The third column shows the Administration's projection for the 11-year period from 2011:Q3 to 2022:Q4, and the fourth column shows average projected growth rates between 2007:Q4 and 2022:Q4, a blended forecast period over which the effects of the recession and recovery are offsetting.

The working-age population is projected to grow 1.0 percent a year, on average, over the projection period (line 1, column 3), the same rate of growth that is projected by the Census Bureau. Over this same period, the labor force participation rate is projected to decline 0.1 percent a year (line 2, column 3), primarily because of longstanding demographic trends. The projected moderate decline in the labor force participation rate reflects the balance of opposing influences. The entry of the baby-boom generation into its retirement years is expected to reduce the participation rate in the

Table 2-3 Components of Actual and Potential Real GDP Growth, 1952-2022

Component		Growth rate ^a				
		History, peak-to- peak	Recent his- tory, since peak	Forecast	History and forecast, since peak	
		1953:Q2 to 2007:Q4 ^b	2007:Q4 to 2011:Q3	2011:Q3 to 2022:Q4	2007:Q4 to 2022:Q4	
1	Civilian noninstitutional population aged 16+	1.4	1.1	1.0	1.0	
2	Labor force participation rate	0.2	-0.8	-0.1	-0.3	
3	Employed share of the labor force	-0.0	-1.2	0.4	-0.0	
4	Ratio of nonfarm business employment to household employment	0.0	-1.0	0.1	-0.2	
5	Average weekly hours (nonfarm business)	-0.3	-0.1	0.0	-0.0	
6	Output per hour (productivity, nonfarm business)	2.1	1.9	2.3	2.2	
7	Ratio of real GDP to nonfarm business output	-0.2	0.2	-0.5	-0.3	
8	Sum: Actual real GDP	3.2	0.1	3.1	2.4	
9	Memo: Potential real GDP	3.2	2.5	2.5	2.5	

^a All contributions are in percentage points at an annual rate.

Note: Population, labor force, and household employment have been adjusted for discontinuities in the population series. Nonfarm business employment, workweek, and productivity come from the Labor Productivity and Costs database maintained by the Bureau of Labor Statistics.

Source: Bureau of Labor Statistics, Current Population Survey, Labor Productivity and Costs; Bureau of Economic Analysis, National Income and Product Accounts; Department of the Treasury; Office of Management and Budget; CEA calculations.

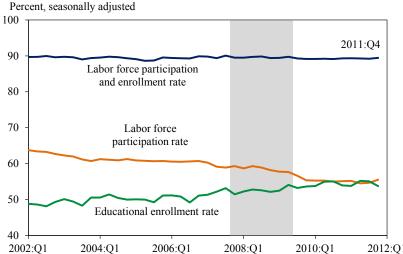
coming years, but some of this reduction is projected to be offset as the labor market improves. The labor force participation rate may also receive a boost during the forecast period from the recent increase in the share of young adults enrolled in school. The share of young adults aged 16 to 24 enrolled in school rose well above its trend between January 2008 and December 2011, sufficient to account for the entire decline in the labor force participation rate for this age group over this period (Figure 2-16). As these young adults complete their education, they are expected to re-enter the labor force. Taking into account all of these effects, the labor force participation rate is projected to recede about 0.1 percent a year between now and 2022.

The employed share of the labor force—which is equal to 1 minus the unemployment rate—is expected to increase 0.4 percent per year over the next 11 years (line 3, column 3) but to be nearly unchanged, on balance, between 2007 and 2022 (line 3, column 4). 16 Because of the recession, the employed share of the labor force has contributed negatively to GDP growth

^b 1953:Q2 and 2007:Q4 are business-cycle peaks.

¹⁶ To be precise, changes in the employment ratio reduce growth in real GDP by 0.04 percentage point per year between 2007:Q4 and 2022:Q4, because the unemployment rate in 2007:Q4 (4.8 percent) was below the level consistent with stable inflation, which is expected to remain stable at around 5.4 percent from 2007 through the end of the projection period.

Figure 2-16
Labor Force Participation and Educational Enrollment,
Ages 16–24, 2002–2011



Note: Enrollment rate is defined as the number of those enrolled in school but not in the labor force as a share of the population. Shading denotes recession.

Source: Bureau of Labor Statistics; CEA calculations.

during the past four years, but the contribution is projected to turn positive during the projection period.

The workweek is projected to remain roughly unchanged during the projection period (line 5, column 3) even though it has declined 0.3 percent a year, on average, over the long run (line 5, column 1). The workweek is expected to hold steady as a natural labor-market adaptation to the anticipated decline in the labor force participation rate.

Labor productivity is projected to increase 2.3 percent a year over the forecast horizon (line 6, column 3), a slight increase over the average growth rate from 1953–2007 (line 6, column 1). The elevated rate of long-term unemployment poses some risk to the projection insofar as the human capital of workers may deteriorate with prolonged unemployment. On the other hand, higher rates of school enrollment among young adults in recent years, as noted, should contribute to productivity growth in the coming years.

The ratio of real GDP to nonfarm business output is expected to subtract from GDP growth over the projection period (line 7, column 3), consistent with its long-run trend. The nonfarm business sector generally grows faster than other sectors, such as government, households, and nonprofit institutions, reflecting an accounting convention that holds productivity growth to zero for government.

Summing each of these pieces, real GDP is projected to rise at an average 3.1 percent a year over the projection period (line 8, column 3), notably faster than the 2.5 percent annual growth rate for potential real GDP (line 9, column 3). Actual GDP is expected to grow faster than potential GDP primarily because of the projected rise in the employment rate (line 3, column 3) as millions of workers who are currently unemployed find jobs. Smoothing through the effects of the recent business cycle, real GDP is expected to rise 2.4 percent a year, on average, over the 15-year period from 2007 to 2022, just short of the growth rate of potential real GDP of 2.5 percent because the economy in 2007 is estimated to have been above its trend.

Real potential GDP is projected to rise 2.5 percent a year in 2007–2022 (line 8, column 4), more slowly than the long-term historical growth rate of 3.2 percent a year (line 8, column 1). The projected slowdown in real potential GDP growth reflects the lower projected growth rate of the working-age population and the aging of the baby-boom cohort into retirement. The effects of the financial crisis and the 2007-09 recession, in contrast, are expected to have little effect on the level of potential real GDP by the end of the projection, because the recession is not expected to permanently reduce any of the demographically-determined elements of long-term growth.

An important question addressed in the budget outlook, however, is how quickly real GDP will return to its potential level. In the Administration's 2013 Budget forecast, the U.S. economy catches up to potential real GDP in the second half of the forecast period. The historical record supports this forecast. The full recovery of real GDP during the decade following the Great Depression suggests that the U.S. economy can recover from a severe shock to return to this underlying trend level.

Conclusion

The U.S. economy continued to recover in 2011 from the severe effects of the financial crisis and the deep recession that followed. The rise in real GDP since the beginning of the recovery has been roughly similar to the trend in both following the 1991 and 2001 recessions, while private payroll growth came sooner and more swiftly than in the beginning of the recovery from the 2001 recession. The housing market began to show signs of life in 2011, and is likely to have a positive effect on the economy, though from a low base.

As 2012 begins, the recovery appears most likely to proceed at a moderate pace over the coming year, with the gains in output and employment increasing in subsequent years, as credit conditions continue to ease and confidence improves. Ensuring this outcome requires policies that both restore balance to the economy by increasing aggregate demand and guard against the types of excesses that led to the crisis in the first place. With millions of Americans still unemployed, much work remains to restore the U.S. economy to full health. Only a prolonged and robust expansion can eliminate the large jobs deficit that opened up during the recession, and the economy as a whole has considerable room to grow. The fact that private job growth has closely tracked the pattern of the early 1990s expansion is encouraging, and highlights the importance of sustaining the recovery.



CHAPTER 3

RESTORING FISCAL RESPONSIBILITY

When President Obama took office three years ago, the Administration was given an annual deficit of \$1.3 trillion and a projected 10-year fiscal shortfall of more than \$8 trillion.¹ The Administration has taken many steps to restore fiscal responsibility because large and sustained fiscal imbalances pose one of the Nation's greatest economic challenges. Policymakers are charged with the dual imperative of safeguarding the ongoing economic recovery while simultaneously ensuring that future generations are not burdened with excessive debt and that future government borrowing does not unduly crowd out private investment. In the near term, sharp deficit reduction serves as a drag on aggregate demand and threatens to disrupt ongoing economic growth. In the long term, persistent budget deficits can reduce national saving, raise interest rates, and discourage private domestic investment, even in an economy as dynamic and robust as our own. These seemingly conflicting concerns make deficit reduction a crucial but delicate endeavor.

Recognizing the economic risks associated with sustained large budget deficits, the Obama Administration has made deficit reduction a priority. In February 2010, the President signed the Statutory Pay-As-You-Go Act, a law that restored the commonsense principle of paying for permanent mandatory spending or tax changes—a rule that had lapsed or been waived during the previous decade. In March 2010, the President signed the Affordable Care Act, which both expands health coverage and directly addresses one of the key drivers of the long-term deficits, rising health care costs. Last summer, the President and Congress enacted a \$1 trillion deficit-reduction package in the Budget Control Act of 2011, with a minimum \$1.2 trillion

¹ In this chapter only, unless otherwise noted, budget deficits and spending programs are reported in fiscal years and tax receipts are reported in calendar years.

in further reductions scheduled to follow. As a way forward, the President has laid out a balanced plan that would—in combination with the Budget Control Act and other deficit reduction measures taken since the beginning of 2011—cut the 10-year deficit by more than \$4 trillion, bring the budget into primary balance so that revenues cover all noninterest expenditures, and reduce debt as a share of the economy. These steps represent a radical departure from the budget policies of the previous administration, which included a series of sweeping tax cuts skewed toward the wealthiest, establishment of the Medicare prescription drug benefit program, and wars in Iraq and Afghanistan—all enacted without being offset by cuts or additional revenue raised elsewhere in the budget.

This chapter highlights the sources of budget deficits and public debt, describes projected budget outlooks, and outlines the Administration's deficit-reduction plan, a balanced approach that recognizes the need to prioritize spending initiatives while aligning revenues with current spending by asking the highest-income Americans to contribute to deficit reduction, as well as closing loopholes for corporations and special interests. The President's plan acknowledges that balancing the budget on the spending side of the ledger alone would hurt programs that help the middle class and those trying to get into it and put at risk other national priorities, such as investment in infrastructure and education.

The prospective fiscal imbalances have been decades in the making. Restoring balance will necessitate bold and difficult reforms in government programs. Although the Affordable Care Act and the Budget Control Act were the most aggressive Federal deficit-reduction legislation in years, much work remains to be done. Because budget projections show continued fiscal imbalances, it is critical for Congress to work with the Administration to return the Nation to a sound fiscal outlook.

DETERMINANTS OF CURRENT DEFICITS

Under current law and established budget policy, which are reflected in the adjusted baseline of the Office of Management and Budget (OMB), the annual budget would improve rapidly as the economy recovers, falling from \$1.3 trillion in 2011 (8.7 percent of GDP) to \$662 billion in 2014 (3.9 percent of GDP). Despite these projected improvements, the deficits moving forward are expected to remain at unsustainable levels absent additional policy actions. The fiscal shortfall is not primarily driven by countercyclical policies enacted in response to the Great Recession. Instead, recent deficits are principally the result of spending policies enacted during the previous

administration, sweeping tax cuts initiated in 2001 and 2003,² and economic conditions. While temporary policies designed to increase aggregate demand, improve business investment, and jump-start employment contributed to annual deficits immediately following the financial crisis, they are less costly than the previous decade's spending and tax policies; most importantly, they are temporary emergency measures projected to have a minimal effect on annual budget deficits going forward.

As noted, spending policies enacted in the early part of the previous decade are one of the primary causes of recent deficits. Wars in Iraq and Afghanistan, substantially more costly than initially announced by the previous administration, added \$1.3 trillion in military spending between September 2001 and December 2011. The Medicare Part D prescription drug benefit, enacted in 2003, has raised Medicare spending by over \$250 billion through calendar year 2011. Increased interest costs associated with these programs have driven deficits even higher.

Tax cuts initiated in the previous decade, including those for the wealthiest individuals, have helped drive down tax revenues to historical lows. In particular, sweeping cuts in income and estate taxes, initially enacted in 2001 and 2003, have reduced revenue and increased interest costs by nearly \$3.0 trillion between 2001 and 2011 (Ruffing and Horney 2011). In 2011, Federal tax receipts amounted to just 14.4 percent of GDP, far below the postwar average of 17.7 percent. Part of this revenue shortfall is attributable to temporary tax cuts designed to aid the economy and create jobs, and part to the slow rebound of wages, investment income, and corporate profits—the income base from which tax receipts are primarily derived. But several ongoing tax policy trends that long predated the financial crisis have also put downward pressure on tax revenue.

By comparison, policies enacted to revitalize the economy and stabilize the financial system have contributed only moderately to deficits over the past several years, with a substantially waning impact after 2012. The American Recovery and Reinvestment Act (the Recovery Act) of 2009 cost \$833 billion overall, while the most recent Troubled Asset Relief Program (TARP) cost estimate is just \$68 billion. Other countercyclical measures, including the 2 percentage point payroll tax reduction for workers, have also carried relatively small costs, which have often been offset by other budget measures. For example, the Temporary Payroll Tax Cut Continuation Act of 2011, which temporarily extended the payroll tax cut, unemployment

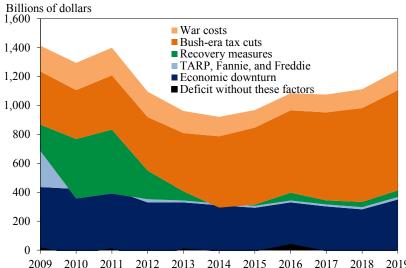
² These policies contributed to a historic gap between projected and realized budget outcomes. In 2001, following several years of budget surpluses, the Congressional Budget Office projected a cumulative surplus of \$5.6 trillion between 2001 and 2011 (CBO 2001). No surplus was realized after 2001, and a cumulative deficit of \$6.5 trillion accumulated between 2001 and 2011.

benefits, and certain about-to-expire Medicare provisions regarding physician payments, included offsets that made the bill deficit neutral.

Figure 3-1 compares the incremental cost of various post-2001 determinants of the deficit, including the wars in Iraq and Afghanistan, economic downturns, 2001 and 2003 tax cuts, financial stabilization measures, and economic stimulus initiatives. What the figure does not show is the path the deficit would have taken had the Great Recession persisted. The projections in the figure, based on Congressional Budget Office (CBO) data, incorporate both the direct economic growth owing to countercyclical measures undertaken by the Obama Administration and the subsequent projected economic recovery. If economic growth had turned negative instead of growing throughout 2009–11, or if the financial system had remained in turmoil, the tax base would have eroded further and the fiscal crisis would have been more severe.

The connection between unused countercyclical fiscal policy and stunted economic growth has been shown time and again. From the Great Depression, to Japan's Lost Decade, to international attempts to enact austerity measures during economic recessions, research has shown that in the absence of countercyclical measures, recessions become even more severe (Auerbach and Gale 2010). As painful as the past three years have been

Figure 3-1 Selected Components of Deficit Projections: 2009–2019



Note: Based on CBO budget projections. CBO employs different economic assumptions and methodology than OMB. As a result, the projections presented in this figure may differ from those presented by OMB.

Source: Ruffing and Horney (2011).

for the U.S. economy, countercyclical measures brought the downturn to a quicker end and have reinforced the recovery.

While demographic trends and rising health care costs pose serious challenges on the spending side of the ledger, the failure of tax revenue to match Federal spending remains a primary concern.

Falling Effective Tax Rates on Upper-Income Taxpayers

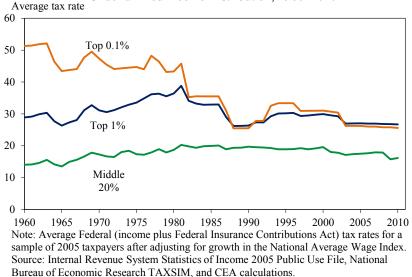
Effective tax rates, also known as average tax rates, are simply the amount of taxes paid as a share of total income. In contrast, marginal rates are defined as the taxes paid on an additional dollar of earnings. Tax preferences, such as preferential rates for investment income or deductions for particular activities, can drive effective tax rates far below marginal tax rates. As a result, effective tax rates have varied over time with periodic tax reforms and a shift in the composition of income among high earners toward business and capital income. Several of the President's tax policy initiatives, including the American Opportunity Tax Credit, the expansion of refundable tax credits for families with children, and the cut in the payroll tax, have provided tax relief for middle-income Americans.

In order to isolate the effects of changing tax policy on effective tax rates, a useful exercise is to track effective tax rates holding income characteristics constant. Under this methodology, as indicated in Figure 3-2, effective tax rates on middle-income Americans rose slightly in the 1960s and 1970s, and then remained mostly flat between 1980 and the start of the Obama Presidency. Effective tax rates for the top 1 percent have varied moderately over the past five decades, peaking in about 1980 before falling back to lower levels between the late 1980s and the present. In stark contrast, the wealthiest taxpayers have seen their effective tax rate plummet over the past five decades because of changes in Federal tax policies. The wealthiest 1-in-1,000 taxpayers pay barely a quarter of their income in Federal taxes today—half of what they would have contributed in 1960.

Although trends in effective tax rates are attributable to a variety of factors, the tax cuts initiated under the previous administration had a notable impact. When the Economic Growth and Tax Relief Reconciliation Act of 2001 cut statutory income tax rates, high-income taxpayers benefited disproportionately, in large part because of the cut in the top rate from 39.6 percent to 35.0 percent. Two years later, in 2003, preferential rates on longterm capital gains and dividends were cut to historical lows of 15 percent, again resulting in large benefits for the upper-income taxpayers who realize the bulk of investment income.

Treasury data show clearly that high-income families benefited the most from the 2001 and 2003 tax law changes. For example, as Figure 3-3

Figure 3-2 Average Tax Rates for Selected Income Groups Under a Fixed Income Distribution, 1960–2010



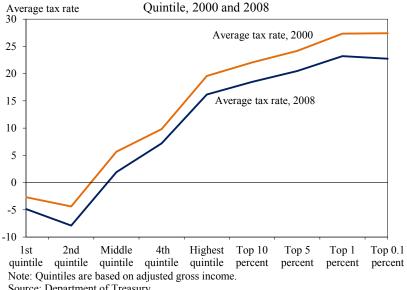
illustrates, between 2000 and 2008, income tax rates fell more for the top 1 percent and top 0.1 percent of the income distribution than for the middleincome quintile. Average individual income tax rates fell by 4.7 percentage points for families in the top 0.1 percent, but only by 3.7 percent for middleincome families.

To help reduce the deficit consistent with the notion of shared responsibility, the President's Fiscal Year 2013 Budget proposes to let the tax breaks expire for income above \$250,000 a year, reversing a decade-long trend of unequal tax benefits for the wealthy, while making the tax cuts for those families making \$250,000 or less permanent.

Heterogeneity in Effective Tax Rates among High-Income **Taxpayers**

The gradual drop in effective tax rates on high-income taxpayers is only part of the story. Effective tax rates on these taxpayers also vary widely because of the tax code's differing treatment of various sources of income, allowances for changing the timing of taxes paid, and various deductions and credits. For example, a high-income taxpayer who is compensated primarily with cash wages might remit in excess of 30 percent of income in payroll and income taxes, while a high-income taxpayer who receives a large share of compensation in the form of interest in an investment fund (known as "carried interest") would have a far lower tax rate.

Figure 3-3 Average Individual Income Tax Rates by Income



Source: Department of Treasury.

In 2012, among taxpayers in the highest income quintile, effective tax rates (including income, payroll, and corporate taxes) are expected to vary between 12.1 percent for those at the 10th percentile (in terms of effective tax rates) to 29.3 percent for those at the 90th percentile. That is, 10 percent of all high-income taxpayers are expected to pay less than 12.1 percent of their income in Federal taxes and another 10 percent are expected to pay more than 29.3 percent (the remaining 80 percent will pay somewhere in between the two rates). For the top 1 percent of taxpayers, the variation in rates is even starker. Among those in the top 1 percent, one in ten taxpayers is expected to pay less than 8.7 percent of their income in taxes, while another one in ten is expected to pay 34.6 percent or more (see Table 3-1).

The variation is perhaps most evident at the very top of the income distribution. In 2008, the most recent year for which data are available, 30 of the 400 highest-earning taxpayers (7.5 percent) paid less than 10 percent of their income in Federal income taxes, while 59 (14.8 percent) paid in excess of 30 percent.

Addressing the Role Of Exclusions and Deductions in Effective Tax Burdens

As noted, effective tax rates vary widely because of myriad deductions, exemptions, and preferences in the tax code. Moreover, particular streams of income are excluded from taxation entirely. But, as noted, the expanding

Table 3-1 Distribution of Average Federal Tax Rates

Family and in a second	Average rate at each breakpoint in the rate distribution					
Family cash income group	10th	25th	Median	75th	90th	
Lowest quintile	-13.7	0.0	5.4	13.1	15.5	
Second quintile	-8.7	0.5	7.2	17.0	20.9	
Middle quintile	1.7	5.4	13.3	20.4	23.5	
Fourth quintile	7.2	12.1	17.2	22.3	26.2	
Highest quintile	12.1	17.4	21.9	26.0	29.3	
Total	0.0	5.0	14.5	20.7	25.0	
Top 1 percent	8.7	21.2	29.6	32.3	34.6	

Note: Calculations assume 2012 tax law with an AMT patch and 2012 income levels, and includes individual income tax, corporate income tax, and payroll tax. For the lowest income quintile, the calculation of average rates and the distribution of average rates do not include families with negative income. These families are included in the total.

Source: Department of Treasury.

array of such tools within the tax code has enabled some high-income tax-payers to reduce their tax liability dramatically. Decades ago, the Alternative Minimum Tax (AMT) was enacted in an attempt to combat the low rates paid by some high-income taxpayers, but its poor design has caused it to fall primarily on upper-middle-income families from high-tax states, as well as on those with many children (Burman 2007). In addition, because the value of a deduction or exclusion is a function of a taxpayer's marginal tax rate, deductions and exclusions from taxable income are typically worth much more to high-income households—as much as two to three times more—than to low- and middle-income ones.

As a way to combat this "upside-down" system of tax incentives, the President has proposed several principles for tax reform. The President's proposed Buffett rule would ensure that Americans making more than \$1 million a year would pay no less a share of their income than middle-income families pay—in particular, no less than 30 percent of their income—in taxes. In addition, the President has proposed tax reform that would ensure fair incentives for the middle class, helping to equalize the value of tax expenditures across the income distribution. (For information on how to evaluate effective tax rates based on their progressivity, see Economics Application Box 3-1).

THE FISCAL OUTLOOK

Without the pro-growth policies of the past three years, future budget shortfalls would be even more severe. Moreover, the policies presented in the Administration's Fiscal Year 2013 Budget significantly improve projected medium-term deficits relative to an adjusted policy baseline, and projected long-term public debt continues to rapidly decline over the course of the Obama Administration.

Medium-Term Budget Projections

Under the OMB adjusted baseline, medium-term deficits gradually decline as a share of GDP-projected deficits fall from 8.7 percent of GDP in 2011 to 4.7 percent of GDP in 2022, as Figure 3-4 indicates. This adjusted baseline represents a medium-term scenario in which current policies continue throughout the decade. The scenario includes the continued indexation of AMT parameters, extension of the 2001 and 2003 tax cuts, and extension of the estate tax parameters at their current levels, as well as a continuation of current levels of spending for Overseas Contingency Operations and physician pay rates under Medicare.

This improved fiscal outlook is due in large part to a recovering economy and the fiscal steps the Administration has already taken, including the Affordable Care Act and the Budget Control Act. Nonetheless, this adjusted baseline remains problematic and represents a fundamental imbalance between government spending and revenues. The President's plan to rebalance revenue streams and spending priorities is detailed later in the chapter.

Projected Medium-Term Budget Deficits, 2011–2022 Percent of GDP 10 9 8 7 6 5 Adjusted baseline 4 3 2 1 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 Note: See text for policies incorporated in OMB's adjusted baseline.

Source: Office of Management and Budget (2012a).

Restoring Fiscal Responsibility | 89

Economics Application Box 3-1: Measuring Progressivity in the Tax Code

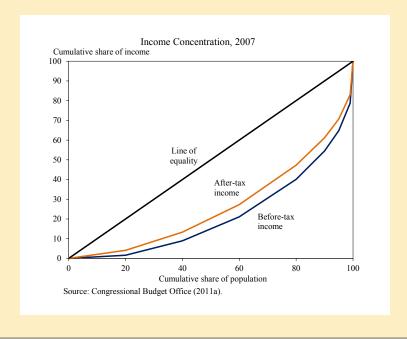
Tax changes are typically evaluated based on several key criteria, including efficiency, simplicity, ease of compliance and administration, impact on economic activity, and progressivity. Progressivity is the measure of how a particular policy affects households with differing levels of income or resources. Fairness is the essence of progressivity; many taxes—particularly income taxes—are designed to ensure a lighter tax burden for households with less income and lower ability to pay.

Economists typically define a progressive tax as one that has average tax rates that increase with income; under a progressive tax code, higher-income taxpayers devote a higher share of their income to taxes than other taxpayers. A progressive tax change is one that lowers average tax rates more for low- and middle-income households relative to others or raises average tax rates more for high-income households relative to others. For example, the recent 2 percentage point cut in the payroll tax is considered progressive because it reduces average tax rates more for low- and middle-income families compared to high-income families.

Other measures of progressivity, such as measures that refer strictly to dollar changes in taxes paid or to the percentage change in taxes paid, can be misleading. For example, a tax cut might reduce taxes paid by low-income households from \$100 to \$50 (a change of 50 percent), and reduce taxes paid by high-income households from \$500,000 to \$400,000 (a change of just 20 percent). Some might argue that this change is progressive because it reduces taxes paid by lowincome households by proportionately more than it reduces taxes paid by high-income households, but this measure is actually inconclusive because it tells us nothing about the change in average tax rates. Along these same lines, metrics that focus on the share of taxes paid are not useful because they do not incorporate information on average tax rates by income group.

The definition of income or well-being can also be important when measuring progressivity. Some forms of compensation—such as employer contributions to a retirement account or health insurance premiums paid by an employer—may not be considered income for tax purposes but might in principle be considered as income for measuring taxpayer resources. Similarly, income transfers such as unemployment compensation or Social Security benefits could be included in income when measuring progressivity.

The extent to which the tax code equalizes income is expressed graphically by the Lorenz curve in the box, which shows the cumulative distribution of income before and after taxes. The 45 degree line represents a perfectly equal distribution of income; the closer the Lorenz curve to that line of equality, the more equal the distribution of income. A progressive tax code is one that shifts the income distribution closer to the 45 degree line. In 2007, the tax code helped to improve the progressivity of the income distribution, as illustrated by the graph, by making after-tax income more equal than before-tax income. However, even the after-tax Lorenz curve was well below the 45 degree line, meaning that the distribution of after-tax income was highly skewed towards the highest-income taxpayers.



The Vital Role of Economic Growth in Future Fiscal Outcomes

Budget discipline is nearly impossible to achieve in practice without healthy economic growth. Budget outcomes are sensitive to weak economic conditions. Deteriorating economic conditions resulting from the financial crisis are one of the most important determinants of projected medium-term deficits, accounting for \$3.9 trillion in expected deficits between 2009 and 2019 (as shown earlier in Figure 3-1). OMB (2012b) projects that a 1 percentage point drop in GDP growth in 2012, not matched with a subsequent boost in GDP in later years, would increase the deficit by \$720 billion over 10 years. Similarly, CBO (2011b) projects that an ongoing 0.1 percentage point

Data Watch 3-1: Data from the IRS Statistics of Income Division

The Statistics of Income (SOI) Division of the Treasury Department's Internal Revenue Service produces informative annual statistics. The resulting information is an important input to the National Income and Product Accounts and has been invaluable for the evaluation of economic and tax policies, as well as for business decisions.

One advantage of SOI statistics is that they are available for a long period of time: historical data series cover the period from 1916 to the present. Of particular interest are tabulations of selected items by county and ZIP Code, such as migration patterns. Extensive data also are available on businesses, including corporations, partnerships, and sole proprietorships. In response to increased globalization, for example, SOI produces regular reports on both foreign-owned U.S. corporations and U.S.-owned corporations operating in other counties.

More than 14,000 detailed tables and regular reports are available to the public online through the Tax Stats pages located at www.irs.gov. Periodic special reports have examined topics such as pensions, foreign earned income, and noncash charitable contributions. Users may create custom tables using a table wizard application. Importantly, SOI painstakingly safeguards the confidentiality and anonymity of the underlying information it draws on. Statistics derived from the SOI provide a rich source of information for policymakers, business people, researchers, and public interest groups, among others.

decrease in real GDP growth compared to its baseline forecast will add \$310 billion to the projected 2012–2021 deficit.

The link between economic growth and fiscal stability is, in fact, central to the rationale for countercyclical measures like the Recovery Act and the American Jobs Act. Although the countercyclical measures in these bills may impose an initial fiscal cost,³ the cost can be considered a down payment on future economic growth, which in turn can lead to a more stable fiscal policy. Economic growth leads to a sound fiscal outlook.

Improvement in Long-Run Budget Projections

Although the need for long-run deficit reduction is evident, recent Administration policies have already helped to partially close the long-run fiscal imbalance. As noted, the Budget Control Act of 2011 reduced Federal spending by \$1 trillion over the next decade by making cuts to discretionary spending, with an additional \$1.2 trillion in deficit reduction scheduled to

³ The President's proposed American Jobs Act is deficit-neutral; all provisions are more than fully paid for.

come. The Administration regards this legislation as a down payment on deficit reduction, and last fall proposed to Congress an additional \$3 trillion deficit-reduction package that would, by the middle of this decade, mean that current spending is no longer adding to the debt, and that debt is falling as a share of the economy.

Health care legislation passed in 2010 is a key factor to gains in longrun deficit reduction. The Affordable Care Act addressed the Nation's most profound long-run budget challenge by limiting the growth in health care costs in several ways. (Chapter 7 discusses Health Insurance Exchanges as well as other provisions of the Affordable Care Act and existing health programs.) The Act includes Medicare payment reforms that will restrain spending growth by rewarding improvements in health care productivity. It established the Center for Medicare and Medicaid Innovation, which will fund and test new strategies for providing high-quality care more efficiently, and the Independent Payment Advisory Board, which will recommend policies to reduce the growth in Medicare spending, without limiting beneficiaries' access to care. The projections presented in this chapter assume that the provisions of the Affordable Care Act are fully implemented, limiting Medicare costs in the long run compared with previous law. The Medicare Trustees estimate these gains to be substantial, slowing the average longrange annual growth in Medicare spending per enrollee to just 0.2 percentage point a year above the growth in GDP per capita. This growth rate is significantly smaller than previous Medicare Trustee projections—a reduction that is largely attributable to the Affordable Care Act. These trends indicate that in the absence of recent health care reform, long-run budget projections would be substantially worse.

THE IMPORTANCE OF RESTORING FISCAL SUSTAINABILITY

Reducing the deficit while the economy continues to recover requires a delicate balance. Looming fiscal shortfalls can seem a distant concern in the face of high unemployment and sluggish economic growth. But as a result of continued growth since 2009 and a gradual recovery from the financial crisis of 2008, the Administration maintains its view that short-term economic support and long-term fiscal responsibility can be complementary policies. Although reducing the deficit is a difficult task, it is critical to the Nation's future. As the debt-to-GDP ratio has steadily risen, economists have become increasingly concerned about the consequences of persistent deficits.

Not all types of deficit spending yield identical effects on the budget. The net economic effect of budget deficits depends critically on the characteristics of the underlying spending. Public borrowing to finance productive investment, including investment in infrastructure, technology, and education, can yield positive fiscal returns in the future. A more productive private sector will lead to higher profits and stronger wage growth, which will ultimately prove to boost revenues and reduce spending in later years. As such, government spending that makes the private sector more productive is distinctly different from spending devoted to consumption in the current period.

Prolonged fiscal shortfalls also tend to raise interest rates. Today's historically low interest rates may make that link between interest rates and deficits seem tenuous, but in typical economic circumstances, budget deficits drive interest rates higher by increasing the demand for saving. The consensus view among economists is that a 1 percent increase in the deficit relative to GDP leads to a 20- to 60- basis-point rise in interest rates (Gale and Orszag 2003). Higher interest rates depress interest-sensitive consumption (such as housing and durable goods) and diminish asset values and household wealth.

Of perhaps greater concern is the potential for prolonged budget deficits to impact domestic private investment via elevated interest rates. All else equal, higher interest rates can divert savings away from productive domestic investment towards government securities; higher interest rates also encourage domestic and foreign savers to increase their net investment in the United States. Thus, higher budget deficits can be financed by a combination of reduced domestic private-sector investment, increased domestic saving, and additional lending by foreign investors. Although there is no consensus among economists on the relative share of each of these factors, studies often assume that about 25 percent of the increase in the budget deficit is met with increased private-sector saving (Elmendorf and Liebman 2000) and about 20 to 40 percent through increased foreign lending (Engen and Hubbard 2005).

An active research agenda has considered how government debt affects the economy. According to research by economists Carmen Reinhart and Kenneth Rogoff (2010), "high debt/GDP levels (90 percent and above) are associated with notably lower growth outcomes." Several aspects of this finding warrant mention. First, although slow growth and debt are correlated, high debt does not necessarily cause stagnant growth. In fact, some have theorized that stagnant growth leads to higher levels of debt, rather than the other way around (Irons and Bivens 2010). Second, some question whether the 90 percent threshold is appropriate for the largest economy in the world, especially given the ongoing appetite of foreign and domestic investors for Treasury debt and the relative attractiveness of investment in

the United States. Finally, some have argued that the key factor in measuring the impact of debt on the economy is debt held by the public, rather than total debt (including intragovernmental debt; see Data Watch 3-2 for further explanation).

Although the precise impact of government debt on economic growth is subject to debate, economists agree that confidence is paramount in the relationship between government debt and financial markets. A long-term commitment to sound fiscal policies will reassure investors that the government can service its debt. More importantly, sound fiscal policy and a commitment to living within our means and investing in the future will ensure better access to capital by domestic investors, as well as higher standards of living for future generations.

THE PRESIDENT'S BALANCED APPROACH TO DEFICIT REDUCTION

The President's proposed framework for deficit reduction, laid out in the Fiscal Year 2013 Budget, represents a balanced approach along several dimensions. Deficit-reduction measures are phased in gradually to avoid disrupting the economic recovery. Ineffective spending programs are eliminated, while tax expenditures on the Nation's wealthiest taxpayers are limited. Targeted investment initiatives, including those for education, infrastructure, and personal saving, are paid for by eliminating ineffective tax cuts to high-income taxpayers. Most importantly, the President's Budget charts a sustainable fiscal course, ensuring that the budget deficit will fall to a sustainable level in the next 10 years and beyond. In sum, the President's Budget represents a critical first step toward a stable and prosperous economic future and ensures that the American economy will remain competitive and vibrant for decades.

The cornerstone of the President's approach to deficit reduction—and perhaps the way in which it differs most from plans offered by others—is the balance it strikes between sustainable tax revenues and spending cuts. A deficit-reduction framework based on spending cuts alone would preclude the provision of basic protections provided to the Nation's most vulnerable citizens and investment in the Nation's future. The balanced approach of the President's Budget preserves the basic functions of the Federal Government. Medicare and Medicaid are strengthened, ensuring health care for the nation's elderly, low-income families, and individuals with disabilities. Social Security continues to provide a reliable, steady stream of income for retirees. The military continues to receive funding to serve American interests at home and abroad. Veterans continue to receive the support they

Data Watch 3-2: Measuring Government Debt across Countries

Differences in government accounting practices and in the types of assets held by central governments complicate the comparison of government debt across countries. These complications can lead to confusion over the most appropriate measure of government debt and the relative levels of debt for different countries.

One source of misunderstanding is the distinction between public debt and total government debt. Public debt refers to government debt held by private investors, including individuals, pension funds, mutual funds, and corporations. Total government debt is the sum of public debt and intragovernmental debt—government debt held in government accounts, such as government securities held in the U.S. Social Security and Medicare trust funds. Economists widely recognize public debt as the more relevant measure since it is government borrowing from the private sector that can be expected to interact with credit markets.

In most Organisation for Economic Co-operation and Development (OECD) countries, there is little intragovernmental debt. In the United States and Canada, however, budgetary conventions give rise to large accumulations of such debt. At the end of December 2011, U.S. debt totaled \$15.2 trillion, of which \$10.5 trillion was held by the public and \$4.8 trillion was intragovernmental debt. Intragovernmental debt is similarly important in Canada. Including intragovernmental debt when making international comparisons leads to an exaggerated impression of government indebtedness in the United States and Canada relative to other OECD nations.

A second source of confusion is the distinction between gross debt and net debt. The OECD measures gross debt as total liabilities outstanding, including securities issued on behalf of the government (such as Treasury securities), currency, and liabilities to government employee pension funds. Net debt is measured as gross debt minus government-owned financial assets. The importance of this distinction varies across countries. In Japan, for example, the difference is stark: gross government debt equaled 220 percent of GDP in 2010, while net government debt was just 117 percent of GDP.

A final source of misunderstanding concerns the particular government sector being measured. The OECD presents measures of general government debt, which encompasses debt at all levels of government, including State and local governments in the United States, and central government debt. Both of these measures carry economic significance, but the distinction matters insofar as central governments generally are not liable for debt incurred by other levels of government.

deserve. Investments in education, infrastructure, and innovation continue to be a priority. Many other deficit-reduction plans fall short in these areas.

While the President's Budget makes and maintains critical investments in areas important to growth and competitiveness, it also institutes broadly shared sacrifices to reduce the deficit. The Administration proposes to achieve \$1 trillion in discretionary spending savings over the next 10 years through the budgetary caps established by the Budget Control Act; \$30 billion in deficit reduction through cutting or consolidating ineffective, duplicative, or outdated Federal programs; adopting a new defense strategy that cuts defense spending by 9 percent relative to the Fiscal Year 2012 Budget; limiting funding for Overseas Contingency Operations to \$450 billion through 2021; a \$60 billion fee on large financial firms; adjustments to the Medicare and Medicaid programs to make them more efficient and cost-effective; and a reform of the Federal civilian workers' retirement plan that saves \$21 billion over the next decade.

As the President's deficit-reduction strategy cuts long-run deficits, it also supports the economic recovery. The cornerstone of this support is the American Jobs Act, one of the boldest pieces of pro-employment legislation in decades. At the end of 2011, the President signed into law several key parts of the American Jobs Act, including a short-term extension of both the payroll tax cut and extended unemployment benefits that were set to expire at the end of 2011. Extending the payroll tax cut into 2012 added an average of \$40 to each paycheck of 160 million American workers. If continued through 2012 as the President favors, extended unemployment benefits will save 5 million job seekers from depleting their benefits and will create nearly 500,000 jobs through 2014 as workers spend their extra income. To bolster labor market conditions and spur near-term economic growth, the President proposes pushing ahead with elements of the American Jobs Act and with additional job-creating measures. Among those proposals are an initial \$50 billion investment in roads, rails, and runways through surface transportation reauthorization legislation; aid to states and localities to rehire teachers and first responders; additional incentives for Americans to invest in energysaving home improvements through the Homestar Bill; incentives to private industry to upgrade offices, stores, universities, hospitals, and commercial buildings through the Better Buildings Initiative; a 10 percent income tax credit to encourage small businesses to hire new employees and to increase wages; the halting of an automatic increase in student loan interest to ease the burden on students; funds to modernize at least 35,000 schools; a renewed Build America Bonds program to help finance the modernization and upgrading of America's infrastructure; reauthorization of Clean Energy Manufacturing Tax Credits to spur the creation of manufacturing jobs

in the advanced energy technology sector; continuation of provisions to allow businesses to write off the full amount of new investments next year; and enactment of Project Rebuild, a series of policies aimed at connecting unemployed workers in distressed communities with efforts to rehabilitate residential and commercial properties.

The President's deficit-reduction framework also calls for tax reform that will simplify the tax code and lower rates, cut unfair and unnecessary tax expenditures, increase growth and job creation in the United States, observe the Buffett rule, and raise \$1.5 trillion from the highest-income Americans to be devoted to deficit reduction. To begin a national conversation about tax reform, the President has offered a detailed set of measures to close specific tax loopholes, broaden the tax base, and allow the high-income tax cuts of the past decade to expire. With this conversation, the President's Budget begins to reclaim the Nation's fiscal future and restore fiscal responsibility by making balanced and necessary policy decisions.



CHAPTER 4

STABILIZING AND HEALING THE HOUSING MARKET

The recession that began at the end of 2007 is inextricably linked with the bursting of the housing bubble that had built up over the previous decade. The ensuing shock to financial markets, and the more than \$7 trillion in lost housing wealth, prolonged and deepened the downturn and has been a headwind for the economic recovery. Although the housing market is showing signs of stabilization, the healing process is not complete in many parts of the country.

The bursting of the bubble was a culmination of a multiyear process of rapid growth in house prices fueled by excess capital flows into the United States. These flows were converted into home mortgages by various financial intermediaries using lax underwriting standards and channeled through the financial system with an increasingly complex web of mortgage securitizations. These trends, in turn, created unmoored expectations of continuous price growth that caused a spike in residential construction. The overheated housing market ultimately proved to be unsustainable, and the return to more realistic levels has been very painful for the economy. As this process continues to unfold, responsible policies are needed to assist the market in its transition to a new, sustainable equilibrium supported by a prudent and robust financial framework. In this context, healing the housing market requires laying the foundation for balanced and sustainable growth, while repairing and improving the housing finance system that helped inflate the housing bubble.

The effects of the drop in housing prices have been amplified by the uniqueness of housing as a financial asset class. Indeed, housing is the single most important asset for a majority of American households. Houses generate a steady stream of consumption services for their owners, as well as enabling them to send their children to local schools and use neighborhood amenities ranging from parks to retail stores to hospitals. They also create demand and jobs as homeowners furnish their homes and invest in their

maintenance. By virtue of their tangibility, houses also serve as an important form of collateral for other borrowing purposes, notably startup financing for small businesses. Housing collateral attracts lender financing, making housing the most levered asset in household portfolios and closely linking the health of the housing market to that of the broader financial sector. Consequently, declines in housing wealth can have a far greater effect on the economy than equivalent losses in other financial assets, such as equities.

Setting the housing market back on track is a key step on the road to recovery. Yet housing presents several particular challenges, many of which derive from an array of institutional frictions in housing finance markets that have been exposed by the enormous scale and scope of home price declines and from very long lags in the adjustment in the stock of housing. This chapter highlights some of these challenges. They include a poorly functioning system for loss mitigation of nonperforming mortgages and effective disposition of mortgaged properties; inadequate origination of mortgage credit; and obstacles to refinancing, including the widespread phenomenon of negative equity. These deficiencies form a mutually reinforcing adverse feedback system in which negative equity raises the likelihood of delinquencies that often result in a drawn-out foreclosure process, eventually concluding with distressed sales that exert further downward pressure on home prices and thereby deepen the amount of negative equity. The large overhang of unresolved properties in distress, along with mortgage debt in excess of home value, further feeds this negative dynamic by depressing price expectations of potential homebuyers and lenders. Left unchecked, this dynamic creates a dangerous possibility for housing prices to overshoot and fall below their fundamental values, posing a difficult hurdle for sustained economic recovery.

Some have argued that the best course of action is to rely on the market alone to work out the problems of struggling homeowners, negative equity, and foreclosed properties through liquidation. This approach disregards the risk of overshooting the bottom, and it fails to recognize the many complex incentive conflicts that exist between purely private parties, such as homeowners, investors, and mortgage servicers. These conflicts and the need to recognize and allocate housing losses to various economic actors, present a serious collective action problem, the resolution of which by the market has been sluggish, at best, over the past several years. Perhaps most important, a laissez-faire approach also disregards the spillover effects of large numbers of delinquencies and foreclosures on local housing markets, the financial system, and the toll they exact on American families and the economy in general.

The alternative to sitting back and waiting for these enormous challenges to work themselves out slowly and painfully is for the Government to engage in a series of coordinated, measured, and multifaceted policy actions. This approach involves working in conjunction with market participants and housing regulators to address the lingering effects of the bursting of the housing bubble, as suggested, for instance, in a recent Federal Reserve Board white paper (2012). This chapter describes a set of existing and proposed policy initiatives that target many of the interlinked housing market problems. Some of these policies are pursued through Government agencies, such as the Federal Housing Administration (FHA), the Department of Housing and Urban Development (HUD), and the Department of the Treasury. Others are undertaken in conjunction with private investors, and still others are carried out together with the government-sponsored enterprises (GSEs), Fannie Mae and Freddie Mac, under the supervision of their regulator, the Federal Housing Finance Agency (FHFA).

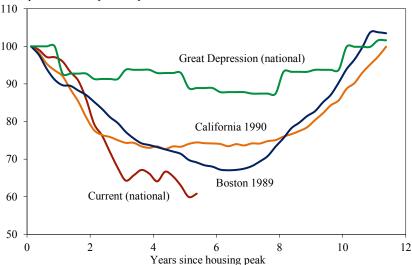
THE HOUSING CRISIS AND THE **INITIAL POLICY RESPONSES**

After growing at a rapid pace through the early years of the new century, home price appreciation ground to a halt in the summer of 2006. This change in the path of housing prices triggered an initial wave of subprime mortgage defaults, and the resulting losses quickly propagated through the global financial system, bringing it to the brink of collapse and ushering in a deep recession. By the beginning of 2009, nationwide measures of home prices had declined for 30 straight months, falling by a total of nearly 28 percent. This drop in the national average masks significant regional variation. In some states, like Florida and Nevada, where prices had gone up the fastest, housing prices plummeted by 35 to 50 percent from their peak. Price drops in some other states were much milder.

Overall, as shown in Figure 4-1, the decline in inflation-adjusted home prices was unprecedented in the post-World War I U.S. economic experience in both its severity and its geographic scope. Some of the regional housing recessions—notably in California and New England in the early 1990s—generated sharp and long-lasting price declines, but neither was as steep and prolonged as the current episode. And during the Great Depression, the only other instance of nationwide price declines since WWI, much of the comparably-sized decline in nominal home prices was offset by a concurrent drop in general price levels, so the decline in real housing values was only about one-quarter as large as the one we recently experienced.

Figure 4-1 Housing Busts in U.S. History

Real price level compared to peak

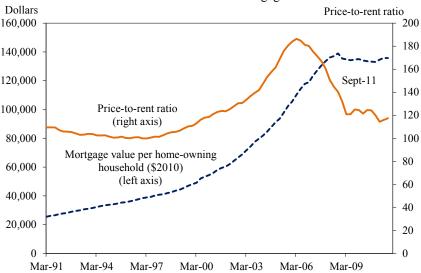


Source: S&P/Case-Shiller Home Price Index; the Great Depression time series from Shiller (2005).

The unprecedented and ultimately unsustainable nature of housing market trends before 2007 is further highlighted in Figure 4-2. The dashed line depicts annualized growth in real levels of mortgage debt per homeowner household between 1991 and the third quarter of 2011. Mortgage debt balances grew at a rapid pace from 2001 to 2007, one that far exceeded growth in real income during this period. There were many factors behind the escalating household debt. In part, it reflected rising home prices and growing household leverage driven by extraction of home equity and shrinking down payment requirements. As households continued to accumulate mortgage debt in the expectation of ongoing housing appreciation, housing was becoming less and less affordable, as evidenced by the price-to-rent ratio series (the sold line) in the same figure. After remaining in a narrow range between 100 and 120 percent for nearly two decades, the price-to-rent ratio accelerated rapidly to peak at 186 percent in the first quarter of 2006.

Once the bubble burst, falling prices and poor economic conditions resulted in steep increases in delinquencies and foreclosures across a broad spectrum of American homeowners. By the first quarter of 2009, nonperformance rates among prime borrowers rose nearly threefold relative to their level in the first quarter of 2005 (from 2.2 to 6.1 percent), while those for subprime loans spiked to nearly 25 percent, from 10.6 percent four years earlier. About 1.7 million homes were at some stage of the foreclosure

Figure 4-2
Price-to-Rent Ratio and Mortgage Debt



Source: CoreLogic; Department of Labor; Bureau of Labor Statistics, Consumer Price Index.

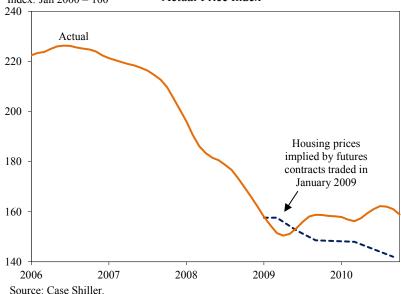
process, and nearly 7 percent of total mortgage debt was seriously delinquent (more than 90 days past due). Market participants were deeply pessimistic about the future path for housing prices—the Case-Shiller index futures contracts traded in January of 2009 suggested that house prices were expected to fall an additional 10 percent by September 2010 (the dashed line in Figure 4-3). Other housing futures contracts traded in over-the-counter markets (not shown) were even more downbeat.

Initial Policy Responses to the Crisis

The broad meltdown in the financial sector called for a series of emergency responses by the Executive Branch, the Legislative Branch, and the Federal Reserve. The Federal Reserve undertook a series of aggressive monetary policy actions and launched a number of programs to support liquidity and lending activity in key financial markets. Congress passed the Housing and Economic Recovery Act (HERA) in July of 2008, which established the Federal Housing Finance Agency, the new regulator of the GSEs with greatly expanded powers. The HERA was followed by the Emergency Economic Stabilization Act in October of 2008, which established the Troubled Asset Relief Program.

In one of its first major policy actions, the Obama Administration implemented the Financial Stability Plan in February 2009. A key part of

Figure 4-3 S&P/Case-Shiller: January 2009 Expectations of Future House Prices and Actual Price Index Index: Jan 2000 = 100



the plan focused on maintaining the flow of housing credit and helping responsible homeowners stay in their homes through the Making Home Affordable (MHA) program. In particular, the Treasury Department made an increased funding commitment to Fannie Mae and Freddie Mac, which had been placed in conservatorship six months earlier. The Federal Reserve, which had previously announced a program to purchase up to \$600 billion of GSE debt and mortgage-backed securities, expanded the planned size of the program to \$1.75 trillion in March 2009. These actions have resulted in economically meaningful and long-lasting reductions in mortgage interest rates (Gagnon et al. 2010) and credit availability (Fuster and Willen 2010).

To help responsible households take advantage of these lower rates, the MHA included the Home Affordable Refinance Program (HARP), which was intended to enhance refinancing opportunities for borrowers who had insufficient equity in their homes. While HARP helped homeowners to hold onto their homes through more sustainable mortgages, other components of the MHA focused on restructuring mortgages of borrowers struggling to stay current on their loans. In particular, the Home Affordable Modification Program (HAMP) provided a streamlined approach to modification of delinquent loans and offered monetary incentives and procedural safe harbors to industry participants. To help communities manage the destruction caused when the housing market collapsed, the American Recovery and

Reinvestment Act of 2009 (the Recovery Act) provided additional support to the housing market by extending HUD's Neighborhood Stabilization Program, which began under HERA. This program allocated funds to state and local governments and nonprofit organizations to mitigate foreclosures and to pursue innovative local approaches to deal with the economic effects of abandoned properties. The Recovery Act extended the first-time homebuyer credit established under HERA and increased it to \$8,000. This program was extended further by the Workers, Homeownership, and Business Assistance Act of 2009.

To date, these initial responses to the housing crisis have assisted several million households. The most recent housing scorecard released by the Department of the Treasury and HUD indicated that, as of December 2011, more than 930,000 homeowners had received permanent modifications under HAMP, putting the program on pace to reach the 1 million threshold early in 2012. Of equal importance, HAMP provided a template for major servicers to follow in conducting their own modifications outside of the program. To date, servicers have undertaken nearly 2.7 million socalled "proprietary" modifications, many of which would not have occurred without the standards established by HAMP. The scorecard also highlights 998,000 loans refinanced though HARP, as well as nearly 1.2 million borrowers helped through various FHA loss mitigation interventions. These programs have faced challenges from a number of structural problems in housing markets. These problems include incentive conflicts that arose when loan servicing was separated from loan ownership in mortgage securitizations, as well as uncertainty about legal liability in loan origination and loss mitigation practices. These problems have been greatly exacerbated by erosion in collateral values, which have increasingly fallen below the value of associated loans and put more than one in five mortgage borrowers "under water." These dramatic declines in collateral necessitate eventual recognition of economic losses and allocation of such losses to various economic actors. As policymakers have increasingly focused on addressing these deficiencies, each of these original MHA programs has undergone substantial modification, described more fully in the following sections.

Negative Equity: An Unprecedented and Pervasive Problem

As noted, widespread declines in housing prices resulted in more than a \$7 trillion fall in aggregate housing wealth. These losses were borne to at least some extent by most homeowners. For some homeowners, however, falling prices not only wiped out their housing wealth in its entirety but also pushed the value of their homes below the value of outstanding mortgages. The resulting "negative" equity, which is estimated to total \$700 billion, has

become one of the legacy hallmarks of the housing price bubble. This negative equity resulted from large home price declines combined with a number of other factors. According to recent estimates, as many as 10.7 million (or 22 percent of) borrowers are under water. The aggregate negative equity is unequally distributed across the nation. Six states with the highest incidence of negative equity—Arizona, California, Florida, Georgia, Michigan, and Nevada—account for more than half of all underwater borrowers and of the aggregate amount of negative equity (Figure 4-4). All of these states have experienced steep declines in house prices.

Negative equity has been associated with a number of problems over and above those caused by the more widespread loss in housing wealth. Underwater borrowers find it difficult, if not impossible, to take advantage of record low interest rates through refinancing, because lenders and investors are unwilling to take on uncollateralized credit risk. The inability to refinance prevents households from lowering their monthly mortgage payments. It also undermines the effectiveness of monetary policy that aims to lower borrowing costs to businesses and households and thus encourage greater economic activity. (For more on the decision to refinance, see Economics Application Box 4-1).

Underwater households have weakened incentives to invest in their property, since the expected gains from their investment are likely going to be absorbed by the lender. As a result, underwater households underinvest

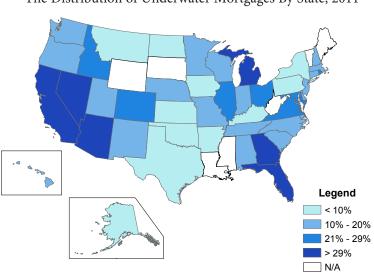


Figure 4-4
The Distribution of Underwater Mortgages By State, 2011

Source: CoreLogic.

in home improvements and maintenance, which leads to the overall decline in the quality of the nation's housing stock (Melzer 2010).

Negative equity has also been associated with heightened realized default rates. Several recent academic and industry studies have found that the higher their negative equity, the more likely households are to become delinquent (Bajari, Chu, and Park 2010; Elul et al. 2010). Recent work by Federal Reserve Board economists (Bhutta, Dokko, and Shan 2010) shows that a household's equity position amplifies the effect of unemployment shocks on default and that this interaction grows in strength with the degree of negative equity. (For more on data challenges in evaluating the financial situation of homeowners, see Data Watch 4-1). Household delinquency and the ensuing foreclosures are very costly, as they disrupt the social fabric of neighborhoods and cause lenders to engage in an expensive and drawn-out process of liquidation. Moreover, foreclosures not only lower the value of the foreclosed property itself; they also have a sizable spillover effect on valuations of neighboring homes. According f to a recent academic study (Campbell, Giglio, and Pathak 2011), each foreclosure within a 0.1 mile radius of a given house lowers its predicted sale price by 7.2 percent.

Negative equity also poses a roadblock for efficient reallocation of housing resources. Families naturally buy and sell houses over their life cycle and in response to shocks such as illness or divorce. The necessity to write a sizable check to the lender upon sale makes it effectively impossible for liquidity-constrained households to trade their houses without creditimpairing actions such as delinquency; deed-in-lieu, in which a borrower returns the property to the lender; or short sale, in which a house is sold for less than the balance of debts secured by the property. Negative equity also has the potential to limit underwater borrowers' ability to pursue employment opportunities in other geographic areas. The empirical evidence to date, however, has largely suggested that the adverse effect of negative equity on labor mobility—the so-called "house lock effect"—is fairly limited.

MACROECONOMIC EFFECTS OF HOUSING MARKET WEAKNESS

The housing sector plays an important role in determining the health of the broader economy. Two aspects of this relationship are particularly important—the effect of housing wealth on household consumption and the direct contribution of residential construction to gross domestic product (GDP).

Economics Application Box 4-1: Making a Decision about Refinancing a Mortgage

Mortgage rates in the United States reached historic lows in 2011, presenting an opportunity for many homeowners to save money by refinancing their fixed-rate mortgages. However, refinancing typically involves a number of costs that push the effective interest rate above the rates reported in news media. These costs include those associated with obtaining a new loan, such as title insurance and various administrative fees; risk-management charges related to loan origination (for example "points"); underwriting charges for appraisal of the house; and the more mundane costs of gathering documentation.

How does a homeowner decide whether it is worth paying the additional costs to reap the benefit of the lower rate? The first step in evaluating refinancing is to get a clear and comprehensive summary of costs associated with a new loan; these should be provided by your loan officer or mortgage broker on a HUD-1 form. While many of these costs can be rolled into the loan, some have to be paid in cash up front.

The second step is to lay out the stream of all payments required under the original loan and the new loan used for refinancing. Although this process may seem involved, it will allow you to take into account refinancing costs as well as the fact that you will be making payments on a refinanced mortgage over a longer period than you will have remaining on the existing mortgage.

Third, those payment streams need to be converted into one number—the amount of spending today that this stream of payments is worth. This is known as the net present value or NPV. The net present value discounts costs paid in the future to reflect the time value of money and the uncertainty associated with future returns. In the simplest possible form, it is better to have a dollar today than a dollar tomorrow, as this dollar can be invested and grow in value by the time tomorrow arrives. Hence, all future payments are discounted relative to today's outlays. The choice of the discount rate merits a separate discussion that is beyond the scope of this example. However, some common choices include discounting at the risk-free rate (commonly approximated by the 10-year Treasury rate) or the expected rate of return for the stock market (approximated, say, by the long-term average return on the S&P 500 index). The NPV calculation can be carried out with a spreadsheet program such as Microsoft Excel or on a number of websites. Once NPV values are computed for both payment streams, the one with the lower value is the better choice.

The computation and comparison of net present values is the main idea behind a broad range of online calculators designed to answer the question of whether refinancing makes sense. An example can be found on Jack Guttentag's Mortgage Professor's Website at http://www.mtgprofessor.com/calculators/Calculator3a.html. Some mortgage brokers are fond of making use of simple rules of thumb as a shortcut for using the NPV approach. For example, they may suggest that "the new mortgage rate has to be 1 percentage point lower to justify refinancing with typical closing costs." Recent estimates of such rule-ofthumb threshold differences in interest rates have varied between 1 and 1.5 percentage points.

One often overlooked cost of refinancing has not yet been mentioned. By refinancing today, one generally forgoes the opportunity to refinance in the future if interest rates were to drop a bit further. Suppose you determine that refinancing a 5.75 percent loan into a 4.5 percent loan is advantageous from an NPV standpoint. Then refinancing the original loan into a 4.25 percent loan would be even more beneficial, but refinancing from a 4.5 percent loan would not. This difference between payments at 4.5 percent and 4.25 percent is essentially the value of the forgone option to delay refinancing. The value of preserving this option has fluctuated over time, because it clearly depends on the volatility of interest rates, the economic outlook, and the ability to maintain access to credit markets-a nontrivial concern for today's borrowers.

In recent work, Sumit Agarwal, John Driscoll and David Laibson (2007) calculated the optimal interest rate differential at which to refinance that explicitly takes into account the aforementioned option value (these calculations can be found at http://zwicke.nber.org/refinance/). Take, for example, a family that plans to stay in their house for 10 years, has a \$250,000 mortgage at 6 percent interest rate and has a marginal tax rate of 28 percent. For this family, assuming an upfront fee of 1 percentage point of mortgage value (1 point) and cash closing costs of \$2,000, refinancing is optimal if the interest rate on the new mortgage is 4.6 percent or less. Unlike the simple rule of thumb, this calculation takes into account family expectations of the future inflation rate, interest rate volatility, and how long they plan to stay in the house—the option value determinants—which affect the ultimate recommendation.

Consumption Effects

The standard approach in economics has been to assume that households consume about the same fraction of the increase in their wealth each year, regardless of its source. Numerous econometric studies have come up with a range of estimates that relate changes in household consumption to changes in wealth (Poterba 2000). Although there is no single agreed-upon value, the consensus range is fairly narrow—the fraction of each additional dollar in wealth consumed in a given year (what economists call the marginal propensity to consume out of wealth, or MPC) is estimated to be roughly between three and five cents. Applying the lower of these estimates to the \$7.25 trillion in housing wealth losses to date implies consumption losses of \$218 billion a year, or 1.5 percent of GDP. Under standard Okun's law assumptions, this GDP impact, in turn, translates into a 0.75 percentage point increase in the unemployment rate. The severity of losses experienced during the recession that began in December of 2007 in both national output and in labor markets makes these estimates appear too small.

One of the possible explanations for this puzzle may be that declines in housing wealth have a more profound effect on consumption than equivalent declines in other forms of wealth. Case, Quigley, and Shiller (2005, 2011) find strong empirical evidence in support of this hypothesis by exploiting substantial variation across states in house price paths and holdings of equity assets. In particular, they relate quarterly growth rates in house prices and equity holdings to quarterly growth rates in state-level retail sales and find that the consumption response is more sensitive to changes in housing wealth than to changes in stock market wealth. It is noteworthy that both the level of the response and the difference between sensitivities to financial and housing wealth shocks increase substantially once the recent experience is incorporated in the data (the 2011 study includes data from 2000 through 2010.)

Why would households respond more to housing wealth shocks? Part of the likely answer has to do with the very different distributions of ownership of various financial asset classes. Most financial assets other than liquidity-restricted retirement plans are heavily concentrated at the top of the wealth distribution. In contrast, holdings of housing assets are much more uniformly spread across different wealth, income, and demographic strata. At the peak of the housing market in the third quarter of 2006, home ownership stood near a record high at 69 percent. Although home ownership rates among African American and Hispanic households were noticeably lower (49 percent and 50 percent, respectively), they vastly exceed ownership rates of all other financial assets other than bank accounts for these two groups. Perhaps more important, housing assets make up a much

Data Watch 4-1: Need for a Comprehensive Source of Data on Mortgage Debt and Performance

There are currently four basic sources of loan-level data on mortgage debt: the Home Mortgage Disclosure Act (HMDA) database, data reported by mortgage servicers, credit bureau data, and public records data. Each of these sources provides insight about mortgage holdings, but the existing system is inadequate for measuring the extent and ownership of financial obligations backed by residential real estate.

The HMDA database contains data required to be publicly reported for all mortgages. It is useful for measuring long-term trends in mortgage application volumes and originations, but contains little information on loan terms or performance following origination. Further, HMDA data are released only annually with a significant lag. In contrast, proprietary data sets from loan servicers, such as Lender Processing Services (LPS) and CoreLogic, have useful information on loan characteristics and performance but underrepresent certain loan and investor types. They also have little detail on borrower income or credit scores following origination and lack information on other debt obligations, including those collateralized by the same real estate.

The credit bureau data track borrower credit scores and performance on multiple debt obligations over time, but tell us little about loan terms and mortgage contract type and nothing about the employment status and current income of homeowners. Public records contain legal notices of property-related transactions, such as mortgage origination and foreclosure, but they contain little information beyond the reason for creating the record, loan amount, and an associated property identifier.

Linking these data sources to produce a more comprehensive database is a challenging undertaking, but a pilot version developed by a team of researchers at Freddie Mac and the Federal Reserve Board has laid a strong foundation for this effort. A combined database could make available critical statistics on the health of the housing market. For example, it could establish a link between first- and second-lien mortgages on the same property, providing key information on the overall extent of borrowers' leverage in different housing markets. This, in turn, would enable better risk management by first-lien lenders and private investors, as well as better design and implementation of government and private-sector loss mitigation programs. In addition, by utilizing statistical sampling techniques, such a database could correct for known biases across different data sources. Reliance on sampling also could reduce operational burden, allowing for more timely reporting.

larger fraction of wealth among lower income households. Whereas housing accounted for nearly two-thirds of the overall assets of households in the bottom half of the wealth distribution in 2007, it constituted only 25 percent of assets for those in the top decile, and only 10 percent for those in the top percentile. Shocks to housing wealth not only affect more households than other wealth shocks; they also apply disproportionately to those at the lower end of the wealth distribution.

A Pew Research Center report issued in July 2011 provides a stark illustration of these trends, concentrating on the disparate effects of the burst housing bubble on the wealth of minority and white households. Because home equity accounts for a much greater share of household wealth among minorities—59 percent for African Americans and 65 percent for Hispanics in 2005, compared with 44 percent for whites—minority households experienced much greater losses from the housing downturn. These losses were further compounded by the uneven geographic distribution of house price declines. As underscored by the Pew report, more than 40 percent of the nation's Hispanic households resided in the five states with the steepest price drops-Arizona, California, Florida, Michigan and Nevada-while only about one in five of all white and African American households resided in those states. For Hispanics in those five states, declining home prices have nearly wiped out household net worth, with median values collapsing from about \$51,000 in 2005 to just \$6,000 in 2009.

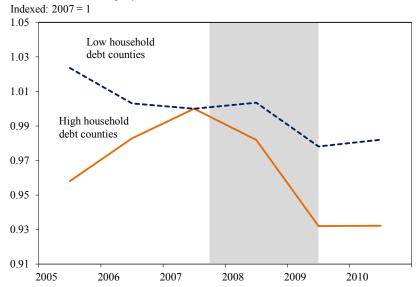
These trends matter to consumption because empirical research has pointed out systematic differences in marginal propensities to consume across income groups. For example, studies that analyzed the consumption effects of the 2001 and 2008 tax rebates using actual household expenditure data found that low-income households and those with low liquid wealth spent considerably higher fractions of these rebates. These effects were identified in credit card data (Agarwal, Liu, and Souleles 2007), the multiple-category Consumer Expenditure Survey (Johnson, Parker, and Souleles 2006), and automobile purchases (Parker et al. 2011). The fact that housing wealth losses were concentrated among the subset of households most responsive to such shocks may account in part for the magnitude of the observed declines in consumption. Indeed, a recent study by Mian, Rao, and Sufi (2011) shows that households with low levels of nonhousing financial assets experienced much greater declines in consumption for a given decline in home prices.

A growing economics literature highlights the importance of household debt balances in influencing the severity of economic slumps. Most of the growth in household debt between 2002 and 2006 can be traced to mortgage-related borrowing, which increased by nearly \$5 trillion (or 94 percent of the total increase) over this period. As housing values collapsed, many households found their balance sheets tilting heavily toward debt. Household efforts to bring their balance sheets closer to equilibrium leverage can potentially proceed along several avenues. Households can default on their debt obligations. They can accelerate repayment of their debts. Or they can repair their asset base through more aggressive saving. Collectively, these approaches are often referred to as deleveraging.

A series of empirical papers attempts to quantify the effect of such deleveraging on consumption (Mian and Sufi 2010; Mian, Rao, and Sufi 2011). These papers broadly suggest that the levered nature of household housing assets amplified the effect of pure wealth losses from the crash in housing prices. The studies compared the consumption response in counties with different pre-recession levels of household debt and found that counties with the highest debt levels experienced much larger and longer-lasting drops in consumption than counties with low debt levels. This finding held true for consumer durables, such as automobiles, appliances, and furniture, as well as for consumption of groceries. These counties also exhibit patterns consistent with deleveraging, as increases in the numbers of defaults, and debt paybacks by non-defaulters are much higher in high-debt counties than in low-debt ones. These trends in consumption in turn affect local employment, particularly in sectors that produce locally consumed goods and services, such as restaurants and retail establishments (Mian and Sufi 2011). Figure 4-5 illustrates the divergence in employment trends in such nontradable industry sectors for high- and low-debt counties. In contrast, the traded goods sectors (not shown) display no such divergence, suggesting that the run-up in debt and bursting of the housing bubble have caused the contraction in aggregate demand.

Aside from the consumption effects of debt reduction or increases in savings needed to deleverage, households with impaired balance sheets may also have difficulty obtaining credit, which would further affect their consumption (Hall 2010). Before the crisis, the ability to use home equity as loan collateral served as an important source of financing for household purchases of goods and services. For example, Doms, Dunn, and Vine (2008) find that the increasing ease of tapping home equity credit in the early 2000s allowed homeowners to use their housing wealth to finance various forms of consumption. Another example of the pernicious effects of over-leveraging on access to credit, discussed earlier, is the inability of homeowners with low or negative equity stakes to refinance into low-interest mortgages. Moreover, reductions in the collateral value of houses have a negative effect on the economic recovery by restricting one of the primary channels for financing startup businesses.

Figure 4-5
Employment Growth: Nontradable Industries



Source: Quarterly Census of Employment and Wages; Mian and Sufi (2011).

Residential Construction and Home Ownership Patterns

As discussed in Chapter 2, residential construction in 2011 remained at very subdued, albeit stable, levels. Starts of new housing units averaged a little over 600,000, roughly in line with the levels observed in 2009 and 2010. Housing starts of both single- and multi-family structures remain far below their peak 2006 levels of 2 million units, weighed down by the cyclical weakness in demand, the slow pace of household formation, high inventories of vacant properties for sale, and tight financing conditions for homebuilders.

In addition to cyclical headwinds, residential construction has been impeded by the need to reallocate the nation's housing stock from owner-occupied to rental units, as a growing number of households exited the ranks of homeowners through foreclosures. Recent research by Federal Reserve economists analyzes the moving decisions of homeowners who went through foreclosure between 1999 and 2010 (Molloy and Shan 2011). This study finds that post-foreclosure households do not tend to move in with others to defray their living expenses. Rather, the overwhelming majority of them (76 percent) end up renting single-family housing units.

This evidence suggests that many of the newly foreclosed households will continue to exhibit strong preference for single-family structures. However, the conversion of an owner-occupied house to a rental property takes a certain amount of time, especially if the home is repossessed at the

conclusion of the foreclosure process. Repossessed homes need to be sold, often rehabilitated, and then marketed to potential renters. This process is made all the more difficult by tight credit conditions for financing investment properties, evidenced by historically high shares of all-cash purchases and by execution problems in amassing property portfolios necessary to realize any economies of scale through multiple foreclosure auctions.

In the meantime, prices in rental markets have been trending upward, pointing to the critical importance of efficient conversion of foreclosed properties and providing some of the necessary impetus for this process. A well-functioning mechanism for disposition and conversion of distressed properties into rental units has the potential to ease the downward pressure on owner-occupied house prices by removing a part of bank-owned and shadow inventory of soon-to-be-foreclosed properties from the sales market. (See the Data Watch 4-2 for discussion of challenges in measuring home sales.)

Demand for rental housing is likely to grow at a healthy rate over the next few years, creating an ongoing need to convert existing homes to rental. First, household formation is poised to accelerate. As numerous observers have pointed out, household formation slowed dramatically during the 2007-09 recession and has only recently begun to grow. Data from the Census Bureau show formation of fewer than 400,000 new households in both 2009 and 2010, well below the 2002-07 annual average of 1.3 million. The primary part of this trend is cyclical, deriving both from high unemployment rates among the young and from a substantial drop-off in immigration. A 2010 study done for the Mortgage Bankers Association (Painter 2010) suggests that historically, as economic conditions improved, individuals who delayed forming households during recession years were more likely to turn to rental markets to fulfill their housing needs.

Second, credit conditions have tightened considerably in recent years. Successful mortgage applicants have substantially higher average credit scores and are required to put up larger down payments than was the case in the era of rapidly rising house prices. For potential homebuyers who are unable to put down 20 percent of the purchase price, loans through the FHA and the U.S. Departments of Veterans Affairs (VA) and Agriculture have become the primary and, in many cases, only avenues for mortgage financing-providing a vital counter-cyclical buffer to sustain access to credit through the crisis. Consequently, the agencies' market share has risen rapidly, with the FHA accounting for nearly 40 percent of all house purchase loans in 2010. Among minority households, in particular, the FHA and VA loans became the predominant form of financing for home purchase. Between 2005 and 2010, the share of FHA/VA loans has skyrocketed from

Data Watch 4-2: Need for a Comprehensive Source of Data on Home Sales

On December 21, 2011, the National Association of Realtors (NAR) announced substantial downward revisions going back to 2007 of previously reported data on sales of existing homes. The revisions reduced the estimated home sale projection for 2011 from nearly 5 million units to 4.25 million units, and reduced the number of reported home sales between 2007 and 2010 by nearly 3 million units. Although the implied pace of change in recent home sales was largely unaffected, lower sales levels caused a reevaluation of housing market conditions, and, by causing realtor commissions to be revised downward, are expected to lower the level of GDP.

To a certain extent, revisions to the NAR data are inevitable. The NAR sales estimates are based on reports from a subset of regional Multiple Listing Services (MLS). The data from the covered areas must be weighted to represent the areas that are not covered and adjustments must be made to this weighting over time. Further, the NAR cannot directly measure sales transactions conducted outside of Multiple Listing Services platforms. These "unlisted" transactions may include houses sold by owners without realtor assistance, sales carried out by builders, and some foreclosure sales. These sales channels vary in importance over the housing cycle and across different geographies, something that can be difficult to capture accurately on a current basis.

NAR revisions also reflect the fragmented nature of local MLS systems and their evolution over time. Historically, many metropolitan regions were represented by several MLS databases. The NAR obtained actual sales data from a subset of these databases and adjusted the numbers to account for sales recorded in the remainder. MLS systems have undergone considerable recent consolidation. As NAR adjustments lagged consolidation of MLS systems, reported sales were being grossed up by outdated factors and thus were systematically overstated.

Since all property sales are publicly documented by local deed registration systems, it theoretically should be feasible to use these records to estimate sales volumes across all jurisdictions and all channels, and with minimal time delay. The main hurdle to constructing a comprehensive national data source for real estate transactions will be to integrate data across disjointed and dissimilar county-level recording systems. Such data, however, would represent a reliable and timely source of information on sales activity—useful information for macroeconomic forecasters and an important gauge of health in the nation's housing markets.

15 percent to 80 percent of all purchase mortgages originated to African-American households and from 8 percent to 75 percent of all purchase mortgages originated to Hispanic households. During the past three years, at least 60 percent of all first-time home buyers financed their purchases with FHA or VA loans. Young households surveyed by Fannie Mae repeatedly cite an insufficiently strong "credit history" and "not having enough for a down payment" as two of the biggest obstacles to homeownership.

Third, younger households that just experienced a historic decline in housing prices may be less optimistic about homeownership. Recent research (Malmendier and Nagel 2011) showed that households coming of age during periods of sizable declines in the equity market stayed away from equity ownership in the future. For such households, a longer lifetime perspective could not offset the dramatic price declines experienced early in life, which thus tended to have a strong and long-lasting influence on subsequent economic behavior. It is premature to say whether a similar "Depression babies" effect is applicable to today's young renters. The scant survey evidence available on this question is mixed. On one hand, the Fannie Mae surveys indicate that the majority of young households continue to regard housing as a good financial investment and homeownership as a desirable goal. On the other hand, a series of special supplements to the Michigan Survey of Consumer Sentiment suggest that younger households hold more pessimistic views of homeownership, although this result is limited to a subset of responders with personal knowledge of someone who experienced foreclosure or substantial home price declines (Bracha and Jamison 2011).

In sum, the weakness in the housing sector continues to weigh heavily on macroeconomic performance. The enormity of losses in housing wealth and the uneven distribution of those losses in the population, along with the substantial weakening of household balance sheets burdened by debt overhang, have an outsized effect on consumption. High unresolved inventories of distressed properties, along with a concurrent need for large-scale rebalancing of the housing stock, contribute to ongoing difficulties in the residential construction sector.

These challenges are compounded by several structural problems in housing markets that have been exposed by the crisis. Understanding and addressing these institutional frictions represents a necessary step in formulating appropriate policy actions.

STRUCTURAL PROBLEMS IN HOUSING MARKET

The shock to the housing market laid bare serious deficiencies in the existing infrastructure for servicing delinquent mortgage loans, liquidating foreclosed properties, and adjudicating legal disputes between various parties. These deficiencies have impaired the effectiveness of loss mitigation efforts and may also be affecting borrowers' ability to access mortgage credit.

Adjudicating Legal Disputes

Rapid growth in the volume and complexity of securitized mortgage credit during the bubble years outpaced developments in case law adjudicating legal liability for representations and warranties associated with loan underwriting. The resulting legal uncertainty has the potential to impede origination of new mortgage credit if it unnecessarily adds to lender liability vis-à-vis mortgage investors.

During the standard loan origination process an underwriter provides legally binding representations and warranties (R&W) backing the veracity of collected information. Representations and warranties encompass such crucial elements of the loan application as borrower income, available assets, and the appraised value of the house. Within a specified period of time following securitization, an agent of the investors (the Trustee) conducts a postsale audit of loan documentation. If the Trustee finds R&W violations on a particular loan, the originator is obligated to buy back that loan from the securitized pool. A similar audit may be conducted in the event of mortgage default, when the discovery of R&W violations on defaulted loans would also result in the investor "putting back" the loan to the originator. These put-back rights create a liability for originators that is designed to serve an important quality control function: the originator must bear the risk of loss on defaulted loans with R&W violations.

As the number of intermediaries between the underwriter and loan investor grew, the transmission of this liability by each party along the chain became less well understood, and quality control standards became more difficult to enforce. For example, many financial institutions increasingly relied on independent mortgage brokers to carry out customer prospecting and loan underwriting, especially in urban and minority-dominated neighborhoods that have been historically underserved by traditional lenders. Because mortgage brokers did not have sufficient capital to originate and hold a substantial number of loans, they quickly sold their mortgages to a larger financial institution, which, in turn, would securitize the resulting loan portfolio in broader capital markets. In effect, mortgage brokers functioned as independent contractors for banks that would eventually securitize these loans. In a twist on a common description of mortgage securitization, "originate-to-distribute," this business model was labeled as "outsource-to-originate-to-distribute."

In theory, established financial institutions that securitized loans had ample incentives to exercise due diligence. They retained liability for representations and warranties, and carried reputational risk, as well as the risk that they might not be able to pass faulty loans back to the originating mortgage brokers. Yet, there is empirical evidence that at least some banks actively securitized loans originated by mortgage brokers with little or no documentation—the so-called "liar" loans that can be easily falsified (Jiang, Nelson, and Vytlacil 2011). The lengthening of the chain of financial intermediaries made the evaluation and assignment of liability for faulty underwriting processes considerably more complicated.

The complexity of the claims, and the sheer number of lawsuits that are being litigated on a loan-by-loan basis, suggest that court resolution will take considerable time, which poses a challenge to stabilizing the housing market and accelerating a recovery.

Incentive Conflicts

Before securitization became prevalent, the majority of mortgages was funded directly by banks and other deposit-taking financial institutions. These loans were held on lenders' own balance sheets and were typically serviced by them as well. Securitization of mortgage credit either through GSEs or private label issuers allowed the expansion of funding to broader capital markets. As a result, bank-funded (or portfolio) mortgages became less prevalent, ceding ground to GSE and private-label securitizations (PLS). By 2007, the share of aggregate residential mortgage debt held on portfolio had fallen to 37 percent from 48 percent in 1992, while that held by the PLS investors nearly quadrupled to 19 percent over the same time period. Investors in mortgage-backed securities relied on third-party servicers to collect monthly payments, transmit those payments to various investor classes, and mitigate losses on nonperforming mortgages.

The separation of mortgage ownership and servicing gave rise to a number of incentive conflicts between loan investors and their servicers, which made problem mortgages more difficult to address. These relationships are generally governed by "pooling and servicing agreements" (PSAs) that specify permissible actions servicers may take in dealing with delinquent loans. Although the overriding PSA principle is maximization of the value of the loan pool, some litigation was necessary to clarify this principle. Even now that the principle has been established, it can be interpreted in several different ways, particularly for mortgage pools with multiple investor classes or tranches. In particular, junior investors that are second in line (or lower) to receive flows generated by mortgage pools have an incentive to legally challenge modification actions that curtail overall cash flows. The resulting internecine "tranche warfare" discourages servicer actions. Indeed, some observers have argued that servicers tailor their loss mitigation practices to minimize the risk of litigation by their investors. Because loan modification is an expensive and uncertain undertaking, servicers may have an incentive to pursue foreclosures as the least legally contentious option. Indeed, recent research found evidence of considerably lower likelihood of modifications for privately securitized mortgages than for portfolio-held loans where no conflicts of interest are present (Piskorski, Seru, and Vig 2010; Agarwal et al. 2011).

Moreover, because servicer compensation is based on the unpaid principal balance of performing loans, their incentives are skewed toward modification practices that favor reductions in interest rates and adding unpaid loan balances (or arrears) to the principal, even when that is not the most effective approach to ensuring long-term performance of the loan. These incentive conflicts, coupled with the absence of established legal precedent, effectively limited early modification efforts on securitized mortgages to three alternatives: adding arrears to principal and either lowering the interest rate or freezing it on adjustable-rate mortgages (Agarwal et al. 2011).

The unveiling of the Home Affordable Modification Program in early 2009 substantially changed the playing field for loan modifications. By establishing a standardized approach to modifying mortgage contracts that explicitly maximized the return to investors as a group, the program reduced the exposure of servicers performing such modifications to investor lawsuits. The HAMP standards have served as a catalyst for spurring rapid growth in mortgage modification efforts across the industry. As servicers built up their distressed loan infrastructure to accommodate HAMP, they also switched their own modification focus to more aggressive methods that emphasize loan affordability.

Policy Actions

Both the complexity of the existing challenges in the housing market and the importance to the broader economy of resolving these challenges call for a robust and multifaceted menu of policy actions. Over the past three years, the Administration's housing policy has continued to expand to fit the circumstances, building on the experience of the early responses to the crisis. The Administration is pursuing additional innovative approaches designed to help households refinance their mortgages and maintain access to credit, to avoid unnecessary and costly foreclosures, to stabilize housing prices, and to help communities rebuild after experiencing a wave of foreclosures and erosion in property values.

Building on the Experience of Existing Programs

A number of program modifications are focused on counteracting the corrosive effects of negative equity. These modifications also seek to overcome a set of institutional hurdles that have thus far limited the effectiveness of certain policy actions. In particular, the Administration worked with the Federal Housing Finance Agency and private market participants to improve HARP—the existing refinancing program for borrowers with insufficient or negative equity in their homes whose mortgages are guaranteed by Fannie Mae or Freddie Mac. The revised program guidelines announced in November 2011 expand the pool of eligible borrowers by removing limits on loan-to-value ratios and extending the program deadline until December 2013. The program also lowers refinancing costs by reducing unnecessary pricing overlays and negotiating favorable pricing on some of the major closing cost items, such as title insurance. The revised HARP also addresses some of the difficult institutional hurdles, such as coordination problems with second-lien holders and mortgage insurers. The changes also lower some of the representation and warranty requirements for existing loan servicers, thereby encouraging greater lender participation. In a bid to further increase use of HARP, the revised program allows servicers to solicit some potentially eligible borrowers directly. Furthermore, major lenders have committed to dedicate additional origination capacity and resources to refinancing HARP borrowers.

Whereas changes in HARP were aimed at dulling the adverse effects of negative equity on the ability of currently performing borrowers to refinance their loans, other HAMP initiatives tackled the issues posed by negative equity in modifying loans of delinquent borrowers. In particular, the Principal Reduction Alternative (PRA), announced in October 2010, augments the original HAMP focus on affordability with elimination of a portion of the mortgage balance. The PRA builds on the insight that high levels of negative equity contribute to mortgage default over and above the effects of loan affordability. Consequently, modifications of delinquent loans with high loan-to-value (LTV) ratios may be more effective if they include a principal reduction component. The PRA requires servicers of non-GSE loans to evaluate the benefit of principal reduction for loans that exceed the appraised value of the house by 15 percent or more (that is, have LTV ratios above 115 percent) in making their HAMP determinations. To encourage servicers to use the PRA, HAMP provides monetary incentives for investors to write down principal. At the same time, the PRA seeks to lessen the risk of moral hazard by implementing principal write-down in three annual installments and making it conditional on continuous performance of the

modified mortgage. Under this earned principal reduction structure, a borrower has a strong incentive to remain current, which enhances the net present value of the PRA modifications to investors. To further encourage investors to evaluate the use of principal reduction in modifying problem loans, the Treasury has recently announced a tripling of the PRA monetary incentives. The Treasury also offered to extend PRA incentives to Fannie Mae- and Freddie Mac-insured loans.

The pace of PRA modifications has picked up appreciably in the past few months, with more than one in four HAMP modifications receiving principal reductions. According to the latest Treasury report, more than 36,000 permanent modifications that include principal reduction had been implemented by the end of November 2011 (Department of the Treasury 2011). The median PRA loan had an LTV ratio of 158 percent before modification and a target ratio after modification of 115 percent. The median amount of principal forgiveness for active permanent PRA modifications was about \$66,000. Because servicers are not required to offer principal reduction and usually may do so only when permitted by the loan investor, the growing use of the program suggests increasing acceptance of principal reduction as an effective loss mitigation tool by private investors.

Similar acceptance is echoed in servicer actions on private, non-HAMP, modifications. Several servicers have shifted their focus to principal reduction for deeply underwater delinquent loans held in securitization trusts. These reductions are typically earned over time to encourage borrowers to maintain loan performance. Principal reductions are also often coupled with a shared appreciation component that exchanges forgiven principal for an equity stake in the property. If the market value of the house in a future sale or refinancing exceeds its value at the time of principal reduction, the borrower shares a part of the appreciation with the lender. Much like the earned principal reduction, shared appreciation effectively raises the borrower's costs of defaulting to qualify for principal forgiveness.

Another HAMP-related initiative recently announced by the Department of the Treasury expands the reach of the program by broadening eligibility. One of the reasons many borrowers have not been able to take advantage of the program is that eligibility was tied to first-lien mortgages. Some borrowers with high medical debts, for example, but relatively average mortgage burdens, did not previously qualify for the program. By expanding eligibility, the changes aim to extend loan modifications to such borrowers and lower the number of preventable foreclosures.

The Administration has also expanded housing assistance for unemployed or underemployed homeowners. To help out-of-work homeowners avoid foreclosure, these programs generally provide for a period of forbearance of all or part of the monthly mortgage payment. In July of 2011, as the length of unemployment spells continued to exceed forbearance periods for many of the unemployed homeowners, the FHA and the Treasury announced the extension of forbearance to 12 months. This change applies to mortgage servicers that participate in the HAMP's unemployment initiative program (HAMP UP), as well as to the FHA Special Forbearance program. Following the Administration's lead, two major lenders and the GSEs have recently announced their commitment to provide up to 12 months of mortgage payment forbearance to unemployed borrowers.

Mortgage payment assistance for unemployed or underemployed homeowners has become a prominent feature of state level programs developed under the Hardest Hit Fund (HHF). The President announced the establishment of the Fund in February 2010 to provide targeted aid to families in states that have been hit hard by the economic and housing market downturn. HHF currently provides assistance to homeowners in 18 states and the District of Columbia. The specific programs are designed by state housing finance agencies and take into account local market conditions. In addition to helping unemployed borrowers, HHF programs commonly include efforts to fund innovative approaches to modification of delinquent mortgages and to allow homeowners to transition into more affordable places of residence.

Furthermore, in June of 2011 HUD launched the Emergency Homeowners Loan Program (EHLP) which provided \$1 billion in interestfree loans to help keep borrowers in non-HHF states who are unemployed, or who suffer from a severe medical condition, from losing their homes. The EHLP is available to borrowers with a long track record of staying current on their mortgages but who find their ability to continue doing so compromised by job loss or illness. EHLP loans are secured by a junior lien note on the homeowner's principal residence, and the balance on these loans is forgiven in 20 percent increments for each year the borrower remains current on regular mortgage payments.

The Administration's Project Rebuild, introduced as part of the American Jobs Act in September 2011, is another example of building on the experience of existing housing programs. While the revised HARP and the HAMP PRA focus on negative equity, Project Rebuild addresses the damaging effects of foreclosed or abandoned homes on neighborhood property values, economic prospects, and social fabric. Project Rebuild seeks to integrate and expand strategies proven successful under the Neighborhood Stabilization Program to deal with vacant and foreclosed properties. In particular, it explicitly allows federal funding to support for-profit development subject to HUD oversight. It also extends rehabilitation efforts to commercial as well as residential properties. Project Rebuild further calls for expanding support for land banks that work at the local level to acquire, hold, and redevelop distressed properties. Federal funds granted under the project would provide land banks with capital infusions that can be leveraged with private-sector investments to finance long-term redevelopment strategies.

New Levers in Housing Policy

Refinancing. The Administration has called on Congress to pass legislation that will enable more homeowners to refinance their mortgages at today's historically low interest rates. First, the HARP program is available only to homeowners whose loans are owned or guaranteed by the GSEs. This restriction has left some borrowers unable to refinance their loans only because their mortgages were kept on the originating bank's books or were securitized in the private, as opposed to the GSE, market—events largely outside of a borrower's control. To remove this arbitrary distinction, the Administration proposes that the FHA be authorized to offer streamlined refinancing to non-GSE borrowers with standard mortgage contracts. To limit risks to the taxpayers, the proposal emulates HARP in requiring eligible borrowers to have remained current on their mortgages and to meet certain underwriting standards. Another risk-management component of the proposal includes capping the loan-to-value ratio of eligible loans.

Second, while enhancements to HARP announced in November of 2011 will increase the reach of the program, more can be done to reduce the barriers to refinancing of GSE-backed loans. Such steps would include harmonizing underwriting requirements for mortgages with LTV ratios below and above 80 percent; further reducing loan fees because GSEs do not acquire any new credit risk by refinancing these loans; fully aligning the treatment of representations and warranties for refinancing with the existing or new mortgage servicers; and removing remaining differences in HARP requirements that still exist between Fannie Mae and Freddie Mac. These changes are aimed at streamlining the operational requirements of the HARP program and making it more accessible to a greater number of borrowers. By leveling the playing field between existing and new servicers, the proposed changes also seek to harness competitive forces to bring more interest savings to borrowers.

Third, the Administration's proposal helps address the problem of negative equity by providing a pathway for responsible homeowners who refinance their mortgages to rebuild their equity more quickly. Under this option, home owners would refinance into a shorter-maturity (20-year, for example) mortgage and commit to deploying the savings from refinancing to rebuilding equity in their homes. As an example, consider a borrower who has a 6.5 percent mortgage originated in 2006 with an outstanding balance of \$200,000, whose house is worth \$160,000 (a loan-to-value ratio of 125). This borrower could lower the monthly payment by \$166 by refinancing into a 20-year mortgage at 3.75 percent. Should the borrower choose to keep their mortgage payment at its original level and direct the \$166 in savings to principal reduction, the outstanding mortgage balance would decline to \$152,000 in five years. Under the proposal, underwater borrowers would have the choice of pursuing this pathway to rebuild their home equity. To assist borrowers who make this choice, the proposal directs the GSEs and the FHA to cover the closing costs of their refinanced loans.

Servicing standards. The experience of the past few years showed that the Nation is not well served by the patchwork of rules that govern the mortgage servicing system. To improve accountability and align incentives in the mortgage servicing industry, the Administration recently released a unified framework of servicing standards—the Homeowner Bill of Rights that is designed to better serve borrowers, investors, and the overall housing market. The Administration will work closely with the Consumer Financial Protection Bureau (CFPB) and other independent regulators, Congress, and other stakeholders to create a more robust and comprehensive set of rules driven by a set of core principles outlined in the framework. These principles include full disclosure of all fees provided in understandable language upfront, with any changes disclosed before they go into effect. The framework also requires servicers to implement standards and practices that minimize conflicts of interest, such as those that exist between multiple investor classes and those that arise when the servicer simultaneously owns a secondary lien on the property. To make loss mitigation actions more timely and effective, servicers are required to contact homeowners who have demonstrated hardship or fallen delinquent, and provide them with a comprehensive set of options to avoid foreclosure. Servicers must further allow homeowners the right to appeal denials for mortgage modification to an independent third party and provide homeowners who find themselves in economic distress with access to a customer service employee with a complete record of previous communications with that homeowner. To minimize inappropriate foreclosure actions, servicers may schedule a foreclosure sale only after they have certified in writing that all loss mitigation alternatives have been considered. To ensure compliance, servicers must maintain strong controls over servicing and loss mitigation operations and subject these controls to periodic independent audits. The Homeowner Bill of Rights is meant to provide an enforceable set of rules, not just guidance, for the servicing industry.

Conversion of Repossessed Properties into Rental Units. An orderly, fair process for disposition of foreclosed properties remains a key objective of housing policy. Given the ongoing reduction in rates of homeownership, many foreclosed properties will have to be converted to rental units, a process that typically involves rehabilitation. The demand for this type of housing stock will come mainly from private investors whose activity to date has been hampered by execution problems in putting together property portfolios through a series of small-scale acquisitions. Tight credit conditions for financing investment properties have further limited the ability of private investors to fill the gap in demand.

To counteract these problems, the FHFA, with the Departments of Treasury and Housing and Urban Development, initiated a process to manage the sale of REO properties held by Fannie Mae, Freddie Mac and the FHA. The goal of this effort is to allow private investors to bid on acquiring pools of REO properties in exchange for a commitment to rehabilitate and manage the properties as rental units. Bulk purchases will make it easier for investors to achieve economies of scale as they implement their individual business strategies. Qualified bidders must demonstrate evidence of property management experience and adequate capital resources, as well as agree to abide by property usage restrictions. For instance, antiflipping provisions establish minimum time periods that an investor must hold the property before seeking to sell it, and minimum reinvestment requirements impose certain quality standards for rented properties.

In many ways, the REO-to-rental conversion program seeks to build on the best practices established by successful policy interventions during the crisis. The program focuses on leveraging the expertise and financial resources of private investors, while preserving value for the taxpayers. It looks to avoid rigid top-down solutions, allowing for customization at the local level. And it makes use of the unique position of the GSEs and FHA as owners of large nationwide inventories of distressed properties to provide a large-scale, transparent, and predictable mechanism for converting these properties to better suit local housing demands. Furthermore, the process is intended to help the industry develop a viable framework for acquiring and managing large-scale scattered-site rental portfolios. Similar to the HAMP experience, this framework may well help establish industry standards.

Conclusion

Developments in the housing market played a central role in the financial crisis and the ensuing recession, and they continue to present a head-wind for the economic recovery. Although housing markets are stabilizing

in many regions, the healing process will inevitably take time. This is a reflection of both the magnitude of the recent housing price collapse and the many institutional obstacles on the path to a new equilibrium. Getting to the end of this path will require unwinding accumulated inventories of foreclosed homes, whether by finding new owners or by converting them to rental units. It will require enabling more homeowners to refinance their mortgages at today's low interest rates. It will require resolving multiple conflicts of interest in the modification of delinquent loans and providing meaningful assistance to unemployed homeowners as they search for new jobs that would allow them to remain in their homes. It will require restoring access to credit for responsible borrowers and repairing household balance sheets hard hit by erosion of home equity. And it will require working out legal uncertainties and fixing up mortgage finance markets.

Instead of waiting for these processes to play themselves out slowly and painfully, the Administration has embarked on a series of multifaceted and fiscally responsible actions in partnership with private market participants and housing regulators to proactively repair the housing market and ease the transition to a new and stable equilibrium. The new policy initiatives seek to enable refinancing, to unlock access to credit for responsible underwater homeowners, to reallocate foreclosed properties to the rental market, to prevent unnecessary foreclosures for borrowers struggling with temporary loss of income, to implement sustainable modifications of delinquent loans, and to repair the frayed infrastructure of mortgage servicing and mortgage finance.



CHAPTER 5

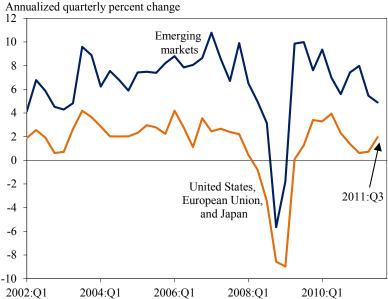
INTERNATIONAL TRADE AND FINANCE

Over the past year, global economic growth has slowed, largely due to a range of challenges in the advanced economies. These adverse shocks are, for the most part, unrelated to policies or business decisions undertaken within the borders of the United States. Nevertheless, in an integrated global economy, the United States cannot fully escape their impact.

One could hardly begin with a starker example of an adverse shock to the world economy than the massive earthquake that struck Japan's northeastern coast on March 11. This earthquake was the most powerful to have hit Japan in recorded history, triggering tsunami waves that leveled towns and claimed nearly 16,000 lives. Alongside the devastating human toll, the disaster also had a major impact on the Japanese economy. The International Monetary Fund (IMF) estimates that the Japanese economy contracted by 0.9 percent in 2011. The economic impact also extended far beyond Japan's borders. For months afterward, supply chains around the world, especially in the automotive industry, were disrupted by production slowdowns and parts shortages.

While Japan's severe economic slowdown in 2011 was driven by a natural disaster, those elsewhere in the developed world were largely a product of forces outside of nature. Slow growth has exacerbated sovereign debt and deficit problems in Europe, and austerity measures put into place in response have impeded near-term growth in a number of euro-area countries. In January, the IMF reported that the euro area's gross domestic product (GDP) grew 1.6 percent in 2011, down from 1.9 percent in 2010, and predicted that the euro area would contract by 0.5 percent in 2012. Growth in the United Kingdom has also slowed significantly, in part reflecting tight fiscal policies, and is estimated by the IMF to have been only 0.9 percent in 2011. With the European Union, Japan, and the United States collectively accounting for almost 60 percent of global GDP, slower growth

Figure 5-1 Real GDP Growth, 2000–2011



Note: Weights come from each nation's share of GDP within each aggregate. Source: Country sources; International Monetary Fund, World Economic Outlook, September 2011; CEA calculations.

in these economies was sufficient to lower growth at the global level in 2011, as Figure 5-1 illustrates.

In the face of the broad-based slowdown in economic growth in the developed economies, growth in emerging markets also decelerated. Slower growth in import demand in the large economies meant slower export growth in emerging markets. For example, growth in China is decelerating because of a decline in export growth as well as a slowdown in domestic real estate investment. Although the IMF predicts China is likely to grow more than 8 percent in 2012, its slowdown contributes to the loss of momentum in global growth.

¹ The growth slowdown in some emerging markets also reflected the impact of policy tightening in some countries to prevent overheating. As the year progressed, concerns about overheating tended to give way to concerns about the economic slowdown in the developed countries.

² The emerging markets aggregate in Figure 5-1 includes Argentina, Brazil, Chile, China, Colombia, Hong Kong, India, Indonesia, Israel, Malaysia, Mexico, Peru, Russia, Singapore, South Africa, South Korea, Taiwan, Thailand, Turkey, Ukraine, and Venezuela. Seventeen member states of the European Union (the EU-27) use the euro. They are Austria, Belgium, Cyprus, Estonia, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, Malta, Netherlands, Portugal, the Slovak Republic, Slovenia, and Spain.

Viewed in the context of these external challenges, the growth of U.S. exports over the past year has been a particular bright spot. Despite a slowing global economy, America's exports of goods and services have surpassed their pre-crisis peaks and have been growing more than fast enough to meet the President's goal of doubling the 2009 export level by the end of 2014. Many factors are contributing to this fast pace of growth, including continued productivity growth in manufacturing, a shift in unit labor costs that favors U.S. businesses over those in other advanced countries, and technological innovation in the energy sector, which is improving America's trade balance in petroleum products. A possible further weakening of foreign demand conditions, however, could pose a risk to future U.S. export growth.

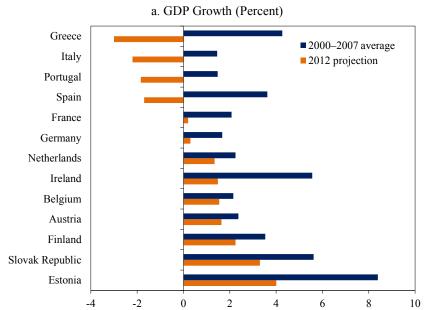
Global economic events could also affect the U.S. economy through financial links between the United States and the rest of the world. These links have increased dramatically in recent decades. U.S.-owned assets abroad and foreign-owned assets in the United States increased more than six-fold between 1994 and 2010.

"Global rebalancing" has been a major theme of U.S. international economic policy since the beginning of the Obama Administration. In the years before the global financial crisis erupted in 2008, large asymmetries had developed in the global economy. Several countries characterized by large, persistent current account surpluses, including Germany, Japan, and China, relied too heavily on unsustainable growth in net exports to drive economic growth. Several other countries characterized by large, persistent current account deficits, including the United States, relied on unsustainable growth in household consumption and construction of residential real estate. A more symmetric, better balanced pattern of growth is needed throughout the major economies. In the United States, future growth must be driven less by consumption and more by net exports and investment. Conversely, countries that have traditionally run large current account surpluses need to rely more on domestic consumption and less heavily on net exports. So far, the United States has made significant progress toward rebalancing. For progress to continue, however, U.S. exports must grow even more, and consumption in the surplus countries must increase.

THE EURO-AREA CRISIS AND ITS IMPLICATIONS FOR THE UNITED STATES

A key potential risk in 2012 to the U.S. and global economic recoveries remains the sovereign-debt and banking crises in Europe. Economic and fiscal conditions vary greatly among the 17 economies in the euro area, as illustrated in Figure 5-2. Although there is significant heterogeneity among

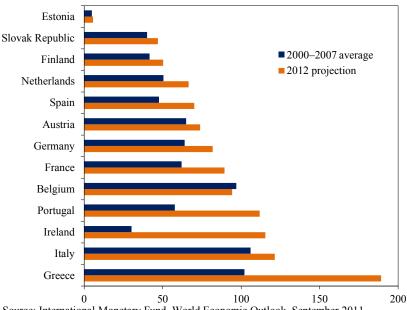
Figure 5-2 Economic and Fiscal Indicators for Selected Euro-Area Countries



Note: Projections include revisions as of January 2012.

Source: International Monetary Fund, World Economic Outlook, September 2011.

b. Public Debt-GDP Ratio (Percent)



Source: International Monetary Fund, World Economic Outlook, September 2011.

euro-area economies, economic and fiscal conditions in most of them deteriorated throughout 2011. In 2012, the economies of Estonia, Finland, and the Slovak Republic are predicted to grow by more than 2 percent, but those in Greece, Italy, Portugal, and Spain are predicted to shrink by more than 1.5 percent. Similarly, the ratio of general government gross debt to GDP is projected to be roughly 70 percent or below in Estonia, Finland, the Netherlands, the Slovak Republic, and Spain and above 110 percent in Greece, Ireland, Italy, and Portugal.

Economic research shows that there are many determinants of sovereign credit risk or sovereign borrowing costs, including individual factors (Berg and Sachs 1988) and global financial factors (Eichengreen and Mody 2000; Longstaff et al. 2011). Since early 2010, both sets of factors raised borrowing costs for some smaller and a few larger economies in the euro area. The European Commission (EC) and the IMF negotiated assistance programs for Ireland (November 2010), Portugal (May 2011), and Greece (May 2010, July 2011, and October 2011). In October 2011, the sovereign-debt crisis intensified in Italy and Spain, the third- and fourth-largest economies in the euro area.3

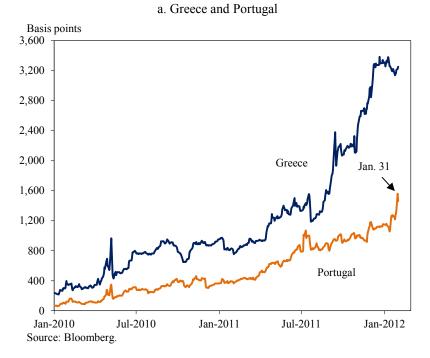
In response to the marked increase in sovereign borrowing costs, the European Central Bank (ECB) intervened, resuming its Securities Markets Program, in an effort designed to lower sovereign bond yields by purchasing government debt in secondary markets. European leaders and institutions have also introduced and expanded various measures to inhibit contagion, such as the European Financial Stability Facility. While these measures have helped contain the sovereign-debt crisis in Europe, significant risks remain. Market participants are expressing ongoing concerns about the fiscal conditions of Italy and Spain, as well as Greece and Portugal, in part because of fears that economic growth in these countries is likely to be sluggish for a prolonged period, exacerbating their fiscal situation.

European banks are among the largest holders of European government debt. (See Financial Stability Oversight Council 2011 for a discussion of the interconnections between U.S. banks, European banks, and European government debt.) As concerns about sovereign debt rose, spreads widened on sovereign bond yields relative to German bond yields in June 2011 (as highlighted in Figure 5-3), leading to deteriorating conditions of both solvency and liquidity among European banks. Toward the end of 2011, many European banks were facing shortened maturities and higher costs of funding in the interbank market, an important source of bank liquidity.

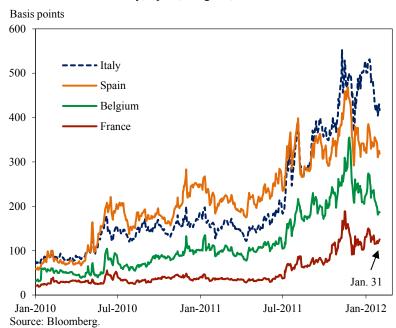
In December 2011, after two successive cuts in interest rates, the ECB took major steps to provide increased liquidity to euro-area banks. Among

³ Assistance programs for Greece negotiated in 2011 have not yet been implemented.

Figure 5-3 10-Year Bond Spreads Over German Bonds, 2010–2012



b. Italy, Spain, Belgium, and France



other measures, the ECB's new longer-term refinancing operation extended the maturity of loans offered to banks from one year to three years, and the ECB eased collateral requirements for those loans. The Federal Reserve also extended and reduced the cost of dollar liquidity swap arrangements to the ECB, as it had done during the credit freeze of 2008-09. A currency liquidity swap is an agreement between two or more parties to exchange a set amount of a given currency for another currency at a given price until a specific date in the future. In this case, the Federal Reserve provides dollars for periods ranging from overnight to as long as three months in exchange for the currency of the foreign central bank. In turn, the foreign central bank can lend the dollars during the specified period in its local markets, helping to relieve funding pressures in those markets and to prevent the spread of strains to markets elsewhere.

Given the interconnectedness of European and U.S. banks and the presence of branches, agencies, and subsidiaries of European banks in the United States, adverse financial conditions in Europe can be transmitted to American financial institutions. According to the Federal Reserve's Senior Loan Officer Opinion Survey, several European branches tightened standards on commercial and industrial (C&I) loans over the second half of 2011, in contrast to U.S. and other foreign banks. The C&I loans on the books of European branches in the United States have in fact declined noticeably since the middle of 2011. Such financial data are being monitored closely. One of the goals of recent financial oversight embedded in the Dodd-Frank Wall Street Reform and Consumer Protection Act is to reduce systemic risk by increasing transparency. Among other things, the new law supports trading of financial instruments on central exchanges, including derivatives. (For a discussion of the role of the Office of Financial Research in fostering transparency, see Data Watch 5-1.)

Similarly, trade and investment links between the United States and Europe are broad and deep, and, in recent years, of growing importance relative to the rest of the world. Europe is a significant destination for U.S. exports, accounting for more than 20 percent of U.S. goods exports and nearly 40 percent of U.S. service exports. In addition, sales by European affiliates of U.S. multinational firms totaled \$3.1 trillion in 2008, making up more than half of the \$6.1 trillion in total sales abroad by U.S. multinational firms. Furthermore, Europe is the leading foreign source of investment and jobs in America, accounting for \$173.2 billion, or 76 percent, of all foreign direct investment (FDI) inflows into the United States in 2010.

Data Watch 5-1: The Significance of the Office of Financial Research (OFR) in Combating Global Risks to the U.S. Financial System

The recent financial crisis presented a stark example of the need for comprehensive data on the financial system. While the initial catalyst for the financial crisis was a decline in U.S. housing prices that in 2007 led to a dramatic rise in subprime mortgage defaults (Brunnermeier 2009), neither market participants nor policymakers were aware of the extent to which leverage, reliance on ultra-cheap short-term funding, and a web of interconnected transactions and claims had built up in the financial system prior to that time. It became clear that investors had placed too high a value on the underlying homes, real estate, and other assets that were supposed to stand behind their investments. Consequently, as defaults on mortgages multiplied, they triggered a wholesale flight from related financial securities, which spread across countries and financial markets. The inadequacy of information available to assess risks properly magnified that flight from risk (Squam Lake Working Group 2009). The resulting credit crunch ultimately triggered a global economic recession from which many countries are still recovering.

Responding to the devastating effects of the financial crisis, on July 21, 2010, Congress enacted the Dodd-Frank Wall Street Reform and Consumer Protection Act (PL 111-203). The creation of the OFR in that Act addresses two glaring deficiencies in the financial data infrastructure that were revealed by the crisis. First, the OFR is charged with increasing the availability of financial information so that policymakers can better identify, analyze and monitor potential risks to the U.S. financial system. Critically, given the interconnectedness of global financial markets, this legislation permits the acquisition of data from financial institutions related to their activities globally that may pose a threat to the financial stability of the United States. Second, OFR is charged with improving the quality of financial information, in part by standardizing the types and formats of data that are reported to regulators. Standardized data would make it easier for policymakers to accurately evaluate whether a financial institution or group of institutions—located either domestically or abroad—or certain financial activities in which they may be engaged pose a threat to the U.S. financial system.

Over the past eighteen months, the OFR has laid the critical groundwork for enhancing both the quantity and the quality of financial information that is available to U.S. policymakers. The OFR is in the midst of comprehensively cataloguing the data that are currently held and collected by U.S. financial regulators. Concurrently, the OFR will collaborate with the member agencies of the Financial Stability Oversight Council to identify and fill deficiencies in the collection of data on financial markets. Likewise, the OFR has taken an important step toward enhancing the quality of the financial data infrastructure through the promotion of a global Legal Entity Identifier (LEI) for financial institutions. At the G-20 Cannes Summit, leaders supported the development of a global LEI and tasked the Financial Stability Board with coordinating this work. U.S. policymakers have partnered with the global financial services industry, foreign regulators, and associations such as the International Organization for Standardization to develop and begin to implement a universal standard for identifying counterparties to financial transactions (Department of Treasury 2011). In time, further initiatives will be undertaken to meet the information needs of regulators in fulfilling the mandate of the Dodd-Frank Wall Street Reform Act and responding to potential threats to the financial stability of the United States.

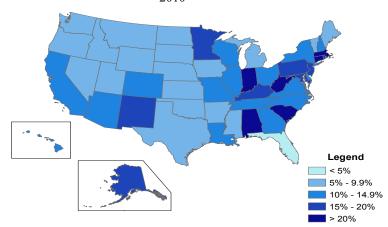
Outlook for Europe and Implications for the U.S. Economy

As noted, the crisis in Europe has slowed both current and predicted growth. The IMF estimates that euro-area growth in 2011 was 1.6 percent, but for 2012, the IMF forecasts that economies in the euro area will contract by 0.5 percent.

Faltering consumer confidence in Europe has spread to countries outside the euro area. Britain's Nationwide Consumer Confidence Index fell for the fifth month in a row in November 2011, reaching an all-time low of 36 points, compared with a historical average of 77. Economic growth projections for the European Union for 2012 are lower than for 2011: -0.1 percent in 2012 compared with 1.6 percent for 2011 (IMF 2012). A slowdown in Europe could affect the U.S. economy through two channels in addition to the finance channel mentioned above: trade and direct investment.

Exports. The share of U.S. goods exports to Europe has been over 20 percent for decades. A severe financial episode in Europe could reduce exports from businesses throughout the United States. As is the case with flows of inward investment, exports to Europe are distributed broadly across the United States, as displayed in Figure 5-4. The European Union is the destination for more than 20 percent of total goods exports from Alabama, Connecticut, Indiana, Massachusetts, South Carolina, and West Virginia. Exports range from cars, aircraft, and semiconductors, to coal, gold, soybeans, kaolin, and live chickens. Moreover, export data for commodities underestimate the extent of U.S. trade with Europe because, as noted, more than one-third of U.S. service exports go to Europe. Shrinking purchases of

Figure 5-4 Share of Each State's Goods Exports to the European Union by State, 2010



Note: This map depicts the state from which the product is last shipped, which is not necessarily the state in which the product is produced. Products with multiple stages of production often move across state boundaries more than once before leaving the country. Source: U.S. Census Bureau, Foreign Trade Data.

American goods and services by Europeans could have a significant impact on U.S. employment in several states.

Foreign Direct Investment. Declines in output, profit, and investor confidence in Europe could have an adverse effect on the ability and willingness of European firms to invest in American firms and jobs. The United States received more than \$228 billion in FDI from all foreign sources in 2010, over 75 percent of which came from Europe. Between 2004 and 2010, FDI flowed into every state, with Texas receiving the most, followed by Alaska, California, New York, Indiana, Illinois, Ohio, Alabama, South Carolina, and Georgia.

International Cooperation in Resolving Crises

The data in Figure 5-3 starkly reflect growing concerns of market participants regarding the scope and magnitude of euro-area bank and sovereign-credit risk. In the last decade, systemic risk related to financial crises has received more attention in the economics literature, including studies by Allen and Gale (2000), Kaminsky, Reinhart, and Vegh (2003), Frankel and Wei (2005), Reinhart and Rogoff (2009), and Ang and Longstaff (2011).

While Europe has the capacity to take responsibility for addressing its crisis through decisive policy action and a credible financial backstop, the United States has made clear that the international community has a strong interest in the successful resolution of the crisis. The Administration

is engaging with European governments both bilaterally and in multilateral forums. The United States has also been involved in the response to the crisis through its role in the IMF.

The Administration continues to urge movement along several dimensions in Europe: robust implementation of countries' agreed fiscal and structural reform programs, in the context of steps that euro-area leaders have outlined to reform fiscal governance in the euro area; a more substantial financial firewall to ensure that governments can borrow at sustainable interest rates while executing policies to strengthen the foundations for growth and to reduce their debts; and measures to ensure that European banks have sufficient liquidity and are adequately capitalized to maintain the full confidence of depositors and creditors.

Global and U.S. economic performance will depend, in part, on the swift resolution of problems in the euro area. In such times of global economic and financial disequilibrium, U.S. coordination with international partners remains essential.

FOREIGN DIRECT INVESTMENT, INTERNATIONAL TRADE, AND THE U.S. ECONOMY

Experience and economic theory suggest that a global economy can provide enormous advantages for American workers, consumers, and firms. In the absence of international trade and investment, a country can consume only what it produces, it can invest only what it saves, it can use only the technology that it creates, and it can take advantage of only those natural resources within its borders. Countries that have deliberately cut themselves off from international trade and investment for extensive periods of time have paid a stiff price in forgone opportunities for investment, consumption, and growth. North Korea, a nation that has pursued this kind of isolation assiduously, illustrates this point in a powerful and tragic way. Before Kim Il-Sung seized power in northern Korea, it was at least as rich as southern Korea. Today, per capita GDP in South Korea is over 17 times higher than that of North Korea.

One of America's achievements after World War II was helping to build the open and integrated global trading and investment system that now incorporates almost all of the world's economies. Of course, this system brings challenges, along with opportunities. The Obama Administration has focused on meeting the challenges of this system in ways that enable American workers and firms to make the most of the rich opportunities provided by a more open global trading and investment system. At the same time, the Administration has sought to ensure, through strong enforcement efforts, that other countries play by the rules of the system, and it has sought to protect those who are potentially adversely affected by global competition with a stronger safety net and an improved training and reemployment system (discussed in Chapters 6 and 7).

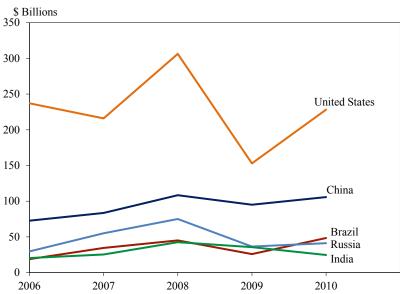
Investment in the United States by Foreign Companies

The United States had the largest annual flow of inbound FDI of any economy in the world in every year between 2006 and 2010. By 2010, the cumulative FDI stock in the United States had reached nearly \$3.5 trillion more than three times the FDI stock in each of the next three largest recipients (Hong Kong, France, and the United Kingdom) and more than five times China's cumulative inbound FDI stock (\$579 billion). Given the rapid GDP growth of large emerging markets such as Brazil, India, and China, both before and after the global financial crisis, it is not surprising that these countries and other emerging markets are absorbing an increasing fraction of the world's FDI. Nevertheless, their inflows remained substantially below those into the United States throughout this period.

Like trade flows, FDI flows tend to be procyclical, rising when the global economy expands and contracting when it shrinks. In late 2008 and 2009, as the global economy sank into its deepest postwar recession, FDI inflows around the world contracted (Figure 5-5); by 2009, total FDI flows were roughly 60 percent of their 2007 levels. Nonetheless, the United States remained the largest destination for new FDI inflows. As both the U.S. and global economies recovered from the recession, FDI inflows into the United States increased 49 percent from 2009 to 2010. Then, as global growth slowed again in 2011, FDI into the United States also decelerated. Through the third quarter of 2011, FDI inflows into the United States were running roughly 4 percent below 2010 levels.

If the global economy returns to normal growth rates, FDI inflows into the United States will likely resume their growth. The Nation continues to offer a set of "fundamental attractors" to foreign investors that other countries struggle to match. One such attractor is the sheer size of America's domestic market. In 2010, America's GDP was nearly two-and-a-half times larger than that of China, the world's second-largest economy. The United States also offers potential investors a strong rule of law, a highly skilled, motivated workforce, a highly developed financial system, and effective protection of property rights. The United States continues to lead the world in key technologies, attracting investment by firms eager to conduct worldclass research in close proximity to the world's top universities. For all of these reasons, leading companies around the world continue to be attracted to investment opportunities within the borders of the United States.

Figure 5-5 Annual FDI Inflows, Selected Countries, 2006–2010



Source: United Nations Conference on Trade and Development (UNCTAD).

The Benefits of FDI. U.S. affiliates of foreign firms make significant contributions to U.S. employment, output, investment, research and development (R&D), and exports. The Bureau of Economic Analysis (BEA) of the U.S. Department of Commerce surveys the activities of foreign-owned affiliates in the United States. According to its data, in 2008, subsidiaries of foreign companies accounted for nearly 5 percent of U.S. private-sector jobs, more than 11 percent of all U.S. private capital investment, more than 14 percent of all U.S. private-sector R&D, and 19 percent of all U.S. goods exported. In that year, the U.S. employees of these global companies earned an average annual compensation of about \$73,000—about one-third more than the economy-wide average.

Economic research shows that the benefits of foreign investment are even greater than these measures indicate. When foreign subsidiaries use advanced technologies and effective management to achieve high levels of productivity in their U.S. operations, the benefits can "spill over" to their American competitors (Keller and Yeaple 2009). As U.S. firms increasingly interact in their home market with highly productive foreign subsidiaries, the U.S. firms may be able to learn from their competitors' strengths. Keller and Yeaple find that 14 percent of the aggregate productivity growth between 1987 and 1996 (a period of rapidly rising FDI in the United States) resulted from FDI-related productivity spillovers. These spillovers were

particularly valuable for small firms, which do not routinely encounter these competitors in markets outside the United States. One reason proximity matters is that employees who move from foreign firms to domestic firms are often an important conduit through which knowledge diffuses from foreign to domestic firms (Poole forthcoming).

While foreign firms sometimes establish entirely new enterprises in the United States, with newly constructed plants and newly hired workers (known as "greenfield" investment), they more often gain a foothold in the U.S. market by merging with or acquiring existing domestic businesses. These transactions can be beneficial. Finally, FDI can help connect domestic firms to export networks and opportunities. The importance of such connections is well documented in developing countries (Aitken, Hanson, and Harrison 1997), but the United States can also benefit from such connections.

Encouraging FDI in the United States. The Obama Administration has taken vigorous steps to facilitate and promote inward FDI in the United States. As emerging markets expand, the forces of economic gravity are likely to pull more and more of the world's FDI inflows into these economies. Recognizing the reality of greater global competition for FDI, the Obama Administration has set up SelectUSA, a "one-stop shop" based in the Department of Commerce that helps both foreign and U.S. investors find the best options for their prospective businesses within the borders of the United States. SelectUSA is the first systematic Federal Government initiative to identify, inform, assist, and attract potential investors to the United States. It is also finding ways to partner with state and local economic development agencies, so that governments at all levels can coordinate efforts to attract investment. In the United States, state, local, and regional economic development organizations (EDOs) facilitate business investment attraction, retention, and expansion. SelectUSA can help these organizations compete more successfully with alternative production sites outside the United States; it can also function as an important resource for these organizations on international investment issues.

SelectUSA's activities cover a broad range of investment promotion functions. Staff respond to investment inquiries, help connect investors to appropriate federal and state agencies, and educate investors regarding relevant U.S. policies and procedures. SelectUSA staff and senior leadership also serve as ombudsmen for the investment community in Washington, working across the Federal Government to address investor concerns and issues involving federal agencies. Finally, SelectUSA works with U.S. EDO officials and U.S. embassies and consulates to organize events abroad that enable U.S. locales to promote themselves as a destination for FDI. President Obama has recently called for a substantial increase in support for SelectUSA, proposing \$12 million in new resources and an increase in staff to 35 full-time employees. Complementing this investment, President Obama has proposed to increase the presence of the Department of Commerce's U.S. and Foreign Commercial Service officers in key markets. These new officers will enhance the ability of the U.S. global network of embassies and consulates to promote FDI in the United States.

President Obama has also called for tax reforms that will help attract more FDI. These proposals include a decrease in the United States' corporate income tax rate, as well as additional tax incentives for firms that manufacture, conduct R&D, or invest in the capability to produce clean energy products within the borders of the United States. At the same time, the President's proposals eliminate incentives for U.S. firms to move jobs and production offshore. By complementing the United States' fundamental attractors with well-targeted FDI promotion efforts, the Federal Government can help ensure that the United States remains a premier destination for foreign direct investment for many years to come.

The National Export Initiative

In his January 2010 State of the Union address, President Obama set a goal of doubling U.S. exports of goods and services in five years, meaning that nominal exports would double from their 2009 level of \$1.58 trillion to an annual level of \$3.16 trillion by the end of 2014. To meet that goal, nominal U.S. exports must grow an average of 15 percent a year. So far, exports have grown even faster, putting the U.S. economy on track to meet the President's goal. In fact, the United States is currently ahead of schedule, despite the recent global trade slowdown. Over the 12 months ending in November 2011, total U.S. exports of goods and services exceeded \$2.08 trillion, surpassing the pre-crisis peak level of \$1.7 trillion and establishing a historical record. Current data suggest that the ratio of exports to GDP nearly reached 14 percent in 2011, another historical record.

Anatomy of Recent Growth in Goods Exports. U.S. trade data provide an interesting picture of the markets and goods in which America's export growth has been concentrated since the global financial crisis. Table 5-1 ranks U.S. export goods categories in order of the biggest increases in export value between the first half of 2009 and the first half of 2011. The top 10 categories collectively account for 72 percent of the total value increase in exports between the two periods.

The biggest increases have been concentrated in manufacturing industries characterized by high technology and capital intensity and in primary products, reflecting America's abundant endowments of human and physical capital, its technological prowess, and its natural-resource wealth.

Between the first half of 2009 and the first half of 2011, the United States increased its exports of vehicles by more than \$26 billion (83 percent); its exports of engines, appliances, and general machinery by more than \$25 billion (35 percent); and its exports of electrical machinery by more than \$19 billion (33 percent). Exports of plastics, organic chemicals, and steel and ferrous metals increased by 53 percent, 57 percent, and 78 percent, respectively. These data point to America's competitiveness in important sectors of manufacturing.

At the same time, the data reaffirm the United States' strength as an exporter of natural-resource-intensive goods. Exports of mineral fuels and oils (a commodity dominated by shale oil) surged by 150 percent, or more than \$35 billion, over the two-year period. That surge stems from technological breakthroughs in horizontal drilling and hydraulic fracturing that are allowing U.S. producers to extract oil from previously unusable areas; these technological developments are reviewed further in Chapter 8. Fuel exports have grown so much that the United States became a net exporter in 2011, for the first time in decades. The United States remains the world's largest importer of crude oil, and U.S. net imports of crude remain large relative to net exports of fuel products, but increased domestic production is offsetting some crude oil imports. Exports of gold, diamonds, and precious metals grew 94 percent, reflecting the high prices of those commodities on international markets.

Exports of cereals grew 77 percent, reflecting America's strength as a producer of agricultural commodities. This strength is also reflected in the impressive growth of total agricultural exports, a broader category not shown in the table, which increased by 51.8 percent over the same period, an expansion of \$24 billion in dollar terms. The U.S. Department of Agriculture reports that U.S. agricultural exports reached a record high of \$137.4 billion in Fiscal Year 2011, and that America's agricultural sector recorded a trade surplus of \$42 billion over that period. America's ranchers, farmers, and producers are benefiting from the Administration's focus on free trade agreements and increased market access abroad.

Trends Driving Growth in Goods Exports. The sharp growth in goods exports reflects, in part, the impact of recovering from the depth of the global financial and economic crisis. It also reflects the impact of coordinated Federal Government action flowing from the President's National Export Initiative. These actions amplify the positive influence of longer-term trends that are enhancing the competitiveness of the U.S. tradable goods sector, particularly in manufacturing. U.S. workers are more productive than those of any other G-20 economy, and U.S. productivity growth has been especially strong in the manufacturing sector. However, highly productive

Table 5-1 Growth in U.S. Goods Exports, by Product

		Export growth, 2009:H1–2011:H1		12-month sum	
Product	HS-code	Change (\$ Billions)	Change (%)	(Sept. 2010– Aug. 2011) (\$ Billions)	
Mineral fuels (including shale oil)	27	35.8	150	113.3	
Vehicles and parts	87	26.3	83	112.7	
Engines, appliances, and general machinery	84	25.7	35	198.7	
Electrical machinery and equipment accessories	85	19.1	33	157.3	
Precious metals and gems	71	16.6	94	64.9	
Plastics	39	10.2	53	57.5	
Organic chemicals	29	8.0	57	44.4	
Optical equipment and medical devices	90	7.4	24	78.0	
Cereals	10	6.7	77	27.8	
Iron and steel	72	5.5	78	23.8	

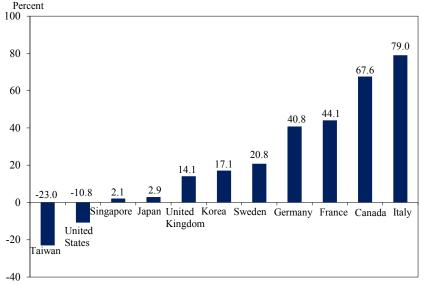
Note: Export growth is measured between the first half of 2009 (2009:H1) and the first half of 2011 (2011:H1). Source: U.S. International Trade Commission.

U.S. workers can be placed at a competitive disadvantage because of low labor costs abroad. This disadvantage was especially severe in the early years of the 2000s when the enduring effects of earlier financial crises in many parts of the world depressed production costs in much of Asia, Brazil, Russia, and elsewhere.

Since then, continued robust productivity growth in the United States, particularly in the manufacturing sector, has been reinforced by a gradual realignment of the currencies of many U.S. trading partners. The result has been a sharp improvement in relative unit labor costs in the United States. For example, the U.S. Bureau of Labor Statistics (BLS) tracks changes over time in the unit labor cost of manufacturing in the United States and in key trading partners. U.S. hourly compensation in manufacturing has grown over the past decade, but rapid productivity growth in the United States has reduced the cost of producing a unit of manufactured output. Meanwhile, measured in U.S. dollars, the cost of producing a unit of manufactured output in key trading partners has risen, in some cases substantially. Of the 19 economies tracked by the BLS, only Taiwan managed to improve its unit labor cost position more than the United States did.⁴ Figure 5-6 displays changes in manufacturing unit labor costs for some of the key economies tracked by the BLS.

⁴ Although the BLS does not track Chinese unit labor costs, it has tracked an index of import prices from China since 2003, and the most recent movements in this index suggest that Chinese unit labor costs are also rising.

Figure 5-6 Change in Manufacturing Unit Labor Costs, 2002–2010



Source: Bureau of Labor Statistics.

The impact of these shifts can be seen in a number of industries including the auto industry. As U.S. auto demand recovers, the Big 3 domestic auto companies and the foreign-domiciled companies have been expanding U.S. production. This expansion is designed not only to serve the U.S. market but also to use U.S. production sites as an export platform from which to serve other markets within the Americas and beyond. Ford has announced intentions to increase investment in the United States, both to serve the U.S. market and to export. Such plans include insourcing production of its F-650 and F-750 medium-duty trucks to Ohio from Mexico; it also reportedly plans to move manufacture of components like transmission oil pumps from China to Michigan.

Improved competitiveness also appears to be reflected in employment data. U.S. manufacturers have added jobs for two consecutive years, something that had not happened since the late 1990s. Manufacturing employment has grown faster in the United States than in any other leading developed economy since the start of the recovery. As of the most recent period for which comprehensive data are available, the United States has added more net manufacturing jobs since the start of 2010 than the rest of the Group of 7 countries put together, with over 300,000 created since December 2009. While the economy is still far from recovering all the manufacturing jobs lost during the recession, signs suggest that the United

States may be experiencing a manufacturing revival. Between 2010:Q1 and 2011:Q3, manufacturing employment rose 2.5 percent in the United States compared with 2.4 percent in Germany and 1.8 percent in Canada.

In some industries, the advantage created by high U.S. productivity is reinforced by the additional advantage of abundant, domestic, low-cost natural gas. Only a few years ago, leaders of the domestic organic chemical industry predicted that shortages in natural gas would dramatically raise the domestic price of natural gas, one of their key inputs. Without adequate domestic supplies of natural gas at reasonable prices, it seemed likely that chemical production would have to shift overseas.

Since the mid-2000s, however, the discovery of new natural gas reserves, such as those within the Marcellus Shale Formation, and the development of hydraulic fracturing techniques to extract natural gas from these reserves have led to rapidly growing domestic production and relatively low domestic prices for households and downstream industrial users. By keeping domestic energy costs relatively low, the increased supply from this resource supports energy-intensive manufacturing in the United States. In fact, companies such as Dow Chemical and Westlake Chemical have announced intentions to make major investments in new U.S. facilities over the next several years. In the longer run, the scale of America's natural gas endowment appears to be large enough that exports of natural gas to other major markets could be economically viable. The Obama Administration is taking steps to ensure that this resource is developed in a safe and environmentally responsible way.

However, in most of the manufacturing industries where American firms continue to enjoy robust export sales, U.S. producers rely principally on high productivity, rather than inexpensive inputs, to offset the higher wages and other labor compensation they pay their U.S. workers. The openness and competitive intensity of the American economy have been a key source of our national strength, since they have increased the efficiency of U.S. firms and industries. (See Hsieh and Klenow 2009, 2011 for recent research.) As a consequence, even extremely low wages in developing countries are not sufficient to provide a commanding cost advantage with respect to U.S. firms, at least in some product categories.

Exports can also be measured by looking at major destination markets. Table 5-2 ranks destination markets by the increase in value of exports between the first half of 2009 and the first half of 2011. The top 10 markets collectively accounted for 70 percent of the total increase in export value. Export flows to Canada and Mexico increased by nearly \$80 billion. Much of the rest of the U.S. export expansion was driven by exports to Asia. Even the tsunami-battered Japanese economy purchased nearly \$8 billion more

Table 5-2 Dissection of U.S. Goods Export Growth, by Market

W.L.	Export 2009:H1	12-month sum (Sept. 2010–Aug.	
Market	Change (\$ Billions)	Change (%)	2011) (\$ Billions)
Canada	43.1	45	272.2
Mexico	36.3	62	187.1
China, Mainland	19.2	63	102.2
Euro Area	16.1	20	193.2
Republic of Korea	9.0	72	42.1
Brazil	8.4	71	40.2
Japan	7.7	31	64.3
Hong Kong	6.9	71	31.9
Taiwan	6.0	80	27.5
Singapore	5.0	51	30.5

Note: Export growth is measured between the first half of 2009 (2009:H1) and the first half of 2011 (2011:H1). Source: U.S. International Trade Commission.

in U.S. exports in the first half of 2011 than it did in the first half of 2009. Outside of North America and Asia, Brazil continued to display its emerging economic importance, absorbing a 71 percent increase in U.S. exports that, in dollar terms, slightly exceeded export growth to Japan.

The Role of Services in Export Growth and America's Current Account Balance

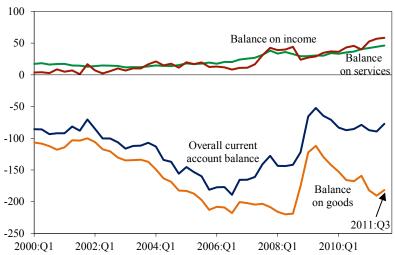
While export growth is critical, exports are just one component of the current account balance, the most comprehensive measure of the Nation's exchange of goods and services with the rest of the world. The main components of the current account include exports and imports of goods, exports and imports of services, and the income balance—the difference between the income American firms earn from their foreign businesses and the income foreign firms earn from their U.S. businesses.

A look at the recent history of the U.S. current account balance and its key components reveals some interesting patterns. Although U.S. exports of goods are at historical highs, reflecting in part the improved competitiveness of American manufacturers, the U.S. trade deficit in goods (which does not include trade in services) has nevertheless widened significantly since early 2009, as an expanding economy has boosted demand for imports (Figure 5-7). The trajectory of the U.S. current account, however, is following a different path now than it did in the previous recovery, and the difference primarily reflects the impact of the other two main elements of the current account—services trade and the U.S. income balance.

From the early 2000s through 2006, the current account balance tracked the trade balance in goods quite closely. The two series began to diverge in late 2007. The balance on goods remained in deep deficit, but the trade surplus in services began to increase, and the income balance grew even more rapidly. When the global financial crisis hit in earnest in the third quarter of 2008, U.S. growth and import demand dried up, and the two series moved closely together (this time rapidly toward balance) through early 2009. Then, as financial markets stabilized and growth resumed, a gap opened up once again. The balance on goods deteriorated, but the services surplus expanded and the income balance grew even more sharply, largely offsetting the declining balance in goods and keeping the current account relatively stable. More recently, the goods trade balance appears to have broadly stabilized, whereas the services surplus and the income balance continue to grow. With a need to further strengthen the current account balance, federal policymakers recognize the need not only to encourage exports of goods, but also to expand the important role that services trade can play in that process.

The Prospects for Trade Growth in Services. Like most other advanced economies, U.S. GDP is dominated by service industries. According to the Bureau of Economic Analysis, services, broadly defined, account for more than 60 percent of U.S. GDP. However, the role of business services within

Figure 5-7 U.S. Current Account Balance and Its Components, 2000–2011 \$ Billions



Note: The current account balance above includes goods, services, and income, but does not include unilateral transfers.

Source: Bureau of Economic Analysis.

the U.S. economy is less widely recognized. In 2007, a year unaffected by the recent severe downturn and gradual recovery, business services, a collection of industries that includes finance, engineering services, research and development services, and software production, employed 25 percent of the U.S. workforce according to data from the Economic Census. The share of employment in business services was substantially larger than in the entire manufacturing sector in that year (10 percent), and the average wage in business services, \$56,000, was significantly higher than in manufacturing (\$46,000) (Jensen 2011).

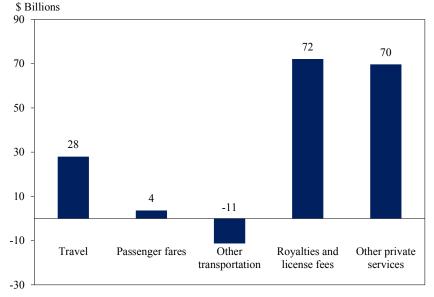
While services remain more difficult to trade than goods, advances in communications technologies and the growing ease and declining expense of international travel are making business services increasingly tradable across countries. As this trend gained strength, employment in the business service sector increased almost 30 percent between 1997 and 2007, while manufacturing employment decreased more than 20 percent. Most tradable business services rely intensively on highly skilled experts, which the United States has in large numbers. In other words, the growing tradability of business services plays to America's comparative advantage. Some evidence of this potential is apparent when one looks at the broader context of America's trade across the full range of service industries.

Services exports have expanded dramatically, growing by 114 percent between 1997 and 2010, according to official data. They now account for nearly 30 percent of total U.S. exports. Imports of services have also expanded rapidly, but the U.S. surplus in services trade, already large, has more than tripled since 2003.

What are the categories of services exports, and what is their relative contribution to the surplus? Figure 5-8 depicts the aggregate service trade flows in the five main categories tracked by official statistics and measures their contribution to America's overall services trade surplus.

Travel exports reflect the spending of foreign tourists and business travelers to the United States who purchase goods and services here, while travel imports reflect purchases made by U.S. residents traveling abroad. The United States remains among the world's leading tourist destinations and runs a surplus in travel trade. The Obama Administration has sought to expand U.S. travel exports with unprecedented federal action to promote international tourism in the United States. In 2010, the President signed into law the Travel Promotion Act, which established the Corporation for Travel Promotion, now known as Brand USA, a public-private partnership dedicated to promoting travel to the United States. The State Department has also increased its visa-processing capacity in priority countries like Brazil

Figure 5-8 Contribution to Services Surplus by Service Sector Category, 2010



Source: Bureau of Economic Analysis.

and China to ensure that the United States benefits from the rapid expansion of outbound tourism from these emerging markets.

Moreover, on January 19, the President established a Task Force on Travel and Competitiveness that will develop a National Travel and Tourism Strategy with a goal of making the United States the world's top travel and tourism destination. The benefits of that strategy include not only the potential increase in travel exports, but also lower travel imports as it will provide Americans with more and better choices of travel and tourism destinations within the United States. Because of their value as public goods, the government has an important role in ensuring that national treasures such as Yellowstone National Park and the Statue of Liberty are appropriately maintained and made accessible to domestic and international tourists. While there are many private, state, and local destinations in the United States, public expenditures on the National Park System (NPS) are much lower than the benefits they provide to all Americans, even to those who are not necessarily planning a vacation or visit to one of the 397 destinations that make up the NPS (National Research Council 1996). This provides yet another example of the ways in which investments in the environment yield benefits for the economy (Chapter 8).

In the category of passenger fares, exports are those received by U.S. carriers from foreign residents; imports are those paid by U.S. residents

to foreign carriers. Other transportation exports and imports include U.S. international transactions arising from the transportation of goods by ocean, air, land, pipeline, and inland water carriers.

Royalties and license fees cover transactions with nonresidents that involve intangible assets, including patents and trade secrets, which are involved in the production of goods. This category also includes copyrights, trademarks, franchises, rights to reproduce or distribute motion pictures and television recordings, rights to broadcast live events, software licensing fees, and other intellectual property rights. In 2010, this category was the largest single contributor to the services surplus, highlighting the importance to the United States of enforcement of strong intellectual property rights in other countries.5

The final category, other private services (OPS), generates by far the highest level of exports, and it is this category in which the promise of business services exports is seen. The main services included in OPS are education, financial, insurance, telecommunications, and business, professional, and technical services. The most important subcategory—business, professional, and technical services—accounts for more than half of OPS exports. Altogether, OPS exports expanded by about 150 percent from 2000 through 2010—a compound average growth rate of nearly 10 percent a year.

The additional detail on service exports and imports presented in Table 5-3 and Table 5-4 underlines two important facts about U.S. services trade. First, the other advanced industrial countries are still America's dominant trading partners in this sector, both as markets and as suppliers. As rapid economic growth raises income levels in large emerging markets, however, U.S. service export flows to these countries are likely to grow. Second, as noted, the surplus in services is disproportionately driven by two categories—other private services and royalties and licensing—that are skillintensive and thus conform to America's comparative advantage as a technologically advanced nation with an abundant supply of highly educated workers. This supply of skilled workers and the broader role that education plays in the U.S. labor market is discussed in Chapter 6.

In addition to exporting services, U.S. firms provide services through affiliates in foreign markets. Over the past decade, services provided through affiliates have grown rapidly, and in 2009, the most recent year for which comprehensive data are available, services supplied through the foreign affiliates of U.S. firms totaled \$1.1 trillion. Of course, U.S. customers also

⁵ In fact, the official numbers for royalty and license fees may understate, perhaps substantially, America's receipts for the use of its intangible assets. A report submitted last year by leading international economists (Feenstra et al. 2010) noted the ability of multinational corporations to effectively locate their intellectual property in low-tax jurisdictions, minimizing their global tax liability as well as measured U.S. royalties and license fees.

purchase services from the U.S. affiliates of foreign firms. These purchases totaled \$668.8 billion in 2009. The difference between services received from and supplied to the United States via the channel of affiliate sales was \$407.6 billion, providing yet another reflection of America's comparative advantage in this domain (Koncz-Bruner and Flatness 2011).

Policy Initiatives to Support Export Growth in Goods and Services

Recent economic research has focused on U.S. firm productivity and the fixed cost of exporting as fundamental determinants of U.S. exports at the firm and product level (Bernard et al. 2003; Melitz 2003). Fixed costs for firms are associated not only with the decision to begin exporting but also with the decision to export to a specific country. Before significant exports to a given country can begin, a prospective exporting firm must develop a strategy that allows it to compete successfully against experienced rivals in that country, which operates under a different legal system and may use a different language. Successful exporters must invest considerable management attention and time to developing this strategy before they can begin to earn any returns from exporting. The costs of serving a particular foreign market may also increase if the firm's products and complementary services must be significantly altered to meet the demands and tastes of customers in that market. Exporters also must incur the costs of finding distribution channels in the foreign country and the ongoing costs of transporting their goods across national borders and contending with tariff or nontariff barriers to trade. These costs are worth incurring only if the firm is dynamic and productive enough to have a high probability of success.

Federal programs exist to help firms deal with these costs. While private firms must take the lead in crafting their export strategies, the Department of Commerce's International Trade Administration maintains offices of trade professionals in more than 100 U.S. communities and 77 foreign countries to help U.S. firms become export-ready, identify target markets, and navigate the demands of foreign regulation and cultural differences. The Federal Government can also use effective multilateral, bilateral, or regional trade negotiations to reduce the costs imposed on U.S. firms by foreign tariff and nontariff barriers. It can also seek to ensure that American firms face a level playing field by insisting that U.S. trading partners honor their treaty commitments regarding market access for U.S. firms. Finally, in circumstances in which a particular exporter faces financing constraints or the threat of subsidized finance for international competitors, the Federal Government can seek to alleviate these constraints and counter foreign

Table 5-3 Cross-Border Services Exports by Type and Country, 2010

	2010 Exports (\$ Millions)					
Country	Total private services	Travel	Passenger fares	Other transportation	Royalties and license fees	Other private services
All countries	530,274	103,505	30,931	39,936	105,583	250,320
Total for the top 10 countries	290,680	59,489	19,659	20,395	65,607	125,530
Canada	50,521	16,641	4,182	2,984	8,287	18,427
United Kingdom	48,535	8,765	2,801	3,641	6,864	26,464
Japan	44,750	10,198	4,360	3,555	10,721	15,916
Ireland	24,840	1,033	280	300	12,850	10,377
Germany	24,118	4,534	1,248	2,779	6,181	9,376
Mexico	24,110	6,117	2,612	1,226	2,526	11,629
China	21,135	3,780	1,225	2,296	3,333	10,501
Switzerland	20,313	1,043	320	1,169	8,281	9,500
Brazil	16,515	4,236	1,683	998	3,123	6,475
France	15,843	3,142	948	1,447	3,441	6,865
Other countries	239,594	44,016	11,272	19,541	39,976	124,790

Source: Bureau of Economic Analysis.

Table 5-4 Cross-Border Services Imports by Type and Country, 2010

	2010 Imports (\$ Millions)					
Country	Total private services	Travel	Passenger fares	Other trans- portation	Royalties and license fees	Other private services
All countries	368,036	75,507	27,279	51,202	33,450	180,598
Total for the top 10 countries	215,078	33,704	11,410	25,382	25,071	119,511
Canada	39,652	4,324	3,705	3,107	3,031	25,485
United Kingdom	31,740	245	_	974	16	30,505
Japan	25,579	6,539	501	4,404	1,036	13,099
Ireland	23,541	3,278	1,331	5,670	7,817	5,445
Germany	22,476	2,606	2,562	3,632	3,187	10,489
Mexico	19,665	630	399	1,748	5,272	11,616
China	15,067	2,409	1,473	1,887	4,016	5,282
Switzerland	13,730	8,999	697	904	379	2,751
Brazil	13,661	2,108	207	156	141	11,049
France	9,967	2,566	535	2,900	176	3,790
Other countries	152,958	41,803	15,869	25,820	8,379	61,087

Source: Bureau of Economic Analysis.

government efforts. Over the past three years, the Obama Administration has placed renewed emphasis on all of these policy domains.

Free Trade Agreements with Colombia, Panama, and Korea. The Obama Administration has worked to restore the Nation's economic stability and support jobs for more Americans with the expansion of smart, responsible trade policy. From day one, the Obama Administration has insisted on higher standards for trade agreements. The President moved to address important concerns that the Administration, certain stakeholders, and Members of Congress had with respect to the situations in Colombia, Panama, and Korea. This domestic consultation and further consultations with U.S. trading partners took time, as did negotiations with Congress to ensure that the passage of the free trade agreements was accompanied by a strengthening of America's Trade Adjustment Assistance program for workers adversely impacted by international competition and by an extension of key trade preference programs. Once this process was complete, Congress passed the three agreements in quick succession in the fall of 2011, marking the biggest step forward in American trade liberalization in nearly two decades. Of the three agreements, the most economically significant was the Korea-United States free trade agreement, which was expected to boost annual U.S. goods exports to Korea by as much as \$11 billion. The agreement also included Korean commitments expected to result in considerable expansion of U.S. services exports.

The Trans-Pacific Partnership. In November 2009, President Obama announced the Administration's intention to participate in Trans-Pacific Partnership (TPP) negotiations to conclude a free trade agreement with key trading partners in the Asia-Pacific region. The agreement aims to set a new and higher standard for regional free trade agreements, not only addressing the traditional core issues in such agreements but broadening the scope to include regulatory coherence and priorities for small and medium-size enterprises. In addition to the United States, the other countries participating in the negotiations currently include Australia, Brunei Darussalam, Chile, Malaysia, New Zealand, Peru, Singapore, and Vietnam.

At the November 2011 APEC meeting in Honolulu, TPP leaders announced the broad outlines of a TPP agreement. In addition to existing negotiating partners, Japan, Canada, and Mexico have formally expressed their interest in joining TPP negotiations. While no decision has been made yet by the TPP countries regarding expanding negotiations, interest by Japan, Canada, and Mexico in the TPP demonstrates the economic and strategic importance of this initiative to the Asia-Pacific region.

Support for Small Exporters. In a world of imperfect financial markets, the costs of financing export operations pose an additional barrier for

smaller firms. Given that export opportunities can come to small exporters with significant risks attached, domestic financial institutions may regard a small firm that is highly dependent on exports as a riskier (and therefore less creditworthy) borrower than one with an exclusively domestic focus. The relatively modest financing needs of small exporters are a further disincentive to private financial institutions, which would have to engage in timeconsuming assessments of the firm, its products, and the country-specific risks involved in a transaction to originate only a small loan with limited value for the lending institution. Unless it is obvious to the lender that the firm has excellent prospects for significant export growth, and brings with it the near certainty of rapid expansion in loan volume, the money a private bank can make on such a transaction is limited relative to the transaction costs themselves.

To address these issues the Federal Government has directed the Export-Import Bank of the United States to proactively support small and medium-size firms. First established in the 1930s to finance U.S. international trade when and where private-sector financing was difficult or unreasonably costly to obtain, the Ex-Im Bank has historically focused much of its lending activity on larger, established exporters. The Obama Administration, however, has encouraged the bank to substantially increase lending to smaller firms, and in Fiscal Year 2010, the Ex-Im Bank authorized \$5 billion—20 percent of its total authorizations—to support small businesses as primary exporters. The Ex-Im Bank approved 3,091 transactions involving small business exporters—88 percent of total authorizations. In the same year, the bank issued 2,524 insurance policies to small business exporters, 90 percent of such policies for the year. The bank also authorized a record \$2.2 billion in working-capital guarantees, 70 percent of which supported small business.

Financial support for the expanding international activities of small business extends beyond the Ex-Im Bank. The Overseas Private Investment Corporation (OPIC), the U.S. Government's development finance institution, extends medium- to long-term financing through direct loans, loan guaranties, political risk insurance, and support for investment funds to eligible investment projects in developing and emerging markets, where conventional financial institutions often are reluctant or unable to lend. In Fiscal Year 2011, 78 percent of OPIC's projects, representing nearly \$1 billion in commitments, involved American small and medium-sized businesses.⁶

⁶ The Ex-Im Bank and OPIC follow the Small Business Administration's definition of a small business, using guidelines that reflect, among other things, sales, employment levels, and sector of economic activity. These guidelines are available online at http://www.sba.gov/sites/default/files/Size_Standards_Table.pdf.

Promoting U.S. Economic Interests Abroad. Even as it seeks to open up new markets for American business through new trade agreements, the Obama Administration is also working to protect American commercial interests under existing trade agreements. An historic victory came in May 2011, when the World Trade Organization (WTO) issued a final ruling siding with the United States in its case against the European Union over illegal subsidies to Airbus. After decades of dispute and more than five years of official proceedings, the WTO ruled that the EU governments had provided \$18 billion in illegal subsidies to Airbus and ordered them removed by the end of the year. U.S. Trade Representative Ron Kirk hailed the ruling, saying, "The WTO Appellate Body has confirmed without a doubt that Airbus received massive subsidies for more than 40 years and that these subsidies have greatly harmed the United States, including causing Boeing to lose sales and market share in key markets throughout the world." If the European Union fails to comply with the WTO directive, the United States can seek the right to impose countermeasures.

In its ongoing dialogue with China, the Obama Administration secured a strong commitment from Chinese President Hu Jintao that China would stop discriminating against U.S. technologies and intellectual property in its government procurement plans. The Administration is monitoring developments closely to ensure that market realities conform to central government directives. The United States has filed a WTO case against China, challenging the troubling imposition by China of antidumping and countervailing duties against imports of U.S. chicken "broiler products." The Administration scored another major victory in January 2012 when the WTO's Appellate Body upheld a WTO panel ruling condemning Chinese export quotas and duties on certain key industrial raw materials as a violation of China's WTO commitments. These actions add to a series of cases in which the Federal Government has taken action at the WTO to protect U.S. economic interests jeopardized by Chinese policy in areas such as steel products, electronic payment services, and wind power equipment.

In November 2011, the United States gained China's confirmation through bilateral negotiations that it would not require foreign electric vehicle manufacturers to transfer technology to Chinese enterprises or to establish Chinese brands as a condition for investing and selling in China. One year earlier, the United States successfully persuaded China to adopt transparent and non-discriminatory technology standards for its emerging smart grid market and to remain technologically neutral with regard to the development of third-generation and future technologies for its telecommunications market.

Several of America's trading partners, including China, have effectively imposed bans on U.S. meat product exports. These bans have no scientific basis, and the Administration has been trying to bring these bans to an end as soon as possible. In 2011, agreements were reached to resume exports to Chile and Egypt. Fifty-seven countries have removed their avian influenza bans on imports of poultry products from the United States since 2008. Most of the countries that imposed bans on the import of U.S. swine, pork, and pork products in the wake of international concern over the H1N1 virus have removed those bans.

With strong support from the United States, Russia concluded negotiations to join the WTO in December 2011. In supporting Russia's WTO accession, the Obama Administration has laid the basis for a more effective, rules-based approach to managing U.S. trade relations with the largest economy not yet inside the WTO system. The Administration will be working with Congress to end application of the "Jackson-Vanik" amendment to Russia so that the United States can enjoy all of the benefits of Russia's membership in the WTO and U.S. companies and workers can compete on a level playing field with those of other WTO Members in exporting products and services to Russia.7

To further enhance the Federal Government's ability to protect the Nation's commercial interests, the President is creating and seeking funding for a new Trade Enforcement Unit, which will significantly enhance the Administration's capabilities to aggressively challenge unfair trade practices under international and domestic trade rules. The President is also proposing to improve trade inspection capabilities of the Customs and Border Patrol and the Food and Drug Administration, to increase the likelihood of stopping counterfeit, pirated, or unsafe goods before they enter the U.S. market. Certain countries, including China, aggressively use subsidized capital to promote their exports, and appear to offer such export financing on better terms than allowed under current international best practices. In response, the Administration will actively employ its existing authorities so that the Ex-Im Bank can provide U.S. firms competing for domestic or third-country sales with matching financial support to counter foreign noncompetitive official financing that fails to observe international best practices.

The IMF estimates that sub-Saharan Africa will grow by 5.5 percent in 2012, faster than advanced, emerging, and developing economies as a whole. Between 2000 and 2010, five of the 10 fastest-growing economies in the world were in sub-Saharan Africa, and trade between Africa and the

⁷ The Jackson-Vanik amendment is a provision in the 1974 Trade Act that denies most favored nation status to certain countries that restrict emigration. It was introduced during the Cold War, partly as a response to efforts by the Soviet Union to restrict emigration.

rest of the world increased more than 200 percent. Central to the United States' economic policy for Africa is the African Growth and Opportunity Act (AGOA), which provides duty-free access to a broad range of exports from 37 eligible sub-Saharan African countries. To help African countries make the most of AGOA's trade benefits, the United States funds technical assistance work at Regional Trade Hubs. The United States also fosters investment by negotiating Bilateral Investment Treaties (BITs) with African countries. In 2009, the United States launched BIT negotiations with Mauritius, and, in 2011, the U.S. Senate ratified the U.S.-Rwanda BIT.

In agriculture and other sectors, the U.S. Agency for International Development uses public-private partnerships to build new markets and has been recognized by the Organisation for Economic Co-operation and Development as the best among its peers with respect to private-sector engagement. The Millennium Challenge Corporation (MCC) is partnering with American and local businesses. From helping the Port of Cotonou in Benin cut its average customs-clearance time in half to facilitating an American company's efforts to provide much-needed power to Tanzania's national grid, the MCC is investing in infrastructure to expand trade, commerce, and development across the African continent. Other agencies-including OPIC and the Ex-Im Bank-have significantly increased their investment in Africa. These activities are consistent with the goals of President Obama's Presidential Policy Directive on Global Development signed in September 2010 that establishes a new model for U.S. development efforts.

Tax Reform to Promote American Competitiveness. Administration's proposed reform of the U.S. corporate income tax seeks to enhance American competitiveness, promote investment in the United States, and support continued robust growth of American exports. As part of a comprehensive tax reform plan, the President has proposed a reduction in the U.S. corporate income tax rate, with additional incentives available for firms that manufacture, conduct research and development, or invest in the capability to produce clean energy products within the borders of the United States. At the same time, the President addresses longstanding features of the American corporate tax system that encourage some companies to move jobs and production overseas.

Increasing Market Access for Services. As noted, the United States has a strong comparative advantage in services. The global market for services trade, however, remains far more closed than the global market for manufactured goods. The long history of extensive trade in goods, the relatively simple nature of many barriers (tariffs and quotas) to such trade, and the cumulative result of six decades of multilateral, bilateral, and regional trade liberalization efforts have resulted in a global economy in which formal barriers to trade in manufactured goods are reasonably low, especially in the advanced industrial countries.

The barriers to trade in services are more complex and harder to quantify. Hufbauer, Schott, and Wong (2010) review a number of methodologies for quantifying the barriers to trade in services and present new estimates at the country level of the tariff equivalents of these barriers. Their findings suggest that the aggregate level of discrimination against services imports in important emerging markets such as China, India, and Indonesia is equivalent to a tariff on these imports of more than 60 percent. The size of these barriers may not be surprising—extensive international trade in services is a recent phenomenon, and diplomatic efforts to open services markets are just beginning—but these barriers deprive American firms of critical export opportunities to rapidly emerging markets in an area where their international comparative advantage is the strongest.

America's productive exporters of services cannot solve this problem on their own. The President is committed to negotiating effectively and aggressively for increased liberalization of services trade. The Administration has already made progress in bilateral and regional trade agreements, but the largest emerging-market economies have not yet been fully engaged in these initiatives. The primary multilateral means for seeking greater services market access has been through negotiations pursuant to the General Agreement on Trade in Services (GATS) and, to a lesser degree, the WTO Agreement on Government Procurement. While taking existing GATS disciplines and market access commitments into account, the United States is also pursuing additional pathways to services liberalization, including a new, multiparty agreement open to any country ready to take on high standards and address new issues such as trade in the digital economy. Other advanced countries and progressive developing countries are likely to share the U.S. interest in pushing for greater liberalization of services trade and may be willing partners in this effort.

Recent scholarship demonstrates that services liberalization is in the interest of countries that are importing services as well as those that are exporting services. Better access to world-class services raises productivity and living standards in emerging-market economies. Interesting evidence on this point comes from a randomized experiment in India (Bloom et al. 2011). Researchers based at Stanford University and the World Bank randomly selected a set of Indian textile factories to receive a complimentary five-month program of consulting services from a leading international firm. Upon arriving in these factories, the researchers and consultants found that productivity was hampered by poor management practices. Over the next five months, the consultants worked with the firms to implement standard management practices proven to have enhanced productivity, output, and profitability in the West. When the project ended, the "treated" factories had cut defects roughly in half, substantially reduced inventories, and increased output, while the control factories saw little change. The authors calculate that these performance improvements increased profits by about \$350,000 a year. These are sufficiently large increases that the firms would have made enough money from the consulting projects to be able to pay the consultants commercial rates for their engagement in the projects.

Given the magnitude of the improvement, why had the firms not adopted these practices earlier? The researchers' results suggest that informational barriers were the primary factor explaining the lack of adoption. What is true for India is likely to be true throughout the developing world. By reducing barriers to trade in services, developing countries can help their own firms move toward the productivity frontier achieved in the West.

Conclusion

Over the course of 2011, the pace of growth in the global economy slowed, posing challenges for the U.S. recovery. Nevertheless, U.S. exports have climbed to record high levels, the current account deficit narrowed to 2.9 percent of GDP in the third quarter, and the economy has begun to rebalance its sources of growth, laying the foundation for sustained future expansion. The greatest threats to continued progress in these domains lie bevond America's borders. Provided Europe's debt crisis can be resolved, America's export growth and progress toward rebalancing are likely to continue at a brisk pace. Other developments in the global economy, notably the continued expansion of international trade in services and the interest of major trading partners in new U.S. trade initiatives, provide a foundation of new opportunities on which the U.S. economy can build in the years to come.



CHAPTER 6

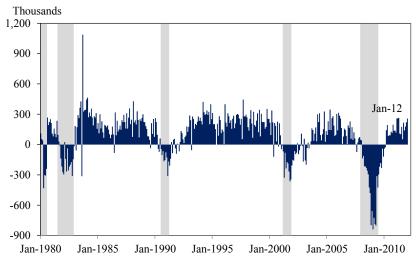
JOBS AND INCOME: Today and Tomorrow

Recessions caused by financial crises typically cause large declines in aggregate demand, as households that have borrowed excessively during the boom years bring down their debt during and after the recession. This deleveraging cycle takes time and disrupts the labor market, because reductions in consumer spending mean that employers require fewer workers to satisfy customer demand. Long-term problems that have been building over several decades pose a further set of challenges for the labor market. Inequality was sharply rising and earnings were stagnant for middle-income families for many years before the latest recession. And job growth from the end of the 2001 recession through 2007 was the weakest for any recovery in more than five decades. The Great Recession exacerbated these problems.

Despite the severe damage caused by the recession that began in December 2007, the labor market is gradually improving. Sustained private-sector job growth resumed more quickly after the official end of the 2007–09 recession than it did after the two previous recessions (Figure 6-1). Private employers have now added jobs, on net, every month since February 2010. In 2011, 2.1 million private-sector jobs were added to the economy, the most in any year since 2005. But, given the depth of the 2007–09 recession, the recovery has not yet resulted in enough new jobs to replace all of those that were lost.

Continuing the recovery is essential to putting more Americans back to work. And even as the economy and job market recover, long-term trends that predate the recession continue to pose a challenge for American families and businesses. Responding to these challenges, the President has proposed measures that independent economists predict would create millions of jobs. To make sure that Americans are equipped to compete in the economy of the future, the President has also taken steps to improve K–12 education and to make college more accessible and affordable for middle-class families,

Figure 6-1 Monthly Change in Private-Sector Employment, 1980–2012



Note: The large fluctuations in private-sector employment in 1983 were due to strike

activity. Shading denotes recession.

Source: Department of Labor, Bureau of Labor Statistics.

actions that should help to mitigate the long-term trend of growing income inequality.

JOBS AND EMPLOYMENT

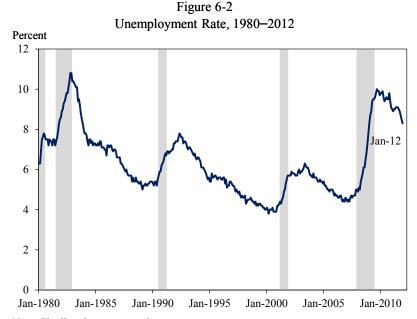
The traditional pattern has been that as both the U.S. economy and population have grown, so too has the number of jobs filled by American workers. Between January 1980 and July 1990, from business-cycle peak to business-cycle peak, total U.S. employment grew by an average of 151,000 net new payroll jobs a month; it grew even more quickly, at a rate of 178,000 payroll jobs a month, between July 1990 and March 2001, again from business-cycle peak to business-cycle peak. But this long-term pattern of job growth changed around the turn of the millennium. Between March 2001 and December 2007, the economy added a monthly average of only 68,000 total jobs and only 50,000 private-sector jobs. U.S. job creation slowed even as productivity growth remained relatively strong, and even as other developed countries, such as the United Kingdom and Canada, maintained robust job growth.

Against this backdrop of weak employment growth beginning in about 2000, the economy fell into recession in December 2007 and began to shed jobs at the end of 2008 at a rate unprecedented in the postwar era.

During 2008 and 2009, the economy lost an average of 361,000 jobs a month, reaching a high of 818,000 jobs in January 2009. As the recession continued, the unemployment rate doubled, from 5.0 percent in April 2008 to a peak of 10.0 percent in October 2009, a rate not seen since 1983 (Figure 6-2).

Soon after the President signed the American Recovery and Reinvestment Act (Recovery Act) on February 17, 2009, the pace of job loss slowed. The private sector has added jobs in each of the past 23 months, registering a cumulative gain of 3.7 million jobs since February 2010, including 2.1 million jobs in 2011. Private-sector job growth has averaged 159,000 jobs per month since February 2010, and 218,000 jobs per month in the last three months (ending in January 2012).

The recession has had a large and continuing negative fiscal impact on State and local governments, however, and they continue to shed workers, thus offsetting some of the private-sector job growth. Nonetheless, with the support provided by the Recovery Act and by the payroll tax cut and unemployment insurance extensions contained in the Tax Relief, Unemployment Insurance Reauthorization, and Job Creation Act of 2010, the U.S. economy has added jobs in every month since February 2010, excluding temporary Census hires. The continuing recovery has brought the unemployment rate down from a peak of 10.0 percent in October 2009 to 8.3 percent in January



Note: Shading denotes recession.

Source: Department of Labor, Bureau of Labor Statistics.

2012. The 0.9 percentage point decline in the unemployment rate that occurred in 2011 is the largest in any calendar year since 1994.

The pace of the recovery has varied across sectors of the economy, with those sectors most harmed by the financial crisis the slowest to recover. Since February 2010, when the private sector began consistently adding jobs, job growth has been strong in industries such as education and health services (+717,000 jobs as of January 2012); trade, transportation, and utilities (+683,000 jobs); and manufacturing (+400,000), but is still weak in some sectors, notably construction (+43,000 jobs) and State and local government (-456,000 jobs). The continued weakness in these two sectors reflects the severity of the financial crisis and the recession's impact on the housing market and on government revenues.

The pace of recovery has also differed across demographic groups. The Hispanic unemployment rate reached a peak of 13.1 percent twice, first in August 2009 and then again in November 2010. The unemployment rate for African Americans reached 16.7 percent in March 2010 and then again as recently as August 2011. The unemployment rates for Hispanics and African Americans as of January 2012 are well below their respective peaks—down 2.6 percentage points for Hispanics and 3.1 percentage points for African Americans—but still remain elevated.

Trends in the labor force participation rate and in the employmentto-population ratio that pre-date the recession, and were exacerbated by the recession, are a continuing concern. After trending upward for most of the post-World-War-II period, largely because of increases in the fraction of women in the labor force, the participation rate has been in a secular decline since the late 1990s, driven by declining participation of Americans between the ages of 16 and 54, as well as by the aging of the workforce. These same developments have also lowered the employment-to-population ratio. The labor force participation rate fell further in the recession. As discussed in Chapter 2, many of those who have left the labor force since the beginning of the recession have enrolled in school.

Extended unemployment insurance benefits have encouraged workers who lost their jobs through no fault of their own to keep searching for work, thereby maintaining a connection to the labor force. Helping more Americans get back to work more quickly remains the top priority of the Administration's economic policy. That is why, in September 2011, President Obama proposed the American Jobs Act to support and speed up the ongoing recovery for American workers and their families. More recently, the President's 2012 State of the Union Address and Fiscal Year 2013 Budget laid out a blueprint for an economy built to last on American manufacturing, American energy, skills for American workers, and American values.

THE DYNAMICS OF LABOR MARKET TRENDS

Underlying the changes in employment is a dynamic process through which firms are born and die, jobs are gained and lost, and workers transition in and out of employment and between jobs. These labor market dynamics have strong cyclical properties that have been very much at work during and since the recession, but secular trends are also changing the functioning of the U.S. labor market over the long run.

Job Dynamics

The job market is dynamic, with new firms entering and others exiting, and some growing and others contracting. The dynamic job market is supported by a safety net that helps to protect workers when job transitions do not occur smoothly and that gives entrepreneurs a backstop when they take risks with potentially high payoffs in future productivity. The importance of the many facets of the safety net is discussed in detail in Chapter 7.

These job dynamics are characterized by gross flows of job gains and job losses across firms. Gross job gains are measured as jobs created in new and expanding firms, while gross job losses are measured as jobs that disappear in firms that are contracting or closing. Net job growth in a given period is the difference between gross job gains and gross job losses:

$$NET_t = G_t - L_t$$

where

$$G_t = \sum_{i \in C} (N_{it} - N_{it-1})$$
 and $L_t = \sum_{i \in D} (N_{it-1} - N_{it})$,

and NET_t is the net number of jobs created by firms in the economy in period t; G_t is the amount of gross job gains in the period; L_t is the amount of gross job losses; i is a firm; C is the set of firms that are either new or have grown in period t; D is the set of firms that have either exited or contracted in period t; and N is the number of jobs.

To calculate the rates of net job growth, gross job gains, and gross job losses, each of these values is divided by overall employment in the economy

¹ Alternative measures of gross job gains and gross job losses use units of observation other than the firm, such as the establishment, generally a physical location of business activity where goods and services are produced. Using units smaller than firms leads to higher rates of gross gains and losses because jobs that flow across the units within a firm are counted in the gross measures.

averaged between one period and the next period. So, for example, the rate of gross job gains in period t is:²

$$GR_t = \frac{G_t}{0.5 * (N_t + N_{t-1})}.$$

Recent work by economists using the Business Dynamic Statistics (BDS) data at the U.S. Census Bureau demonstrates the tremendous dynamism of private-sector employment in the United States (Haltiwanger, Jarmin, and Miranda 2010; Haltiwanger 2011). Between 1980 and 2009 (the most recent year of BDS data), approximately 17 percent of all jobs in the private sector in an average year were added in that year at new or expanding firms; approximately 15 percent of jobs in an average year were gone by the next year because firms closed or contracted. While both large and small firms contribute to gross job gains and losses, small firms tend to gain and lose jobs disproportionately and to account disproportionately for net job growth.

Recent research suggests that an important part of the explanation for the disproportionate amount of both gross job gains and gross job losses accounted for by small firms is that they tend to be young. Put differently, startups and other young firms drive the large rates of job gains and losses in small firms. Between 1980 and 2009, for example, 18.2 percent of overall gross job gains each year were in new firms—mostly small new firms—even though new firms accounted for only 3.1 percent of employment (Data Watch 6-1). These numbers make clear the importance and contribution of America's entrepreneurs to the dynamism of the economy.

The annual average rates of job gains and losses between 1980 and 2009 mask two important features of heterogeneity across time—secular, or long-term, trends, and cyclical patterns. The rates of both gross gains and gross losses have been declining over time. Whereas, on average, 18.2 percent of private-sector jobs in the 1980s were newly created positions in startups or expanding firms, gross job gains fell to 16.8 percent of total private-sector employment in the 1990s and to 15.8 percent between 2000 and 2009 (Figure 6-3). Similarly, gross job losses were slightly more than 16.2 percent of overall private-sector employment in the 1980s but fell to 14.9 percent in the 1990s and then remained largely the same between 2000 and 2009. These secular declines also are apparent when one focuses more narrowly on startups. Gross job gains from startups accounted, on average,

² The data on U.S. firms capture gross flows over a 12-month period beginning and ending in March. So, for example, the rate of job gains in year t=2009 refers to information on jobs gained in firms between March 2008 and March 2009.

Data Watch 6-1: Measurement of Startups

Research based on a new Census Bureau data set called the Longitudinal Business Database (LBD) has led to new discoveries about the important role that startups play in creating jobs. The LBD contains annual information on virtually the entire universe of U.S. nonfarm private businesses that paid Federal payroll and income taxes between 1976 and 2009, and it will continue to be updated as new data become available.

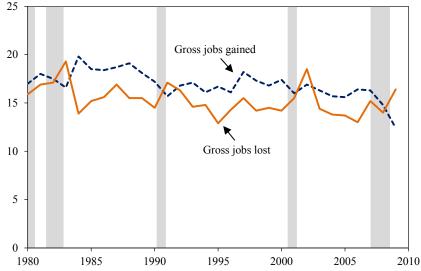
LBD data are available both at the level of the firm—a measurement unit combining all of the economic activity of a business that occurs under common operational control—and at the level of individual establishments—physical locations of economic activity where goods and services are produced. The initial data are derived from quarterly Internal Revenue Service filings that are compiled by the Census Bureau and augmented with data collected through the Census Bureau Economic Censuses and business surveys. The final LBD data set contains annual information on payroll, employment size, industry, and other key economic variables for both firms and establishments.

One of the key advances of the LBD is its ability to track the births and deaths of firms. When a new economic entity is reported in the administrative sources used to create the LBD, the Census Bureau determines whether that new economic entity is a new firm, a new establishment that is part of an existing firm, or an establishment that has undergone a change in legal form because of a merger, change in ownership, or some other similar change. Through this process, the Census Bureau is able to identify essentially all new private payroll startups.

The creation of the LBD has allowed researchers to study comprehensively the process of private-sector job gains and losses. One of the most important findings has been how important startups are to the dynamism of the U.S. economy. For example, Haltiwanger, Jarmin, and Miranda (2010) find that about 2.5 million net new private-sector jobs were gained in 2005. Firm startups created nearly 3.5 million net new jobs in that year, while all other firms together lost about 1 million jobs on net.

More information on the LBD is available from the Census Bureau at http://www.ces.census.gov/index.php/bds/bds_home. The Bureau of Labor Statistics has produced a separate database, the Business Employment Dynamics (BED), which tracks gross quarterly job gains and losses; more information about the BED is available at http://www.bls.gov/bdm.

Figure 6-3
BDS Estimates of Annual Gross Job Gain and Loss Rates, 1980–2009
Percent of total U.S. private-sector jobs



Note: Shading denotes recession.

Source: Census Bureau.

for 3.6 percent of the overall number of private-sector jobs in the 1980s but for only 2.7 percent between 2000 and 2009.

The rates of gross job gains and losses exhibit not only secular declines but cyclical patterns as well. Gross job gains are procyclical, increasing in expansions and declining in recessions, whereas gross job losses are countercyclical, increasing during recessions and declining in expansions. In the depths of the recent recession, gross job losses rose sharply, but the decline in gross job gains was even more notable.

An alternative data set produced by the Bureau of Labor Statistics (BLS) offers more frequent and more recent data than the BDS. The Business Employment Dynamics (BED) reports quarterly data on payroll employment at the level of the Employer Identification Number (EIN). An EIN is a tax-reporting construct rather than an economic construct, but the unit of observation in the BED consists in most cases of all of the operations of a particular firm located within a given U.S. state. Movements in gross job gains and losses in the BED on an annualized basis since its 1990 inception are broadly similar to those in the BDS; most important, the BED also shows a trend decline in gross gain and loss rates since 2000.

The quarter-to-quarter movements shown in Figure 6-4, which are based on BED data through the second quarter of 2011 (the most recent quarter of data available), show a large increase in the rate of gross job losses toward the beginning of the recession; the rate reached a peak in the

Figure 6-4
BED Estimates of Quarterly Gross Job Gain and Loss Rates,
1990–2011



Note: Shading denotes recession.

Source: Department of Labor, Bureau of Labor Statistics.

first quarter of 2009, and then returned to approximately the pre-recession trend by the beginning of 2010. The BED data also show a precipitous fall in the rate of gross job gains during the recession, and although that decline reversed and gross job gains exceeded gross job losses by the second quarter of 2010, the gains so far have resulted in too few new jobs to accommodate the large number of individuals who lost jobs in the 2007–09 recession.

Now that researchers have documented the long-term secular slow-down in job gains and losses, the underlying reasons for the slowdown and its implications for the future of the U.S. economy are fast becoming the subject of an active debate. One possible reason for the slowdown in job reallocation is the aging of the population. Older workers may be less likely to become entrepreneurs, and research has documented a positive correlation between worker age and job tenure (Davis et al. 2007; Krueger 2010). But while the U.S. population is indeed aging, it is and will remain much younger than the population in the countries of Western Europe. So, to the extent that aging can explain part of the slowdown in job flows in the United States, other countries can be expected to experience slowdowns as well. Further research is needed to better understand the secular trends in job flows in the United States, and international comparisons could be helpful in this regard.

Because of the importance of entrepreneurship to the vitality of the economy, the President last year launched Startup America, a national

campaign to improve the environment for high-growth entrepreneurs by expanding their access to capital and connecting them with mentors, helping the Nation's veterans start businesses, reducing barriers to entrepreneurship, and fostering entrepreneurship in communities.

Worker Flows

The reallocation of jobs across firms is accompanied by the flows of individual workers between firms and in and out of employment. Overall, the net change in employment at a firm must by definition equal the difference between the firm's hires and separations. But the rates of worker flows are larger than the rates of job reallocation: a firm may maintain stable employment (no gross job gains or losses) from one year to the next while having many individual workers come and go from within its employee ranks.

On a monthly basis, flows of workers into firms (hires) and out of firms (separations) are large. As captured since December 2000 in the BLS Job Openings and Labor Turnover Survey, hires and separations have both averaged more than 4.7 million a month and have tended to track each other closely over time. As Figure 6-5 illustrates, firm hires and separations before the start of the recession in 2007 were notably below the levels observed before the start of the 2001 recession.

Thousands 6,000 5,500 5,000 Separations 4,500 4.000 3,500 3.000 Jan-2003 Jan-2007 Jan-2009 Jan-2011 Jan-2001 Jan-2005

Figure 6-5 Hires and Separations, 2001-2011

Note: Shading denotes recession. Source: Department of Labor, Bureau of Labor Statistics. As the U.S. economy fell into recession in December 2007, worker flows slowed notably, with large monthly declines in the number of separations, and even more precipitous monthly declines in the number of hires. A decline in separations during a recession may seem counterintuitive, but it is attributable to a large decline in the frequency of workers quitting their jobs; quits are usually a sign of workers leaving jobs voluntarily for better opportunities. So while layoffs were increasing over this period, the decline in quits swamped the increase in layoffs. Overall, the economy on net was shedding jobs at a very fast pace during the recession because the decline in hiring in absolute numbers was larger than the decline in separations. Hires and separations both began to rise in the second quarter of 2010, but both remained below pre-recession levels at the end of 2011.

One can also study flows of workers into and out of employment, unemployment, and the labor force. Perhaps most important over time are the flows into and out of unemployment, which can be calculated using the Current Population Survey (CPS). Because of the structure of the CPS, in any given month three-quarters of the sample members have also been interviewed in the previous month, making it possible to use these repeat respondents to follow transitions into and out of unemployment. The BLS has been constructing these flows each month since 1990 in a manner that also matches up with the level of reported unemployment. Figure 6-6

1990-2012 Percent 4.0 Inflow rate Outflow rate 3.5 3.0 2.5 2.0 1.5 Feb-1990 Feb-1994 Feb-1998 Feb-2002 Feb-2006 Feb-2010

Figure 6-6
Flows into and out of Unemployment as Percent of the Labor Force,
1990–2012

Note: Shading denotes recession.

Source: Department of Labor, Bureau of Labor Statistics.

displays the extent of inflows and outflows as a percent of the total labor force for each month from the start of 1990 through January 2012.

Although the BLS labor force flow series goes back only to 1990 and is dominated by strong cyclical movements, the data in Figure 6-6 through the end of 2007 suggest a secular decline in both the inflow and outflow rate. A similar decline has also been documented elsewhere (see, for example, Davis, Faberman, and Haltiwanger 2006) for years before 1990, using alternative methods of calculating unemployment inflows and outflows. As with job flows, the aging of the population may account for some of these secular declines, because older workers tend to leave jobs less often than younger workers and, when they do, are more likely to leave the labor force permanently. But the declining flows into and out of unemployment also may reflect other forces that have lowered the rates of gross job gains and losses over the past three decades.

As the recession began, monthly inflows and outflows from unemployment both stood at approximately 2.4 percent of the labor force. Both began to rise steeply, but the inflow rate rose more quickly than the outflow rate, increasing the unemployment rate to levels not seen in approximately 30 years. Put differently, both the increase in the monthly average probability of a worker entering unemployment and the decrease in the monthly average probability of an unemployed worker exiting unemployment have, as in a typical recession, contributed to the observed rise in unemployment (Elsby, Michaels, and Solon 2009). Since March 2009, unemployment inflow and outflow rates, measured as a share of the labor force, each have been over 3 percent. Because the outflow rate was notably higher than the inflow rate near the end of 2011, the unemployment rate has fallen.

The labor market is still recovering from the cyclical impacts of the recession. And it is still subject to the long-term slower trend in gross job gains and losses, as well as to the long-term decline in the share of the population that is employed. In the face of these trends, the Administration has pursued and continues to pursue robust policies to foster faster job creation in the short run, as well as an economic environment in which existing firms have reasons to increase employment, new firms are able to grow and innovate, and workers can find satisfying employment.

Earnings and Income Mobility over the Career and between Generations

Although the Nation's labor market is highly dynamic in terms of worker flows, the United States has had low rates of income mobility for decades, both across the career and across generations.

Low rates of income mobility across the career are especially notable for men, whose higher rates of labor force attachment make them much less likely than women to have years with zero earnings. Kopczuk, Saez, and Song (2010) show that the annual earnings of a man averaged across 11 years early in his working career are highly predictive of his annual earnings averaged across 11 years later in his working career. For example, a man in one of the bottom two quintiles of the income distribution early in his lifetime has less than a 10 percent chance of rising to the top quintile 20 years later.

Family (or individual) incomes in one generation are also highly correlated with family (or individual) incomes in the next generation. In other words, the children of parents who are poor are more likely than the children of well-off parents to be poor when they grow up. A common measure of mobility across generations is the intergenerational elasticity (IGE) of earnings or income, which is defined as the percentage difference in a child's income associated with a 1 percent difference in the parent's income.3 These IGE estimates are sensitive to several measurement issues, particularly fluctuations in incomes from year to year. Studies based on U.S. data that deal appropriately with these measurement issues suggest that plausible estimates of the average IGE between fathers and sons are between 0.4 and 0.6. An IGE of 0.4 means that if one father earned 20 percent more than another over their lifetime, the first father's son on average would earn 8 percent more than the second father's son; an IGE of 0.6 means that the first father's son would earn 12 percent more on average than the second father's son. That is, the higher the IGE is, the lower economic mobility is between the generations.

Data limitations make it difficult to infer whether the IGE or the correlation between parents' and children's income has changed significantly over time (Data Watch 6-2). Lee and Solon (2009) conclude that the IGE in the United States was fairly stable for cohorts born between 1952 and 1975, while Aaronson and Mazumder (2008) present evidence suggesting that it has increased in the past 30 years, implying that intergenerational mobility has fallen. None of the available research has suggested a decline in the IGE over time. Moreover, the widening of income inequality has meant that it is harder for someone born into the bottom to move to the middle or the top of the income distribution.

The high degree of persistence in incomes between generations in the United States is especially noteworthy in the context of cross-country comparisons. Corak (2011) makes such a comparison and finds that the average

³ IGEs most commonly have been estimated as the regression coefficient resulting from a linear regression of the logarithm of the income (or earnings) of a child on a measure of the logarithm of income (or earnings) of a parent or family.

Data Watch 6-2: Intergenerational Mobility

One measure of opportunity is the extent to which children grow up to live in better economic and social circumstances than their parents. While there has been useful research on this topic, data limitations have hampered attempts of economists and other social scientists to measure the extent of intergenerational mobility. Researchers interested in intergenerational mobility in the United States most commonly have used one of two nationally representative surveys to assess the relationships between the income and occupations of children and those of their parents—the Panel Study of Income Dynamics or the National Longitudinal Survey. Neither of these surveys was designed specifically to address questions concerning intergenerational mobility, however, and the lack of precision resulting from the relatively small numbers of people surveyed makes it difficult to discern trends in economic mobility.

Grusky and Cumberworth (2010) have suggested that, if organized into an administrative database with strict confidentiality protections, information gleaned from U.S. tax records could allow researchers to gain a much fuller picture of the evolution of earnings and career outcomes between generations. Mazumder (2005) has taken a step in this direction, using data from the Survey of Income and Program Participation linked to Social Security earnings records to study the relationship between parents' earnings and the later earnings of their adult sons. He finds that the intergenerational elasticity of earnings is around 0.6, which is larger than had been found in previous studies, probably because he had access to more accurate earnings histories.

estimated IGE of 0.47 for men in the United States, while lower than the IGE for countries such as the United Kingdom (0.50) and South Africa (0.69), is much higher than the IGE for men in countries such as Sweden (0.27), Norway (0.17), Finland (0.18), and Denmark (0.15). Jäntti et al. (2006) also compare IGEs for men's incomes in some of the same countries and report similar estimates.4

While many factors contribute to cross-country differences in intergenerational mobility, one clear pattern is that countries with more intergenerational mobility also tend to have lower point-in-time income inequality. Figure 6-7 plots the relationship across 13 industrialized countries between the IGE of the earnings of fathers and sons as reported in Corak (2011)

⁴ One exception is that Jäntti et al. report a somewhat lower IGE (0.31) for the United Kingdom, below that of the United States but still well above those in Nordic countries. Following the literature, this discussion focuses on IGEs for men, because in many countries the inconsistent labor force participation of women complicates the estimation of their IGEs.

and the Gini coefficient of after-tax 1985 income as reported in the OECD statistical database. The Gini coefficient, shown along the horizontal axis of the figure, is a common measure of income inequality; higher values mean higher levels of income inequality. Higher IGEs along the vertical axis mean less intergenerational mobility. The United States appears in the upper right part of Figure 6-7, indicating both high inequality and low intergenerational mobility.

As other research has shown, the finding of a positive relationship between IGE and inequality—a relationship that Krueger (2012) has referred to as "the Great Gatsby Curve"—is robust to alternative choices of countries, intergenerational mobility measures, and year in which income inequality is measured (see, for example, Corak 2011; Andrews and Leigh 2009; OECD 2010). This robust relationship suggests that at least some of the same mechanisms that drive income inequality also drive intergenerational mobility. For example, a rise in the rate of return to schooling can be expected to lead to both a rise in point-in-time income inequality and a decline in intergenerational mobility because educational attainment is positively correlated across generations.

The educational system also may contribute to the pattern in Figure 6-7. Research has found a strong negative correlation between spending on public education and IGEs across countries (Ichino, Karabarounis, and

0.6 Italy 0.5 United Kingdom United States France 0.4 Spain Germany Japan 0.3 New Zealand Sweden 0.2 Canada Norway Finland Denmark 0.1 0.15 0.2 0.25 0.3 0.35 0.4 Gini coefficient (1985)

Figure 6-7
The Great Gatsby Curve: Inequality and Intergenerational Mobility
Intergenerational earnings elasticity

Source: Corak (2011) and OECD.

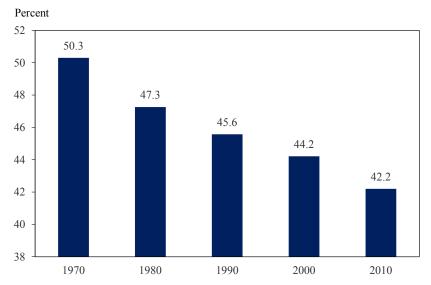
Moretti 2011). This pattern suggests that public investments in supporting children may help to reduce persistent inequality across generations. Similarly, the OECD has concluded that educational policies ranging from support for early childhood education to measures that support postsecondary education for students from low-income backgrounds can increase intergenerational income mobility (OECD 2010). As discussed later in this chapter, the Administration has taken multiple steps to improve the quality of education and to provide opportunities for all students to earn a postsecondary credential or degree.

Overall Trends in Income and Rising Inequality

Irrespective of the persistence in income across generations, the rungs on the ladder of the income distribution in the United States have moved farther apart, and income growth has been stagnant for the middle class for a decade.

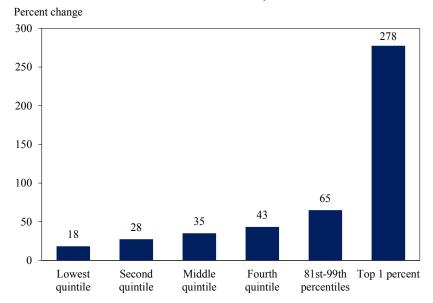
One indicator of the evolution of income over time is annual real median household income, which rose in the United States from the late 1960s through the late 1990s, was stagnant in the first part of the 2000s, and then, as is typical during recessions and their aftermath, fell between 2007 and 2010 (the last year for which data are available).

Figure 6-8
Percent of Households with Annual Income within 50 Percent of the Median



Source: Department of Labor, Bureau of Labor Statistics; CEA calculations.

Figure 6-9
Growth in Real After-Tax Income, 1979–2007



Source: Congressional Budget Office.

Rising income inequality is another major development in the United States economy (see, for example, Autor, Katz, and Kearney 2008; Card and DiNardo 2002; CEA 1997). Growing dispersion of household incomes, a manifestation of growing dispersion of earnings, means that fewer and fewer households have incomes in the middle band of the income distribution. This can be seen clearly in Figure 6-8. In 1970, just over 50 percent of households had incomes within 50 percent of the median; that share fell to just over 44 percent in 2000 and to just over 42 percent in 2010.

Another way to look at changes in the distribution of income is to examine the rates of income growth for households at different income levels. A report released by the Congressional Budget Office (CBO) in October 2011 examines real growth in after-tax (and transfer) household income from 1979 through 2007 across quintiles and the top 1 percent of the income distribution. Figure 6-9, reproducing information from the CBO report, provides stark evidence of the rise in inequality, showing that real after-tax incomes grew by just 18 percent over nearly 30 years for those in the bottom income quintile and rose only somewhat more rapidly for those in the middle 60 percent of the distribution, but grew by a stunning 278 percent for those in the top 1 percent of the distribution.

As a result of these divergent growth rates, increasingly more income has been concentrated at the top and less at the bottom of the income distribution. The CBO reports that the share of total after-tax household income

for the bottom four income quintiles was lower in 2007 than it was in 1979, and the share for those in the 81st to 99th percentiles was essentially flat. For the top 1 percent, however, the share more than doubled, from almost 8 percent in 1979 to 17 percent in 2007.

Piketty and Saez (2003, 2010), using data and definitions of income slightly different from the CBO report, focus on income inequality between those at various places in the very top of the distribution and the rest of the population. They find that the share of income prior to taxes and transfers excluding capital gains going to the earners in the 90–95th percentile of the distribution barely changed between 1979 and 2010 and that the share of income going to those in the 95–99th percentiles rose from almost 13 percent to about 16 percent. But the share of income going to the top 1 percent of earners rose from 8 percent in 1979 to 18 percent in 2007, the highest it had been since the Roaring Twenties, and it still stood at over 17 percent in 2010 (Figure 6-10).

Rising inequality has important implications in the context of low rates of intergenerational mobility. As incomes become more unequal, larger increases in household income are necessary for families to move from a lower part of the income distribution to a higher part—for example, from a level of household income that classifies a family as living in poverty to one that puts it in the middle of the distribution. Low rates of economic

Figure 6-10
Share of Total U.S. Income Earned by Top 1 Percent, 1913–2010
Percent of total U.S. income



Note: Total income includes wages and salaries (including bonuses and stock-option exercises), pensions, profits, farm income, dividends, interest, and rental income. Source: Piketty and Saez (2003, 2010); authors provided an estimate for 2010 based on partial returns.

mobility across generations imply that children born in poverty are more likely to remain in poverty as adults, while children born to higher-income parents are more likely to have higher incomes as adults. As long as income inequality is increasing, those adult children will find themselves even farther away from the middle class than their parents were. Perhaps even more worrisome, the Great Gatsby curve in Figure 6-7 suggests that a rise in inequality for the current generation of families could lead to a slowdown in economic mobility for the next generation.

The confluence of rising inequality and low economic mobility over the past three decades poses a real threat to the future of the United States as a land of opportunity. Social and economic mobility across generations are at risk of declining unless concerted efforts are devoted to providing more opportunities for those born into lower-income households.

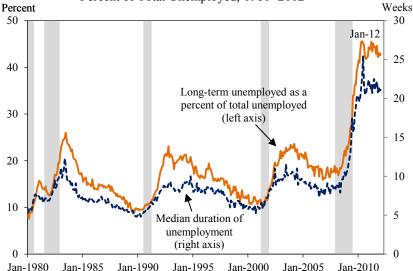
Long-Term Unemployment

The upheaval in the labor market brought on by the recession that started in late 2007 is primarily a cyclical phenomenon. A major challenge, especially given the long-term changes in the labor market that were underway even before the recession, is how to prevent these cyclical dislocations from having permanent effects on workers' prospects. This means that pathways for the long-term unemployed to return to the workforce are a particular priority The protracted high level of unemployment has led to large numbers of long-term unemployed workers—those who have been out of work for more than 26 weeks. Currently, 5.5 million workers—more than two-fifths of all unemployed individuals—have been jobless for more than 26 weeks, and over 1.8 million have been without a job for more than two years.

Historically, as depicted in Figure 6-11, the share of the unemployed that has been unemployed for more than 26 weeks has been quite cyclical, starting at a relatively low point right before a recession, growing thereafter, and usually peaking many months into the recovery before gradually declining. Another useful measure of unemployment duration is the median duration—the amount of time that the person in the middle of the distribution has spent unemployed to date. Typically, this measure has been similarly cyclical, and as a result of the 2007–09 recession it remains elevated at 21.1 weeks.

A long period of joblessness is obviously first and foremost a serious hardship for the individuals involved. The loss of income due to unemployment can wreak havoc on households' finances, often necessitating liquidation of savings. Households with unemployed members are more likely to fall behind on their bills and to suffer foreclosure or bankruptcy; foreclosures

Figure 6-11
Median Duration of Unemployment and Long-Term Unemployed as a
Percent of Total Unemployed, 1980–2012



Note: Shading denotes recession.

Source: Department of Labor, Bureau of Labor Statistics.

also can have adverse effects on the prices of neighboring homes. To help the long-term unemployed keep their homes, the Administration created a version of the Home Affordable Modification Program (HAMP) for the unemployed, called HAMP UP, in which unemployed homeowners were given a three month forbearance period on their mortgage payments. In July 2011, this forbearance period was extended to 12 months.

Income losses associated with job loss can persist even after reemployment. Recent research examined male workers age 50 or younger with at least three years of tenure who lost their jobs in mass layoffs (defined as employment decreases of at least 30 percent over two years at their place of employment) between 1980 and 2005. The researchers concluded that job displacement led to a loss of 1.7 years of earnings, on average, accumulated over 20 years. Moreover, job displacement led to an average accumulated earnings loss of 2.8 years if the job was lost when the unemployment rate was above 8 percent, but the earnings loss was only half as large—1.4 years—if the job was lost when the unemployment rate was below 6 percent (Davis and von Wachter 2011).

In addition to the mortgage forbearance program mentioned above, the Administration has supported the long-term unemployed by calling for extended unemployment compensation, which provides much-needed income to these workers and their families while the recipient searches for work. As explained in Chapter 7, continued extensions of the Emergency

Unemployment Compensation and Extended Benefits programs through 2012 are vital to those who remain unemployed. Additionally, the American Jobs Act proposal for extending unemployment benefits also included significant reforms to the unemployment insurance system designed to speed the return of benefit recipients to work.

As part of his Fiscal Year 2013 Budget, the President is proposing a \$12.5 billion Pathways Back to Work Fund to provide employment opportunities for vulnerable youth, low-income adults, and the long-term unemployed, and an expanded community college initiative to support state and community college partnerships with business to give workers the skills employers need. The President also is proposing to streamline training and employment services for dislocated workers, improving access to critical supports for getting the unemployed back into employment.

PREPARING FOR TOMORROW'S LABOR MARKET

Even as the Administration remains focused on strengthening and sustaining the recovery from the recession, the President continues to address the longer-term challenges in the structure of the American economy and labor market. To ensure that American workers are prepared to meet the evolving needs of employers, the Nation's education and training system must provide the workers of tomorrow with the skills they will need for the jobs of tomorrow. At the same time, jobs and workplaces also must evolve to enable workers to fulfill family and other nonwork responsibilities (Box 6-1). This section describes what the jobs of tomorrow are likely to look like, why educating workers is a cornerstone of economic opportunity and growth, and how the Administration's policies are working to prepare Americans for the jobs of tomorrow.

Education and the Workers of Tomorrow

The rise in wage and income inequality over recent decades is largely attributable to long-lasting structural changes in the U.S. economy. Among the changes are technological advances that have increased employer demand for a relatively more highly educated workforce, a slowdown in the expansion of educational attainment, and increased competition from overseas for many lower-paid jobs. Another is a decline in the share of the workforce covered by collective bargaining agreements and the decline in the real value of the minimum wage, both of which historically helped protect the wages of lower-paid workers.⁵

⁵ Extensive reviews of existing research can be found in Acemoglu and Autor (2011) and Autor and Katz (1999).

Box 6-1: Work-Life Balance in the Jobs of Tomorrow

American household life has changed dramatically over the past half century in ways that have caused many workers to face conflicts between their work and personal lives. Women are now the majority recipients of bachelor's and advanced degrees and compose nearly 50 percent of the workforce. Families rely increasingly on women's earnings to make ends meet. In addition to managing care of children, both men and women juggle elder caregiving responsibilities with work. In 2008, approximately 43.5 million Americans served as unpaid caregivers to a family member over the age of 50. Workplace flexibility is also important for older Americans themselves. In 2011, the first of the baby boomers turned age 65. Workplace flexibility policies, such as part-time work or job sharing, facilitate a phased retirement that helps older workers transition slowly out of the workforce, allowing them to take care of their health needs and maintain their economic security while moving toward retirement.

Workplace flexibility can be expanded by increasing workers' control over when, where, and how much they work. These goals can be achieved through a variety of different arrangements that allow workers to continue making productive contributions to the workforce while also attending to family and other responsibilities. Arrangements range from job sharing, to phased retirement of older workers, to telecommuting. Workplace flexibility policies not only help employees balance work and family responsibilities but also can improve employers' bottom lines.

As in all business decisions, the critical considerations for employers in adoption of flexible workplace policies are the benefits and costs. Almost one-third of firms cite costs or limited funds as obstacles to implementing workplace flexibility arrangements. On the benefit side, however, as documented in CEA (2010), these practices can reduce turnover and improve recruitment, increasing the productivity of an employer's workforce. Moreover, flexible workplace practices are associated with improved employee health and decreased absenteeism, a major cost for employers. The CEA study estimated that wholesale adoption of flexible workplace policies could save as much as \$15 billion a year through greater productivity, lower turnover, and reduced absenteeism. Should more firms adopt such practices, the benefits to society, in the form of reduced traffic, improved employment outcomes, and more efficient allocation of workers to employers, could be even greater than the gains to individual firms and workers (Galinsky et al. 2011).

Although the academic literature has identified numerous benefits from flexible workplace practices, along a variety of dimensions, the adoption rates for these practices differ across industries and employers of different sizes. Goldin and Katz (2011) explored the prevalence of flexible workplace arrangements across industries and found that, although these practices are gaining in popularity, some industries lag behind, in particular the business and financial sectors. Overall, the CEA study reported that more than half of employers report allowing some workers to periodically change their starting and quitting times. However, only 28 percent of full-time workers and 39 percent of part-time workers report actually having flexible work hours. Even if some employers offer more flexible workplace arrangements, there remains the concern that their employees may not be taking advantage of those arrangements because either, in the case of unpaid leave, they cannot afford to bring home a smaller paycheck, or, in the case of paid leave, they are afraid to take leave for fear of missing out on advancements or not being viewed as a "team player."

A lack of data has hindered deeper understanding of the benefits and costs of flexibility, as well as knowledge about who is taking advantage of that flexibility. The largest, most detailed source of data, a survey of employers, provides information on practices that is now three years old and does not contain information for the smallest firms. The only nationally representative data from workers are seven years old and provide little information on the prevalence of flexible practices. While the existing evidence has demonstrated a strong connection between flexibility and productivity, additional research exploring the mechanism through which flexibility influences worker's job satisfaction and firms' profits would better inform policymakers and managers alike. In the summer of 2012, the results of a module added to the American Time Use Survey will provide expanded information about workplace flexibility from the workers' perspective. The module asks survey respondents about their access to leave and flexible scheduling, how they use such policies to balance their work and personal responsibilities, and whether they fail to take advantage of existing policies because of a fear of negative consequences. These data will add to the existing knowledge base on workplace flexibility. Although the literature is small, the best available evidence suggests that adoption of more flexible practices can boost productivity, improve morale, and benefit the U.S. economy—all while strengthening families.

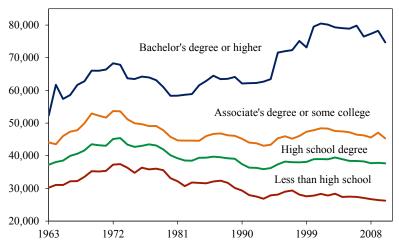
Because these structural changes have shifted demand toward a workforce with relatively more education, a substantial fraction of the overall increase in wage and income inequality is related to a growing divergence in earnings between those with more years of education and those with fewer years of education, as depicted in Figure 6-12.

For example, in 2010, workers with a bachelor's degree or higher earned nearly twice as much as those with a high school degree, a premium that has risen since 1980, when college graduates earned 45 percent more than high school graduates. In fact, even long before the most recent recession, the average real annual earnings of those with a high school degree or less fell below the levels of the 1970s.

One important way to help stem the tide of rising inequality, and potentially to ameliorate the effects of low intergenerational economic mobility, is to increase the number of workers who obtain postsecondary education and earn higher wages as a result. For this reason, President Obama has set the ambitious goal of returning the United States, by 2020, to the world's top spot in the share of 25- to 34-year-olds with a college degree.

Increasing the number of workers who obtain postsecondary education is also vital for meeting the changing skill needs of firms. The BLS Employment Projections Program produces forecasts of employment by industry, occupation, and education on an approximately biennial basis. The industry employment forecasts are based on incorporating projections of the size of the labor force into a model of output growth across U.S. industries. These detailed industry employment forecasts are then mapped into projections of employment growth by occupation, and then into forecasts of growth in employment by education group. Beginning with the newly released projections for 2010-20, the BLS is projecting employment growth by education group by assigning to each occupation the typical level of formal education needed to enter the occupation, and then aggregating by education group the projected employment growth in the occupations requiring that level of education. As shown in Figure 6-13, the BLS projects that in the coming years, jobs requiring education beyond a high school degree will grow by more than the average, while occupations requiring at most a high school diploma will grow by less than the average. For example, between 2010 and 2020, employment in jobs that require an associate's degree is projected to grow by 18.0 percent, 3.7 percentage points more than the average projected employment growth of 14.3 percent. Much of the divergence in employment growth across education groups is driven by the projected growth of sectors such as health care and education that intensively utilize workers in occupations that typically require education beyond a high school diploma.

Figure 6-12
Average Annual Earnings by Worker Education Level, 1963–2010
Dollars (2010)

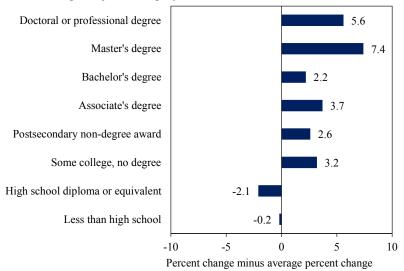


Note: The sample includes workers aged 25–65 who worked at least 35 hours a week and for at least 50 weeks in the calendar year. Before 1992, education groups are defined based on the highest grade of school or year of college completed. Beginning in 1992, groups are defined based on the highest degree or diploma earned. Earnings are deflated using the CPI-U. Calculations are based on survey data collected in March of each year and reflect average wage and salary income for the previous calendar year.

Source: CEA calculations using March Current Population Survey

Information that tracks the changing skill needs of firms can help Americans make informed career decisions. In addition to the statistics published by the BLS on existing and projected jobs by industry, occupation, and education, the potential exists to harness new data sources to gain a deeper understanding of what skills are in high demand. For example, the more than 50 million U.S.-based members of LinkedIn, an online professional networking company, typically provide to LinkedIn their job titles and the companies they work for, and upon joining, many members also provide information on their past work history. LinkedIn classifies members' jobs by industry and occupation, often at a more detailed level than is available in government statistics. The resulting information can be used to track changes over time in the industries and occupations in which LinkedIn's members work and to identify emerging sectors and job titles. LinkedIn's members are not a nationally representative sample of the U.S. workforce, but because they tend to work in sectors of the economy that require higher levels of education, the information embodied in the changing distribution of the industries and occupations in which members are employed has the potential to inform the decisions of individuals considering specific educational and career paths.

Figure 6-13 Difference Between Projected Employment Growth Rate by Education and Average Projected Employment Growth Rate, 2010-2020



Source: Department of Labor, Bureau of Labor Statistics.

LinkedIn has produced initial tabulations from among its U.S. members of the growth rate of employment in industries and occupations since 2007. These tabulations are for a longitudinal sample of individuals, based on aggregated historical data from their resumes and other information that they provide, LinkedIn reports that two of the fastest-growing industries among their members between 2007 and 2011 were the Internet and oil and energy; two of the fastest-shrinking industries were newspapers and construction. Among the fastest-growing occupations were social media (including jobs titles such as social media manager, social media marketing manager, and social media specialist) and digital technology (including digital producer, digital product manager, digital strategist, and digital sales manager); LinkedIn reports that teachers and middle-management positions were among the shrinking occupations.

One of the main drivers of the increasing relative demand for workers with more education and training is the continuing shift toward using machines or computers to perform the routine tasks once done by workers. Although the BLS, assuming a continuation of these trends, projects that the number of manufacturing jobs will decline between 2010 and 2020, the U.S. manufacturing sector has added more than 400,000 net new jobs since the beginning of 2010, the first sustained job growth in manufacturing since the late 1990s.

Some of the recent growth in manufacturing jobs is the direct result of firms that are choosing to produce goods in the United States rather than using overseas labor. The Administration is supporting this "insourcing" with new tax proposals that eliminate tax advantages for moving jobs overseas and reward companies that choose to invest in or bring jobs back to the United States. In addition, the President has proposed measures to revitalize the manufacturing sector. These measures include initiatives to help develop and produce advanced technologies, ensuring clean energy technologies that will fuel the 21st century economy are built in the United States; funding to help catalyze partnerships between universities and industries to develop new technologies for manufacturing products and processes; the creation of a new Interagency Trade Enforcement Center to challenge unfair trading practices; and tax incentives to promote job growth in communities hard-hit by factory closings.

Increasing Educational Attainment

To prepare for the jobs of tomorrow, it is essential to invest in the American workforce and to increase the number of young people who attain a college degree. Meeting the President's college completion goal for 25- to 34-year-olds requires investments in early, primary, and secondary education to increase the number of students who are college-ready when they graduate from high school. Meeting the goal also requires policies and programs that make college more affordable and accessible.

Teachers in the Nation's public schools are crucial to preparing children for the jobs of tomorrow. During the depths of the recession, however, many State and local governments were forced to make cuts, resulting in the loss of more than 200,000 education jobs over the past three years. Had it not been for the combined \$40 billion in targeted assistance through the Recovery Act's State Fiscal Stabilization Fund and the Education Jobs Fund, the cuts would have been worse: these programs provided the resources to support 420,000 teacher job-years. Given the continued need to prevent teacher layoffs and to rehire many of the teachers who lost their jobs during the recession, the President's FY 2013 Budget proposes a \$25 billion teacher stabilization fund.

The Administration also has made improving the quality of education a priority and has taken an innovative approach, using grant competitions and evaluations to fund promising practices and learn more about what works, from early childhood education through high school. A key part of this effort has been Race to the Top grants, established as part of the Recovery Act. Competitive grants have been awarded to states to undertake innovative reform in four areas of K–12 education: implementing rigorous

standards and assessments; using data to improve instruction and decisionmaking; recruiting and retaining effective teachers and principals; and turning around the lowest-performing schools. Race to the Top grants have catalyzed widespread reform even in states that did not win an award.

In 2011, Race to the Top funds were also used for Early Learning Challenge grants to promote evidence-based evaluation of programs, develop strategies for families and parents to assess the quality of early learning programs, and create age-appropriate curricula and assessment systems. The Early Learning Challenge fund announced nine state grant winners in December 2011. As with the K-12 Race to the Top competition, although not all proposals were funded, the framework of providing competitive grants to states to formulate their own solutions focused local conversations on education reform. The Early Learning Challenge grants complement the Administration's major investments in improving a cornerstone of early childhood education, the Head Start and Early Head Start programs, by increasing funding by \$2.1 billion in two years through the Recovery Act, by nearly doubling the number of children and families served by Early Head Start, and by taking key steps to increase Head Start Center program quality and accountability. Notably, the Department of Health and Human Services has begun implementing new regulations that, for the first time, require current grantees that do not meet quality benchmarks to compete for continued funding.

In addition to Race to the Top, the Administration has funded other important innovations in education. The Investing in Innovation Fund supports projects in K-12 education that test, validate, and scale up promising strategies and interventions that raise overall student achievement, close the achievement gap, and improve outcomes for high-need students. The Promise Neighborhoods initiative supports cradle-to-career wraparound services to improve educational outcomes for students in distressed highpoverty neighborhoods. The President's 2012 State of the Union Address challenged all states to do what 21 states have already done: require all students to graduate from high school or stay in school until age 18. Raising the compulsory schooling age increases average educational attainment and, for those induced to stay in school longer, leads to higher earnings when those students become adults. In view of the positive externalities from schooling, economists Milton and Rose Friedman wrote, "What kind of governmental action is justified...? The most obvious is to require that each child receive a minimum amount of schooling of a specified kind" (Friedman and Friedman 1962).

The President has committed to continued investments in America's education system. Beyond making investments to help all students prepare

for college, the Administration is working to make college affordable for American families. In recent years, published college tuitions have risen sharply, posing a threat to the Nation's growing need for workers with college-level skills. The Administration has made college accessibility and affordability a top priority. Through the Recovery Act and the Health Care and Education Reconciliation Act passed in 2010, the Administration raised the maximum Pell Grant award from \$4,731 in 2008 to \$5,550 in 2010, and the FY 2013 Budget calls for the maximum to increase to \$5,635 for the 2013–14 school year. Some 8.1 million college students received an average of \$3,700 in Pell Grants in 2009–10. These figures are up sharply from the year before President Obama took office, when 5.5 million college students received an average of \$2,650 apiece in Pell aid, and the President remains committed to protecting these historic increases in Pell Grant awards.

In addition, the American Opportunity Tax Credit (AOTC), established through the Recovery Act, provides up to \$2,500 a year for college tuition and related expenses for American families. Compared with the Hope Scholarship that it largely replaces, the AOTC offers a higher maximum benefit; can be claimed for up to four, rather than only two, years of undergraduate education; has a higher income eligibility cutoff, making the credit available to more middle-class families; and is partially refundable, thereby also reaching lower-income families. This credit is estimated to have benefited 9.4 million students and their families in 2011. In December 2010, the President signed an extension of the AOTC through the end of 2012, and his FY 2013 Budget request proposes to make the AOTC permanent.

Data from the College Board (2011) demonstrate the effectiveness of these Administration initiatives to keep college affordable (see also CEA 2011). The estimated average net price for full-time students attending public four-year institutions increased by only about \$60 between 2007–08 and 2011–12, and the estimated average net price for full-time students attending public two-year and private nonprofit four-year institutions actually fell.

To build on the successes of Pell expansions and the AOTC as well as lessons from K–12 education reform, the President has proposed a Race to the Top for College Completion and Affordability to make public colleges more affordable and a better value and to drive reforms that will help more students complete their degrees on time. The FY 2013 Budget also proposes reforms to the distribution of campus based-aid to reward colleges that are serving low-income students, setting tuitions responsibly, and offering a quality education that prepares students to obtain employment and repay their loans. Finally, the Budget proposes a new First in the World Fund that introduces an evidence-based framework, modeled after the Investing in Innovation initiative, to develop, validate, and scale up effective approaches

in higher education. (For a discussion of financing the cost of college, see Economics Applications Box 6-1.)

Federally Supported Job Training

The education of workers does not end when they complete formal schooling and enter the labor market. As the economy evolves, workers often need to develop new skills to meet the changing demands of firms. In many cases, firms partner with their workers to help them acquire new skills, but for workers who have lost their jobs or are seeking to change fields or careers, this option may not be available. Providing such workers with opportunities for training is especially important in today's economy given the continued high rates of unemployment that are the direct result of the recession, and it will remain important in ensuring a skilled workforce well into the future.

The Federal Government funds two main training programs for adults-the Trade Adjustment Assistance (TAA) program and the Workforce Investment Act (WIA) formula grant program. The WIA Adult and Dislocated Programs have by far the largest reach, serving 8.6 million participants in 2010 (the most recent year for which data are available) at a total annual cost of \$3.8 billion.6 Created in 1998, the WIA system provides reemployment and training services to adults who are economically disadvantaged and to workers who have been displaced from their jobs. Importantly, WIA moved the design and management of job training programs to the local level by creating "one-stop" employment centers where job seekers can access all employment services of the Department of Labor. WIA provides both short-term services, including job search assistance and basic skills assessments, and longer-term services that involve more substantial career counseling as well as training services. Program participants work with a case worker to choose the menu of services that best meets their needs, although limited funds mean not all participants have access to all services deemed appropriate. Research suggests that the average WIA participant benefits from the program, although the quality of the services provided is somewhat uneven. One recent study found that, on average, WIA training programs for adults boosted employment and earnings, although there was substantial variation across states and across participants depending on which WIA program they were in and what kind of services they received (Heinrich, Mueser, and Troske 2008). Growing evidence from studies of state programs, particularly studies that track participants for a longer

⁶ Other smaller programs serving many fewer participants include the Employment Services Program and the Adult Basic Education Program. In addition, WIA also has a small program that serves economically disadvantaged youth.

Economics Application Box 6-1: Calculating the Cost of College

The decision to attend college is one of life's most important decisions. Individuals with a college degree earn substantially more throughout their working lives than otherwise similar non-degree holders, on average, but the dollar costs of college can be high and many students accumulate substantial debt. In addition, there is an "opportunity cost" of college—students are unable to work for pay while performing school-related tasks.

One key piece of information that a prospective student should have is the actual dollar price of college that the student is likely to pay. The published costs of a year of college do not tell the full story. Many students receive Federal assistance, and individual colleges and universities often have their own need-based aid programs, as well as merit scholarships.

The Department of Education has two particularly useful tools for prospective college students who would like to understand better what they are likely to pay in tuition, room and board, expenses, and fees. While the exact financial aid available to any particular student depends on a number of factors including household size, household income, and asset net worth, the Department of Education's FAFSA4caster (http://fafsa4caster.ed.gov/) can help students learn how much aid might be available. Using the College Navigator tool (https://nces.ed.gov/collegenavigator/), a prospective college student can learn how Federal, state and local, and institutional aid affect net prices at specific colleges.

A menu-driven format allows a prospective student to select a college or set of colleges (say, by geography or type of degree) and discover the average net price paid by students of various income levels at each college on the prospective student's list. The average net prices across schools can vary widely and can deviate substantially from the published costs. For example, information from the College Calculator shows that, for households with income between \$48,000 and \$75,000, the average annual cost of attending one of the top ten national universities (as ranked by U.S. News and World Report) in 2009-10 was \$52,796. The average net price for those who received aid at one of those institutions, however, was a substantially lower \$9,340. Meanwhile, large state schools with much lower published costs than the private universities can have higher net costs. For households in the \$48,000-\$75,000 income range that received aid, the average annual net cost (including the costs of living on campus) in 2009-10 at the top ten largest public universities was \$13,486.

period of time, shows that training for adults can have large positive effects on earnings. Combining classroom learning with more hands-on training usually has led to the largest and most lasting impacts (Hotz, Imbens, and Klerman 2006; Dyke et al. 2006).

The Trade Adjustment Assistance program was established in 1963 and has undergone numerous changes since its inception, but its basic purpose remains to provide training to workers displaced as the result of foreign competition. Eligible workers receive the same kinds of reemployment and training services offered to WIA participants, but more generous funding allows them to receive training for a longer period of time. Moreover, TAA provides income supplements to regular unemployment insurance benefits as well as an allowance for relocation. If the displaced worker is over 50 years old and finds a new job paying less than \$50,000 a year, TAA also provides the worker the option to receive wage insurance in the amount of half the difference between his or her old and new wage (up to a cap of \$10,000) for up to two years.

Recognizing the importance of job training to American workers and their families, the President has proposed a major initiative to provide workers with the tools and skills they need to find new jobs—by forging new partnerships between community colleges and businesses to train 2 million skilled workers and by streamlining access to training and employment services for dislocated workers.

The current system does not treat all workers who were dislocated because of economic shifts equally. As noted above, workers in tradeimpacted industries are eligible for extensive income support, training, and reemployment services under the TAA, while those who lose their jobs for other reasons receive less generous assistance. In this increasingly global economy, it is difficult to distinguish between trade, technology, outsourcing, consumer trends, and other economic shifts that cause displacement. The President believes that dislocated workers should be able to access a single program, visit a single location or go to a single web site to find information about and assistance with job and training opportunities in their community. Ensuring that displaced workers have the information and training they need to successfully return to work is important not only for those who have lost their jobs as a result of the 2007-09 recession, but also for those who will be in need of these services in the future.

Conclusion

The 2007–09 recession severely disrupted a labor market that was already under stress from decades of rising inequality, stagnant middle-class incomes, and weak job growth in the 2001–07 recovery period. The job market has been recovering gradually since the end of the recession, and the Administration continues to make strengthening and sustaining the recovery in the job market a top priority. The policies proposed by the Administration will promote continued economic growth and job creation by supporting aggregate demand through an extension of the 2 percentage point payroll tax cut, the continuation of extended unemployment insurance benefits, investments in infrastructure, and assistance to states and localities to retain school teachers and first responders. Investments in expanded reemployment services and training for low-skilled and displaced workers will help get Americans back to work. And the President's proposals to invest in elementary and secondary education and to make college more affordable will lay the foundation for a stronger economy in the future.



CHAPTER 7

PRESERVING AND MODERNIZING THE SAFETY NET

Today's dynamic, global economy, driven by rapid technological change, offers abundant benefits and opportunities—but also entails many risks. The Great Recession has made clearer than ever that a strong and flexible economy requires a robust safety net to protect families against major risks and to reduce the likelihood that temporary economic shocks will inflict permanent harm on families and the economy.

In the first weeks after President Obama was inaugurated, the President and the Congress enacted policies to expand and strengthen the safety net in response to the ongoing economic crisis. The American Recovery and Reinvestment Act of 2009 (the Recovery Act) provided increased funding for a number of key safety net programs, including unemployment insurance (UI), Temporary Assistance for Needy Families (TANF), Medicaid, and the Earned Income Tax Credit (EITC). These and other safety net programs have been critical in cushioning American families from the effects of the Great Recession and in stabilizing the economy by supporting aggregate demand.

One way to gauge the impact of the safety net is to consider the number of American families that would have been in poverty were it not for the support provided by specific programs. These effects are significant. In 2010, the official poverty rate was 15.1 percent, which translates to roughly 46 million people living in poverty. According to U.S. Census Bureau estimates, were it not for unemployment insurance benefits, 3.2 million more Americans would have been in poverty in 2010. This figure includes about 2.3 million nonelderly adults, 900,000 children, and 100,000 adults age 65 and older. Among families participating in the program, the receipt of UI benefits has the effect of cutting the poverty rate roughly in half (Gabe and Whittaker 2011).

Data Watch 7-1: The Census Bureau's Supplemental Poverty Measure

The official poverty measure was developed in the 1960s. According to this measure, a family is considered to be poor if its before-tax income falls below a "poverty line" that varies according to family size and composition.

In 2011, the Census Bureau released an alternative to the official poverty measure that presents a more complete picture of poverty and of the effects of policies to support low-income families. This Supplemental Poverty Measure (SPM), developed early in the Obama Administration, is based on an approach recommended in 1995 by the National Academy of Sciences. Like the official poverty measure, the supplemental measure compares the resources available to a household with a threshold level of income that takes into account household composition. It differs from the official measure, however, both in how it calculates resources and in how it sets the thresholds. The supplemental measure adds in-kind assistance such as nutritional assistance and subsidized housing to household resources and subtracts necessary expenses such as taxes, child care, and other work-related expenses, as well as medical out-of-pocket costs. Its thresholds are calculated differently than those for the official poverty line, and they reflect geographic differences in housing costs.

Overall, 16.0 percent of all Americans were estimated to be in poverty in 2010 according to the supplemental measure, compared with 15.2 percent using the official methodology.^a Differences between the two measures vary across demographic groups. For example, because they disproportionately benefit from programs like the Earned Income Tax Credit (EITC) and the Supplemental Nutrition Assistance Program (SNAP), children are more likely to be in poverty according to the official measure, which does not account for support from these programs. By contrast, the poverty rate for elderly Americans is higher according to the supplemental measure, since unlike the official measure, it subtracts out-of-pocket medical expenses from income.

The supplemental poverty measure allows researchers to isolate more accurately the effects of a specific policy, source of income, or category of expense on the prevalence of poverty. Among the programs studied by the Census Bureau, the EITC has the largest antipoverty effect; according to the supplemental measure, in the absence of the tax credit, an additional 6.1 million people would have been in poverty in 2010. Accounting for medical out-of-pocket expenses in the supplemental measure, on the other hand, moved 10 million individuals into poverty in 2010.

^a This official estimate differs from the usual published rate (of 15.1 percent) as unrelated individuals under 15 years of age are included in the universe.

The official definition of poverty does not account for the effect of taxes paid and tax credits, such as the Earned Income Tax Credit. Nor does it incorporate the value of in-kind benefits. As a result, the official measure does not reflect the benefit that American families receive from the EITC or important safety net programs, such as the Supplemental Nutrition Assistance Program (SNAP), on the official poverty rate. However, such a calculation is possible using an alternative measure of poverty, known as the Supplemental Poverty Measure (Data Watch 7-1). Using the supplemental measure, the Census Bureau estimated that in the absence of the EITC another 6.1 million Americans, nearly half of them children, would have been in poverty in 2010. In that same year, SNAP benefits lifted 2.9 million adults and 2.2 million children out of poverty. Considered all together, it is estimated that the social insurance and means-tested transfer programs that make up the safety net reduce the number of Americans falling below the poverty line by more than half (Ziliak 2011).

Safety net programs can improve economic efficiency by supplementing private markets if they fail to provide adequate insurance against major economic risks. A fundamental market failure common to both insurance and annuity markets is adverse selection, which arises when consumers know more than insurers about their own risk—their expected medical claims, their likelihood of becoming unemployed, or their expected longevity (Rothschild and Stiglitz 1976). If insurance or annuity contracts are priced according to the average risk in a population, coverage will be attractive to those who know that they are at high risk and unattractive to those who know that they are at low risk. To the extent that high-risk consumers are more likely to purchase insurance, the cost of coverage will rise, which in turn will make coverage even less attractive to their low-risk counterparts. The gravity of the adverse selection problem will vary across types of insurance and, for a given type, across market segments. Some types of insurance, such as unemployment insurance, have virtually no private market. Private health insurance and annuity markets exist, though not without substantial support from tax and regulatory policies; even with this support, coverage remains costly and incomplete.

In addition to addressing specific types of market failure, a strong safety net can promote growth and entrepreneurship. By providing a basic level of security, well-designed safety net programs help create an environment that encourages people to engage in value-creating activities such as changing jobs or starting a new business. A strong safety net is especially important in a global economy in which international trade and financial integration can bring both substantial benefits and increased risk. Robust cross-country evidence finds that economies that have stronger safety nets also tend to pursue more efficient economic policies (Rodrik 1998). Safety net programs also protect workers and their families from the labor market disruptions that can arise from technological change and other sources of fluctuation in demand. Finally, safety net programs can be an important component of automatic stabilizers-providing expansions in aggregate demand that help counteract the weakening of the economy during economic downturns.

An effective and efficient safety net must adapt and evolve in response to changes in technology and economic conditions. This chapter provides an overview of the key components of the safety net in the United States, emphasizing recent policy developments and proposals to keep the nation's safety net strong.

UNEMPLOYMENT INSURANCE

Unemployment insurance has long been an essential component of the safety net for workers who have lost a job through no fault of their own. In the recent period of high unemployment, the basic UI program and emergency extensions have provided critical support for millions of American families. In 2010, almost 10 percent of households received UI benefits—and that share is expected to fall back toward the pre-recession average of about 4 percent as the economy recovers.

Unemployment insurance is a joint Federal-state program that covers nearly all civilian workers. During normal economic times, workers and employers contribute to state systems that pay benefits to unemployed workers for up to 26 weeks. During periods of high unemployment, extended benefits (EB) are available to workers who have exhausted regular UI benefits, with the costs normally shared between the Federal Government and states. Benefits are determined as a function of past wages, up to a cap. Although key program parameters vary across states, on average UI benefits replace roughly half of a recipient's lost earnings. In 2011, the average weekly benefit was roughly \$300.

Historically the Federal Government has funded benefits for extended periods while the economy recovers from a serious downturn. It did so once during the 1950s, once during the 1960s, twice during the 1970s, and once each during the early 1980s, the 1990s, and the early 2000s. In each instance since the 1970s, extended benefits have been reauthorized, usually multiple times, in reaction to continued weakness in the labor market. In June 2008, Congress enacted the Emergency Unemployment Compensation (EUC) Program that added 13 weeks of Federally funded UI benefits. As the labor market continued to deteriorate, Congress extended the program

for workers in the hardest-hit states several times. In addition, starting in February 2009, Congress provided full Federal funding of extended jobless benefits. Together these policies allow workers in high-unemployment states to qualify for up to 99 weeks of benefits.

The Economics of Unemployment Insurance

Unemployment insurance benefits enable workers to minimize disruptions in spending caused by unanticipated income shocks (Baily 1978). Economic research indicates that this consumption-smoothing effect is important. According to one study, in the absence of UI, a typical family whose household head becomes unemployed lowers spending on food by 22 percent, while a family receiving UI benefits spends only 7 percent less on food (Gruber 1997). In addition to helping families whose income has been reduced due to job loss, by providing income to families that they can spend, UI benefits mitigate the impact of the recession on the broader economy.

These benefits must be weighed against the cost of longer spells of unemployment potentially induced by the availability of UI-although in the current environment, any effect on spell length is likely to be comparatively small. Theoretical models of labor supply and job search predict that unemployed workers covered by more generous UI systems can take longer to find a new job (see, for example, Mortensen 1977). More recent work has shown that it is important to distinguish among reasons why UI increases the duration of unemployment. Traditionally, economists have interpreted the relationship between UI and duration in the context of a worker's choice between work and leisure, assuming that UI reduces the effort devoted to job search. An alternative view, given that a large fraction of unemployed workers have limited assets, is that UI benefits allow workers to meet their basic needs while they search for a job that is a good match for their talents (Chetty 2008). Better matches generally translate to higher wages (leading to higher tax revenues), increased job satisfaction, and greater employment stability (which reduces employers' hiring costs).

The empirical research literature on the relationship between UI benefits and unemployment duration is sizable. Recent research suggests that UI benefits have small effects on unemployment duration even when the economy is strong (Card and Levine 2000). In periods of high unemployment, the consumption-smoothing benefit of UI will be especially valuable to workers, and any negative effects on worker search effort will be less important because of the scarcity of jobs (Kroft and Notowidigdo 2011; Schmieder, von Wachter, and Bender 2012). Consistent with this premise, research suggests that the recent expansion of extended and emergency benefits has had a minimal effect on the duration of unemployment spells and the unemployment rate (Farber and Valletta 2011; Rothstein 2011; Daly et al. 2012). Moreover, to the extent that the extension of benefits has affected the measured unemployment rate, it has done so not by reducing the probability that unemployed workers look for and find jobs, but by reducing the number of unemployed workers who have given up on searching for a new job (Rothstein 2011). This finding is important in light of evidence suggesting that during periods of high unemployment, many older workers who exhaust their UI benefits end up applying for Social Security Disability Insurance (Rutledge 2011).

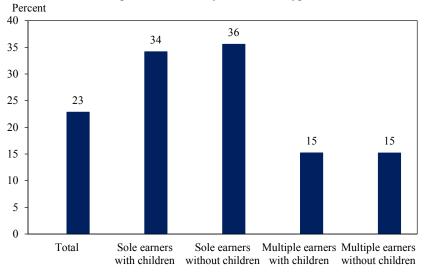
Recent Trends in UI Receipt and Its Effect on Household Income

The share of households receiving UI rose from 4.1 percent in 2007 to 9.6 percent in 2010. Over the same period, the average annual amount received by households benefiting from UI rose from \$4,400 to \$8,340, mainly because of longer duration of benefit receipt but also because of the extra \$25 in weekly benefits provided through FY 2010 by the Recovery Act. This money was crucial to keeping many families in their homes and able to pay other household expenses. As noted, UI lifts millions of families out of poverty. However, because a large share of benefits flows to middle-income workers, these antipoverty effects understate the economic impact of the program on participants. Households that received UI benefits in 2010 had a median income of \$55,000 the previous year, which is only slightly less than the median income of working households that did not receive UI. Among all recipients, UI payments represented 23 percent of household income in 2010. The share of income represented by UI ranged from 15 percent for multiple-earner households without children to almost 36 percent for households with a single worker and no children (Figure 7-1).1

In addition to providing income insurance to families of unemployed workers, the UI system helps the economy as a whole (Auerbach and Feenberg 2000). Unemployment insurance is an automatic stabilizer that leans against the negative cycle of increased unemployment leading to reduced consumption, which leads to a further decline in economic activity. Since unemployed workers tend to spend rather than save their benefits, the impact on aggregate demand is fairly immediate. Because of the way that the emergency and extended benefits programs increase economic activity, they generate partially offsetting income and payroll tax revenues for the Federal Government and help state and local budgets by increasing sales tax revenues. In addition, without the income support provided by these

¹ Because previous research suggests that recipients tend to understate the amount of unemployment benefits they receive (Meyer, Mok, and Sullivan 2009), these figures can be seen as lower-bound estimates of the effect of UI on household income.

Figure 7-1 Share of Household Income from Unemployment Insurance among Recipients in 2010, by Household Type



Source: Current Population Survey, Annual Social and Economic Supplement.

programs, more families would draw on other public programs. For these reasons, the Congressional Budget Office notes that extending UI benefits is the most timely and cost-effective policy for increasing economic activity and employment (CBO 2011).

Policy Innovations

The U.S. unemployment insurance system dates to the Great Depression of the 1930s. Originally, most covered workers were employed in manufacturing. At its inception, the UI system allowed for income smoothing for workers who would ultimately return to their old job or one like it. Research based on data from the early 1980s suggests that at that time 60 percent of UI spells ended with the worker being recalled to his or her original job (Corson and Nicholson 1983; Katz and Meyer 1991). Today, temporary layoffs are less common; increasingly, workers receiving UI benefits have been dislocated as the result of structural changes in the economy and must find a new industry or occupation. In many cases, wages in the new jobs these workers find are significantly lower than their former wages. Thus, workers today need income support while they are searching for a new job, but they also need training, job search support, and other assistance to help ease what can be a difficult transition.

The first step to modernize the unemployment insurance program was taken in the UI Modernization Act, a part of the Recovery Act. The UI Modernization Act made \$7 billion available to states that made reforms to their UI programs. States could receive a part of the incentive payment for using the most recent quarter as a part of the base period of earnings on which UI eligibility and benefit amounts are determined. This made it more likely that recent labor market entrants would meet the minimum earnings threshold for UI eligibility. States could receive the other part of their apportioned payment by adopting two of the following policies: allowing workers who were employed part-time previously to continue receiving UI while looking for part-time work, providing UI benefits to those who left their jobs for certain compelling family reasons, allowing workers to continue receiving UI for an additional six months if in an approved training program, and providing additional benefits for households with more dependents. These small incentive payments resulted in 36 states changing their UI laws.

Building on these reforms, in the American Jobs Act the President called for further steps to improve the unemployment insurance program and expand reemployment services and job training, and has made these reforms a part of the FY 2013 Budget proposal. Although most UI policy innovations target workers who have already lost their jobs, another important policy goal is to reduce the number of workers who are laid off in the first place. One promising initiative is work-sharing. Under a work-sharing arrangement, workers whose hours are reduced in lieu of temporary layoffs receive partial UI benefits while remaining on the job and keeping their skills sharp. By allowing employers to retain skilled workers at reduced hours rather than laying them off, work-sharing makes it easier and less costly for employers to scale up production when orders increase. Twenty-four states now have work-sharing programs, and in the American Jobs Act, President Obama proposed incentives to help expand the program to more states.

Workers who have been laid off need help finding a new job. The American Jobs Act included the Reemployment NOW program, a set of reforms to help UI claimants get back to work more quickly. The FY 2013 Budget continues this support. As a part of this initiative, the Administration has proposed requiring states to provide reemployment services, such as career and job search counseling, skills assessments, and assistance in identifying helpful resources to EUC recipients to speed their return to work. Face-to-face contacts also provide an opportunity to assess recipients' eligibility for UI benefits. Research suggests that these services can lower program costs by reducing spells of UI receipt and eliminating payments to ineligible individuals (Black et al. 2003).

Because entrepreneurship is key to a dynamic economy, a modern UI system should make it easier for displaced workers to start their own businesses. The Administration has proposed allowing states to use Reemployment NOW funds to expand Self-Employment Assistance programs that pay UI benefits to recipients who are working full-time to establish a new business. Seven states already permit a similar use of unemployment insurance benefits. Under this program, entrepreneurship training would be facilitated through One-Stop Centers in collaboration with the Small Business Administration. A demonstration project, Growing America Through Entrepreneurship (Project GATE), provided training and one-onone counseling to anyone interested in creating, sustaining, or expanding a small business. A recent study found that GATE had a positive effect on new business starts for unemployed participants and higher total earnings after five years than a comparison group (Michaelides and Benus 2010).

For jobless workers seeking to change occupations, lack of experience can be a significant barrier. With Reemployment NOW funds, states could experiment with Bridge to Work programs, which would allow EUC recipients to get short-term work-based experience that helps them maintain or enhance their skills. Under this program, private employers would be able to take on EUC recipients for up to 38 hours a week for a trial period of up to eight weeks with the workers receiving compensation through the EUC program. In addition, all program participants would be covered by workers' compensation and be guaranteed at least the minimum wage.

Finally, to support state creativity and flexibility, upon approval of the Secretary of Labor, states would be permitted to use Reemployment NOW funds to implement their own innovative strategies for connecting the longterm unemployed to employment opportunities.

In addition to these efforts that build upon the existing Federallyfinanced unemployment compensation system to help with getting the long-term unemployed back to work, the President's Budget includes other important and complementary initiatives that will contribute to the goal of ensuring that every American who wants a job can find one. As discussed in Chapter 6, these initiatives include streamlining training and employment services so that job seekers can visit a single location or go to a single web site to find the help they need; providing a universal core set of services to serve all dislocated workers; and introducing a new Pathways Back to Work fund to support employment opportunities for low-income youth, low-income adults and the long-term unemployed.

OTHER SAFETY NET PROGRAMS

Several means-tested programs also provide support to American families, especially those who have experienced adverse economic shocks. Table 7-1 reports the number of participants and Federal cost of several important programs. One of the largest Federal programs targeted at lowincome families is the Earned Income Tax Credit, a refundable tax credit for low-income workers. The assistance is available only to those with earnings, and the amount of the credit increases with a worker's earned income up to a maximum level and then phases out at higher income levels. The maximum benefit amount increases with the number of children in the family, and the income level at which the credit begins to phase out differs according to taxpayer filing status (single or married couple filing jointly). As part of the Recovery Act, Congress created a new category with a higher credit for taxpayers with three or more children, providing those families as much as \$600 extra, and increased the income level at which the credit phases out for married couples filing jointly by \$3,000 over 2008 levels. The Tax Relief and Job Creation Act of 2010 extended these changes through 2012. Over 26 million working families and individuals received the EITC on their 2010 tax return, with the average claimant receiving \$2,220.

The benefits of the EITC go beyond the amount of the credit received. Studies have found that the EITC increases participation in the labor market (Eissa and Liebman 1996; Meyer and Rosenbaum 2000), improves maternal health outcomes (Evans and Garthwaite 2010) and helps low-income individuals acquire additional experience that contributes to higher earnings growth (Dahl, DeLeire, and Schwabish 2009).

The Supplemental Nutrition Assistance Program (SNAP) is another critical safety net program targeted at low-income families. SNAP benefits are funded by the Federal Government and administered by states. Families and individuals qualify if their income and assets are sufficiently low. Participants usually receive their benefits on electronic benefit transfer cards that can be used only to purchase food. Nondisabled adults who have no dependents and who are not working or participating in a work training program can usually receive SNAP benefits only for three months over a three-year period.

Roughly half of all SNAP participants were children, and more than three-quarters of all participant households included a child, an elderly person, or a disabled nonelderly person. Roughly a quarter of all children participated. In FY 2010, the average household participating in the SNAP program received monthly benefits worth \$287; 40 percent of participating

Table 7-1 Number of Participants and Total Federal Expenditures for Safety Net Programs, 2010

	Participants (millions)	Federal expenditures (billions of dollars)
Social insurance		
Medicare	47.5	522.8
Old Age and Survivors Insurance	43.8	584.9
Unemployment insurance	10.4	158.3
Social Security Disability Insurance	10.2	127.7
Means-tested transfers and credits		
Medicaid/Children's Health Insurance Program	58.3	281.9
Supplemental Nutrition Assistance Program	40.3	68.3
Earned Income Tax Credit	26.8	59.5
Supplemental Security Income	7.9	47.8
Public and assisted housing	4.7	37.9
Temporary Assistance for Needy Families	4.4	18.1

Note: Recipients are counts of individuals except for recipients of EITC (tax filing units) andhousing (families). Expenditures for UI, Medicaid/CHIP, SNAP, and TANF are for fiscal year 2010, and the number of recipients is the average of point-in-time recipients over fiscal year 2010. Public and assisted housing includes only programs operated by the Department of Housing and Urban Development, and recipients and expenditures are for fiscal year 2010. The number of SSI recipients is as of December 2010. For all other programs, the number of recipients represents those participating at any point in the (calendar) year. Federal expenditures include grants to states.

Source: Center for Medicare and Medicaid Services, Social Security Administration, Department of Labor, Office of Management and Budget, Medicaid Payment Advisory Commission, Department of Agriculture, Internal Revenue Service, Department of Health and Human Services, Department of Housing and Urban Development.

households received the maximum benefit for their family size—for example, \$668 a month for a family of four.

Both participation and expenditures are strongly countercyclical in the SNAP program, increasing during economic contractions and decreasing during expansions. Current projections are that SNAP enrollment will begin falling next year, as the economy continues to recover. Thus, like UI, SNAP not only provides direct benefits to participant households, but also has a stabilizing effect on the economy by limiting declines in consumption during economic downturns.

The Recovery Act established the Emergency Contingency Fund for state Temporary Aid for Needy Families programs, which provided \$5 billion to states for increased spending for basic assistance, nonrecurrent shortterm benefits, or subsidized employment. States expanded efforts in all three areas, including committing \$1.3 billion to the largest targeted employment initiative in the history of welfare reform. Thirty-nine states in addition to the District of Columbia, Puerto Rico, and the Virgin Islands established subsidized employment programs, with an estimated 260,000 job slots created for adults and youth, many of them involving subsidies that created jobs with private sector employers. While most of these subsidized employment

efforts were not sustained at previous levels after Recovery Act funding ended, many jurisdictions have maintained programs at a smaller scale. Based in part on the success of this initiative, the President has proposed the Pathways Back to Work Fund (discussed in Chapter 6) that would provide employment opportunities for low-income individuals and the long-term unemployed.

Housing is the largest component of virtually every family's budget, especially low-income families. The Federal safety net includes several programs designed to ensure that financial stress does not result in homelessness. Stable housing allows families to weather labor market shocks and is a precondition for children's educational success. In addition to the 2.3 million families assisted by the Department of Housing and Urban Development's project-based rental assistance and public housing programs, the largest Federal program aimed at low-income households is the Housing Choice Voucher program. The Housing Choice Voucher program served 2.1 million families in FY 2010, of which 90 percent included children, the elderly, or individuals with disabilities. As discussed in Chapter 4, the Administration has also developed new programs that help unemployed homeowners avoid foreclosure.

Two other programs that are critical to the safety net provide benefits to Americans with disabilities. Social Security Disability Insurance (SSDI) is a social insurance program designed to offset the loss of wages of workers with long-term health conditions that prevent "substantial gainful activity." Individuals with adequate Social Security-covered employment history, or children (disabled before age 22) of a retired, deceased, or disabled worker entitled to Social Security benefits, are covered by the program. Beneficiaries receive a cash benefit based on their income before becoming disabled, adjusted upward by wage inflation. In December 2010, more than 10 million people received SSDI benefits. Recipients become eligible for Medicare after two years, offsetting the loss of employer-sponsored health insurance.

A second Federal program that assists persons with disabilities is Supplemental Security Income (SSI), a means-tested entitlement program that provides cash benefits to needy aged, blind, or disabled individuals. In December 2010, roughly 7.9 million Americans received SSI benefits; of that total, about 6.6 million qualified on the basis of a disability. The program is a particularly important source of income for older working-age adults: roughly one-quarter of all participants are between the ages of 50 and 64.

A recent study illustrates how critical these programs are to their participants (DeCesaro and Hemmeter 2008). Using data from 2002, the study shows that nearly a quarter of SSDI and roughly half of SSI beneficiaries had family incomes that fell below the Federal poverty level. However,

the programs play an important role in keeping their beneficiaries out of extreme poverty, which is defined as having an income below 50 percent of the Federal poverty threshold. According to this study, the majority of SSDI recipients relied on that program for at least 75 percent of their income. While only 5 percent of SSI beneficiaries were in extreme poverty, taking away SSI benefits would have raised that figure above 40 percent.

HEALTH INSURANCE

In March 2010, the President signed into law the Patient Protection and Affordable Care Act (the Affordable Care Act). When fully implemented, the Affordable Care Act will significantly strengthen the health care safety net, substantially increasing the number of Americans with health insurance and providing new protections and benefits to those who are already insured. The Affordable Care Act builds on and maintains the strengths of the current private system of employer-sponsored health coverage and insurance provided through Medicare, Medicaid, and the Children's Health Insurance Program (CHIP). Therefore, the changes brought about by the new law need to be considered in the context of the current system.

The Economics of Employer-Sponsored Health Insurance

One of the defining features of the U.S. health care system is the central role played by employers. Today, roughly nine in ten Americans with private health insurance obtain their coverage through the workplace, either through their own employer or through the employer of a family member. Employer-sponsored insurance is generally much less costly for workers who pay for coverage through reductions in their wages as well as direct premium contributions—than coverage purchased directly in the individual market. There are three main sources of savings.

First, employer-sponsored group coverage greatly mitigates the problem of adverse selection. Because employer-sponsored groups are formed for reasons other than purchasing health insurance, they represent stable risk pools. Employer policies themselves contribute to this stability and to the spreading of risks. Within firms, the amount that employees are required to contribute toward premiums generally does not vary with health risk. Common employer and insurer policies—such as limiting periods when employees can sign up for coverage and requiring a minimum employee participation rate—prevent employees from declining coverage when they are healthy and joining the plan only when they need medical care.

A stable risk pool translates to lower administrative costs as insurers need to devote fewer resources to underwriting. Administrative savings also

come from economies of scale in marketing and administration. Because important costs vary with the number of contracts rather than the number of individuals covered by a contract, it is less expensive on a per-person basis to sell to a group of 1,000 than to sell to 1,000 individuals.

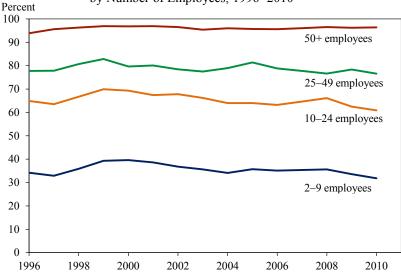
Third, because employer expenditures on health insurance premiums are exempt from Federal and state income taxes and Social Security payroll taxes, employer-sponsored insurance can effectively be purchased with pretax dollars. For a typical worker in the 15 percent tax bracket, the tax exclusion reduces the cost of insurance by roughly one third (Gruber 2010). Overall, the estimated FY 2011 tax expenditure associated with the exemption from Federal taxes is \$282 billion.

Although the cost savings associated with employer provision of insurance can be large, the savings are not evenly distributed among employers. The advantages of more efficient risk pooling and economies of scale in marketing and administration increase with firm size. The value of the tax exemption is not explicitly tied to firm size, but because compensation tends to be higher in larger firms, this advantage is correlated with size as well. As a result, the larger the firm, the greater the probability it will offer health insurance. Figure 7-2 illustrates that, whereas nearly all firms with more than 50 employees offer health benefits, less than half of those with 2 to 24 employees do. Between 2000 and 2010, the share of private sector establishments with fewer than 50 workers that offer health insurance benefits declined from 47.2 percent to 39.2 percent.

Firm size affects more than just whether workers are offered coverage. Among firms that offer insurance, large firms are substantially more likely to offer a choice of plans: more than 80 percent of private sector establishments with 1,000 or more employees offered a choice of health insurance options in 2010, compared with 18 percent of establishments with 50 or fewer employees. Employees who have a choice of plans tend to report greater satisfaction with their insurance coverage and their health care (Schone and Cooper 2001). And some very large firms have actively promoted strategies to improve health care quality and patient safety.

Over the past two decades, rising health care costs have eroded the accessibility of employer-sponsored health insurance, especially for middleclass families who experienced relatively little income growth over that period. Figure 7-3 plots the percentage of workers who lack health insurance (left axis) against an estimate of their per capita health spending divided by their median income (right axis). Because the growth in health spending is a principal determinant of rising insurance premiums, this ratio can be seen to capture changes in the affordability of health insurance. The figure indicates that during the 1980s insurance became less affordable as health care costs

Figure 7-2
Percentage of Private Sector Establishments Offering Health Insurance by Number of Employees, 1996–2010



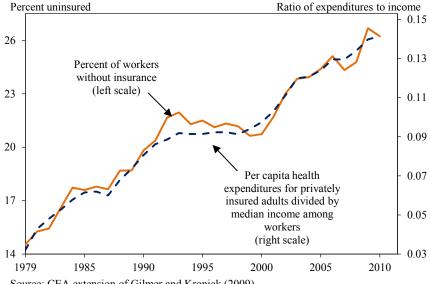
Source: Medical Expenditure Panel Survey, Insurance Component.

grew faster than median incomes and the percentage of workers without coverage grew. In the mid-1990s, health care spending grew less rapidly and a strong economy caused median income to rise. As a result of this confluence, the affordability index remained relatively constant, and insurance coverage stabilized. However, health care cost growth picked up again in the late 1990s and has outstripped income growth for the past decade, causing coverage to decline once again.

Medicaid and CHIP: A Health Care Safety Net for Children

As insurance coverage has declined among working-age adults over the past two decades, coverage among children has actually increased because of expanded eligibility for public programs. Until the mid-1980s, Medicaid eligibility was tied to eligibility for Aid to Families with Dependent Children, the cash welfare program. Starting in 1986, the two programs were delinked, and income eligibility limits for Medicaid were increased. The most significant eligibility expansions came as part of the Omnibus Budget Reconciliation Acts of 1989 and 1990. As the data in Figure 7-4 depict, with these expansions the share of children without health insurance began to decline, even as the share of uninsured adults rose. By 1997, while 18 percent of nonelderly adults were uninsured, the share of children who were uninsured was 14 percent.

Figure 7-3 Percentage of Workers Without Health Insurance and the Ratio of Per Capita Health Expenditures to Median Income, 1979–2010

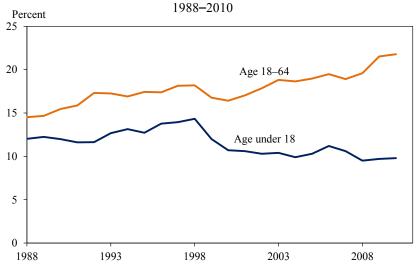


Source: CEA extension of Gilmer and Kronick (2009).

That same year, Congress established the State Children's Health Insurance Program (initially referred to as SCHIP, now CHIP) as part of the Balanced Budget Act of 1997. Like Medicaid, CHIP is funded jointly by states and the Federal Government, although CHIP allows states more flexibility in designing their programs. States began implementing CHIP in late 1997, and by 2000 every state program was up and running. Today, the income eligibility limit in 47 states and the District of Columbia is 200 percent of the Federal poverty level or greater. As a result of Medicaid and CHIP, the percentage of children who are uninsured has fallen since the late 1990s and is now less than half the adult rate.

President Obama has built on the success of Medicaid and CHIP by making these programs even stronger. In the early days of the Administration, the President signed the Children's Health Insurance Program Reauthorization Act of 2009, which extended funding for CHIP through September 2013. This legislation also introduced administrative reforms that improve program effectiveness, including new performance bonuses for states that successfully increase coverage by streamlining eligibility and enrollment procedures. Also in 2009, the Recovery Act provided additional support to states by boosting the Federal share of Medicaid at a time when program enrollment was increasing and state budgets were in crisis. Between 2008 and June 2011, over

Figure 7-4 Percentage of Children and Adults Without Health Insurance,



Note: Data for 1988 to 1998 adjusted to reflect CPS's 2011 revision to the health insurance editing process.

Source: Current Population Survey, Annual Social and Economic Supplement.

4.4 million children gained coverage through Medicaid and CHIP. In 2010, the Affordable Care Act extended funding for CHIP through 2015.

Because of Medicaid and CHIP, insurance coverage of children tends to be less sensitive to changes in macroeconomic conditions than that of adults. Research suggests that, holding other factors constant, a 1 percentage point increase in the national unemployment rate translates to almost a 1 point decrease in the percentage of nonelderly adults and children covered by employer-sponsored insurance (Holahan and Garrett 2009). Without a strong public insurance safety net for adults, more than half of the working-age Americans who lose employer-sponsored insurance during an economic downturn end up uninsured. For children, however, the loss of private coverage is mostly offset by an increase in public insurance. This discrepancy between the experience of adults and children will change with the full implementation of the Affordable Care Act, described below.

Many studies indicate that the expansion of Medicaid and CHIP has also significantly improved access to health care. One study using data from the 1980s and early 1990s found that eligibility for public insurance roughly halved the probability that a child failed to have at least one physician visit a year (Currie and Gruber 1996a). Other research shows that increased Medicaid eligibility for children leads to an increase in hospitalizations overall, but a decrease in "preventable" admissions (that is, those that are avoidable if a child receives appropriate primary care) (Dafny and Gruber 2005). Improved access to care translates into better health outcomes, ranging from improvements in subjective health status (Currie, Decker, and Lin 2008) to reduced child mortality (Currie and Gruber 1996a, 1996b).

Expanding Health Care Coverage: The Affordable Care Act

The Affordable Care Act builds on the strengths of employersponsored insurance and on the success of earlier expansions of Medicaid and CHIP to expand and strengthen the health care safety net. By 2019, the Affordable Care Act is expected to increase the number of Americans with health insurance by more than 30 million. Roughly half of the coverage gain will come from raising Medicaid eligibility limits to 133 percent of the Federal poverty level. Because income eligibility limits for CHIP in all states already exceed this level, the law will expand Medicaid coverage mainly among nonelderly adults. Although the primary responsibility for administering Medicaid will remain with the states, funding for the expanded coverage will come almost entirely from the Federal Government.

Most of the remaining coverage gains will come from private insurance purchased through state-level Affordable Insurance Exchanges. Individuals and families with incomes up to 400 percent of the Federal poverty level who do not have access to affordable employer-sponsored coverage that meets a minimum value will be eligible for premium tax credits that they can use to purchase coverage through an Exchange. These new tax credits are targeted at lower- and middle-income families who currently receive little or no benefit from the large tax subsidies that implicitly support the system of employer-sponsored insurance. The Affordable Care Act also establishes a Small Business Health Insurance Options Program (SHOP) in each state that gives small employers and their employees access to private health insurance plans and small business health insurance tax credits as well.

The state-level Exchanges will extend to workers at small firms, the self-employed, part-time workers, and nonworkers many of the advantages of employer-sponsored insurance already enjoyed by employees of large firms: more efficient risk pooling and greater administrative economies of scale than are available in the current individual and small group market. Within an Exchange, consumers and employers will be able to choose from a broad menu of plans. To improve consumer choices, Exchanges will provide transparent information on premiums, benefits, cost-sharing, and plan quality—information that will help cut the high consumer search costs that push up premiums in the small group and individual health insurance markets (Cebul et al. 2011). By creating a marketplace in which consumers

can easily compare plans on the basis of price and quality, the Exchanges should increase competition among insurers. Considerable evidence from large employers shows that when employees are given a choice of health plans and clear information about premiums and benefits, they switch plans in response to small differences in premiums (Buchmueller 2009).

The Affordable Care Act establishes new consumer protections for health insurance coverage purchased either through an Exchange or in the outside individual or small group market, many of which are already in effect today. Insurers will not be allowed to deny or limit coverage on the basis of an individual's health status. Within certain limits, premiums may vary by age, geography, and smoking status, but not by individual health status, gender, or other factors. The Act also includes a requirement that individuals who can afford insurance maintain minimum essential coverage. These market reforms fill an important gap in the health care safety net.

Provisions of the Affordable Care Act Now in Place

Many of the insurance market reforms, along with the expansion of Medicaid and the creation of the Exchanges, will not take effect until 2014. Some provisions of the Affordable Care Act, however, have already been put into place. Insurers are now prohibited from retroactively cancelling coverage because of honest mistakes made on the application. The Act also eliminates lifetime dollar limits on essential health benefits and restricts the use of annual dollar limits. (Annual benefit limits will be eliminated completely by 2014.) Since July 2010, consumers who are uninsured and unable to get insurance because of a pre-existing condition can find subsidized coverage through the Pre-Existing Condition Insurance Plan. This temporary program gives uninsured individuals with costly conditions access to affordable insurance until the full set of consumer protections takes effect in 2014. As of the end of 2011, 45,000 individuals were enrolled.

Another coverage-related provision of the law that is already in force allows young adults to remain on their parents' private insurance policies until they reach age 26. This policy targets a population that is disproportionately uninsured. Although one reason large numbers of young adults have no health insurance is that people in this age group tend to be in good health and do not perceive a need for health care (the "young invincibles" hypothesis), a second important reason is lack of access to affordable coverage, because many young adults have not yet settled into full-time jobs that offer health benefits. As a result, the probability of being uninsured jumps between the ages of 18 and 19, as many young adults lose coverage under their parents' employer-sponsored insurance. This loss of coverage

translates to a significantly lower use of health care services (Anderson, Dobkin, and Gross 2012).

The dependent coverage provision of the Affordable Care Act took effect on September 23, 2010. Data from several independent sources indicate that the policy has significantly increased the insurance coverage of young adults. Figure 7-5 presents data from one such source, the National Health Interview Survey, highlighting the change in insurance coverage for youth age 19 to 25 in comparison to a slightly older group, age 26 to 35. Because these two groups should face roughly similar labor market conditions, the experience of the older group provides a sense of what would have happened to the younger group had this provision of the Affordable Care Act not gone into effect.

Estimates from the third quarter of 2010 show that 35.6 percent of the younger group was uninsured, compared with 27.7 percent of the older group. Between the third quarter of 2010 and the second quarter of 2011, insurance coverage was essentially unchanged for the older group. In contrast, among the younger group the share uninsured fell 8.3 percentage points. This change translates to a gain in health insurance coverage for approximately 2.5 million people. Because even before this policy, college students were able to stay on their parents' insurance plans or obtain coverage through their school, the coverage gains arising from the Affordable

2010 Q3 and 2011 Q2 Percent 35.6 35 30 28.3 27.7 27.3 2.5 20 15 10 5 0 2010 Q3 2011 Q2 2011 O2 2010 O3 Ages 19-25 Ages 26-35

Figure 7-5
Percentage of Young Adults Without Health Insurance, 2010 Q3 and 2011 Q2

Source: National Health Interview Survey.

Care Act have been concentrated among non-students and recent graduates. Many of these newly insured young adults are from lower middle-class families who are working to maintain their position in the economy in the face of not only the recent economic downturn, but long-run forces that have been working against the middle class for decades.

The Economic Benefits of Expanding Insurance Coverage

Expansion in health insurance coverage from the ACA can be expected to positively affect access to care, health, and financial security. These effects and the impact of other provisions of the Affordable Care Act will be important topics of research (see Data Watch 7-2).

Research on previous coverage expansions suggests that health insurance can significantly improve all three outcomes. As noted, considerable research has examined the benefits of health insurance for children. One recent study (Finkelstein et al. 2011) examines the effect of insurance coverage on low-income adults. The study, which uses data from Oregon's Medicaid program, has two especially notable features. First, its population sample is similar to the group that will gain Medicaid coverage as a result of the Affordable Care Act. Second, because of budgetary constraints, access to Medicaid coverage was determined randomly by a lottery, in the same way patients are assigned to treatment and control groups in a randomized control trial. As a result, the study avoids the fundamental problems of inference inherent to observational studies.

The study finds that in the program's first year insurance coverage significantly increased the use of outpatient and inpatient care and of prescription drugs. The added care led to increases in the share of men and women screened for high cholesterol and high blood sugar and in the share of women receiving mammograms and Pap tests. The study also noted significant gains in several self-reported measures of physical and mental health. These findings are especially striking because the health benefits of improved access to care are likely to grow over time.

In addition to improving access to appropriate care, health insurance protects individuals and families from the financial risk associated with uncertain and potentially catastrophic medical costs. Today few uninsured families have the resources to cover the cost of a serious illness. According to one recent study, about a third of uninsured families have no financial assets at all, and the average uninsured family can afford to pay only 12 percent of the cost of a single hospitalization (Chappel, Kronick, and Glied 2011). The Oregon study used several financial outcomes to assess economic benefits of insurance. It found that individuals with health insurance were less likely to have unpaid bills sent to a collection agency and that they were significantly

Data Watch 7-2: Health Data for Policy

Health policy formulation and evaluation requires high-quality data on a broad range of outcomes. Federal surveys have provided the basis for a large research literature that informed the design of the Affordable Care Act. These surveys along with other Federal data programs will be important resources for monitoring the impact of the Act.

One objective of the Affordable Care Act is to substantially increase the number of Americans with health insurance. The National Health Interview Survey (NHIS) sponsored by the Department of Health and Human Services (HHS) and three other surveys conducted by the Census Bureau—the Current Population Survey's Annual Social and Economic Supplement, the Survey of Income and Program Participation, and the American Community Survey—provide data on various aspects of insurance coverage. Increased insurance coverage should lead to improved access to care and improved population health. The NHIS and another HHS survey, the Household Component of the Medical Expenditure Panel Survey (MEPS), combine information on insurance coverage with information on medical care utilization and health status. Another component of the MEPS surveys employers on key features of the health insurance they offer employees. Additional information on utilization comes from HHS surveys of health care providers, including office-based physicians, ambulatory care facilities, and hospitals.

Two Federal data programs—the National Health Expenditure Accounts, produced by the Centers for Medicare and Medicaid Services, and the National Income and Product Accounts, produced by the Bureau of Economic Analysis-provide independent estimates of national health spending. Efforts also are under way at the Bureau of Labor Statistics to improve the collection of health data to better measure health sector prices and productivity (Bradley et al. 2010). Current initiatives by Federal agencies and academic researchers are aimed at developing data systems that support disease-based estimates of health spending (Aizcorbe, Retus, and Smith 2008). Research in this area focusing on selected conditions has shown that disease-based measures allow for a more nuanced understanding of what drives the growth in health spending. The results suggest that failing to account for changes in the inputs used to treat a particular condition and for improvements in health outcomes leads to an overestimate of health care inflation and an underestimate of productivity gains in the health sector (Aizcorbe and Nestoriak 2011). Whether this conclusion can be generalized is the subject of ongoing research.

less likely to report having to borrow money or skip paying other bills to pay medical expenses. These findings are consistent with earlier research showing that the advent of Medicare in 1965 generated large benefits in the form of reduced exposure to out-of-pocket medical expenditure risk (Finkelstein and McKnight 2008).

The benefits of the Affordable Care Act's coverage expansion are likely to spill over to the labor market as well. Because small firms cannot offer health insurance that matches in cost and quality the insurance offered by larger firms, they often find it difficult to compete with large firms in attracting and retaining workers. Similarly, the lack of affordable insurance options in the individual health insurance market poses a barrier to workers who would like to start their own business, work part-time, or retire before they are eligible for Medicare. Indeed, numerous studies find that the link between health insurance and full-time employment distorts decisions regarding labor supply, job mobility, and retirement (Gruber and Madrian 2004). By improving the health insurance options available to small employers and expanding the availability of affordable individual coverage, the Affordable Care Act should greatly reduce if not eliminate these distortions.

The Affordable Care Act and Medicare

Given the high and uncertain medical expenses faced by seniors, the health insurance coverage that Medicare provides for individuals age 65 and older is a critical component of the health care safety net. The inability of private markets alone to provide adequate health insurance coverage for seniors is a classic example of adverse selection (Akerlof 1970). Indeed, before Medicare was enacted in 1965, only an estimated one-quarter of seniors had meaningful private insurance (Finkelstein 2007). Today Medicare covers roughly 40 million elderly Americans and 8 million people under age 65 who qualify on the basis of disability.

Although the Affordable Care Act's coverage expansions and insurance market reforms are targeted at nonelderly Americans, the new law has important implications for Medicare as well. It provides new benefits to seniors by eliminating cost sharing for recommended preventive services, adds an annual wellness visit, and reduces out-of-pocket costs for prescription drugs in the Medicare Part D coverage gap. By the end of 2011, more than 24 million elderly Americans have benefited from the elimination of cost sharing for preventive benefits, and 3.6 million beneficiaries have received \$2.1 billion in drug discounts.

The Affordable Care Act also puts in place several strategies for reducing the growth in Medicare spending. Such efforts to "bend the cost curve" are essential to maintaining the long-run fiscal status of the program and reducing long-run Federal budget deficits. The Act includes important changes in the way Medicare pays doctors, hospitals, and other health care providers to create strong incentives for providers to redesign the way they deliver care, both to improve health and to use scarce resources more efficiently. The Medicare Shared Savings Program, for example, encourages physicians, hospitals, and other organizations to form Accountable Care Organizations (ACOs) to provide cost-effective, coordinated care to Medicare beneficiaries. Both the Shared Savings program and a similar Affordable Care Act initiative developed through the Center for Medicare and Medicaid Innovation (the Innovation Center) reward ACOs that are able to reduce the growth in health care spending while achieving high standards for clinical quality and patient satisfaction.

The mission of the Innovation Center is to help transform the Medicare, Medicaid, and CHIP programs to deliver better health care, better health, and reduced costs. The center's portfolio of initiatives includes demonstration projects that test new strategies for providing higher-quality health care more efficiently. These strategies include models of enhanced primary care; the use of episode-based bundled payments to improve care coordination; and a challenge grant program that will award up to \$1 billion in grants to applicants who will implement the most compelling ideas for delivering better health, improved care, and lower costs to people enrolled in Medicare, Medicaid, and CHIP. Because of Medicare's outsized role as a purchaser of health care, these initiatives are likely to spur similar innovations by private insurers.

RETIREMENT SECURITY

For older Americans, retirement savings in combination with Social Security benefits are a critical element of the safety net. These savings and benefits together allow retirees to maintain the living standards they had during their working lives and to protect themselves against downturns in the financial markets, unexpectedly high health care costs, and the risk of running down one's assets. In addition, some Americans elect to accumulate additional savings in hopes of bequeathing assets to their heirs. From a broader societal perspective, private retirement savings fuel capital accumulation. Capital thus accumulated leads to greater investment, which in turn leads to a more productive workforce and stronger economic growth. In this sense, saving not only bolsters the standard of living in retirement for participating workers but also raises the quality of life for future generations.

Over the years, policymakers have implemented a variety of policies to encourage capital accumulation, to protect retired households against economic shocks, and to increase the likelihood that Americans enjoy the same quality of life during retirement that they enjoyed during their working years. The most prominent of these programs is Old Age and Survivors' Insurance, also known as Social Security, which pays retiree benefits to more than 95 percent of elderly individuals in the United States. Social Security is the nation's retirement security bedrock, paying out \$596.7 billion to 44.4 million beneficiaries in 2011—an average annual benefit of \$13,561. Social Security payments, combined with private savings and employer-provided retirement benefits, provide sufficient income to enjoy a comfortable retirement, and for many others, make the difference between meeting basic needs and living in poverty. In 2010 Social Security income lifted an estimated 13.8 million elderly Americans out of poverty. The program also provides a key safety net for survivors of deceased workers, helping roughly 6 million surviving spouses and children.

Even as Social Security helps provide a stable source of income in retirement, tax preferences for retirement saving give working-age households greater incentive to accumulate assets toward retirement. Most tax-preferred accounts allow workers and their employers to make pre-tax contributions to a retirement account and also allow earnings on those contributions to accumulate tax-free; other accounts allow after-tax contributions to grow and be withdrawn tax-free. Many American households have responded to these tax incentives by building assets toward retirement, with total balances in defined-contribution and individual retirement accounts (IRAs) rising to nearly \$9.2 trillion in 2010. The overall tax expenditure for the principal retirement saving incentives is substantial, totaling almost \$120 billion in fiscal year 2010.

Declining Retirement Preparedness

Despite the availability of tax-related incentives to spur saving, many households have not accumulated sufficient assets to overcome the potential risks faced in retirement. By some estimates, the proportion of households with adequate retirement saving has been in decline for decades. As illustrated in Figure 7-6, the share of households "at risk" of experiencing marked declines in consumption in retirement rose from 31 percent in 1983 to 51 percent in 2009, with much of the recent change owing to declining housing values.² For members of Generation X (individuals born between

² These estimates are based on the National Retirement Risk Index (NRRI) produced by the Center for Retirement Research at Boston College. For each household, the NRRI estimates household income in retirement (based on projected assets at retirement) as a share of pre-retirement earnings; this percentage represents the replacement rate of pre-retirement earnings. Each household is assigned a benchmark "adequate" replacement rate; households that are more than 10 percent below the benchmark are deemed to be "at risk."

the mid-1960s and 1972), the situation is even more troubling, with nearly three in five households in that age group in danger of becoming unable to maintain their living standard in retirement (Munnell, Webb, and Golub-Sass 2009).

Although retirement preparedness has been in decline in the aggregate, specific demographic groups are particularly vulnerable. Single individuals and low-income households are all especially likely to enter retirement with insufficient assets. For example, one estimate for 2009 identified 60 percent of low-income households as inadequate savers, compared with 42 percent of high-income households (Munnell, Webb, and Golub-Sass 2009). Another estimate found that 60.2 percent of single men had insufficient retirement wealth to maintain preretirement consumption, compared with 45.2 percent of married couples (Haveman et al. 2006).

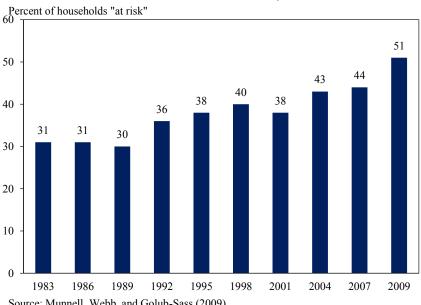
Recent economic shocks have impacted individuals nearing retirement. Between 2007 and 2009, Americans aged 55 to 64 saw their real median household income decline by 5 percent and their median net worth fall 15 percent—from \$258,000 to \$222,000 (Bricker et al. 2011). In addition, the value of housing—a key source of wealth for older Americans—has dropped 34 percent since the housing market's peak in April 2006. The value of financial assets also declined precipitously following the financial crisis and has yet to rebound fully to pre-recession levels. The combination of declining asset values and lower income has further weakened retirement preparedness.

Challenges to the Retirement Safety Net

Several developments have contributed to the problem of inadequate retirement saving. A first-order concern is declining participation in employer-sponsored retirement plans. Between 2000 and 2010, the share of private sector workers between the ages of 21 and 64 who participated in an employer-sponsored retirement plan fell from 48 percent to 39 percent.

The past several decades have also seen changes in the nature of private employer retirement plans. The share of private-sector workers covered by defined-benefit pension plans fell from 38 percent in 1980 to 20 percent in 2008 as many private employers switched to defined-contribution plans like 401(k) plans. Section 401(k) and other defined-contribution plans offer workers particular benefits, such as portability, high potential for growth, and flexibility. However, the shift to 401(k) plans (and to a lesser degree a shift from traditional defined-benefit pensions to hybrid defined-benefit plans such as cash balance plans) has also transferred substantial risk away from employers, placing greater responsibility on workers to accumulate and manage assets and exposing them to greater financial risk.

Figure 7-6 The National Retirement Risk Index, 1983-2009



Source: Munnell, Webb, and Golub-Sass (2009).

To take full advantage of the wide array of incentives for retirement saving, workers must assess complex details associated with establishing an account, making contributions, managing investments, and eventually making withdrawals. In the face of complex saving and investment decisions, some workers put off enrolling in employer-sponsored retirement programs or taking advantage of tax-preferred saving vehicles outside of employment. Such delays are costly in terms of lifetime asset accumulation. (See Economics Application Box 7-1 for more information on common mistakes made by retirement savers.)

Another challenge to the retirement safety net is the uneven distribution of the benefits of the tax code's generous incentives for retirement saving. Because these tax incentives are often provided as a deduction or exclusion from income, they are most valuable for taxpayers in higher tax brackets. In the aggregate, these incentives flow disproportionately to upperincome households; almost 80 percent of the total tax benefit is projected to go in 2012 to the richest 20 percent of households and more than 40 percent to households in the top 5 percent of the income distribution (Toder, Harris, and Lim 2011).

The availability of employer-sponsored retirement saving options also varies by firm size. As with health insurance, small employers face significant challenges in establishing retirement plans. High per-participant administrative costs, frequent employee turnover, uncertain revenues, and lack of familiarity with plan design and characteristics all discourage small business owners from providing retirement plans. Their inability to provide these plans not only threatens retirement security for employees of small businesses but also can make small businesses less attractive to workers than larger employers are.

These obstacles to retirement saving keep account balances low for many households. In 2011, more than half of all workers reported that the total value of their household's savings is less than \$25,000; 29 percent said they have less than \$1,000 in savings (Helman, Copeland, and VanDerhei 2011). Although some of these workers may participate in defined-benefit pensions, others will enter retirement with little income outside of Social Security. One analysis of households aged 65 to 69 in 2008 showed that the median household had just \$15,000 in financial assets and \$5,000 in private retirement assets (Poterba, Venti, and Wise 2011). Most households in the sample had more wealth in housing equity than in liquid assets (Table 7-2).

One of the toughest retirement challenges involves uncertainty about how long retirees are likely to live. With extended longevity comes the possibility that an individual will live longer than expected and will thus outlive his or her accumulated assets. This possibility increases as the time between retirement and expected age of death lengthens. In 1970 a worker retiring at age 65 could expect to live another 15.2 years; by 2008 that figure had grown to 18.7 years. Although extending life expectancy is an exceptional achievement for the United States, it also increasingly exposes retirees to the risk of outliving their assets outside of Social Security. In 2010, just 17 percent of Americans aged 65 to 69 relied on Social Security for more than 90 percent of their income, but the share almost doubled, to 33 percent, for Americans age 80 and older (Figure 7-7).

Another serious risk is costly health shocks. Even with the protection provided by Medicare, many retirees face high out-of-pocket health expenditures, diminishing their retirement assets and threatening their well-being. Recent research estimates that for a 65-year-old couple, the expected present value of lifetime out-of-pocket medical costs exceeds \$250,000, with a 5 percent risk that expenses will exceed \$570,000 (Webb and Zhivan 2010). As discussed in Data Watch 7-1, out-of-pocket health costs can push retirees into poverty.

The risk of large health expenditures and the possibility of outliving one's assets force retirees to face difficult decisions about how much of their assets to consume in any given year. Uncertainty about lifespan, inflation, investment return, and unexpected medical expenses makes the "decumulation decision"—how much to withdraw from accumulated

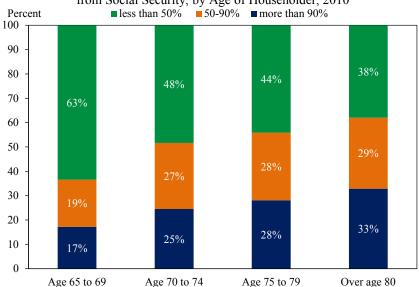
Table 7-2 Distribution of Wealth Components for Households Aged 65–69, 2008 Thousands of dollars

Percentile	Financial assets	Personal retirement account assets	Financial + personal retirement account	Housing equity	Defined- benefit pension	Social Security	Net worth
10	0.0	0.0	0.0	0.0	0.0	0.0	197.0
20	0.3	0.0	0.8	5.0	0.0	154.3	297.3
30	2.0	0.0	5.5	42.0	0.0	214.5	413.6
40	6.0	0.0	20.0	80.0	0.0	267.9	564.0
50	15.0	5.0	52.0	120.0	0.0	315.3	731.1
60	32.0	28.8	104.0	162.0	25.3	379.0	898.4
70	70.0	75.0	195.0	229.5	116.8	463.3	1,146.4
80	145.0	142.0	375.0	349.2	238.5	542.9	1,483.4
90	358.0	347.0	711.0	585.0	468.9	643.1	2,103.0

Source: Poterba, Venti, and Wise (2011).

saving—exceptionally complicated. Retirees who live longer than expected might find themselves with insufficient assets in the later years of life, at a time when they are most vulnerable and in need of a reliable stream of income. While private annuities can serve to mitigate many of these risks, annuities markets face a host of obstacles including regulatory barriers,

Figure 7-7 Percent of Individuals with Various Shares of Family Income from Social Security, by Age of Householder, 2010



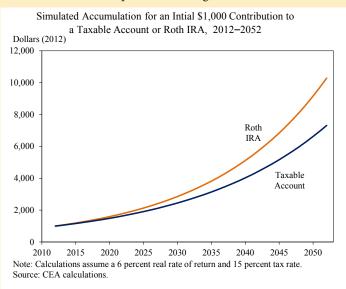
Source: Current Population Survey, Annual Social and Economic Supplement.

Economics Application Box 7-1: Financial Literacy and Common Mistakes Made by Retirement Savers

A generation ago, when many workers were covered by definedbenefit plans, retirement savings decisions were relatively easy. Today, workers must take much more responsibility for ensuring that they have adequate income throughout retirement. Achieving that goal requires avoiding some mistakes commonly made in saving for retirement. Below is a list of five mistakes that people often make.

Missing out on the tax benefits of saving. The tax code affords strong incentives for retirement saving. Participation in an employer-sponsored retirement plan or individual retirement account can yield thousands of dollars of extra retirement wealth over time. In addition, low- and middle-income households can take advantage of the Saver's Credit, which effectively provides workers with a Government match on new saving.

Workers can substantially increase their retirement savings by contributing early and taking advantage of tax benefits for retirement saving. For example, if a 25-year-old contributes \$1,000 toward retirement in a taxable account, that \$1,000 can be expected to grow to approximately \$7,300 in today's dollars by the time the worker reaches age 65. Taking advantage of tax benefits for saving can substantially increase this amount. If the same worker contributes \$1,000 to a Roth IRA, that \$1,000 can be expected to grow to nearly \$10,300 in today's dollars by the time the worker reaches age 65. As illustrated in the figure below, the benefits of tax-preferred saving increase over time.



Failing to participate in an employer-sponsored retirement plan. Some employer-sponsored retirement plans provide an employer match for money that an employee deposits into a retirement account. Taking advantage of an employer match is one of the best ways to leverage retirement contributions and rapidly accumulate saving. Many workers, especially new hires and young employees, however, leave this "free money" on the table by failing to sign up for a retirement plan. In 2001, only 57.5 percent of workers aged 20-29 participated in a company retirement plan even when one was offered (Kawachi, Smith, and Toder 2006).

Failing to diversify retirement savings. Investment needs and risk appetites vary across households. However, concentrating all assets in one particular type of investment can prove risky, especially if that asset is stock in an employee's company. One study found that in 2002, nearly 4 million workers invested in excess of 80 percent of their employer retirement plan assets in own-company stock (Mitchell and Utkus 2002). In general, investors can protect themselves against risk by spreading their assets across various types of investments.

Losing investment returns to high fees. High fees can inhibit rapid accumulation of retirement wealth. Savers should pay attention to all investment fees, including those charged at purchase of a mutual fund, ongoing fees, fees charged by brokers and registered investment advisors, and fees charged on the purchase of annuity products. Although these fees are ordinarily charged for legitimate services provided, investors should incorporate the cost of fees in their purchase decisions.

Cashing-out retirement savings. When workers leave a job, some fail to rollover their pension wealth into an IRA and pay a penalty for cashing out their retirement savings. These leakages in retirement savings make it difficult to arrive at retirement with adequate amounts of savings. In 2006, workers aged 15 to 60 cashed out \$74 billion in retirement assets when changing jobs (GAO 2009).

Failing to protect against longevity and health care risk in old age. As lifespans increase, more Americans will face the prospect of running out of money in old age. Planning for and protecting against the risk of outliving family assets as well as the need for long-term care is an essential part of the retirement security picture.

behavioral aversion to annuities, and inadequate savings to purchase an annuity (Benartzi, Previtero, and Thaler 2011).

Policies to Address Retirement Saving Challenges

The President has proposed several policies to bolster Americans' retirement saving behavior and lead to a more secure retirement for millions of families. Perhaps the most significant policy is the establishment of automatic IRAs for tens of millions of workers. This proposal builds on a broad literature showing that automatic enrollment can dramatically increase participation rates in workplace retirement plans. For example, Madrian and Shea (2001) show that the participation rate after one year of employment at a large corporation increased from 37.4 percent to 85.9 percent following the adoption of automatic enrollment.

The President's proposal would require most firms without qualified employee retirement plans to offer employees an automatic IRA option. By default, automatic IRA contributions would be funded by payroll deductions equal to 3 percent of pay, unless employees opted out of the program or elected to contribute a different amount. Firms would not contribute on behalf of the employee, and companies offering the automatic IRA to workers could claim a tax credit for the employer's associated expenses up to \$500 for the first year and \$250 for the second year along with an additional tax credit of \$25 per employee—up to a maximum of \$250 a year for six years.

The automatic IRA would transform the retirement saving landscape. Employees who previously accumulated little or nothing toward retirement would begin accumulating assets immediately. Upward of 40 million workers, all previously ineligible for workplace retirement saving plans, would be covered by the new proposal. About 80 percent of these workers would be low- and middle-income employees with less than \$50,000 in annual wages, indicating that the IRA would primarily be targeted at workers who are more likely to have accumulated little savings.

The Administration also proposes to increase the tax credit for small businesses that adopt, for the first time, a qualified employee retirement plan. Under current law, small businesses can receive up to \$500 in tax credits—each year for up to three years—for establishing an employee retirement plan. The President proposes to double the maximum credit to \$1,000 annually to provide a stronger incentive for small employers to establish workplace retirement plans.

The Administration's Budget eases the compliance burden for retirement savings by exempting retirees with modest accumulated saving from minimum required distribution (MRDs) rules. MRDs are established to ensure that retirees with high accumulated retirement assets direct those

assets towards retirement, and not use retirement accounts to shelter their income from estate taxes. The Administration proposes to exempt retirees with less than \$75,000 in retirement savings from these rules. This move would simplify tax compliance for millions of elderly Americans, who would no longer need to calculate the amount and timing of their minimum required payouts. It would give millions of seniors greater freedom of choice as to when and how rapidly to spend their limited assets in retirement, while also adding flexibility to purchase lifetime income products—such as longevity annuities—that might violate MRD regulations.

The Administration has made a commitment to financial literacy as a means of assisting Americans in making sound decisions regarding saving and investment. In 2010, the President signed an Executive Order creating the President's Advisory Council on Financial Capability to assist the American people in understanding financial matters and making informed financial decisions. In addition, the Wall Street Reform and Consumer Protection Act of 2010 created the Consumer Financial Protection Bureau, which is charged with educating consumers about financial matters and enabling them to make sound financial decisions. And, in 2011, the Financial Literacy and Education Commission, established to coordinate Federal efforts to promote financial literacy, developed a new national strategy to enable Federal agencies to coordinate and promote all the Federal initiatives aimed at helping Americans make better financial choices.

Taken together, these policies will lead to a more inclusive retirement saving landscape. Workers who would defer retirement saving because of financial inertia or behavioral obstacles will automatically be put on a path toward better saving. Easing MRD rules will simplify financial decisions in retirement for millions of elderly Americans. A coordinated national financial literacy campaign will help Americans become more active savers and will lead to improved investment decisions and smarter consumer behavior. More active saving, coupled with improved investment behavior, will increase the level of assets earmarked for retirement saving, leading to a more stable retirement for millions of Americans.

Conclusion

A strong and dynamic economy requires a robust and modern safety net to protect families against economic shocks and to provide a level of security that promotes entrepreneurship and economic growth. The challenging economic times of the past decade have made clear the important role that public policy can play in this area. In particular, unemployment insurance benefits, the Earned Income Tax Credit, and the Supplemental Nutrition Assistance Program have kept millions of American families out of poverty. Medicaid and the Children's Health Insurance Program have ensured that children are able to maintain health insurance coverage even if their parents lose access to employer-sponsored plans.

New policy initiatives will further strengthen the safety net. Although the current system of unemployment insurance has provided critical support for dislocated workers, the system can be modernized and improved. The President has proposed a number of innovative programs that would make it easier for jobless workers to invest in new skills or even start their own businesses. These proposals build on current programs that have been proven to work.

The Affordable Care Act represents the most significant improvement in the health care safety net since the advent of Medicare and Medicaid in the mid-1960s. By 2019, the Act is expected to increase the number of Americans with health insurance by over 30 million, and it will put in place new consumer protections ensuring that health insurance coverage remains available and affordable for all Americans regardless of an individual's health status or medical history.

In the area of retirement security, the President has proposed a number of policies that will boost retirement savings, making it more likely that Americans will enter retirement with adequate assets to maintain their desired level of consumption. These efforts to strengthen the safety net will provide tangible benefits for the economy and families in the coming decades.



CHAPTER 8

IMPROVING THE QUALITY OF LIFE THROUGH SMART REGULATION, INNOVATION, CLEAN ENERGY, AND PUBLIC INVESTMENT

Recent years have seen an unprecedented number of official efforts to improve, develop, and implement new measures of the quality of life and economic performance. Much of the groundwork for these efforts was laid in two important National Research Council reports. *Nature's Numbers*, published in 1999, considered how to expand the national income accounts that track the country's economic activity to properly take into account the environment and natural resources. *Beyond the Market*, published in 2005, proposed ways to integrate nonmarket activity into the accounts.

This work has implications for economic policy. Carefully designed regulations can promote economic growth and improve the Nation's quality of life. Water pollution, for example, can cause illness and destroy the livelihood of fishermen and others who rely on a healthy ecosystem to earn a living. Pollution, as Robert Kennedy noted, does not subtract from the gross domestic product. Appropriately balanced efforts to restrict harmful pollution can improve economic performance along with the health and safety of Americans.

The theme of this chapter is that, properly measured, both economic growth and the Nation's well-being can be increased by smart regulation, innovation and public investment in such fields as medical research, clean domestic energy and transportation infrastructure.

A SMART APPROACH TO REGULATIONS

For more than a century, the United States has been a world leader in protecting the health and safety of its citizens through well-chosen regulations. Fuchs (1998 and 2010) attributes gains in life expectancy prior to World War II to improvements in "nonmedical factors: nutrition, sanitation, housing, and public health measures." For example, in response to vellow fever and cholera outbreaks caused by water pollution, the Rivers and Harbors Act of 1899 gave the Army Corps of Engineers the authority to regulate the discharge into waterways of "refuse matter of any kind or description." Similarly, public health concerns about unsanitary meat packing conditions and patent medicines containing narcotics gave rise to the Pure Food and Drug Act of 1906, which authorized the Food and Drug Administration (FDA) to inspect food and drug products and regulate their sale. In 1900, roughly one in every 200 Americans was addicted to narcotics found in patent medicines (DOJ n.d.). Following the disclosure requirements in the Pure Food and Drug Act, sales of patent medicines containing those substances fell by nearly a third (Musto 1999).

As society evolves and technology changes, such basic protections afforded to citizens through regulation are updated and improved. Today, the water pollution controls provided for in the Rivers and Harbors Act have been incorporated into more expansive provisions in the Clean Water Act of 1972 and the Safe Drinking Water Act of 1974, which enable the Environmental Protection Agency (EPA) to promulgate regulations with the goal of making U.S. waters safe for drinking, swimming, and fishing. Similarly, the Pure Food and Drug Act of 1906 was amended by the Food, Drug, and Cosmetic Act of 1938 to give the FDA the authority to require evidence of safety for new drugs and to tighten food quality standards. It was amended again in 1962 to require manufacturers to prove drug effectiveness (Randall 2001). Most recently, the Food Safety Modernization Act of 2010 further improved the safety of food sold in the United States by, among other provisions, giving the FDA the authority to directly issue mandatory food recalls, requiring food processors to have plans in place for addressing safety risks, and requiring importers to verify food safety.

Measuring the benefits of regulations for the quality of life is a formidable task. Some forms of regulation have a positive effect on economic growth, for example, by improving the health and vitality of the workforce, by promoting stable and efficient operation of financial markets, by speeding the adoption of energy-saving technologies, by improving educational outcomes, or by upgrading the operation of the transportation system. Much of the benefit from those types of regulations eventually translates into increases in GDP. In other cases, such as the protection of the National Park System, safeguards against invasive species, or cleaner lakes for swimming and fishing, the benefits of regulation help the economy, but are less easily charted in the national accounts. For example, increased tourism or higher returns to commercial fishing resulting from cleaner water would be reflected in GDP, whereas the public's increased appreciation of that cleaner water would not be.

Designing Smart Regulations

On January 18, 2011, President Obama issued Executive Order 13563, "Improving Regulation and Regulatory Review," which lays out a balanced approach to regulation—to protect the health and safety of the American people in a way that maximizes net benefits to society, that uses the best information available, and that avoids unnecessary or overly burdensome requirements. The President called for an agency-wide review to reduce burdensome regulations. Underlying that approach is a belief that a smart, effective regulatory system depends on careful analysis of costs and benefits, both before and after regulatory action, including an informed public discussion. The Executive order directs the Office of Information and Regulatory Affairs (OIRA) of the Office of Management and Budget (OMB) to provide oversight, transparency, and discipline for executive agencies in the regulatory process, and coordinates that interagency review of rulemakings to ensure that regulations are consistent with applicable law. The net benefits of regulations finalized in 2011 are expected to be at their highest level in the last 10 years. And monetized savings from the retrospective review of regulations called for in the new Executive order are likely to exceed \$10 billion over the next five years.

Many of those regulations are intended to improve the quality of life by correcting market failures that lead to unsafe living or working environments. Effective regulations put into place rules that correct for significant market failures and thus achieve greater social benefits. "Smart regulations" are those that maximize the net benefits of a regulatory action to society. Benefit-cost analysis attempts to quantify and assign dollar values to the various effects of a regulation, which can be used to determine how it can reach its goal in the most efficient manner—that is, how it can generate the largest net benefits (the difference between total benefits and total costs) to society. Such information is useful for both policymakers and the public, even when economic efficiency is neither the only nor the overriding public policy objective, as in the case of protecting privacy.

Benefit-cost analysis is used to estimate likely future benefits and costs of a proposed regulation, but it can also be used to "look back" at existing

regulations, based on evidence about the actual, realized benefits and costs of those regulations. Such retrospective analyses can be used both to improve existing regulations and to better evaluate new ones.

Smart regulations thus seek to use the best information available in order to maximize net benefits by setting regulatory stringency at the most efficient level—the point at which the incremental benefits are equal to the incremental costs. For example, even though the marginal costs of seat belt standards increased over time (front-seat shoulder and rear-seat lap belts were mandated for cars in 1968 and for light trucks and vans in 1971, and three-point belts were required in the mid-1970s), those costs were far outweighed by the corresponding number of lives saved per year by seat belts (DOT 2004; Kahane 2004). The buckle-up laws of the mid-1980s raised the number of lives saved by wearing seat belts to 6,000 a year by 1988-90, and subsequent increases in belt use raised the annual number of lives saved to more than 15,000 in each year from 2003 to 2007. All together, between 1975 and 2009, seat belt regulations saved an estimated 268,000 lives (Kahane 2004; DOT 2009). (For another example of how benefit-cost analysis works, see Economics Application Box 8-1.)

Smart Regulations in Practice

Benefit-cost analysis has long been used to evaluate regulations within the Federal Government. For example, the Flood Control Act of 1936 declared that "the Federal Government should improve or participate in the improvement of navigable waters or their tributaries including watersheds thereof, for flood-control purposes if the benefits to whomsoever they may accrue are in excess of the estimated costs, and if the lives and social security of people are otherwise adversely affected."

The use of benefit-cost analysis in evaluating Federal regulations has become widespread since 1981, when President Reagan issued Executive Order 12291, formally requiring that "regulatory action shall not be undertaken unless the potential benefits to society for the regulation outweigh the potential costs to society and that regulatory objectives shall be chosen to maximize the net benefits to society." President Clinton issued Executive Order 12866, which focused OIRA oversight on "significant" rules and increased transparency. As noted earlier, President Obama issued Executive Order 13563, which reaffirms the principles in Executive Order 12866 and outlines a regulatory strategy to support continued economic growth and job creation. In particular, Executive Order 13563 offers new directions for regulatory review, including a requirement that agencies "use the best available techniques to quantify anticipated present and future benefits and costs as accurately as possible" while authorizing consideration of "values that are

difficult or impossible to quantify, including equity, human dignity, fairness, and distributive impacts."

Based on the quantified benefits and costs in current regulations, smart regulations are generating the highest level of net benefits for U.S. citizens in the last decade. In calendar year 2011, the Administration completed 740 regulatory reviews, 336 of which were interim final or final rules from executive agencies. Of the interim final and final rules reviewed, 18 percent were "economically significant," meaning that they are anticipated to have an effect on the economy of more than \$100 million in any given year. Those economically significant rules are expected to result in \$15 billion in costs and \$116 billion in benefits annually (in 2001 dollars). Over the past three calendar years, the annualized net benefits of completed rules have totaled about \$155 billion. In 2011 alone, annualized net benefits totaled more than \$101 billion. Those figures reflect an estimate of not only purely monetary savings, but also an estimate of the monetary value of prevented deaths, illnesses, and injuries. Figure 8-1 shows the benefits and costs of regulations, which are detailed in the agencies' Regulatory Impact Assessments for each economically significant rule and summarized annually in OMB's annual Regulatory-Right-to-Know report to Congress.

Data and estimation methods have improved substantially over time, as have modeling tools for projecting a regulation's effect into the future. For

Belletits and Costs of Regulations, 2001–2011

Billions of 2001 dollars

Total benefits

Net benefits

Total costs

Total costs

Figure 8-1
Benefits and Costs of Regulations, 2001–2011

Note: Total benefits, total costs, and net benefits are based on the midpoints of agency estimates for regulations completed during the calendar year.

Source: Office of Information and Regulatory Affairs.

Economics Application Box 8-1: Comparing Benefits and Costs

How do policymakers determine whether a regulation is a smart regulation? For example, in 2007, the Department of Transportation (DOT) decided to require that all new passenger vehicles weighing less than 10,000 pounds be equipped with electronic stability control (ESC) systems, which reduce crashes by improving braking in critical situations when the driver is beginning to lose control. This rule will increase the fraction of new vehicles with ESC from 29 percent in 2006 to 100 percent in 2012. How did the DOT decide this was a smart regulation?

First, the DOT identified what is arguably a market failure: a relatively affordable technology existed that lowered the risk of a crash, but it was not being offered by some manufacturers and, when offered the choice, many consumers declined. This market failure was caused by asymmetric information (drivers purchasing a vehicle could not fully assess the protection afforded by ESC systems) and by a negative externality (consumers purchasing a car without an ESC system did not fully account for the risks of a crash to others).a

Second, the DOT then examined the likely costs and benefits of equipping all passenger cars and light trucks/vans with ESC by model year 2012. Approximately 17 million vehicles will be subject to this regulation; however, DOT estimates that as of 2011, manufacturers would have installed ESC in 71 percent of their fleet absent the rulemaking. Therefore, both the benefits and costs were calculated by raising ESC installation from that baseline of 71 percent to 100 percent. The benefits of the rule include reductions in fatalities, injuries, property damage, and travel delays, all resulting from fewer accidents. To monetize those benefits, the DOT multiplied the total number of loss-of-control crashes by the average effectiveness of ESC systems and found that 67,000-91,000 crashes would be avoided each year. Using historical accident data, DOT estimated that a decline of 67,000 crashes would reduce total annual fatalities by 1,547 and decrease total annual injuries by 46,896.

The monetary value of those benefits depends on the discount rate, that is, on how much benefits in the future are worth today (a high discount rate implies that people discount the future more and thus any benefits that accrue in the future would be valued less today). At a 7 percent discount rate, the reduction in injuries and fatalities translates into \$6.4 billion in benefits; at a 3 percent discount rate, those benefits are \$8.0 billion, as the Box Table shows. To determine the noninjury component of benefits, the DOT multiplied the individual unit costs for travel delays and property damage by the 67,000 crashes that would be prevented by the rule, yielding \$247 million in benefits at the discount rate of 7 percent.

Annual Costs and Benefits by Discount Rate Millions of 2005 dollars

	3% discount	7% discount
Injury and fatality benefits	\$7,965	\$6,360
Savings from reduced property damage and travel delays	309	247
Total benefits	8,274	6,607
Vehicle costs	985	985
Fuel costs	27	22
Total costs	1,012	1,007
Net benefits	7,262	5,600

Note: Vehicle costs are not discounted, because they occur when the vehicle is purchased, whereas benefits occur over the vehicle's lifetime and are discounted back to the time of purchase. Source: Department of Transportation, National Highway Traffic Safety Administration (2007).

The DOT determined that production costs would rise by between \$111 and \$479 for each affected vehicle, depending on whether the vehicle was already equipped with anti-lock braking systems, a necessary component of ESC. The expected costs of the standard above the baseline total \$985 million. Because the average weight of passenger cars is expected to increase by 2.1 pounds as a result of the new equipment, the lifetime fuel use of those vehicles is expected to go up by 2.6 gallons. At discount rates of 7 percent and 3 percent, the total additional fuel costs are \$21.8 million and \$26.8 million, respectively. Summing vehicle and fuel costs gave the total costs of the regulation: about \$1.0 billion. Net benefits, then, are the difference between total costs and total benefits, or between \$5.6 billion and \$7.3 billion each year for the lower range of accident prevention.

^a For further discussion of market failures and automobile safety standards, see Mannering and Winston (1995), Arnould and Grabowski (1981) and Viscusi and Gayer (2002).

^b The appropriateness of including private benefits net of private costs in a benefit-cost analysis varies from rule to rule. By including private net benefits—the value of reducing injuries and fatalities of the consumers minus the purchase cost of the technology—the DOT is making the implicit assumption that consumers have made a suboptimal purchasing decision (one of the market failures being addressed by the regulation). However, if consumers do not face an information problem, a traditional approach would assume that consumers have made the purchasing decision that maximizes their welfare. If this were the case, it would be inappropriate to include those private net benefits in the analysis. For further discussion, see Gayer (2011).

example, the health benefits from reducing different air pollutants over different time periods and populations have been estimated by epidemiologists using air quality monitoring data and various health endpoints (EPA 2011a). Improvements in computing power and data records now allow air quality modelers to forecast the effects of regulatory actions on future air quality under different scenarios. Combining those estimates allows policymakers to weigh the expected health results of a given air quality regulation with the expected costs associated with the controls required by the rule.

A peer-reviewed study by the EPA using the Criteria Air Pollutant Modeling System estimated that the Clean Air Act prevented more than 160,000 premature deaths, 54,000 cases of chronic bronchitis, 130,000 nonfatal heart attacks, and 1.7 million cases of asthma exacerbation between 1990 and 2010. Those adverse health outcomes could have led to 86,000 emergency room visits for respiratory problems, 3.2 million lost school days, and 13 million lost work days (EPA 2011b).

Some health benefits from Clean Air Act regulations will likely raise economic growth indirectly and over time through intermediate factors. For example, a healthier population will arguably be a more productive one, a change that can be measured in improved labor productivity. A growing consensus has identified certain of those intermediate drivers of growth, including increased human capital, capital investment, research and development, economic competition, physical infrastructure, and good governance. Some evidence strongly suggests that regulations promoting educational attainment may improve human capital accumulation, thereby increasing economic growth over time (for example, see Cohen and Soto 2007). Other studies show a positive link between increased life expectancy and economic growth. A survey of the existing literature on health and economic outcomes (Bloom et al. 2004) finds in cross-country analysis that a one-year increase in life expectancy generates a 4 percent increase in economic output, controlling for other variables. Similarly, Murphy and Topel (2006) find that progress made battling various diseases after 1970 added about \$3.2 trillion a year to national wealth.

Retrospective Analysis

The prospective benefit-cost analysis that goes into crafting smart, efficient regulations is necessarily fraught with uncertainty. Prospective analysis requires that the costs and benefits of a regulation be identified and quantified before (ex-ante) the regulation is implemented. Only after a regulation has gone into effect can its actual (*ex-post*) effects become known (see Data Watch 8-1).¹

Changes in technology often make pollution abatement cheaper. For example, the actual costs to utilities of the cap-and-trade system for sulfur dioxide allowances set up by the Clean Air Act Amendments of 1990 were much lower than had been predicted. Scrubbing technologies turned out to be more efficient at removing sulfur dioxide from emissions, and power plants were able to blend a higher percentage of cheaper, low-sulfur coal than had initially been assumed. Moreover, the benefits of reducing sulfur dioxide emissions have since been found to be much larger than originally thought. As a result, subsequent regulations for utilities have tightened controls on those emissions.

Similarly, during the 1970s, automobile technologies were improved by new pollution standards. Regulators were phasing lead out of gasoline, and again the costs of the regulation were overestimated and the benefits underestimated. Lead impairs brain development in children and has been linked to serious health problems in adults such as hypertension, heart attacks, and premature death (Lovei 1998). Concern about high blood lead concentrations in the U.S. population led the EPA to begin in 1974 to phase in a stringent standard reducing the amount of lead allowed in the gasoline supply. Subsequent studies found that the annual benefits of banning lead in gasoline would be more than \$6 billion (in 1983 dollars), but would cost around \$500 million a year (Schwartz 1985). Harrington, Morgenstern, and Nelson (1999) note that those costs may have been overstated, but that it was difficult to disentangle the effects of a phase-out of leaded gasoline from the much larger effect of changes in oil markets around that time. Research also found that the benefits of lowering lead exposure were greater than initially thought. The EPA's 1985 benefit estimate implied that reducing mean blood lead concentrations in the population by 1 microgram per deciliter (or 1 µg/ dl) was worth at least \$3.5 billion a year (Schwartz 1994). By 1994, however, researchers were finding that a reduction of 1 µg/dl in mean blood lead concentrations resulted in much greater benefits than earlier estimates—as high as \$17.2 billion a year (1989 dollars) (Schwartz 1994). The phase-out of leaded gasoline was completed in 1995; by then the average blood lead concentration was approximately 2.3 µg/dl, down from more than 15 µg/dl in the early 1970s (Weaver 1999).

¹ Retrospective analyses of benefits and costs are also subject to uncertainty, because they require evaluation of a counterfactual scenario in which the rule was not adopted. Identifying that counterfactual is often difficult, in part because changes that occurred due to the rule are difficult to distinguish from changes that the industry would have adopted voluntarily.

Data Watch 8-1: The Value of Information—the PACE Survey

One of the few data sources for benchmarking costs of air and water pollution controls is the Pollution Abatement Costs and Expenditures (PACE) survey, which recently has been funded by the Environmental Protection Agency (EPA) and administered by the Census Bureau. From 1973 to 1994, the PACE survey was administered annually to nearly 20,000 manufacturing and mining facilities and electric utilities. Since 1994, because of resource constraints, the Census Bureau has conducted this survey only twice (for 1999 and 2005). To estimate the overall regulatory burden facing American manufacturers, the PACE survey collects data on overall pollution abatement expenditures by manufacturers for treatment, prevention, recycling, and disposal, rather than trying to allocate costs to specific regulations. It is the only survey that measures environmental compliance costs at both the individual and aggregate levels (Ross et al. 2004).

Pollution equipment expenditures have fallen over time, on average accounting for 7 percent of all investments made by manufacturing industries in the early 1990s and 4 percent in 2005. There is considerable variation in spending across industries, but given that pollution levels (and the negative externalities associated with pollution) also vary by industry, that is neither surprising nor necessarily suboptimal.

The EPA has used PACE data to estimate the cost of both past and proposed regulations (see for example, Gallaher, Morgan and Shadbegian 2008). Academics have used the data set to investigate the relationship between EPA regulations and economic outcomes. For example, Levinson (1999) used the PACE data to develop a new index of state environmental compliance costs. Similarly, Shadbegian and Gray (2005) examined the relationship between of pollution abatement and productivity. And Becker (2005) found expenditures on environmental compliance for small facilities differ from larger facilities.

"Look-Back" Initiative

President Obama's Executive Order 13563, issued in 2011, directed executive agencies to conduct retrospective reviews of their regulations to determine whether any of the agencies' regulations should be modified, streamlined, expanded, or repealed. This Executive order was followed by Executive Order 13579, which called on independent agencies to conduct such retrospective reviews to the extent possible. Look-back exercises enable regulatory agencies to learn whether they can increase net benefits by modifying existing regulations, expanding regulations, or even eliminating existing regulations that may turn out to be ineffective or duplicative.

Incorporating *ex-post* benefits and costs of regulations is the key goal of the new Executive order requiring agencies to conduct retrospective reviews of their regulations. In the past, agencies have undertaken such reviews in certain situations but only on an *ad hoc* basis. The new Executive order aims to improve regulatory analyses by providing a formalized process for incorporating new information into regulations and for gaining insight into the costs and benefits borne by the private sector in practice.

The President's regulatory look-back initiative has produced more than 500 reform proposals, detailed in 26 agency plans, and monetized savings from this review are likely to exceed \$10 billion over the next five years. A number of recent actions eliminate or streamline unjustified or excessive regulations, and the Administration has put in place an improved regulatory system that will generate more current and accurate information on regulatory costs and benefits. Moreover, pursuant to Executive Order 13579, issued in July 2011, some of the major independent regulatory agencies have also issued preliminary retrospective review plans for public comment.² Five examples illustrate the effectiveness of the look-back initiatives.

First, the Occupational Safety and Health Administration (OSHA), has announced a final rule that will eliminate redundant reporting burdens; the regulation is expected to save employers 1.9 million hours and \$40 million annually. OSHA also plans to finalize a rule projected to result in more than \$585 million in savings each year by making U.S. hazard classifications and labels consistent with other nations.

Second, since the 1970s, the EPA has treated milk as "oil" subject to regulations designed to prevent oil spills. In response to feedback from the agriculture community and the President's Executive order, the EPA recently concluded that the rules placed unjustifiable burdens on dairy farmers and decided to exempt milk from those regulations. That exemption will save the dairy industry, including many small businesses, as much as \$148 million per year.

Third, to reduce burdens on railroads, the Department of Transportation has proposed to refine its requirements for tracks that are to be equipped with positive train controls. This equipment can automatically control a train in emergency circumstances, reducing the risk of an accident. The potential refinements would eliminate the need for costly wayside components and mitigation measures along as much as 10,000 miles of track where they are not needed for safety. The initial 5-year savings are expected to be as high as \$335 million, with total 20-year savings of up to \$778 million.

² Specific retrospective analyses by executive and independent agencies can generally be found on the relevant websites; for example, the Federal Trade Commission provides information on its retrospective review process at http://www.ftc.gov/ftc/regreview/index.shtml.

Fourth, the EPA has proposed to eliminate a requirement for air pollution vapor recovery systems at local gas stations in many states, on the ground that modern vehicles already have effective air pollution control technologies. The anticipated annual savings from eliminating the requirement are estimated to be as high as \$87 million.

Fifth, the Health and Human Services Department has proposed or finalized several rules that reduce regulatory burdens and restrictions on doctors and hospitals and that are expected to save more than \$5 billion over the next five years.

There are many other look-back efforts—in all, the initial round of retrospective proposals is expected to eliminate millions of hours of required paperwork for individuals, businesses, and State and local governments and to save billions of dollars.

Improvements in Everyday Life

Every time Americans drive a car, take a breath, swim in a lake, or take a medication they are benefiting from regulations. As noted, such improvements in quality of life often show up in national accounts only as a fraction of their total benefit to society. For example, although the growth and size of the pharmaceutical industry are reflected in GDP, the value of assurances given to the U.S. public that the medicines they are taking have been tested and verified to be effective and safe goes far beyond the measured value of that sector to the national economy.

Similarly, the Clean Water Act and its associated permitting requirements have reduced effluent discharge into U.S. streams, lakes, and estuaries. Putting a price tag on the benefits of being able to swim, fish, and boat in those bodies of water is difficult. Regardless of the value, some of those benefits (for example, increasing expenditures on fishing equipment and recreation) will show up in a calculation of GDP, while many others (such as reducing the level of fecal coliform in the water) will not. The EPA estimates the benefits of reducing discharge of conventional pollutants to U.S. rivers and streams to be approximately \$11 billion annually (Bingham et al. 2000).

The EPA's Superfund program, which identifies, investigates, and cleans the Nation's most contaminated hazardous waste sites, has also improved public health. Since 1980 the Superfund program has prevented millions of people from being exposed to hazardous substances by requiring protective and containment measures and the removal from industrial sites of many millions of tons of material contaminated with toxic chemicals such as lead, arsenic, mercury, and benzene (EPA 2011c). Studies have shown that Superfund cleanups have lowered the risk of acute poisoning, improved infant health, and decreased the risk of cancer (Currie, Greenstone, and

Moretti 2011; and EPA 2011c). Those improvements are generally not captured well in GDP for any given year.

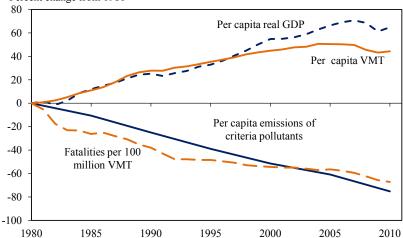
Even though smart regulations can impose restrictions on the private sector, as Figure 8-2 illustrates, the resulting benefits do not come at the cost of prosperity or sacrifices in U.S. standards of living. Over a period of decades, air quality has improved while the economy has grown; indeed, the demand for clean air and water has risen along with income across countries (see for example, Grossman and Krueger 1995; and World Bank 1992). Even though those benefits do not show up directly in GDP measures, they are consistent with increases in conventional (albeit incomplete) measures of growth. Per capita GDP has shown substantial growth between 1980 and 2010, rising by 65 percent, while at the same time per capita emissions of criteria pollutants (lead, carbon monoxide, sulfur dioxide, nitrogen oxides, particulate matter, and ozone) have declined by nearly 75 percent. Similar achievements have been made in other areas as well. The number of fatalities on U.S. roads per million vehicle miles traveled (VMT) has declined by 67 percent between 1980 and 2010, while VMT per capita increased by 44 percent, reflecting the effectiveness of road and vehicle safety regulations.

INNOVATION

Innovation, loosely defined as the introduction of a new or improved product, service, or process, is the primary source of long-run increases in productivity and human welfare (Grossman and Helpman 1991). When new ideas are integrated into the economy, they offer new possibilities for both production and consumption. Innovation comes in two general forms: process and product innovation. Process innovations involve new or improved methods of production or distribution, often as firms seek to reduce costs. The cost savings are reflected in conventional accounting statistics as greater productivity. Over time, rising productivity drives the growth in the amount of output that the economy can produce. By contrast, product innovations introduce new or improved products or services into the marketplace. As noted, consumers benefit from product innovations in ways that conventional accounting statistics do not adequately measure.

Although there is no perfect measure of the importance of innovation to an economy, by many measures innovation has played an increasingly important role in the U.S. economy in recent decades. For example, the industries classified by the OECD as "knowledge- and technology-intensive" have steadily increased as a share of the U.S. economy, from 34 percent of GDP in 1992 to 40 percent in 2010, according to the National Science Foundation (2010; 2012).

Figure 8-2 Economic Growth, Vehicle Safety, and Air Quality, 1980-2010 Percent change from 1980



Note: VMT is vehicle miles traveled. Criteria emissions are linearly interpolated from 5year interval data between 1980 and 2010.

Source: National Highway Traffic Safety Administration; Federal Highway Administration; Environmental Protection Agency; Bureau of Economic Analysis.

Private-sector competition is the primary driver of innovation. Firms in innovative industries must continually work to improve their products or increase their efficiency to avoid losing market share to competitors. Businesses that successfully invest in innovations are rewarded in the marketplace. Incentives for businesses to invest in innovation are often less than optimal from the perspective of society as a whole, however, primarily because the innovator may not be able to capture all of the benefits generated by the innovation. The positive spillovers from innovation mean that the private returns from innovation will often be less than the social returns, particularly when it comes to basic research. Private firms have limited incentive to conduct basic scientific research from which they generally can capture only a small fraction of the value that emerges from that research. As a result, private markets may lead to underinvestment in basic science and limited diffusion of scientific advances.

Because private incentives to invest in innovation are often inadequate, public-sector support for innovation has important benefits. Government can promote innovation in many ways. By operating a well-functioning system of intellectual property rights, the government can help innovators earn returns commensurate with the social value of their innovations. Government can increase investment in innovation through research and development (R&D) expenditures, both by direct funding and by tax incentives. It can facilitate the commercialization of innovations by removing barriers that prevent the private sector from transforming inventions into marketable products. It can provide infrastructure necessary for innovation, for example by allocating spectrum to support the growth of wireless broadband, itself an important platform for innovation in mobile devices, applications, and services. The government can also target innovation initiatives to areas of key public importance, including education, health care, and energy. This section of the chapter discusses these issues and describes some of the Federal Government's current efforts to promote innovation in the U.S. economy.

Measuring Innovation

Innovation's crucial role in economic growth and welfare has prompted efforts to improve the tools to measure it. One longstanding approach to measuring innovation is to infer that any economic growth *not* attributable to additional capital and labor must be due to some sort of "technical change." This so-called "Solow residual" approach (Solow 1957), however, leaves unanswered many questions about the nature of the technical change.

Data on patenting activity can provide a useful, if imperfect, measure of innovation. Although many innovations are kept secret to preserve competitive advantage, many others are made public through patent filings. The innovations for which patents are granted vary greatly in their significance, however, and a raw count of patents cannot account for these differences. Moreover, increases in patent activity over time may be attributable, at least in part, to more aggressive patenting of marginal innovations rather than increases in innovation itself (Hall and Ziedonis 2001). To address these limitations, studies of innovation have often relied on measures of patent citations. For example, the number of times a firm's patents are cited by other patent applications is more closely correlated with the firm's market value than is the raw number of patents it holds (Hall et al. 2001).

New measurement efforts have focused on the funds allocated to R&D within the economy. Historically, R&D has been treated as an intermediate input to the production process and is therefore excluded from GDP estimates. Beginning in 2013, the GDP estimates produced by the Bureau of Economic Analysis (BEA) will include R&D under the category of investment, increasing measured GDP. Spending on R&D is large and growing; if the new definition had been in effect earlier, current-dollar GDP in 2007 would have been, on average 2.7, percent higher, and R&D would have accounted for 6.3 percent of real GDP growth between 1998 and 2007.

In addition, to help improve understanding of the role of R&D in fostering innovation, the Census Bureau and the National Science Foundation (NSF) have introduced the Business R&D and Innovation Survey. This new survey combines firm-level data on R&D expenditures with measures of new or improved products or processes and patenting and licensing activity. The first group of 40,000 for-profit firms was surveyed in 2009, and some preliminary findings have been reported. For example, the NSF reports that companies that invest in R&D exhibit far higher rates of innovation than other firms (Boroush 2010).

Measuring innovation is particularly challenging in the growing medical care sector. For example, medical science has established that aspirin—an old and inexpensive product—can substantially reduce heart attack risk. Patients have seen enormous benefits from that scientific advancement, but those benefits are not captured by estimates of GDP. The National Institute on Aging has sponsored research on the development of national health accounts that would gauge the population's health status and measure how medical care and other factors affect health.

Intellectual Property Rights and Patent Reform

Innovation is spurred in part by the desire to reap rewards for developing new products and services that people will value. The central purpose of intellectual property (IP) rights, which include patents, trademarks, and copyrights, is to promote innovation by giving IP owners the right to exclude others from making use of their novel product or service. Well-designed IP rights enhance the private returns to innovation and bring them closer to the social returns, thereby increasing the incentives to invest in socially valuable innovation. As President Lincoln famously said, the patent system "added the fuel of interest to the fire of genius" (Edwards 2006).3

The United States has long had a robust system of IP rights. In fact, one of the powers explicitly given Congress in the Constitution is "To promote the Progress of Science and useful Arts, by securing for limited Times to Authors and Inventors the exclusive Right to their respective Writings and Discoveries." In recent years, however, many observers have raised concerns about the U.S. patent system. For example, the Federal Trade Commission (FTC 2003) describes concerns that the patent system has failed to keep up with the challenges posed by the growth of the knowledge-based economy. Similarly, the National Academy of Science (NRC 2004) describes unease among academics and practitioners that "the escalation in the number of patents, possibly encouraged by a lowering of the threshold to their

³ President Lincoln was himself an inventor. He was granted patent no. 6469 in 1849 for a flotation system for lifting riverboats stuck on sandbars.

acquisition, was creating thickets of rights that could impede innovation." Shapiro (2008) sees the core problem as being that, in some circumstances, "the patent system predictably provides excessive rewards to patent holders." The opportunity for excessive returns can arise when patents are issued for technologies that are not genuinely novel or when a patent covers a small component of a complex product that allows the patent's owner to extract royalties disproportionate to the incremental value of the component. Some empirical evidence suggests that, at least in certain industries, greater patenting activity has in fact led to *reduced* R&D intensity (Hunt and Bessen 2004).

To address concerns about the performance of the patent system, President Obama, on September 16, 2011, signed into law the America Invents Act, the most significant reform of U.S. patent law since 1952. By allowing third parties to provide the patent office with additional information that may be helpful in assessing the novelty of an invention for which a patent application has been filed, the new law will reduce the number of improperly issued patents and thus increase "patent quality." The law will also reduce unnecessary litigation by creating new ways of resolving patent disputes more quickly and cheaply, allowing inventors to invest with more confidence in the validity of their IP rights while reducing the drag on innovation caused by improperly granted patents. The law will also reduce wait times for patent applicants by giving the U.S. Patent and Trademark Office more resources to reduce the backlog of applications and by creating a "fast-track option" for time-sensitive patent applications such as those from fast-growing startups or entrepreneurs seeking venture capital. Last, the new law will harmonize the American patent system with patent systems in the rest of the world by adopting a "first inventor to file" system. This change will make the U.S. system more efficient and predictable, allowing innovative entrepreneurs to market their products more easily in the United States while simultaneously exporting them abroad.

Private and Public Investments in R&D

R&D is a critical driver of innovation. Investments aimed at creating new knowledge or applying existing knowledge in new ways are often a necessary precursor to developing new or improved products or processes or entire new industries. Although innovative activities extend far beyond conventional R&D, and innovations arise in industries that perform little R&D as such, investing in R&D is generally an important element of innovative activity.

A large body of research confirms that investments in R&D increase productivity growth (CBO 2005). Other research demonstrates that the social returns to R&D investment are generally substantially greater than

the private returns. For example, Nordhaus (2004) concludes that "only a minuscule fraction of the social returns from technological advances over the 1948–2001 period was captured by producers, indicating that most of the benefits of technological change are passed on to consumers." (See also Hall, Mairesse, and Mohnen 2009; Bloom, Schankerman, and Van Reenen 2010; and Jones and Williams 1998.) These findings support the conclusion that R&D investments often have important positive spillover effects that prevent private firms from fully capturing the benefits of their innovations, thus giving them inadequate incentives to invest in R&D. In addition, Hall (2002) finds evidence that capital market imperfections may lead to underinvestment in R&D even in the absence of these spillovers. In short, economics research provides persuasive support for a robust government role in promoting R&D.

The United States is a world leader in R&D investments. With an estimated \$400 billion in public and private expenditures in 2009, the United States invested more in R&D than China, Japan, and Germany combined. Moreover, R&D spending as a share of the U.S. economy has been increasing in recent years, with the ratio of R&D spending to GDP reaching nearly 2.9 percent in 2009, the highest since the 1960s. During that interval, however, the composition of U.S. R&D spending shifted dramatically. During the 1950s and 1960s, the majority of total R&D expenditures was federally funded; today nonfederal sources predominate. Private industry investments have consistently accounted for about 90 percent of all nonfederal R&D expenditures.

Despite the increasing role of private-sector investment in R&D, public support for R&D remains critically important, particularly in basic research, which aims to expand scientific knowledge and thus does not generally have immediate commercial applications. Private firms can thus find it especially difficult to capture the benefits that stem from this research, and the positive spillover effects of basic research can be especially large. For example, NSF-funded basic research into the principle of nuclear magnetic resonance ultimately led to the development of magnetic resonance imaging (MRI) machines, a medical imaging technology that has significantly improved diagnosis for cancer and other conditions. Not surprisingly, the Federal Government is a strong supporter of basic research. In 2008, while the Federal Government accounted for only 15 percent of U.S. development expenditures and less than one-third of applied research expenditures, it accounted for nearly 60 percent of the Nation's basic research expenditures.

Overall, the Federal Government provides substantial support for R&D. In 2009, when the Recovery Act helped Federal R&D spending reach 1.18 percent of GDP, the U.S. Government invested a greater share of GDP

in R&D than did the government of any other OECD country. Even in other years, the U.S. Government's R&D investments relative to GDP have substantially exceeded the OECD average. Although this largely reflects U.S. dominance in military R&D (national defense has historically accounted for more than half of Federal R&D expenditures), many defense-related innovations ultimately have significant benefits in the private sector. Research into communications networks by the Defense Advanced Research Projects Agency, for example, ultimately led to the emergence of the Internet.

Recognizing the importance of R&D for innovation, in April 2009, the President set the goal of devoting more than 3 percent of GDP to R&D, both public and private—a share that surpasses the record of almost 2.9 percent set in 1964 at the height of the space race. In its effort to reach this goal, the Administration has supported large increases in Federal R&D funding. The Recovery Act's investment of \$18.3 billion in research funding was part of the largest annual increase in R&D funding in U.S. history. The President's Fiscal Year 2013 Budget has proposed additional support for science and basic research, making progress toward the goal of doubling funding for three key basic research agencies—the National Science Foundation, the Office of Science in the Department of Energy, and the National Institute of Standards and Technology. A particular success story is the Small Business Innovation Research (SBIR) and Small Business Technology Transfer (SBTT) programs, competitive programs that provide about \$2.5 billion annually to the most promising research projects at small firms. From 2002 to 2006, about one-fourth of the "top 100" innovations selected by R&D Magazine came from companies that had received an SBIR grant at some point in their history. Recognizing the importance of continuing these successes, on December 31, 2011, President Obama signed a bill reauthorizing the SBIR and SBTT programs for the next six years.

In addition to direct Federal funding for R&D, the Administration has promoted incentives to support private R&D investment. The Research and Experimentation tax credit, for example, enacted in 1981, provides a tax credit based on qualified research expenses to encourage businesses to increase their investments. Subsidizing this activity through the tax system allows the private sector, rather than the government, to choose the research projects and the method for conducting the research. Recent studies show that the credit is a cost-effective way to encourage research spending (U.S. Treasury 2011). On September 8, 2010, the President proposed to expand and simplify the credit and to make it permanent; that proposal is also included in the President's FY 2013 Budget. The proposal will further enhance private firms' incentives to invest in research and will provide

businesses with assurance that the credit will be available for the duration of long-term research projects.

Commercialization

An important stage in the process of innovation is commercialization of new technologies. New inventions and new knowledge alone will have little effect on economic welfare unless they are converted into marketable products or processes that change how firms do business. One obstacle to realizing the economic benefits of innovation is the difficulty in transferring new ideas from universities and Federal laboratories to the marketplace. For example, recent empirical studies point to substantial frictions attributable to licensing costs and show large gains in innovation when these frictions are reduced (Williams 2010). Other researchers have found that universities often adopt technology transfer policies that constrain the volume of innovations brought into the marketplace (Litan, Mitchell, and Reddy 2007).

As the President announced in January 2011, one of the goals of the Administration's "Startup America" campaign is to foster innovation by increasing the rate of technology transfer. Since then, the Administration has announced a number of initiatives in support of this goal. In October 2011, the President issued a Presidential Memorandum directing the heads of Executive departments and agencies to take action to accelerate technology transfer and commercialization of Federal research in support of high-growth businesses. The National Center for Advancing Translational Sciences at the National Institutes of Health assists biomedical entrepreneurs by identifying barriers to commercialization and speeding development of new drugs and diagnostics. The Administration's National Bioeconomy Blueprint lays out a number of steps designed to advance biological research innovations, including reforms to speed commercialization and open new markets. The NSF's Innovation Corps program is a public-private partnership that will connect NSF-funded researchers with private-sector mentors who will help to transform the results of scientific research into commercially successful technologies. The Department of Energy (DOE) launched a program called "America's Next Top Energy Innovator," which offers startup companies low-cost and streamlined procedures for licensing new energy technologies patented by DOE labs. Together, the Administration's "lab-to-market" initiatives will encourage universities and government research centers to streamline their technology transfer procedures, support additional government-industry collaboration, and encourage the commercialization of novel technologies flowing from research programs—in short, they will facilitate the commercialization phase of the process of innovation.

Wireless Broadband and Spectrum Policy

Information and communication technology (ICT) is vitally important to the U.S. economy. A large body of research has linked economic growth in recent decades with ICT expansion. For example, Roller and Waverman (2001) estimate that one-third of the growth in per capita GDP in 21 developed economies from 1970 to 1990 is attributable to investments in telecommunications infrastructure. Similarly, Bloom, Sadun, and van Reenen (2007) note that the great majority of growth in U.S. productivity since the mid-1990s has been in sectors that either intensively use or produce information technologies.⁴

Wireless broadband is a form of ICT that can transform many different areas of the American economy by providing a platform for innovation, in areas ranging from media-rich consumer products to health care and education technologies. Much of the investment necessary to realize the potential of wireless broadband will come from the private sector. According to the Census Bureau, total capital spending by wireless telecommunications carriers has exceeded \$20 billion in each year since 2000 (U.S. Census Bureau 2011). Public support is necessary in some important areas, including developing a nationwide wireless broadband network for public safety and extending wireless broadband services into rural communities, both of which are discussed in this chapter in the section on infrastructure. Another important way that the government can help to support the growth of wireless broadband is by making more spectrum available, both for licensed and unlicensed use. With the proliferation of smartphones, tablets, and other mobile devices with Internet access, mobile data traffic has been growing tremendously, more than doubling between 2009 and 2010, and industry forecasters expect data traffic to continue to grow rapidly (Cisco 2011). To accommodate this surging demand, wireless carriers will need access to additional spectrum.

In early 2011, President Obama introduced his National Wireless Initiative. The proposal aims to nearly double the spectrum available for wireless broadband in the next 10 years by freeing up 500 megahertz (MHz) of spectrum currently allocated to other uses. Some of this spectrum will be shifted away from Federal Government uses, in part by finding ways to make more efficient use of the remaining Federal and shared spectrum. Any changes in the use of Federal spectrum will be designed to ensure that there is no harmful interference with public safety needs or other critical public uses of the spectrum. Doubling the spectrum for wireless broadband will

⁴ Jorgenson et al. (2008) estimate that ICT accounted for 59 percent of productivity growth during 1995–2000 and 38 percent during 2000–2006. Most recently, Brynjolfsson and Saunders (2010) conclude that most U.S. productivity growth since 1995 can be attributed to ICT.

also require changes in commercially licensed spectrum. Shifting to wireless broadband a portion of the spectrum now licensed for over-the-air television broadcasting will yield substantial economic benefits. To ensure that commercially held spectrum is reallocated efficiently and that the economic benefits are widely shared, the Administration supports using "voluntary incentive auctions" to guide the reallocation. These auctions will allow existing licensees to receive a portion of the auction proceeds in exchange for voluntarily making their spectrum available for wireless broadband. The auctions will also generate substantial revenues for the U.S. Treasury, providing support for important goals, including deficit reduction, R&D for emerging wireless technologies, and a nationwide interoperable wireless broadband network for public safety.

CLEAN & SECURE ENERGY

In his State of the Union address, President Obama, noted that, "This country needs an all-out, all-of-the-above strategy that develops every available source of American energy. A strategy that's cleaner, cheaper, and full of new jobs." The President has outlined goals that will set the United States on a path toward lowering its dependence on oil and developing cleaner domestic energy sources that reduce emissions of air pollutants. Those include goals to continue focusing on increasing responsible domestic oil and gas production, to reduce foreign oil imports by a third by 2025, and to increase the share of electricity generated from clean energy sources—including nuclear power, natural gas, clean coal, and renewables like wind and solar—to 80 percent by 2035.

The President has outlined a *Blueprint for a Secure Energy Future* to guide the Nation's transition to a clean and secure energy economy. While the market provides key signals that greatly influence energy production and consumption decisions, energy markets are subject to market failures, so the government has an important role to play in guiding the mix of energy supplies and uses that is best for the Nation. The government also has a role to play in increasing energy security, reducing air pollution, promoting clean energy through investments in innovation and infrastructure, and establishing rules of the road that promote a cleaner and more secure energy future.

Enhancing Energy Security

The short-run demand for energy is relatively inelastic, so consumers will bear the brunt of sudden, unexpected energy supply disruptions in the form of price increases, causing them to reduce their consumption of other goods and services, or reduce savings. Elevated global energy prices can,

in turn, slow economic growth. Promoting the development of alternative energies and energy-efficient technologies reduces the economy's vulnerability to international energy supply shocks and improves energy security. Oil consumption per thousand dollars of real GDP has fallen by about half since 1980 (from almost one barrel per thousand dollars of GDP in 1980 to about 0.5 barrel per thousand dollars of GDP in 2010). Despite progress in reducing the "petroleum intensity" of the economy, vulnerability to increases in the global market price of crude oil remains. We can improve energy security by lowering demand for petroleum and by increasing the supply of domestic conventional and alternative energy.

Reducing Demand

During the past year, the Administration has pursued a course that reduces demand for petroleum. In November, EPA and DOT proposed new fuel economy standards for vehicle model years 2017-2025, building on the successful programs for the 2011 and 2012–2016 model years. These standards will save consumers money at the pump, dramatically reduce the Nation's dependence on oil, and increase investment in new technologies and new manufacturing here in the United States. Under the proposed rules, fuel economy standards from the DOT, greenhouse gas (GHG) emission standards from the EPA, and State of California regulations will be harmonized and auto companies will be able to rely on well-defined regulatory targets to help steer their investments in producing advanced vehicles. Annualized costs of the rule are expected to be between \$6.4 billion and \$10.6 billion; annualized fuel savings are expected to range between \$20.3 billion and \$26.7 billion (2009 dollars). Additional annualized benefits from improved health, greater energy security, and lower GHG emissions are expected to range between \$5.4 billion and \$6.4 billion. Taken together, the fuel economy standards proposed for model years 2011-2025 are projected to reduce oil consumption by over 2.2 million barrels per day by 2025, and save consumers \$1.7 trillion in fuel costs.

The President has also proposed a new tax incentive to offset half of the incremental cost of dedicated alternative-fuel commercial vehicles, such as natural gas and electric trucks, for a five-year period. In addition, the President has proposed transforming the individual tax credit for consumers who purchase advanced vehicles into a rebate.

Increasing Domestic Energy Supplies

The Nation has pursued strategies to safely increase domestic energy sources. As part of this focus, the President is committed to advancing the responsible production of domestic oil and natural gas resources. Thanks

to higher domestic production and lower imports, dependence on foreign oil is being reduced. In 2010, for the first time in over a decade, the United States relied on net imports for less than half of the oil we consumed; in 2011, import dependence declined even further, to 45 percent. Since 2007, the United States has been the leading natural gas producer in the world.

To help ensure safe and responsible development of abundant natural gas resources, the Administration is taking a number of steps, including: exploring home grown technologies and methods to improve safety and environmental performance of shale gas production; encouraging greater use of natural gas in transportation; and requiring disclosure of chemicals used in hydraulic fracturing on public lands. As Box 8-1 describes, the development of unconventional oil and gas deposits across the United States illustrates how American enterprise and innovation in horizontal drilling and hydraulic fracturing, combined with government-supported research, have unlocked vast new domestic oil and gas resources.

The United States has also increased the amount of ethanol and biodiesel blended into the nation's fuel supply. In 2011, ethanol and biodiesel production in the United States were estimated by the U.S. Energy Information Administration (EIA) to be roughly 14 billion gallons and 920 million gallons, respectively (EIA 2012). That represented about 10 percent of U.S. gasoline demand and 2 percent of diesel demand for 2011. In March 2011, the President set the goal of breaking ground on at least four commercial-scale cellulosic or advanced bio-refineries over the next two years, and we are on track to exceed that goal. In addition, the Administration announced a partnership between the Departments of Agriculture, Energy and the Navy to invest in multiple domestic commercial or pre-commercial scale bio-refineries to produce advanced "drop-in" biofuels, substitutes for diesel and jet fuel.

Reducing Emissions

The Administration has taken historic steps to address air pollution from stationary sources such as aging coal-fired power plants. The Mercury and Air Toxics Standard (MATS) regulation announced by the EPA in December, for example, will reduce emissions of sulfur dioxide, mercury and other toxic air pollution and generate between \$27 billion and \$80 billion in net benefits annually by improving people's health.

In addition, to create a market for innovative technologies that will encourage the deployment of clean energy and the benefits that come with it, such as reduced emissions of air pollutants and greenhouse gases, the President has proposed a Clean Energy Standard (CES).

A CES works by giving electric power plants clean energy credits for electricity they generate from clean energy. Utilities that serve retail customers are responsible for making sure they have enough clean energy credits to meet their target. Utilities that generate more clean energy than needed to meet their target can bank their extra credits for later use, or sell them to other companies. Under the President's proposal, the target would increase over time, so that by 2035, 80 percent of the country's electricity would be generated from clean sources. This flexible approach would harness private-sector incentives to minimize the cost of generating electricity from clean energy sources.

Because of cleaner power plants, greater use of alternative fuels, and more energy-efficient vehicles, buildings, and appliances, EIA (2012) expects per capita emissions of carbon dioxide in the United States to fall over time, by an average of 0.8 percent a year between 2010 and 2035.

Supporting Clean Energy R&D and Infrastructure

Public investments in innovation and infrastructure are critical to solving the twin objectives of increasing energy security and reducing GHG emissions. Private-sector investment in energy R&D and infrastructure will be less than optimal because the positive externalities from such investments prevent private firms from fully capturing the benefits. Support for innovation is a key piece of the *Blueprint* strategy, which involves creating markets for clean technologies that are ready to deploy and funding cutting-edge research to deliver the next generation of technologies. In addition, investments in modernizing the energy infrastructure with advanced technologies will help to increase efficiency and reduce waste. Innovation and adoption of new technologies will be critical to improving energy efficiency and shifting the Nation's energy use toward low-carbon energy generation.

Among the DOE offices that provide support for clean energy innovation is the Advanced Research Projects Agency-Energy (ARPA-E), an organization modeled after the Defense Advanced Research Projects Agency. ARPA-E provides funds to develop advanced energy technologies that reduce energy-related emissions and increase energy efficiency, focusing on transformational energy research that the private sector by itself is unlikely to support. The Obama Administration funded ARPA-E for the first time with \$400 million as part of the Recovery Act. This funding, along with subsequent appropriations, has been used to support about 180 projects, including technologies for plug-in electric vehicles, batteries that convert wind power into a steady power source, and microorganisms that produce liquid biofuels from sunlight and carbon dioxide. The President's Fiscal Year 2013 Budget proposes \$350 million in new funding for ARPA-E to continue

Box 8-1: Developing Domestic Energy: Shale Gas and Shale Oil

Shale gas and shale oil (also known as "tight" oil) are deposits trapped inside formations of fine-grained sedimentary rocks, or shale. As recently as a decade ago many of these deposits were viewed as uneconomical to extract. Now they are being profitably extracted, leading to a boom in production from these unconventional oil and gas deposits.

The President has been clear about the importance of domestic oil and gas production, including the central role responsible natural gas development will play in our energy future, increasing energy independence, and supporting jobs.

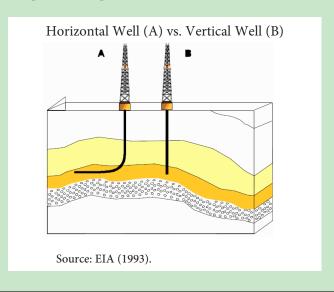
The percent of new wells directed to shale gas and oil deposits surged from 13 percent in 2005 to 57 percent in 2011. That dramatic increase is in large part due to rising energy prices in the early 2000s, which made it profitable for oil and gas companies to pursue higher cost reserves. But it is also due in part to R&D investments made by the Department of Energy (DOE). Between 1978 and 1992, the DOE invested about \$137 million in the Eastern Gas Shale program, which helped develop and demonstrate directional and horizontal drilling technology.

Horizontal drilling allows multiple wells to be completed from one drilling pad by drilling vertically for several thousand feet and then drilling horizontally. Hydraulic fracturing pumps water, chemicals and sand into the well to fracture the surrounding rock, releasing trapped natural gas and oil, allowing more gas and oil to be captured (see figure). From 2006 through 2010 the average annual growth rate of shale gas production was 48 percent. By 2035 shale gas is expected to make up 49 percent of total U.S. natural gas production, up from 23 percent in 2010 (EIA 2012). Increased supply has caused wholesale natural gas prices to fall more than 75 percent from their peak in October 2005 through October 2011. This led to a 67 percent drop in prices charged for natural gas used to generate electricity and a 34 percent decline in residential natural gas prices.

Domestic oil production also grew in 2009 and 2010, in part due to horizontal drilling methods. That growth helped improve America's energy security. We reduced our imports of crude oil, from 10.1 million barrels per day in 2005 to an estimated 8.9 million barrels per day in 2011. EIA (2012) projects that domestic oil production will continue to increase through 2020. We are also exporting more refined petroleum products than ever: between the first half of 2009 and the first half of 2011, exports of mineral fuels and oils jumped 150 percent, an increase valued at more than \$35 billion (see Chapter 5). In addition, the United States is at the forefront of exporting extraction technologies and related services to other countries interested in tapping their own unconventional oil and gas reserves.

This expansion of natural gas and oil production has also supported jobs for thousands of Americans. Bureau of Labor Statistics (BLS) data show that oil and gas extraction and drilling services jobs have grown by 100,000 between 2005 and 2010, with much of that increase tied to horizontal drilling for shale gas and oil. The industry also indirectly supports many more jobs, including jobs associated with the transportation, processing, and distribution of oil and natural gas products. Furthermore, downstream industries, such as the chemical and plastics sectors that use natural gas as an important input, benefit from the expanded supply of natural gas.

Such tremendous growth also comes with the responsibility to develop these new resources safely. A number of concerns have been raised regarding the potential adverse environmental impacts associated with current shale gas extraction practices, particularly the use of hydraulic fracturing. The Obama Administration is taking a number of steps to ensure that the United States can realize the economic benefits of its natural gas resources in a an environmentally responsible way. An important part of this effort consists of targeted research coordinated between the DOE, the Department of the Interior, and the Environmental Protection Agency to assess and address potential impacts of natural gas and oil development using hydraulic fracturing and to identify innovative ways to reduce adverse environmental impacts. For example, the DOE is actively involved in research exploring improved methods to treat the water used in shale gas extraction so it can be reused or disposed of safely. The Administration is committed to ensuring that natural gas and oil extraction will be pursued in a prudent manner that is safe for the environment.



to support breakthrough clean energy research in areas such as solar energy, energy storage, carbon capture and storage, and advanced biofuels.

An important part of the effort to transition to a clean energy future is the "SunShot Initiative" announced by the DOE in February 2011. This initiative supports innovation to reduce the cost of solar energy by 75 percent by 2020, making unsubsidized solar energy cost-competitive with other forms of energy. Achieving the goal will require major innovations in the ways solar technologies are conceived, designed, manufactured, and installed. SunShot is investing in solar technology and manufacturing improvements and working to reduce installation and permitting costs. According to DOE (2011) analysis, by reducing the cost of solar electricity to about six cents per kilowatt hour, SunShot has the potential to increase the share of electricity generation from solar photovoltaics to 15 percent by 2030.

As the United States transitions to a clean energy future, an important way to improve energy efficiency, reliability, and security is to upgrade the electricity transmission and distribution infrastructure to make greater use of advanced technology and to incorporate real-time communications, monitoring, and control systems. Transforming the electricity infrastructure into a "smart grid" could lead to substantial cost savings and efficiencies, help avoid blackouts, and improve the integration of renewable energy sources on the grid. The Recovery Act included \$4.5 billion in grid modernization investments, matched by contributions of more than \$5.5 billion from the private sector. Building on these investments, the Administration announced a number of new initiatives to support the development and deployment of smart-grid technologies, including \$250 million in loans to deploy smart-grid technology in rural areas under the Rural Utility Service. In June 2011, the White House released a report by the National Science and Technology Council, "A Policy Framework for the 21st Century Grid: Enabling Our Secure Energy Future," outlining policy recommendations that build on existing smart-grid investments to foster continued modernization of electricity infrastructure.

In addition to efforts to support smart grid development, the Administration has announced efforts to improve Federal coordination and ensure timely review of proposed renewable energy projects and transmission lines through the formation of two interagency Rapid Response Teams, one for transmission and one for renewables. The Rapid Response Team for Transmission is focused on seven pilot project transmission lines which cross through 12 states. These projects were selected from lists produced through independent stakeholder processes. When built, these seven pilot projects will help increase electric reliability and integrate renewable energy into the grid. The agencies participating in the Renewable Energy Rapid Response Team have all made significant strides toward the deployment of renewable energy through the development of better government processes to issue permits for renewable energy projects.

Infrastructure

As emphasized, energy infrastructure is critical for developing our domestic clean energy potential. Infrastructure also includes transportation systems like roads, railways, ports and airports; information and communications networks; and schools, parks, and other public facilities. As economic activity grows, the infrastructure that supports it must grow as well. Moreover, physical infrastructure deteriorates over time and requires ongoing investment for maintenance. If investments to maintain, upgrade, and expand infrastructure do not keep pace with the growth in demand, the result is congestion: too many hours sitting in traffic or in an airplane stalled on the tarmac, too many dropped calls, slow Internet connections. Such disruptions impose substantial economic costs through wasted time and resources and diminished quality of life. As a result, efficient infrastructure investments can have a significant positive impact on economic welfare.

The State of the Nation's Infrastructure

The value of the U.S. transportation capital stock steadily increased from 2004 to 2009, reaching more than \$6 trillion in 2009 (the most recently reported year). The greatest percentage increase in mileage for any mode of transportation from 2004 to 2009 was in light transit rail track, which increased by 24 percent, followed by commuter rail track, which increased by 10 percent. At the same time, the overall condition of many parts of the Nation's transportation infrastructure remained disappointing. In 2008, nearly 21 percent of urban interstate highways and 35 percent of urban collector roads were in poor or mediocre condition, according to the Bureau of Transportation Statistics. Moreover, in 2009 nearly 71,200 bridges—more than 10 percent of all U.S. bridges—were rated as structurally deficient.

The current disappointing state of transportation infrastructure is partly reflected in rising levels of congestion on many parts of the transportation system, particularly urban roadways. According to the Texas Traffic Institute's (TTI) *Urban Mobility Report*, traffic congestion in urban areas in 2010 accounted for 4.8 billion hours of travel delay and 1.9 billion gallons of wasted fuel, for an aggregate congestion cost of more than \$100 billion, an increase of more than 25 percent over 2000 in constant (inflation-adjusted) dollars (Schrank, Lomax, and Eisele 2011). If current trends continue, TTI projects that the total cost of congestion in U.S. urban areas could grow by

a further 32 percent in real terms by 2015. These estimates likely understate the real effects of congestion on welfare because they do not take into account the reduction in quality of life that results from additional time spent commuting. Studies of how individuals experience the activities of daily life have found that commuting is among the least enjoyable and most stressful (Kahneman et al. 2004, Stutzer and Frey 2004).

The U.S. electricity grid is also showing signs of strain, with investment in capacity generally lagging behind growth in demand. According to the DOE (2008), growth in peak demand for electricity has exceeded transmission growth by almost 25 percent every year since 1982. Power outages and interruptions have become more frequent and are now affecting more consumers. The DOE reported that 41 percent more outages affected 50,000 or more consumers in the second half of the 1990s than in the first half, and the average outage affected 15 percent more consumers. By 2008, power outages and interruptions cost Americans an estimated \$150 billion each year.

Broadband is another important category of infrastructure where the United States faces significant investment needs. Described by the Federal Communications Commission as "the great infrastructure challenge of the early 21st century" (FCC 2010), broadband's growth over the past decade has been substantial. Thanks to significant investments by telecommunications and cable companies, 95 percent of the U.S. population had access to wired broadband service in 2010, and industry analysts project that by 2013, wireless providers will offer such service to about 94 percent of the population. (Atkinson et al. 2011). At the same time, many households, particularly in rural areas, continue to have Internet access only at much slower speeds. As discussed, perhaps the most significant challenge to the Nation's broadband infrastructure is the threat of growing congestion on wireless networks.

Overall, evidence is growing that the United States has been underinvesting in many kinds of infrastructure. For example, the Nation invests annually approximately 2 percent of GDP on infrastructure, compared with 9 percent and 5 percent, respectively, for China and Europe. In addition, compared with other OECD countries, Americans are relatively dissatisfied with their local public infrastructure systems, according to the Gallup World Poll. Americans' satisfaction with public transit ranks 25th out of 32 OECD nations, and satisfaction with roads and highways ranks 17th out of 32. Many observers, including the American Society of Civil Engineers (2009), have concluded that the United States faces a substantial need for infrastructure investment over the next five years. Although the optimal level of infrastructure investment is difficult to quantify precisely, the evidence strongly suggests that the United States has not been investing adequately to meet future infrastructure needs.

Government and Private Sector Roles in Infrastructure

In the United States some kinds of infrastructure, including most roadways and public transit systems, are typically owned and financed by government; other kinds, such as freight railways and telecommunications networks, are largely privately owned. In part, these patterns of ownership reflect historical accident. In choosing how much public support for infrastructure to provide and how to finance it, the United States, like other nations, faces questions about how best to balance the roles of the public and private sectors in infrastructure investment. Two key economic principles are whether it is costly or difficult for a private owner or investor to earn a return by monetizing access to the network, through tolls or user fees, and whether important positive spillover benefits from infrastructure investment would prevent private investors from fully capturing the overall economic benefit, even if there were a dedicated revenue stream from users.

The most important potential positive spillover effect is that many infrastructure investments improve economic efficiency, increase productivity, and promote rapid economic growth. Through these effects, as a large body of research has shown, investments in infrastructure can substantially improve the long-run performance of an economy. For example, Munnell (1992) reviews the evidence on infrastructure investment and economic growth and concludes that, "in addition to providing immediate economic stimulus, public infrastructure investment has a significant positive effect on output and growth." Gramlich's (1994) review of the same research cautions that the rates of return on investments vary widely across different types of infrastructure and highlights the need for policies that direct public investment toward projects with the highest social return. More recent studies have found further evidence that public infrastructure investment often offers considerable returns, in some cases higher than those from private capital investment. This research is reviewed in a U.S. Treasury-CEA report (2010).

In addition to their long-run benefits on economic growth and productivity, investments in infrastructure can also provide short-run benefits during times when economic resources are underutilized, by supporting employment in construction and in materials production. These short-run effects depend on the state of the overall economy. When the economy is operating at or close to its full potential, the new employment generated by infrastructure projects generally requires diverting workers from other productive activities, and the expenditure of public funds may similarly divert funds from other investment opportunities. Certain infrastructure investments may still be justified during such times, but the opportunity costs of

diverting economic resources from other activities reduce the net benefits of such investments.

By contrast, today the economy is gradually recovering from the most serious economic crisis since the Great Depression and is operating significantly below its full potential, with unemployment still unacceptably high. In 2011, over 1.8 million workers in the construction industry were jobless, with an industry unemployment rate of 16.4 percent. In these circumstances, public infrastructure projects create net jobs for workers. With excess capacity widely available in the economy, increased public spending on construction materials and increased private spending by newly hired workers are unlikely to divert goods or materials from other uses. Similarly, with interest rates exceptionally low, there is little risk that Federal investment will crowd out private investment, and more infrastructure investments will yield a positive rate of return. Moreover, State and local governments, which typically fund a significant portion of infrastructure spending, have been forced to cut back on spending because of revenue shortfalls since the recession of 2007-09. Recent macroeconomic research confirms the intuition that the expansionary effect of Federal investment spending is likely to be significantly greater during times of substantial slack in the economy. For example, Auerbach and Gorodnichenko (2010) find that expansionary fiscal policy is substantially more effective during recessions than during expansions. Overall, with so many resources sitting idle, the opportunity costs of using those resources for infrastructure investment are greatly reduced. Moreover, postponing necessary infrastructure investments until after the economy has rebounded would have the undesirable effect of occupying productive resources just when the private sector needs them most.

Financing Infrastructure Investments

Government funding for infrastructure draws on a number of different sources, including Federal disbursements of Highway Trust Fund revenues and State and local issues of municipal bonds. Recent years have seen increased interest in alternative financing mechanisms that may expand the pool of available capital and improve the efficiency of project selection. A common theme in these alternative approaches is the goal of attracting more private capital for direct or indirect investment in transportation infrastructure. Increased reliance on the private sector to finance transportation infrastructure investments can help increase funding for those investments and may also improve the efficiency of project selection and drive greater returns on investment. For example, to attract private financing, many projects incorporate a dedicated revenue stream, often from user fees or other forms of usage-based pricing. Because these revenue streams

link investment returns directly to user demand, they can help to guide capital toward the most efficient projects. In general, innovative financing mechanisms can engage the private sector in infrastructure investments with important public benefits. In particular, this chapter considers three innovative approaches to private-sector engagement: public-private partnerships, particularly in the area of rail freight; Build America Bonds (BABs) as an alternative to municipal bonds that can attract new sources of private funding into the market for financing infrastructure projects; and a National Infrastructure Bank that has the potential to leverage private capital into projects of national significance.

Public-Private Partnerships. In the United States, most investment in freight railway infrastructure is privately financed, because it is largely owned by the rail carriers themselves. However, even in a network based on private ownership, important public benefits can be realized through investments that improve the flow of freight across the railway network. The benefits of diverting freight efficiently from trucks to rails, for example, include reduced highway congestion, greater safety, and reduced pollution. Public-private partnerships between State and Federal agencies and the rail carriers can be an efficient way to promote such investments. For example, the Chicago Region Environmental and Transportation Efficiency program is a public-private partnership between the U.S. Department of Transportation, the State of Illinois, the City of Chicago, Metra commuter rail, and Class I railroad companies. The partnership, formed to develop and implement a set of multimodal infrastructure improvements to untangle congestion choke points in the Chicago transportation hub, involves significant financial cooperation between the private railroad industry and public government entities.

Build America Bonds. Introduced in 2009, BABs are taxable bonds for which the U.S. Treasury Department pays a direct subsidy to the issuer to offset borrowing costs for public capital infrastructure projects. These bonds can function as an attractive alternative to municipal bonds, which deliver a borrowing subsidy only indirectly through the Federal tax exemption to investors for interest earnings. BABs appeal to a broader class of investors than tax-exempt municipal bonds, including nonprofits, pension funds, and many other institutional investors. Since the inception of the program in April 2009, BABs have had a very strong reception from both issuers and investors. They have supported more than \$181 billion of financing, in 2,275 transactions in all 50 states, the District of Columbia, and two territories, for new public capital infrastructure projects such as schools, bridges, and hospitals. An empirical study by the Treasury Department (2011) found that State and local governments that issued BABs realized considerable savings

relative to the cost of issuing tax-exempt bonds. The study also found that expanding the BABs program would lead to continued savings on borrowing costs for State and local governments. Although the initial program expired at the end of December 2010, the President's Fiscal Year 2013 Budget has proposed extending the program for two years at a subsidy rate of 30 percent and extending it permanently thereafter at a revenue-neutral subsidy rate of 28 percent. The Administration has also proposed expanding the program to include a broader range of eligible municipal projects.

National Infrastructure Bank. Another new approach to increasing private-sector participation in infrastructure investment is a National Infrastructure Bank, as President Obama has proposed as part of the American Jobs Act. The proposed bank would help increase overall investment in infrastructure by attracting private capital to co-invest in specific infrastructure projects and would help improve the efficiency of infrastructure investment by relying on a merit-based selection process for projects. To ensure substantial leverage of private capital, the bank would finance no more than 50 percent of the total costs of any project. It would fill in an important gap in the Nation's infrastructure funding system by focusing on projects of national or regional significance, whose effects cross over state and jurisdictional lines. Such projects are often at a disadvantage under current financing mechanisms, including state-level infrastructure banks and bonds issued by State and local governments. As a result, the National Infrastructure Bank would be a valuable complement to existing sources of funding and would improve the efficiency of U.S. infrastructure investment.

Recent and Current Federal Infrastructure Initiatives

Infrastructure investment has been an important priority throughout the Obama Administration. As discussed above, the modernization of the electricity grid is a key element of the effort to transition to a clean energy future. This subsection reviews some of the Administration's other recent and current initiatives to support infrastructure investment.

Transportation. The Recovery Act of 2009 provided over \$48 billion to fund transportation infrastructure investments. In 2010, the Federal Highway Administration announced that it had finished obligating more than \$26 billion of that amount for 12,000 road, highway, and bridge projects, and in June 2010, President Obama visited Columbus, Ohio, to commemorate the breaking of ground on the 10,000th such project. The Recovery Act also provided funds for investments in the Nation's air and sea transportation infrastructure, including \$1.3 billion to construct new runways and improve air traffic control facilities and equipment, as well as more than \$18 billion to support transit and high-speed rail. Many of these

and other recently completed transportation infrastructure investments have already produced substantial economic benefits for the American people, including increased flows of traffic in congested areas, improved highway safety, expansion of public transit service into new communities, and rehabilitation and maintenance of aging infrastructure.

Despite these substantial achievements, there is still a pressing need to revitalize America's infrastructure networks. Recognizing this need, President Obama has proposed \$50 billion in immediate investments in transportation infrastructure as part of the American Jobs Act. The proposal includes investments to speed up the permitting process, to make highways safer and more efficient, to repair and modernize public transit systems, to improve intercity passenger rail service and airports, to develop high-speed rail corridors, to support innovative multi-modal transportation programs, and to modernize the air traffic system by investing in the Next Generation Air Transportation System, or NextGen. The President also supports a robust renewal of surface transportation programs, now scheduled to expire on March 31, 2012, to keep existing and planned transportation projects moving forward.

Broadband. The Recovery Act provided \$7.2 billion to upgrade the Nation's broadband infrastructure, including \$4.7 billion for broadband infrastructure programs at the Department of Commerce's National Telecommunications and Information Administration (NTIA) and \$2.5 billion for the Department of Agriculture's Rural Utilities Service (RUS) to expand broadband access in rural areas. These two programs together received more than 3,800 applications requesting more than \$52 billion in support for potential projects in all 50 states and territories. When the final awards were announced in September 2010, NTIA had awarded approximately \$4 billion for 233 projects throughout the country. The funds will support the construction or upgrade of approximately 120,000 miles of broadband infrastructure and will improve broadband access for approximately 24,000 community institutions, including schools, libraries, and health care facilities. In addition, RUS has awarded more than \$3.5 billion in grants and loans for 320 broadband projects, which will provide broadband access for 2.8 million households and 364,000 businesses in rural areas.

As part of the National Wireless Initiative, the President has called for investment in a state-of-the-art nationwide wireless broadband network for public safety communications. Developing and deploying such a system would help enable interoperability at the national level, making first responders more effective when they are called on to cross jurisdictional lines. An interoperable network would also reduce the costs of the assorted interoperability measures now being used, ranging from swapping radios to

using Internet-based gateways to patch together noninteroperable systems. Moreover, deploying a single nationwide network would realize important scale economies, eliminating duplicative operating and maintenance costs and enabling public safety entities to obtain commercially supplied devices and equipment at substantially lower cost than they can today. Finally, with clear, nationwide standards that help make public safety communication systems interoperable across jurisdictions and vendors, software and hardware developers will find it more economical to invest in innovative public safety devices and applications, further enhancing the effectiveness of first responders.

Conclusion

Through smart regulation, innovation, promotion of clean domestic energy, and public investment, the Federal Government helps Americans every day, improving safety and health, laying the groundwork for technological breakthroughs, and putting into place the infrastructure that facilitates commerce and travel and raises productivity. The benefits of these activities are not fully reflected in standard measures of economic activity such as GDP, but they do significantly improve the quality of life and our economy.

Jan Tinbergen (1976), the first winner of the Nobel Prize in economics, commented that, "progress in our understanding can only be based on our push for measurement of phenomena previously thought to be nonmeasurable." Spurred by the creation of new measurement techniques and the need to improve conventional measures of well-being, several recent official efforts have aimed at expanding the boundaries of measurement of the quality of life. As this year's Economic Report of the President suggests, further innovation and advances in measurement through improvements to traditional economic indicators and the development of new indicators of societal well-being will help bring about further improvements in the Nation's quality of life and the economy.



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CHAPTER 8

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A P P E N D I X A

REPORT TO THE PRESIDENT ON THE ACTIVITIES OF THE COUNCIL OF ECONOMIC ADVISERS DURING 2011

LETTER OF TRANSMITTAL

COUNCIL OF ECONOMIC ADVISERS Washington, D.C., December 31, 2011

Mr. President:

The Council of Economic Advisers submits this report on its activities during calendar year 2011 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,

Alan B. Krueger, Chairman Katharine G. Abraham, Member Carl Shapiro, 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	,,
	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	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Chairman	September 10, 2010	August 5, 2011
Cecilia Elena Rouse	Member	March 11, 2009	February 28, 2011
Katharine G. Abraham	Member	April 19, 2011	
Carl Shapiro	Member	April 19, 2011	
Alan B. Krueger	Chairman	November 7, 2011	
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REPORT TO THE PRESIDENT ON THE ACTIVITIES OF THE COUNCIL OF ECONOMIC ADVISERS **DURING 2011**

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 comprised of a Chairman and two members appointed by the President and confirmed by the United States Senate.

THE CHAIRMAN OF THE COUNCIL

Alan B. Krueger was nominated as Chairman of the Council by the President on August 29, 2011. He was confirmed by the Senate on November 3, 2011. Chairman Krueger is on leave of absence from Princeton University, where he is the Bendheim Professor of Economics and Public Affairs. He previously served as the Assistant Secretary for Economic Policy and Chief Economist at the U.S Department of the Treasury.

The Chairman 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 frequently with members of Congress well as with business, academic and labor leaders to discuss economic policy issues.

Austan D. Goolsbee resigned as Chairman on August 5, 2011 to return to the University of Chicago, where he is the Robert P. Gwinn Professor of Economics at the Booth School of Business.

THE MEMBERS OF THE COUNCIL

Katharine G. Abraham was confirmed by the U.S. Senate as a Member of the Council on April 14, 2011. Dr. Abraham 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.

Carl Shapiro was confirmed by the U.S. Senate as a Member of the Council on April 14, 2011. Dr. Shapiro is on leave from the University of California at Berkeley, where he is the Transamerica Professor of Business Strategy at the Haas School of Business and Professor of Economics in the Department of Economics. Dr. Shapiro served from 2009 to 2011 as Deputy Assistant Attorney General for Economics at the Antitrust Division of the United States Department of Justice.

Cecilia E. Rouse resigned as Member of the Council on February 28 to return to Princeton University, where she is the Lawrence and Shirley Katzman and Lewis and Anna Ernst Professor in the Economics of Education and Professor of Economics and Public Affairs.

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 with the two prior years, advising the President on targeted policies to spur 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 2011 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 been preparing monthly briefings on the state of the economy.

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 Los Cabos, Mexico, and the G-8 Summit in Chicago.

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 2011. Quarterly reports to Congress on the effects of the Recovery Act on overall economic activity were issued in March, July, and December. In June, the Council released a report on U.S. Inbound Foreign Direct Investment. The Council was also the primary contributor to White House reports released on educational technology in September and two more reports related to education in October—one on the effect the American Jobs Act would have on teaching jobs and another on college affordability. In November, the Council led the preparation of a White House report on the economic benefits of infrastructure. In December, the Council was the primary contributor to a White House report issued on the effects of temporary unemployment insurance extensions on the U.S. economy.

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 2011, and the Chairman and Members gave numerous public speeches. The reports, texts of speeches, and written statements accompanying testimony are available at the Council's website, www.whitehouse.gov/cea. Finally, the Council publishes 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, staff economists, research economists, research assistants, and the administrative and support staff. The staff at the end of 2011 was:

Soniar Staff

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David P. Vandivier	Chief of Staff
Judith K. Hellerstein	Chief Economist
Steven N. Braun	Director of Macroeconomic Forecasting
Adrienne Pilot	Director of Statistical Office

Senior Economists

Gene Amromin Housing, Public Finance Lee G. Branstetter International Trade and Investment, Innovation, and Manufacturing Thomas C. Buchmueller Health Lisa D. Cook International Finance. Entrepreneurship, Innovation and Development Benjamin H. Harris Tax, Budget and Retirement Robert Johansson Energy, Environment, Agriculture, Regulation Craig T. Peters Industrial Organization, Infrastructure, Innovation, Regulation Charles R. Pierret Labor and Education Daniel J. Vine Macroeconomics Staff Economists Jeffrey A. Borowitz Housing, Labor, Education Andres Bustamante International Finance, Development, Entrepreneurship Colleen M. Carey Health, Industrial Organization, Public Finance David Cho...... Macroeconomics Judd N. L. Cramer Labor and Immigration Reid B. Stevens Energy, Environment, Regulation Research Economists Pedro Spivakovsky-Gonzalez..... International Economics and Trade Julia H. Yoo...... Public Finance, Housing, Macroeconomics Research Assistants Matthew L. Aks Macroeconomics Sandra M. Levy..... Energy, Environment, Regulation

Carter Mundell..... Education, Labor, Health Seth H. Werfel International Finance and Innovation

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.

Administrative Office

The Administrative Office provides general support for the Council's activities. This includes financial management, ethics compliance, human resource management, travel, operations of facilities, security, information technology, and telecommunications management support.

Archana A. Snyder..... Director of Finance and Administration

Doris T. Searles.... Information Management Specialist

Office of the Chairman

Andres Bustamante Special Assistant to the Chairman and Staff Economist

Paige Shevlin Special Assistant to the Chairman Michael P. Bourgeois Special Assistant to the Members

Staff Support

Sharon K. Thomas Administrative Support and
Executive Assistant to the Chief
Economist, Senior Economists

Interns

Student interns provide invaluable help with research projects, day-to-day operations, and fact-checking. Interns during the year were: Noam Angrist, Dan Aloisio, David Bard, Obafemi Elegbede, Rahul Garabadu, Jeanne Jeong, Juliette Lu, Suril Kantaria, Sarah McGhee, Jeremy Patashnik, Benjamin Pyle, Clare Quinn, Sid Shankar, Daniel Seder, Alex T. Stein, Elizabeth Sundheim, and Lucas Zucker.

DEPARTURES IN 2011

Jay C. Shambaugh left his position as Chief Economist of the Council in June, and he is presently on faculty at Georgetown University's McDonough School of Business. In October, Nan Gibson left her position as Executive Director and Adam Hitchcock left his position as Chief of Staff in August.

The senior economists who resigned in 2011(with the institutions to which they returned after leaving the Council in parentheses) were: Chad Bown (World Bank); Aaron Chatterji (Duke Fuqua School of Business); Thomas Davidoff (Sauder School of Business, UBC); Benjamin F. Jones (Northwestern University, Kellogg School); Lisa Kahn (Yale School of Management); Arik Levinson (Georgetown University); Helen Levy (University of Michigan School of Public Health); Matthew Magura (Department of Justice); Nicholas Mastronardi (US Air Force Academy); and Paul Smith (Federal Reserve Board).

The staff economists who departed in 2011 were Douglas Campbell, Hoan Soo Lee, Sayeh Nikpay, James O'Brien, Jamin Speer, and Owen Zidar. Those who served as research assistants at the Council and resigned were Ravi Deedwania, Nicholas Hagerty, and Kia McLeod.

Brittany Heyd, Meryl Holt, Eric Lesser, and Matthew Tully all served in the Office of the Chairman and resigned in 2011 to pursue other endeavors.

Several long-term staff members departed as well. Dagmara Mocala Mathews left her position as Program Analyst after almost 10 dedicated years of service in the Statistical Office. There were two retirements at the Council in 2011. They are Rosemary M. Rogers, who served as the Administrative Officer and Lisa D. Branch who served as Executive Assistant to the Members. Mrs. Rogers devoted 30 years to working in the Executive Branch, with almost 20 of those years at the Council. Ms. Branch devoted 34 years to working in the Executive Branch, with 25 of those years at the Council. Their dedication, loyalty and diligence in serving the Council, Chairs, Members, staff and the people of the United States will be missed tremendously.

A P P E N D I X B

STATISTICAL TABLES RELATING TO INCOME, EMPLOYMENT, AND PRODUCTION



C O N T E N T S

NATIC	ONAL INCOME OR EXPENDITURE	Page
B-1.	Gross domestic product, 1963–2011	316
B-2.	Real gross domestic product, 1963–2011	318
В-3.	Quantity and price indexes for gross domestic product, and percent changes, 1963–2011	320
B-4.	Percent changes in real gross domestic product, 1963–2011	321
B-5.	Contributions to percent change in real gross domestic product, 1963–2011	322
В-6.	Chain-type quantity indexes for gross domestic product, 1963–2011	324
В-7.	Chain-type price indexes for gross domestic product, 1963–2011	326
В-8.	Gross domestic product by major type of product, 1963–2011	328
В-9.	Real gross domestic product by major type of product, 1963–2011	329
B-10.	Gross value added by sector, 1963–2011	330
B-11.	Real gross value added by sector, 1963–2011	331
B-12.	Gross domestic product (GDP) by industry, value added, in current dollars and as a percentage of GDP, 1980–2010	332
B-13.	Real gross domestic product by industry, value added, and percent changes, 1980–2010	334
B-14.	Gross value added of nonfinancial corporate business, 1963–2011	336
B-15.	Gross value added and price, costs, and profits of nonfinancial corporate business, 1963–2011	337
B-16.	Personal consumption expenditures, 1963–2011	338
B-17.	Real personal consumption expenditures, 1995–2011	339
B-18.	Private fixed investment by type, 1963–2011	340
B-19.	Real private fixed investment by type, 1995–2011	341
B-20.	Government consumption expenditures and gross investment by type, 1963–2011	342
B-21.	Real government consumption expenditures and gross investment by type, 1995–2011	343
B-22.	Private inventories and domestic final sales by industry, 1963–2011	344
B-23.	Real private inventories and domestic final sales by industry, 1963–2011	345
B-24.	Foreign transactions in the national income and product accounts, 1963–2011	346

NATIC	NAL INCOME OR EXPENDITURE—Continued	
B-25.	Real exports and imports of goods and services, 1995–2011	347
B-26.	Relation of gross domestic product, gross national product, net national product, and national income, 1963–2011	348
B-27.	Relation of national income and personal income, 1963–2011	349
B-28.	National income by type of income, 1963–2011	350
B-29.	Sources of personal income, 1963–2011	352
B-30.	Disposition of personal income, 1963–2011	354
B-31.	Total and per capita disposable personal income and personal consumption expenditures, and per capita gross domestic product, in current and real dollars, 1963–2011	355
B-32.	Gross saving and investment, 1963–2011	356
В-33.	Median money income (in 2010 dollars) and poverty status of families and people, by race, selected years, 1998–2010	358
POPUI	LATION, EMPLOYMENT, WAGES, AND PRODUCTIVITY	
B-34.	Population by age group, 1939–2011	359
B-35.	Civilian population and labor force, 1929-2011	360
B-36.	Civilian employment and unemployment by sex and age, 1965–2011	362
B-37.	Civilian employment by demographic characteristic, 1965–2011	363
B-38.	Unemployment by demographic characteristic, 1965–2011	364
В-39.	Civilian labor force participation rate and employment/population ratio, 1965–2011	365
B-40.	Civilian labor force participation rate by demographic characteristic, 1972–2011	366
B-41.	Civilian employment/population ratio by demographic characteristic, 1972–2011	367
B-42.	Civilian unemployment rate, 1965–2011	368
B-43.	Civilian unemployment rate by demographic characteristic, 1972–2011	369
B-44.	Unemployment by duration and reason, 1965-2011	370
B-45.	Unemployment insurance programs, selected data, 1980–2011	37
B-46.	Employees on nonagricultural payrolls, by major industry, 1967–2011	372
B-47.	Hours and earnings in private nonagricultural industries, 1965–2011	374
B-48.	Employment cost index, private industry, 1997–2011	375
B-49.	Productivity and related data, business and nonfarm business sectors, 1962–2011	370
B-50.	Changes in productivity and related data, business and nonfarm business sectors, 1962–2011	377

PRODUCTION AND BUSINESS ACTIVITY

B-51.	Industrial production indexes, major industry divisions, 1963-2011	378
B-52.	Industrial production indexes, market groupings, 1963–2011	379
В-53.	Industrial production indexes, selected manufacturing industries, 1968–2011	380
B-54.	Capacity utilization rates, 1963–2011	38
B-55.	New construction activity, 1967–2011	38
В-56.	New private housing units started, authorized, and completed and houses sold, 1965–2011	38
B-57.	Manufacturing and trade sales and inventories, 1970-2011	38
B-58.	Manufacturers' shipments and inventories, 1970-2011	38
B-59.	Manufacturers' new and unfilled orders, 1970–2011	38
PRICE	S	
В-60.	Consumer price indexes for major expenditure classes, 1968–2011	38
B-61.	Consumer price indexes for selected expenditure classes, 1968–2011	38
В-62.	Consumer price indexes for commodities, services, and special groups, 1968–2011	39
В-63.	Changes in special consumer price indexes, 1968–2011	39
В-64.	Changes in consumer price indexes for commodities and services, 1940–2011	39
В-65.	Producer price indexes by stage of processing, 1965–2011	39
В-66.	Producer price indexes by stage of processing, special groups, 1974–2011	39
В-67.	Producer price indexes for major commodity groups, 1965–2011	39
В-68.	Changes in producer price indexes for finished goods, 1972–2011	39
MONE	Y STOCK, CREDIT, AND FINANCE	
В-69.	Money stock and debt measures, 1972-2011	39
B-70.	Components of money stock measures, 1972–2011	40
B-71.	Aggregate reserves of depository institutions and the monetary base, 1982–2011	40
B-72.	Bank credit at all commercial banks, 1974–2011	40
В-73.	Bond yields and interest rates, 1940-2011	40
B-74.	Credit market borrowing, 2003–2011	40
B-75.	Mortgage debt outstanding by type of property and of financing, 1954–2011	40
В-76.	Mortgage debt outstanding by holder, 1954–2011	40
В-77.	Consumer credit outstanding, 1960–2011	41

GOVERNMENT FINANCE

Federal receipts, outlays, surplus or deficit, and debt, fiscal years, 1945–2013
Federal receipts, outlays, surplus or deficit, and debt, as percent of gross domestic product, fiscal years 1939–2013
Federal receipts and outlays, by major category, and surplus or deficit, fiscal years 1945–2013
Federal receipts, outlays, surplus or deficit, and debt, fiscal years 2008–2013 \dots
Federal and State and local government current receipts and expenditures, national income and product accounts (NIPA), 1963–2011
Federal and State and local government current receipts and expenditures, national income and product accounts (NIPA), by major type, 1963–2011
Federal Government current receipts and expenditures, national income and product accounts (NIPA), 1963–2011
State and local government current receipts and expenditures, national income and product accounts (NIPA), 1963–2011
State and local government revenues and expenditures, selected fiscal years, 1946–2009
U.S. Treasury securities outstanding by kind of obligation, 1973–2011
Maturity distribution and average length of marketable interest-bearing public debt securities held by private investors, 1973–2011
Estimated ownership of U.S. Treasury securities, 1998–2011
ORATE PROFITS AND FINANCE
Corporate profits with inventory valuation and capital consumption adjustments, 1963–2011
Corporate profits by industry, 1963–2011
Corporate profits of manufacturing industries, 1963–2011
Sales, profits, and stockholders' equity, all manufacturing corporations, 1970–2011
Relation of profits after taxes to stockholders' equity and to sales, all manufacturing corporations, 1962–2011
Historical stock prices and yields, 1949–2003
Common stock prices and yields, 2000–2011
CULTURE
Farm income, 1950–2011
Farm business balance sheet, 1952–2011
Farm output and productivity indexes, 1950–2009
. Farm input use, selected inputs, 1950–2011

AGRICULTURE—Continued

B-101. Agricultural price indexes and farm real estate value, 1975-2011	434
B–102. U.S. exports and imports of agricultural commodities, 1950–2011	435
INTERNATIONAL STATISTICS	
B-103. U.S. international transactions, 1953-2011	436
B-104. U.S. international trade in goods by principal end-use category, 1965-2011	438
B-105. U.S. international trade in goods by area, 2003-2011	439
B–106. U.S. international trade in goods on balance of payments (BOP) and Census basis, and trade in services on BOP basis, 1983–2011	440
B–107. International investment position of the United States at year-end, 2004–2010	441
B–108. Industrial production and consumer prices, major industrial countries,	442
B-109. Civilian unemployment rate, and hourly compensation, major industrial countries, 1985-2011	443
B-110. Foreign exchange rates, 1992-2011	444
B-111. International reserves, selected years, 1992-2011	445
B-112. Growth rates in real gross domestic product, 1993-2012	446

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 27, 2012. In particular, tables containing national income and product accounts (NIPA) estimates reflect revisions released by the Department of Commerce in July 2011.

NATIONAL INCOME OR EXPENDITURE

Table B-1. Gross domestic product, 1963-2011

[Billions of dollars, except as noted; quarterly data at seasonally adjusted annual rates]

			nsumption ex		Gross private domestic investment							
	Gross domestic product						Fix	xed investme	nt			
Year or quarter		Takal	0 1	0	T. 1		Nonresidential		al		Change in	
		oduct Total Good	GOOGS	Services	Total	Total	Total	Structures	Equip- ment and software	Resi- dential	private inven- tories	
1963 1964 1965 1966 1967 1968 1969	617.8 663.6 719.1 787.7 832.4 909.8 984.4	382.7 411.5 443.8 480.9 507.8 558.0 605.1	198.2 212.3 229.7 249.6 259.0 284.6 304.7	184.6 199.2 214.1 231.3 248.8 273.4 300.4	93.8 102.1 118.2 131.3 128.6 141.2 156.4	88.1 97.2 109.0 117.7 118.7 132.1 147.3	56.0 63.0 74.8 85.4 86.4 93.4 104.7	21.2 23.7 28.3 31.3 31.5 33.6 37.7	34.8 39.2 46.5 54.0 54.9 59.9 67.0	32.1 34.3 34.2 32.3 32.4 38.7 42.6	5.6 4.8 9.2 13.6 9.9 9.1 9.2	
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	648.3 7701.6 770.2 852.0 932.9 1,033.8 1,151.3 1,277.8 1,427.6 1,591.2	318.8 342.1 373.8 416.6 451.5 491.3 546.3 600.4 663.6 737.9	329.5 359.5 396.4 435.4 481.4 542.5 604.9 677.4 764.1 853.2	152.4 178.2 207.6 244.5 249.4 230.2 292.0 361.3 438.0 492.9	150.4 169.9 198.5 228.6 235.4 236.5 274.8 339.0 412.2 474.9	109.0 114.1 128.8 153.3 169.5 173.7 192.4 228.7 280.6 333.9	40.3 42.7 47.2 55.0 61.2 61.4 65.9 74.6 93.6 117.7	68.7 71.5 81.7 98.3 108.2 112.4 126.4 154.1 187.0 216.2	41.4 55.8 69.7 75.3 66.0 62.7 82.5 110.3 131.6 141.0	2.0 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 1,195.6 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	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 13,939.0	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 9,866.1	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 3,197.5	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 6,668.7	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 1,546.8	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 1,707.6	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 1,353.0	318.1 329.7 282.8 281.9 306.7 351.8 433.7 524.9 586.3 449.9	950.5 898.1 842.7 853.8 916.4 995.6 1,071.7 1,112.6 1,070.0 903.0	449.0 472.4 509.5 577.6 680.6 775.0 761.9 628.7 472.4 354.7	54.5 -38.3 12.0 16.4 64.9 50.0 60.0 29.1 -41.1 -160.8	
2010 2011 P	14,526.5 15,087.7	10,245.5 10,722.6	3,387.0 3,645.2	6,858.5 7,077.4	1,795.1 1,913.6	1,728.2 1,866.4	1,390.1 1,529.2	374.4 407.8	1,015.7 1,121.4	338.1 337.2	66.9 47.2	
2008: I II IV	14,273.9 14,415.5 14,395.1 14,081.7	10,018.5 10,126.5 10,135.8 9,861.3	3,422.3 3,466.9 3,456.1 3,181.4	6,596.2 6,659.6 6,679.7 6,679.9	2,185.7 2,165.4 2,086.3 1,913.0	2,205.2 2,183.7 2,130.5 1,995.5	1,689.3 1,689.0 1,665.9 1,580.9	570.9 589.6 594.7 590.0	1,118.4 1,099.4 1,071.2 990.9	515.9 494.6 464.6 414.6	-19.5 -18.3 -44.1 -82.5	
2009: 	13,893.7 13,854.1 13,920.5 14,087.4	9,781.7 9,781.6 9,911.1 9,990.0	3,130.7 3,143.6 3,245.6 3,270.0	6,651.0 6,638.0 6,665.5 6,720.1	1,620.1 1,493.8 1,481.2 1,592.2	1,799.6 1,694.3 1,678.3 1,658.3	1,430.6 1,351.9 1,324.3 1,305.1	527.4 461.4 424.8 386.1	903.2 890.5 899.5 918.9	369.0 342.4 353.9 353.2	-179.5 -200.5 -197.1 -66.1	
2010: 	14,277.9 14,467.8 14,605.5 14,755.0	10,103.7 10,184.8 10,276.6 10,417.1	3,338.1 3,340.1 3,386.5 3,483.4	6,765.6 6,844.7 6,890.1 6,933.7	1,702.3 1,809.7 1,850.5 1,818.0	1,658.0 1,731.6 1,743.8 1,779.3	1,318.7 1,377.1 1,416.5 1,447.9	361.2 370.2 376.6 389.6	957.5 1,006.9 1,039.9 1,058.3	339.3 354.5 327.3 331.3	44.3 78.1 106.7 38.7	
2011: V P	14,867.8 15,012.8 15,176.1 15,294.3	10,571.7 10,676.0 10,784.5 10,858.1	3,592.2 3,622.7 3,661.2 3,704.5	6,979.4 7,053.3 7,123.2 7,153.6	1,853.1 1,895.3 1,906.6 1,999.7	1,791.1 1,841.7 1,905.8 1,927.1	1,460.5 1,506.0 1,568.7 1,581.5	379.5 405.2 424.8 421.7	1,081.0 1,100.8 1,143.9 1,159.9	330.6 335.7 337.0 345.6	62.0 53.6 .8 72.6	

See next page for continuation of table.

Table B-1. Gross domestic product, 1963-2011—Continued

[Billions of dollars, except as noted; quarterly data at seasonally adjusted annual rates]

	Net exports of goods and services			Government consumption expenditures and gross investment					Final	Gross	Adden- dum:	Percent change from preceding period	
Year or quarter	Net exports				Federal			State	sales of domes- tic	domes- tic pur-	Gross national	Gross	Gross domes-
		Exports	Imports	Total	Total	National defense	Non- defense	and local	product	chases ¹	prod- uct ²	domes- tic product	tic pur- chases ¹
1963 1964	4.9 6.9	31.1 35.0	26.1 28.1	136.4 143.2	76.9 78.4	61.0 60.2	15.9 18.2	59.5 64.8	612.1 658.8	612.8 656.7	622.2 668.6	5.5 7.4	5.4 7.2
1965 1966 1967	5.6 3.9 3.6	37.1 40.9 43.5	31.5 37.1 39.9	151.4 171.6 192.5	80.4 92.4 104.6	60.6 71.7 83.4	19.8 20.8 21.2	71.0 79.2 87.9	709.9 774.1 822.6	713.5 783.8 828.9	724.4 792.8 837.8	8.4 9.5 5.7	8.6 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 1972	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 1973 1974	-3.4 4.1 8	70.8 95.3 126.7	74.2 91.2 127.5	263.4 281.7 317.9	119.6 122.5 134.5	86.9 88.1 95.6	32.7 34.3 39.0	143.8 159.2 183.4	1,228.8 1,366.4 1,485.5	1,241.3 1,378.2 1,500.3	1,246.4 1,394.9 1,515.0	9.9 11.7 8.5	10.2 11.0 8.9
1975 1976	16.0 -1.6	138.7 149.5	122.7 151.1	357.7 383.0	149.0 159.7	103.9 111.1	45.1 48.6	208.7 223.3	1,644.0 1.807.5	1,621.7 1,826.2	1,650.7 1,841.4	9.2 11.4	8.1 12.6 12.4
1975 1976 1977 1978	-23.1 -25.4 -22.5	159.4 186.9 230.1	182.4 212.3 252.7	414.1 453.6 500.7	175.4 190.9 210.6	120.9 130.5 145.2	54.5 60.4 65.4	238.7 262.7 290.2	2,007.8 2,268.0 2,544.2	2,053.2 2,319.1 2,584.8	2,050.4 2,315.3 2,594.2	11.3 13.0 11.7	12.4 13.0 11.5
1979 1980 1981	-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	2,801.2 3,139.4	2,822.3 3,159.8	8.8 12.1	8.4 12.1
1982 1983	-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	3,268.1 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	405.1 417.2 452.9	796.9 878.9 949.3	374.3 412.8 438.4	281.5 311.2	92.7 101.6 107.6	422.6 466.1	3,865.5 4,195.6 4,453.5	4,033.6 4,332.7 4,592.6	3,967.2 4,244.0 4,477.7	11.2 7.3	12.5 7.4 6.0
1986 1987 1988	-132.5 -145.0 -110.1	320.3 363.8 443.9	508.7 554.0	999.4 1,038.9	459.5 461.6	330.8 350.0 354.7	109.6 106.8	510.9 539.9 577.3	4,709.2 5,081.9	4,881.3 5,210.5	4,754.0 5,123.8	5.8 6.2 7.7	6.3 6.7
1989	-87.9 -77.6	503.1 552.1	591.0 629.7	1,100.6 1,181.7	481.4 507.5	362.1 373.9	119.3 133.6	619.2 674.2	5,454.5 5,786.0	5,570.0 5,878.1	5,508.1 5,835.0	7.5 5.8	6.9 5.5
1991	-27.0 -32.8	596.6 635.0	623.5 667.8	1,236.1 1,273.5 1,294.8	526.6 532.9	383.1 376.8	143.4 156.1	709.5 740.6	5,992.5 6,326.0	6,019.1 6,375.1	6,022.0 6,371.4	3.3 5.8	2.4 5.9
1993 1994 1995	-64.4 -92.7 -90.7	655.6 720.7 811.9	720.0 813.4 902.6	1,294.8 1,329.8 1.374.0	525.0 518.6 518.8	363.0 353.8 348.8	162.0 164.8 170.0	769.8 811.2 855.3	6,646.5 7,021.4 7,383.5	6,731.7 7,177.9 7.505.3	6,698.5 7,109.2 7,444.3	5.1 6.3 4.7	5.6 6.6 4.6
1996 1997	-96.3 -101.4	867.7 954.4	964.0 1,055.8	1,421.0 1,474.4	527.0 531.0	354.8 349.8	172.2 181.1	894.0 943.5	7,807.7 8.261.4	7,934.8 8,433.7	7,870.1 8,355.8	5.7 6.3	5.7 6.3
1998 1999	-161.8 -262.1	953.9 989.3	1,115.7 1,251.4	1,526.1 1,631.3	531.0 554.9	346.1 361.1	184.9 193.8	995.0 1,076.3	8,729.8 9,292.7	8,955.3 9,615.6	8,810.8 9,381.3	5.5 6.4	6.2 7.4
2000 2001 2002	-382.1 -371.0 -427.2	1,093.2 1,027.7 1,003.0	1,475.3 1,398.7 1,430.2	1,731.0 1,846.4 1,983.3	576.1 611.7 680.6	371.0 393.0 437.7	205.0 218.7 242.9	1,154.9 1,234.7	9,896.9 10,324.5 10,630.3	10,333.5 10,657.2 11,069.5	9,989.2 10,338.1 10,691.4	6.4 3.4 3.5	7.5 3.1
2001 2002 2003 2004	-504.1 -618.7	1,041.0 1,180.2	1,545.1 1,798.9	2,112.6 2.232.8	756.5 824.6	497.9 550.8	258.5 273.9	1,302.7 1,356.1 1,408.2	11,125.8	11,646.3 12,471.9	11,210.9	4.7 6.4	3.9 5.2 7.1
2005 2006 2007	-722.7 -769.3 -713.1	1,305.1 1,471.0 1,661.7	2,027.8 2,240.3 2,374.8	2,369.9 2,518.4 2,674.2	876.3 931.7 976.3	589.0 624.9 662.3	287.3 306.8 314.0	1,493.6 1,586.7 1,697.9	12,573.0 13,317.3 13,999.6	13,345.7 14,146.5 14,741.7	12,720.1 13,449.6 14,151.9	6.5 6.0 4.9	7.0 6.0 4.2
20082009	-709.7 -391.5	1,846.8 1,583.0	2,556.5 1,974.6	2,878.1 2,917.5	1,080.1 1,142.7	737.8 774.9	342.3 367.8	1,798.0 1,774.8	14,332.7 14,099.8	15,001.3 14,330.5	14,460.7 14,091.2	1.9 -2.5	1.8 -4.5
2010 2011 P	-516.9 -578.2	1,839.8 2,087.6	2,356.7 2,665.8	3,002.8 3,029.7	1,222.8 1,232.7	819.2 824.8	403.6 407.9	1,780.0 1,797.0	14,459.6 15,040.5	15,043.4 15,665.9	14,715.9	4.2 3.9	5.0 4.1
2008: I	-742.3 -746.1	1,819.3 1,922.8	2,561.6 2,668.9	2,812.0 2,869.6	1,042.7 1,066.0	706.0 724.7	336.7 341.3	1,769.3 1,803.7	14,293.4 14,433.8	15,016.2 15,161.5	14,452.5 14,596.8	.6 4.0	1.9 3.9
III	-756.9 -593.7	1,933.8 1,711.1	2,690.6 2,304.8	2,929.8 2,901.1	1,100.6 1,111.2	758.4 762.1	342.1 349.0	1,829.2 1,789.9	14,439.2 14,164.2	15,151.9 14,675.4	14,594.0 14,199.5	6 -8.4	3 -12.0
2009: I II	-383.5 -338.3 -406.7	1,522.2 1,520.8 1,590.3	1,905.7 1,859.1 1,997.0	2,875.5 2,916.9 2,935.0	1,105.3 1,137.2 1,157.7	747.7 771.6 789.0	357.7 365.7 368.6	1,770.1 1,779.7 1,777.3	14,073.3 14,054.6 14,117.6	14,277.3 14,192.4 14,327.2	14,026.4 13,994.4 14,084.2	-5.2 -1.1 1.9	-10.4 -2.4 3.9
iV 2010: I	-437.6 -495.8	1,699.0 1,749.5	2,136.5	2,942.7 2,967.7	1,170.6	791.4 803.5	379.2 391.6	1,772.1	14,153.5	14,525.0	14,259.8	4.9 5.5	5.6
 	-531.2 -540.3	1,813.8 1,860.6	2,245.3 2,345.0 2,400.9	3,004.6 3,018.7	1,195.2 1,224.5 1,237.5	818.0 831.3	406.5 406.2	1,780.1 1,781.2	14,233.6 14,389.8 14,498.8	14,999.0 15,145.8	14,664.0 14,812.8	5.4 3.9	7.0 6.2 4.0
IV 2011:	-500.2 -571.3	1,935.3 2,024.1 2,085.3	2,435.5 2,595.4 2,682.4	3,020.2	1,234.3	823.9 809.0	410.3 410.9	1,786.0	14,716.3	15,255.2	14,939.4 15,094.9	4.2 3.1	2.9 4.9
 V p	-597.1 -562.3 -582.1	2,085.3 2,119.2 2,121.6	2,682.4 2,681.6 2,703.6	3,038.6 3,047.3 3,018.6	1,237.1 1,248.9 1,225.0	830.6 844.0 815.6	406.5 404.9 409.4	1,801.5 1,798.5 1,793.7	14,959.2 15,175.3 15,221.7	15,609.9 15,738.4 15,876.3	15,274.0 15,443.4	4.0 4.4 3.2	4.5 3.3 3.6

 $^{^1}$ 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.

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

TABLE B-2. Real gross domestic product, 1963-2011

[Billions of chained (2005) dollars, except as noted; quarterly data at seasonally adjusted annual rates]

		Personal co	nsumption e	xpenditures	Gross private domestic investment							
	0		Goods	Services Total		Fixed investment						
Year or quarter	Gross domestic	T. 1					N	Vonresidentia	Resi- dential	Change in		
	product	Total			Total	Total	Structures	Equip- ment and software		private inven- tories		
1963	3,204.0	1,989.0			353.0							
1964 1965	3,389.4 3.607.0	2,107.5 2,240.8			382.1 435.7							
1966	3,842.1	2,367.9			474.1							
1967	3,939.2	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	2,843.3			527.3							
1972 1973	4,643.8 4,912.8	3,018.1 3,167.7			589.8 658.9							
19/4	4,885.7	3.141.4			610.3							
1975 1976	4,875.4 5,136.9	3,212.6 3,391.5			502.2 603.7							
1977	5,373.1	3,534.3			694.9							
1978	5,672.8	3,690.1			778.7							
1979	5,850.1	3,777.8			803.5							
1980 1981	5,834.0 5,982.1	3,764.5 3,821.6			715.2 779.6							
1982	5,865.9	3,874.9			670.3							
1983 1984	6,130.9 6,571.5	4,096.4 4,313.6			732.8 948.7							
1985	6,843.4	4,538.3			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	5,698.6			1,070.9							
1994	8,863.1	5,916.2	1 000 0	4 200 F	1,216.4	1 221 2	707.0	242.0	400.4	4FC 1		
1995 1996	9,086.0 9,425.8	6,076.2 6,288.3	1,896.0 1,980.9	4,208.5 4,331.7	1,254.3 1,365.3	1,231.2 1,341.6	787.9 861.5	342.0 361.4	489.4 541.4	456.1 492.5	32.1 31.2	
1997	9,845.9	6,520.4	2,075.3	4,465.3	1,535.2	1,465.4	965.5	387.9	615.9	501.8	77.4	
1998 1999	10,274.7 10,770.7	6,862.3 7,237.6	2,215.5 2,392.0	4,662.1 4,853.1	1,688.9 1,837.6	1,624.4 1,775.5	1,081.4 1,194.3	407.7 408.2	705.2 805.0	540.4 574.2	71.6 68.5	
2000		7,604.6		5,093.6	1,963.1	1,906.8	1,311.3	440.0	889.2	580.0	60.2	
2001	11,216.4 11,337.5	7,810.3	2,518.2 2,597.3	5,219.1	1,825.2	1,870.7	1,274.8	433.3	860.6	583.3	-41.8	
2002	11,543.1	8,018.3	2,702.9	5,318.5	1,800.4 1,870.1	1,791.5 1,854.7	1,173.7 1,189.6	356.6 343.0	824.2	613.8	12.8	
2003 2004	11,836.4 12,246.9	8,244.5 8,515.8	2,827.2 2,953.3	5,418.2 5,562.7	2,058.2	1,054.7	1,169.0	345.0	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	
2006 2007	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	59.4 27.7	
2008	13,161.9	9,211.7	3,192.9	6,017.0	1,939.8	1,978.6	1,537.6 1,263.2	466.4	1,059.4	444.4	-36.3	
2009	12,703.1	9,037.5	3,098.0	5,935.5	1,454.2	1,606.3		367.3	889.7	345.6	-144.9	
2010 2011 <i>P</i>	13,088.0 13,313.4	9,220.9 9,421.1	3,230.7 3,351.9	5,991.8 6,075.4	1,714.9 1,795.2	1,648.4 1,757.8	1,319.2 1,432.4	309.1 321.8	1,019.4 1,124.1	330.8 326.2	58.8 35.6	
2008: 1	13,266.8	9,289.1	3,249.0	6,039.7	2,055.7	2,066.4	1,589.1	463.8	1,117.2	481.3	-12.5	
II	13,310.5	9,285.8	3,252.7	6,032.9	2,024.0	2,000.4	1,580.0	474.4	1,094.6	462.8	-14.2	
	13,186.9	9,196.0	3,187.9	6,006.5	1,934.7	1,973.5	1,539.2	469.9	1,056.8	437.8	-38.1	
IV	12,883.5	9,076.0	3,082.0	5,988.8	1,744.6	1,835.4	1,442.3	457.5	969.0	395.8	-80.3	
2009: I	12,663.2 12,641.3	9,040.9 8,998.5	3,082.6 3,064.3	5,953.5 5,928.6	1,490.4 1,397.2	1,665.5 1,589.8	1,312.9 1,257.6	415.3 375.4	883.7 874.2	354.9 334.3	-161.6 -183.0	
III	12,694.5	9,050.3	3,120.7	5,926.8	1,407.3	1,592.6	1,247.0	354.9	888.0	348.2	-178.7	
IV	12,813.5	9,060.2	3,124.6	5,932.9	1,522.0	1,577.5	1,235.2	323.7	912.9	344.8	-56.5	
2010: I	12,937.7 13,058.5	9,121.2 9,186.9	3,173.3 3,202.9	5,947.4 5,984.3	1,630.0 1,728.3	1,582.0 1,654.0	1,253.3 1,308.0	301.5 306.9	958.8 1,010.1	330.8 348.2	39.9 64.6	
	13,139.6	9,247.1	3,240.8	6,008.1	1,766.8	1,663.5	1,343.6	310.1	1,044.1	321.1	92.3	
IV	13,216.1	9,328.4	3,306.0	6,027.5	1,734.5	1,693.9	1,3/1.9	318.0	1,064.5	323.1	38.3	
2011:	13,227.9	9,376.7	3,344.4	6,039.1	1,750.9	1,699.0	1,378.9	305.9	1,086.9	321.1	49.1	
 	13,271.8 13,331.6	9,392.7 9,433.5	3,331.2 3,342.7	6,067.0 6,096.1	1,778.4 1,784.2	1,736.7 1,790.4	1,413.2 1,465.6	321.9 332.9	1,103.5 1,145.7	324.4 325.4	39.1 -2.0	
IV p	13,422.4	9,481.3	3,389.2	6,099.4	1,867.4	1,805.0	1,471.9	326.7	1,160.3	333.9	56.0	

See next page for continuation of table.

Table B-2. Real gross domestic product, 1963-2011—Continued

[Billions of chained (2005) dollars, except as noted; quarterly data at seasonally adjusted annual rates]

	Ni good	et exports ds and serv	of rices	Gov	vernment c	onsumption pross invest	n expenditu tment	ıres	Final	Gross	Adden- dum:	from pr	t change receding riod
Year or quarter	Net exports	Exports	Imports	Total	Total	Federal National	Non-	State and local	sales of domes- tic product	domestic pur- chases ¹	Gross national prod- uct ²	Gross domes- tic	Gross domes- tic pur-
1963		111.4	130.0	996.1		defense	defense		3.199.9	3.246.0	3,230.1	product 4.4	chases 1
1964 1965 1966 1967 1968 1969		124.5 128.0 136.9 140.0 151.0 158.3	136.9 151.5 174.0 186.7 214.5 226.7	1,018.0 1,048.7 1,141.1 1,228.7 1,267.2 1,264.3					3,390.8 3,587.6 3,803.4 3,920.0 4,115.8 4,245.0	3,423.4 3,656.1 3,907.0 4,014.8 4,222.1 4,355.0	3,417.5 3,636.4 3,869.8 3,967.7 4,160.6 4,288.0	5.8 6.4 6.5 2.5 4.8 3.1	5.5 6.8 6.9 2.8 5.2 3.1
1970 1971 1972 1973 1974 1975 1976 1977 1978		175.3 178.3 191.7 227.8 245.8 244.3 255.0 261.1 288.6 317.2	236.4 249.0 277.0 289.9 283.3 251.8 301.1 334.0 362.9 369.0	1,233.7 1,206.9 1,198.1 1,193.9 1,224.0 1,251.6 1,257.2 1,271.0 1,308.4 1,332.8					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	4,348.3 4,503.1 4,751.8 4,987.0 4,922.1 4,867.9 5,184.8 5,459.8 5,758.4 5,898.3	4,295.8 4,442.2 4,678.9 4,960.3 4,939.8 4,917.2 5,186.8 5,429.1 5,728.4 5,925.2	2 3.4 5.3 5.8 6 2 5.4 4.6 5.6 3.1	2 3.6 5.5 5.0 -1.3 -1.1 6.5 5.3 5.5 2.4
1980 1981 1982 1983 1984 1985 1986 1987 1988		351.4 355.7 328.5 320.1 346.2 356.7 384.1 425.4 493.5 550.2	344.5 353.5 349.1 393.1 488.8 520.5 565.0 598.4 621.9 649.3	1,358.8 1,371.2 1,395.3 1,446.3 1,494.9 1,599.0 1,696.2 1,737.1 1,758.9 1,806.8					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	5,784.8 5,939.7 5,860.4 6,203.1 6,739.7 7,039.4 7,297.2 7,512.1 7,752.2 7,984.2	5,908.3 6,047.3 5,934.0 6,197.1 6,634.1 6,888.0 7,110.4 7,335.9 7,643.9 7,917.3	-3 2.5 -1.9 4.5 7.2 4.1 3.5 3.2 4.1 3.6	-1.9 2.7 -1.3 5.8 8.7 4.4 3.7 2.9 3.2 3.0
1990 1991 1992 1993 1994 1995 1996 1997 1998	-98.8 -110.7 -139.8 -252.5 -356.4	599.7 639.5 683.5 705.9 767.4 845.1 915.3 1,024.3 1,047.7 1,093.4	672.6 671.6 718.7 780.8 873.9 943.9 1,026.0 1,164.1 1,300.2	1,864.0 1,884.4 1,893.2 1,878.2 1,878.0 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	227.5 225.7 231.9 233.7 238.7	1,183.6 1,211.1 1,254.3 1,303.8 1,361.8	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	8,097.8 8,027.8 8,302.7 8,585.7 8,968.5 9,181.3 9,534.0 9,984.4 10,531.1 11,131.8	8,075.0 8,048.8 8,319.4 8,556.0 8,893.0 9,121.7 9,463.1 9,873.4 10,295.3 10,802.9	1.9 -2 3.4 2.9 4.1 2.5 3.7 4.5 4.4	1.4 9 3.4 4.5 2.4 3.8 4.7 5.5
2000	-451.3 -471.8 -548.5 -603.7 -687.9 -722.7 -729.4 -648.8 -494.8 -358.8	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 1,494.0	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 1,852.8	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 2,539.6	698.1 726.5 779.5 831.1 865.0 876.3 894.9 906.1 971.1 1,029.5	453.5 470.7 505.3 549.2 580.4 589.0 598.4 611.8 657.7 695.6	244.4 255.5 273.9 281.7 284.6 287.3 296.6 294.2 313.3 333.8	1,400.1 1,452.3 1,500.6 1,499.7 1,497.1 1,493.6 1,507.2 1,528.1 1,514.2	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 12,852.7	11,671.6 11,815.8 12,097.5 12,444.7 12,935.5 13,345.7 13,688.1 13,855.3 13,653.1 13,051.6	11,259.2 11,395.0 11,597.1 11,909.9 12,341.6 12,720.1 13,028.3 13,322.0 13,316.9 12,843.2	4.1 1.8 2.5 3.5 3.1 2.7 1.9 3 -3.5	4.8 1.2 2.4 2.9 3.9 3.2 2.6 1.2 -1.5 -4.4
2010 2011 P 2008:	-421.8 -412.3 -550.2	1,663.2 1,776.3 1.643.9	2,085.0 2,188.7 2.194.1	2,556.8 2,502.0 2.473.9	1,075.9 1,054.7 943.8	718.3 701.4 634.7	357.7 353.3 309.1	1,487.0 1,453.4 1.530.9	13,028.9 13,281.8 13.277.8	13,500.4 13,717.2 13.818.0	13,261.0 13.431.7	3.0 1.7 -1.8	3.4 1.6 -2.1
 	-486.2 -464.6 -478.0	1,693.9 1,678.7 1,580.6	2,180.1 2,143.3 2,058.6	2,484.5 2,510.7 2,520.5	955.1 982.0 1,003.5	643.1 669.7 683.2	312.1 312.0 320.2	1,530.5 1,530.8 1,520.1	13,325.9 13,225.6 12,972.9	13,794.5 13,646.5 13,353.3	13,476.6 13,367.4 12,991.9	1.3 -3.7 -8.9	-2.1 7 -4.2 -8.3
2009: I II IV	-404.2 -331.8 -352.4 -346.9	1,451.1 1,449.4 1,497.3 1,578.3	1,855.3 1,781.2 1,849.7 1,925.2	2,509.6 2,546.0 2,554.2 2,548.5	995.2 1,029.2 1,043.9 1,049.6	669.9 695.7 709.5 707.3	325.3 333.4 334.3 342.2	1,517.2 1,520.7 1,514.9 1,503.9	12,836.0 12,830.0 12,875.1 12,869.5	13,057.0 12,964.0 13,035.7 13,149.6	12,785.6 12,770.7 12,844.9 12,971.6	-6.7 7 1.7 3.8	-8.6 -2.8 2.2 3.5
2010: I II IV	-376.8 -437.4 -458.7 -414.2	1,606.2 1,645.0 1,684.8 1,716.8	1,983.0 2,082.4 2,143.5 2,131.0	2,540.6 2,564.0 2,570.3 2,552.1	1,056.9 1,079.4 1,087.8 1,079.6	708.2 718.6 728.6 717.7	348.7 360.8 359.2 361.9	1,489.2 1,490.8 1,488.9 1,478.9	12,895.9 12,992.2 13,046.0 13,181.6	13,304.1 13,486.8 13,589.6 13,621.2	13,092.9 13,238.4 13,328.9 13,383.9	3.9 3.8 2.5 2.3	4.8 5.6 3.1 .9
2011: 	-424.4 -416.4 -402.8 -405.8	1,749.6 1,765.0 1,785.2 1,805.6	2,173.9 2,181.4 2,187.9 2,211.5	2,513.9 2,508.2 2,507.6 2,478.5	1,053.3 1,058.3 1,063.7 1,043.7	694.0 705.9 714.6 691.1	359.4 352.4 349.0 352.6	1,466.4 1,456.1 1,450.4 1,440.7	13,182.8 13,236.2 13,340.9 13,367.4	13,644.2 13,679.9 13,725.3 13,819.5	13,432.2 13,504.2 13,567.9	.4 1.3 1.8 2.8	.7 1.0 1.3 2.8

 $^{^{\}rm 1}$ Gross domestic product (GDP) less exports of goods and services plus imports of goods and services. $^{\rm 2}$ GDP plus net income receipts from rest of the world.

Table B–3. Quantity and price indexes for gross domestic product, and percent changes, $1963\hbox{--}2011$

[Quarterly data are seasonally adjusted]

		Index	numbers, 200	5=100		, , -	Percent char	nge from prece	eding period ¹	
Voor or quarter	Gross d	omestic produ	ct (GDP)	Personal co expendito		Gross d	omestic produ	ct (GDP)	Personal co	onsumption ures (PCE)
Year or quarter	Real GDP (chain-type quantity index)	GDP chain-type price index	GDP implicit price deflator	PCE chain-type price index	PCE less food and energy price index	Real GDP (chain-type quantity index)	GDP chain-type price index	GDP implicit price deflator	PCE chain-type price index	PCE less food and energy price index
1963 1964 1965 1966 1967 1968	25.382 26.851 28.575 30.437 31.206 32.717 33.733	19.290 19.589 19.945 20.511 21.142 22.040 23.130	19.281 19.580 19.936 20.502 21.133 22.031 23.119	19.254 19.536 19.819 20.322 20.834 21.645 22.626	19.788 20.091 20.345 20.805 21.442 22.362 23.412	4.4 5.8 6.4 6.5 2.5 4.8 3.1	1.1 1.6 1.8 2.8 3.1 4.2 4.9	1.1 1.6 1.8 2.8 3.1 4.2 4.9	1.2 1.5 1.4 2.5 2.5 3.9 4.5	1.3 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 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
1980 1981 1982 1983 1984 1985 1986 1987 1987	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 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 4.8	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	88.857 89.816 91.445 93.769 97.021 100.000 102.658 104.622 104.270 100.635	88.724 90.731 92.192 94.134 96.784 100.000 103.237 106.231 108.565 109.732	88.723 90.727 92.196 94.135 96.786 100.000 103.231 106.227 108.582 109.729	89.818 91.530 92.778 94.658 97.121 100.000 102.723 105.499 108.943 109.169	91.154 92.783 94.390 95.823 97.815 100.000 102.265 104.631 107.020 108.691	4.1 1.8 2.5 3.5 3.1 2.7 1.9 3 -3.5	2.2 2.3 1.6 2.1 2.8 3.3 3.2 2.9 2.2 1.1	2.2 2.3 1.6 2.1 2.8 3.3 3.2 2.9 2.2 1.1	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 1.6
2010 2011 ^p 2008: I III	103.684 105.470 105.101 105.447 104.468 102.064	111.000 113.307 107.623 108.282 109.107	110.992 113.327 107.591 108.302 109.162	111.112 113.815 107.852 109.052 110.218 108.650	110.208 111.790 106.208 106.844 107.384 107.644	3.0 1.7 –1.8 1.3 –3.7 –8.9	1.2 2.1 2.5 2.5 3.1 .5	1.2 2.1 2.4 2.7 3.2	1.8 2.4 3.9 4.5 4.3 -5.6	1.4 1.4 2.5 2.4 2.0 1.0
IV	102.064 100.319 100.145 100.567 101.509	109.247 109.709 109.589 109.662 109.969	109.300 109.717 109.594 109.658 109.943	108.194 108.703 109.513 110.265	107.844 107.913 108.475 108.888 109.488	-6.9 -6.7 7 1.7 3.8	.5 1.7 4 .3 1.1	.5 1.5 4 .2 1.0	-5.6 -1.7 1.9 3.0 2.8	1.0 2.1 1.5 2.2
2010: I II III	102.494 103.450 104.093 104.699	110.370 110.770 111.162 111.699	110.358 110.793 111.156 111.644	110.774 110.864 111.136 111.673	109.796 110.147 110.353 110.534	3.9 3.8 2.5 2.3	1.5 1.5 1.4 1.9	1.5 1.6 1.3 1.8	1.9 .3 1.0 1.9	1.1 1.3 .8 .7
2011: I II IV P	104.792 105.140 105.614 106.334	112.390 113.091 113.811 113.935	112.398 113.118 113.836 113.946	112.747 113.666 114.324 114.524	110.963 111.585 112.156 112.454	.4 1.3 1.8 2.8	2.5 2.5 2.6 .4	2.7 2.6 2.6 .4	3.9 3.3 2.3 .7	1.6 2.3 2.1 1.1

¹ Quarterly percent changes are at annual rates.

TABLE B-4. Percent changes in real gross domestic product, 1963-2011

[Percent change from preceding period; quarterly data at seasonally adjusted annual rates]

		Perso	nal consun expenditure	nption s	Gross	private don	nestic inve	stment	imports	ts and of goods ervices		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
1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1978 1978 1979 1980 1981 1982 1988 1988 1988 1989 1989 1999 199	4.4 5.88 6.45 2.55 2.88 3.11 2.35 5.86 -2.2 5.46 5.61 3.2.5 7.2.2 4.1 3.52 3.4 4.1 3.52 3.4 4.1 3.52 3.4 4.1 4.1 4.1 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8 4.8	4.1 6.0 6.3 5.7 3.0 2.3 3.8 6.1 5.0 6.2 4.4 2.4 4.4 5.7 5.3 5.2 4.1 3.8 2.8 2.8 2.3 3.8 3.8 2.3 3.8 2.3 3.7 5.7 5.7 5.7 5.7 5.7 5.7 5.7 5.7 5.7 5	4.0 6.00 7.13 2.00 6.5 3.11 .8 4.2 4.2 5.2 -3.6 5.2 7 7 7.0 4.3 4.1 1.6 6.4 7.2 5.3 5.6 6.4 7.7 6.4 7.2 5.3 5.6 6.5 5.2 6.5 5.2 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5	4.2 6.0 5.5 4.1 5.5 4.5 3.9 3.5 4.7 3.8 4.1 4.7 3.1 5.2 3.9 3.8 4.1 4.7 3.1 5.2 3.9 4.2 3.0 4.2 3.0 4.2 3.0 4.2 3.0 4.1 4.1 4.1 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2	5.66 11.9 17.45 12.5 7.66 55 14.58 -9.9 4.9 4.9 11.3 15.0 10.1 3 17.6 6.6 -2.9 -5.4 3.2 5.7 5.2 5.6 5.6 9.2 11.3 12.0 10.4 9.2 11.2 9.3 12.0 10.4 9.2 11.2 9.3 11.2 9.3 11.2 9.3 11.2 9.3	1.2 10.4 15.9 6.8 -2.5 -2.5 -3 -1.6 3.1 8.2 -2.2 -10.5 2.4 4.1 12.7 5.9 8.0 6.1 -10.8 13.9 -11.0 -2.9 -2.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1.0 -1	8.4 12.8 18.3 16.0 -7.7 6.8 8.8 -1.0 12.9 18.3 15.1 15.2 6.4 13.8 6.4 12.9 12.5 12.5 11.9 12.5 11.9 12.5 12.5 14.1 10.5 2.4 2.4 2.3 1.1 10.6 13.8 14.5 14.1 10.5 2.4 2.3 1.1 10.5 2.4 2.3 1.1 10.5 2.4 2.3 1.1 10.5 10.6 13.8 14.5 14.1 10.1 10.1 10.1 10.1 10.1 10.1 10.1	11.8	7.2 11.8 2.8 6.9 2.3 7.99 4.8 10.7 7.7 7.5 18.9 7.9 -6 4.4 4.2 4.1 10.5 9 10.8 1.2 -7.6 -2.6 8.2 2.3 7.7 11.8 11.9 10.5 9 10.8 8.2 11.9 11.5 11.5 11.5 11.5 11.5 11.5 11.5	2.7 5.3 10.6 14.9 7.3 14.9 5.7 4.3 5.3 5.3 11.3 4.6 -2.3 -11.1 19.6 2.6 2.6 3.7 12.6 2.6 3.9 4.4 4.4 3.6 11.9 8.7 7 8.7 8.5 8.5 9.3 9.3 9.4 9.5 9.5 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6	2.6 2.2 3.0 8.8 7.7 3.1 2 -2.4 -2.2 2.3 4.4 1.1 2.9 1.9 1.9 1.9 3.7 3.4 2.7 3.1 1.3 2.7 3.1 1.3 2.7 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1	0.11 -1.33 .00 11.11 10.00 3.34 -7.4 -7.7, -4.11 -4.2 2.5 2.5 2.5 2.5 4.7 4.8 3.3 3.0 6.6 6.6 3.1 7.8 5.7 5.7 6.6 6.2 -2.2 -1.8 -3.8 -2.7 -1.2 -1.0 -1.1 1.9 -1.9 -1.9 -1.9 -1.9 -1.9 -1.9	6.0 6.88 6.7 6.3 5.1 5.9 3.4 2.8 3.1 2.2 2.9 3.3 7 7 4 4 3.3 3.5 1.5 1.2 2.0 6.2 6.4 4 1.2 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1
2002	1.8 255 3.5 3.1 2.7 1.9 1.3 3.0 1.7 1.8 1.3 3.9 1.7 1.7 1.8 3.8 3.9 2.5 2.3 3.8 2.5 2.3 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3	2.7 2.8 3.3 3.4 2.9 2.3 2.3 2.0 2.0 2.2 -1.0 -1.1 -3.8 -5.1 -1.59 2.3 2.7 2.9 2.6 3.6 3.6 2.1		1.9 1.9 2.7 3.0 2.6 1.9 1.4 -1.4 1.5 -1.7 -1.7 -1.2 -2.3 -1.7 1.6 1.6 1.6 1.8 1.9 1.9	-7.9	-17.7 -3.8 1.1 1.4 9.2 9.2 14.1 6.4 -21.2 -15.8 4.1 .8 9.4 -3.7 -10.2 -32.1 -30.8 -20.1 -30.8 -24.7 -24.7 -24.7 -10.5 -14.3 -22.6 -14.3 -22.6 -14.4	-4.2 3.1.1 7.9 8.5 7.6 3.3 -16.0 10.3 -1.7 -7.9 -13.1 -29.3 -4.2 6.4 11.7 23.2 14.1 8.1 8.7 6.2	5.2	-2.0		4,7 2,2 1,4 1,3 1,4 1,3 2,6 1,7 -2,1 3,1 1,7 4,3 1,6 -1,7 5,9 1,3 -1,9 -1,2 -2,8 -5,9 -1,9 -1,1	7.3 6.6 4.1 1.3 2.1 7.2 6.0 9.7 4.5 9.7 9.1 11.7 9.1 -3.3 8.8 8.8 3.2 -2.0 -9.4 1.9	3.3 3.1 -1.1 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1

Note: Percent changes based on unrounded data.

Table B-5. Contributions to percent change in real gross domestic product, 1963-2011

[Percentage points, except as noted; quarterly data at seasonally adjusted annual rates]

Page 2 Page 3 P			Personal co	nsumption e	xpenditures			Gross priva	ate domestic	investment		
Peter of quarter								Fi	xed investme	ent		
Total Total Structures Total Total Structures Structures Hesting of the minist and software Hesting of t	Year or quarter	product	T.,	0 1	0 .	T		1	Vonresidentia	al		Change in
1984			lotal	Goods	Services	lotal	Total	Total	Structures	ment and		private inven- tories
1973	1964	5.8 6.4 6.5 2.5 4.8 3.1 .2 3.4	3.69 3.91 3.50 1.82 3.51 2.29 1.44 2.37	1.91 2.26 2.02 .62 1.92 .95 .24	1.78 1.66 1.48 1.21 1.59 1.34 1.19	1.25 2.16 1.44 76 .90 .90 -1.04 1.67	1.37 1.50 .87 28 .99 .90 31 1.10	1.07 1.65 1.29 15 .46 .78 06	.36 .57 .27 10 .05 .20 .01 06	.71 1.07 1.02 05 .41 .58 07	.30 15 43 13 .53 .13 26 1.10	-0.08 13 .66 .58 49 10 .00 73 .58
1982	1973 1974 1975 1976 1977 1978 1979	5.8 6 2 5.4 4.6 5.6 3.1	3.08 52 1.40 3.51 2.66 2.77 1.48	1.57 -1.12 .20 2.08 1.28 1.22 .47 74	1.51 .60 1.20 1.43 1.38 1.56 1.02	1.96 -1.31 -2.98 2.84 2.43 2.16 .61	1.47 -1.04 -1.71 1.42 2.18 2.04 1.02 -1.21	1.50 .09 -1.14 .52 1.19 1.69 1.23 03	.31 09 43 .09 .15 .54 .53	1.19 .18 70 .43 1.04 1.15 .71	04 -1.13 57 .90 .99 .35 21	27 -1.27 1.41 .25 .12 41
1991	1982	-1.9 4.5 7.2 4.1 3.5 3.2 4.1 3.6	.86 3.65 3.43 3.32 2.62 2.01 2.64 1.86	.19 1.74 1.97 1.41 1.49 .48 .98	.67 1.91 1.47 1.90 1.13 1.53 1.66 1.20	-2.55 1.45 4.63 17 12 .51 .39	-1.21 1.17 2.68 .89 .20 .09 .53	50 17 2.05 .82 36 01 .58	09 57 .60 .32 50 11 .02	42 .41 1.45 .50 .15 .10 .55	1.33 .64 .07 .55 .10 05 14	1.16 -1.34 .29 1.95 -1.06 32 .42 14
1	1991	2 3.4 2.9 4.1 2.5 3.7 4.5 4.4	2.27 2.37 2.57 1.81 2.35 2.48 3.50	51 .78 1.02 1.29 .73 1.09 1.16	.61 1.49 1.35 1.27 1.08 1.26 1.33 1.90	-1.20 1.07 1.21 1.94 .48 1.35 1.95	94 .79 1.14 1.30 .94 1.33 1.41	57 .31 .83 .91 1.08 1.01 1.33 1.38	39 18 02 .05 .17 .16 .21	18 .50 .85 .86 .91 .85 1.12	37 .47 .31 .39 14 .33 .08	21 26 .29 .07 .63 46 .02 .54 05
2011 P 1.7 1.53 87 66 58 79 82 11 71 03 2008 1.8 70 -1.37 67 -2.02 -1.36 10	2001 2002 2003 2004 2005 2006 2007 2008 2009	1.1 1.8 2.5 3.5 3.1 2.7 1.9 -3 -3.5	1.85 1.85 1.97 2.30 2.35 1.98 1.60 39 -1.32	.77 .99 1.12 1.09 1.01 .80 .71 59 69	1.09 .86 .85 1.22 1.34 1.18 .89 .21 63	-1.24 22 .60 1.57 .93 .47 56 -1.66 -3.61	32 70 .54 1.15 1.05 .40 33 -1.15 -2.77	35 94 .14 .63 .69 .86 .73 09 -2.05	05 58 10 .03 .04 .27 .46 .24 85	30 36 .24 .60 .65 .59 .26 34 -1.20	.03 .24 .40 .52 .36 46 -1.05 -1.05	05 92 .48 .06 .42 13 .07 23 51 84
	2011 <i>P</i>	1.7 -1.8 1.3 -3.7 -8.9	1.53 70 08 -2.67 -3.53	.87 -1.37 .12 -1.89 -3.04	.66 .67 20 78 49	.58 -2.02 94 -2.63 -5.59	.79 -1.36 80 -1.91 -4.05	.82 10 25 -1.18 -2.84	.11 .03 .37 14 41	.71 13 63 -1.04 -2.43	03 -1.26 55 73 -1.21	1.64 20 66 14 73 -1.54
11 20 20 20 20 20 20 20 40 45 50	 2010:	7 1.7 3.8 3.9	-1.28 1.66 .33 1.92	52 1.70 .12 1.45	76 04 .21	-2.84 .35 3.51 3.25	-2.26 .13 42	-1.66 29 33	-1.41 71 -1.07 76	25 .42 .74 1.32	60 .42 10 41	-2.66 58 .21 3.93 3.10
38 2.05 87 1.18 2.92 2.12 1.62 1.8 1.45 5.0	III IV 2011: I	2.5 2.3 .4 1.3	1.85 2.48 1.47 .49	1.09 1.87 1.10 38	.75 .61 .36 .87	1.14 91 .47 .79	.28 .88 .15 1.07	1.04 .82 .20 .98	.10 .26 40	.94 .56 .60	76 .06 06 .09	.79 .86 -1.79 .32 28 -1.35

See next page for continuation of table.

Table B–5. Contributions to percent change in real gross domestic product, 1963-2011-Continued

[Percentage points, except as noted; quarterly data at seasonally adjusted annual rates]

	. l	Percentage	e points, ex	cept as no	ted; quarte	erly data at	t seasonall	y adjusted	annual rat	.es] 		
			Net exports	s of goods ar	nd services			Go		consumption gross invest	n expenditur ment	es
Year or quarter	Not		Exports			Imports				Federal		State
	Net exports	Total	Goods	Services	Total	Goods	Services	Total	Total	National defense	Non- defense	and local
1963 1964 1965 1966 1967 1968	0.24 .36 30 29 22 30 04	0.35 .59 .15 .36 .12 .41 .25	0.29 .52 .02 .27 .02 .30 .20	0.06 .07 .13 .09 .10 .10	-0.12 23 45 65 34 71 29	-0.12 19 41 49 17 68 20	0.00 04 04 16 16 03 09	0.58 .49 .65 1.87 1.68 .73 05	0.01 17 01 1.24 1.17 .10 42	-0.25 39 19 1.21 1.19 .16 49	0.26 .23 .19 .03 02 06	0.57 .65 .66 .63 .51 .63
1970 1971 1972 1973 1974 1975 1976 1976 1977 1978	.34 19 21 .82 .75 .89 -1.08 72 .05	.56 .10 .42 1.12 .58 05 .37 .20 .82	.44 02 .43 1.01 .46 16 .31 .08 .68	.12 .11 01 .11 .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	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 .21 06 03 .17 .02 .28 .21 .20	.71 27 .12 -1.13 -2.21 65 84 61 43	.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 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 .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 06 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 2008 2009	85 20 65 45 66 27 06 .62 1.21	.91 61 20 .15 .90 .67 .93 1.03 .73 -1.18	.25 .82 48 25 .12 .56 .52 .68 .75 .53 -1.04	.08 13 .05 .03 .34 .15 .25 .28 .20	-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 .02 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 .43 .40 01 02 03 .11 .17 .00
2010	51 .05 .38 2.00 .79 12 2.44	1.31 .88 .65 1.56 47 -2.97 -3.82	1.12 .68 .75 1.21 22 -2.75 -3.25	.19 .20 10 .35 24 21	-1.82 82 28 .44 1.25 2.84 6.26	-1.74 79 .05 .31 1.47 2.98 5.63	08 03 33 .13 21 14	.14 45 .58 .34 .85 .35 33 1.21	.37 17 .66 .35 .84 .69	.18 13 .38 .27 .85 .44 40	.19 03 .28 .09 01 .25	23 28 08 01 .01 34 08
2010: I	2.21 59 .15 97 -1.94 68 1.37	02 1.49 2.51 .86 1.19 1.21 .98	20 1.48 2.01 .96 .97 .75	.18 .01 .49 10 .23 .46	2.24 -2.08 -2.36 -1.83 -3.13 -1.89	2.15 -1.98 -2.36 -1.71 -3.05 -1.58 .08	.09 10 .00 12 08 31	.28 18 26 .77 .20	1.09 .48 .18 .23 .71 .26 26	.84 .45 07 .03 .33 .31 34	.25 .03 .25 .21 .38 05	.12 19 37 49 .05 06 33
IV 2011: I II IV P	34 .24 .43 11	1.01 .48 .64 .64	.79 .94 .24 .48	.18 .07 .24 .16	-1.35 24 21 75	-1.29 23 08 60	06 01 13 15	58 -1.23 18 02 93	26 82 .16 .17 62	74 .37 .27 73	08 22 10	33 41 34 19 32

Table B-6. Chain-type quantity indexes for gross domestic product, 1963-2011

[Index numbers, 2005=100; quarterly data seasonally adjusted]

			onsumption ex		quarterry data			nestic investm	ent	
		1 Gradital G	mounipilon ex	ponunturos		die		ixed investmen		
Year or quarter	Gross domestic							Nonresidentia		
	product	Total	Goods	Services	Total	Total	Total	Structures	Equip- ment and software	Resi- dential
1963 1964 1965 1966 1967 1968 1970 1971 1972 1973 1974 1975 1976 1978 1978 1979 1980 1983 1983 1984 1984 1988 1988 1988 1988 1989 1990 1991 1992 1992	25.382 26.88575 30.437 31.206 32.717 33.733 34.932 36.788 34.932 38.700 38.623 40.695 42.566 44.940 46.345 46.470 48.570 52.060 54.214 56.092 57.887 60.256 62.420 63.591 63.591 63.595 67.466	22.593 23.939 25.453 26.897 27.703 30.399 31.112 32.297 34.283 35.982 35.683 36.492 38.525 40.146 42.912 42.761 44.015 46.531 48.998 51.551 53.642 55.297 57.525 59.152 60.359 60.450 62.511 64.731 64.731	21.701 22.994 24.623 26.184 26.184 29.216 29.216 32.685 33.124 33.318 33.124 33.5684 37.215 38.753 39.373 3	22.543 23.885 25.204 26.453 27.541 29.009 30.303 31.4574 34.588 36.783 38.164 39.802 41.447 43.375 44.700 45.303 47.103 4	16.249 17.589 20.058 21.825 20.827 22.039 23.323 21.791 24.275 27.150 30.331 28.097 23.120 27.791 31.989 35.846 36.989 32.926 42.971 44.295 45.254 45.254 49.299 55.998	16.306 17.882 19.708 20.838 20.453 21.881 23.242 22.742 27.511 31.485 35.274 37.285 34.844 43.729 44.237 44.423 44.543 47.729 44.237 44.844 45.947 47.328 46.340 48.339 46.340 48.339 48.399 48	12.247 13.701 16.088 18.100 17.856 18.654 20.070 19.963 21.797 24.968 25.177 24.968 25.177 22.680 33.517 33.429 35.333 34.003 33.517 34.03 33.429 42.103 44.090 43.088 44.103 43.1866 44.456 44.456 44.456 44.456	51.986 57.398 66.553 71.109 69.313 70.299 74.096 74.300 73.082 75.359 81.520 79.755 71.357 76.079 87.058 98.098 103.837 112.161 110.325 120.095 103.859 104.616 108.187 96.354 89.768 89.768	50ftware 6.476 7.303 8.641 10.024 9.958 11.513 11.397 11.512 12.997 15.381 15.774 14.272 15.164 17.449 20.106 21.861 21.075 21.971 20.829 21.950 26.303 27.974 28.895 31.074 33.351 33.361 32.364 34.873 39.226	32.142 34.011 33.017 30.063 29.117 33.086 34.063 32.026 40.808 48.061 47.752 37.895 32.975 40.740 49.486 56.672 39.949 36.747 49.486 56.680 56.807 56.831 56.531 56.531 56.533 56
1995 1996 1997 1998	71.980 74.672 78.000 81.397 85.326	69.021 71.429 74.066 77.950 82.213	61.623 64.383 67.453 72.010 77.745	73.488 75.640 77.973 81.409 84.744	57.743 62.851 70.672 77.747 84.592	58.010 63.213 69.045 76.537 83.658	58.478 63.940 71.658 80.264 88.640	97.235 102.744 110.280 115.911 116.049	49.158 54.383 61.861 70.837 80.857	58.850 63.550 64.751 69.732 74.092
2000 2001 2002 2002 2003 2004 2005 2006 2007 2008 2008 2009 2010	88.857 89.816 91.445 93.769 97.021 100.000 102.658 104.622 104.270 100.635	86.382 88.718 91.080 93.650 96.731 100.000 102.850 105.218 104.637 102.657	81.847 84.417 87.848 91.890 95.988 100.000 103.322 106.394 103.776 100.693	88.944 91.134 92.870 94.611 97.134 100.000 102.599 104.599 105.067 103.644 104.628	90.371 84.023 82.879 86.090 94.749 100.000 102.742 99.412 89.296 66.944 78.945	89.843 88.142 84.412 87.390 93.880 100.000 102.375 100.390 93.228 75.688 77.667	97.327 94.614 87.112 88.290 93.740 100.000 108.027 115.039 114.125 93.755 97.913	125.101 123.191 101.377 97.514 98.571 100.000 109.180 124.578 132.595 104.426 87.883	89.320 86.438 82.789 85.377 92.138 100.000 107.590 111.168 106.411 89.367 102.393	74.834 75.258 79.204 85.712 94.130 100.000 92.667 75.379 57.345 44.587
2011 P 2008: I	105.470	107.015	108.944	106.087 105.465	82.642 94.633	82.822 97.363	106.314 117.944	91.497 131.860	112.909	42.091 62.104
 	105.447 104.468 102.064	105.478 104.458 103.096	105.719 103.615 100.171	105.344 104.884 104.576	93.176 89.061 80.314	96.078 92.989 86.480	117.269 114.238 107.050	134.869 133.594 130.057	109.945 106.148 97.330	59.721 56.484 51.072
2009: I II IV	100.319 100.145 100.567 101.509	102.696 102.215 102.803 102.915	100.190 99.597 101.430 101.555	103.958 103.524 103.493 103.599	68.610 64.317 64.782 70.067	78.473 74.910 75.041 74.327	97.447 93.341 92.556 91.678	118.078 106.721 100.894 92.013	88.760 87.812 89.194 91.700	45.790 43.133 44.932 44.495
2010: I II IV	102.494 103.450 104.093 104.699	103.608 104.355 105.038 105.962	103.139 104.100 105.333 107.452	103.853 104.496 104.912 105.250	75.037 79.562 81.333 79.848	74.541 77.935 78.380 79.812	93.023 97.081 99.725 101.822	85.704 87.261 88.169 90.399	96.309 101.463 104.873 106.925	42.680 44.933 41.427 41.684
2011: I II IV P	104.792 105.140 105.614 106.334	106.511 106.693 107.156 107.699	108.700 108.272 108.646 110.157	105.453 105.941 106.449 106.506	80.600 81.869 82.135 85.964	80.052 81.829 84.362 85.046	102.342 104.889 108.782 109.244	86.974 91.511 94.631 92.874	109.174 110.839 115.077 116.546	41.428 41.855 41.991 43.090

See next page for continuation of table.

Table B-6. Chain-type quantity indexes for gross domestic product, 1963-2011—Continued [Index numbers, 2005=100; quarterly data seasonally adjusted]

	Exports of	of goods and			of goods and	<u></u>	Governmen		n expenditur	es and gross	investment
Year or quarter									Federal		State
	Total	Goods	Services	Total	Goods	Services	Total	Total	National defense	Non- defense	and local
1963 1964 1965 1966 1967 1968	8.535 9.540 9.807 10.487 10.728 11.572 12.131	8.074 9.180 9.228 9.870 9.916 10.701 11.262	9.605 10.180 11.215 11.986 12.932 13.925 14.442	6.411 6.752 7.471 8.581 9.206 10.578 11.181	5.035 5.367 6.127 7.093 7.466 9.009 9.502	14.943 15.328 15.779 17.783 19.957 20.315 21.596	42.032 42.958 44.250 48.149 51.844 53.472 53.347	60.526 59.725 59.697 66.303 72.903 73.491 70.969	72.838 69.951 68.481 78.306 88.567 90.001 85.556	36.946 40.157 42.878 43.320 42.913 41.897 43.019	30.552 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	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 1997	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 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 2008 2009	90.985 85.880 84.160 85.514 93.677 100.000 108.969 119.108 126.376 114.479	93.080 87.318 84.176 85.687 92.995 100.000 109.425 120.090 127.691 112.417	86.102 82.534 84.115 85.107 95.237 100.000 107.935 116.885 123.395 119.041	80.813 78.540 81.213 84.806 94.212 100.000 106.099 108.652 105.733 91.372	80.018 77.464 80.341 84.302 93.637 100.000 105.920 108.674 104.500 88.174	84.955 84.292 85.837 87.474 97.252 100.000 107.059 108.539 112.488 108.576	88.519 91.917 96.192 98.336 99.668 100.000 101.359 102.713 105.381 107.161	79.661 82.901 88.953 94.839 98.710 100.000 102.127 103.399 110.819 117.479	76.986 79.908 85.782 93.243 98.535 100.000 101.588 103.867 111.649 118.090	85.066 88.945 95.357 98.071 99.067 100.000 103.237 102.420 109.081 116.200	93.744 97.236 100.473 100.408 100.234 100.000 100.910 102.311 102.310 101.378
2010 2011 ^p	127.444 136.112	128.564 138.256	125.030 131.392	102.821 107.934	101.248 107.118	111.742 112.937	107.886 105.577	122.782 120.363	121.942 119.076	124.508 123.004	99.557 97.308
2008: I II IV	125.966 129.793 128.631 121.112	127.394 131.666 130.878 120.825	122.720 125.544 123.540 121.774	108.203 107.511 105.698 101.518	107.516 106.907 104.396 99.182	111.891 110.696 112.908 114.459	104.391 104.838 105.941 106.356	107.703 108.996 112.058 114.518	107.756 109.173 113.693 115.975	107.602 108.640 108.622 111.459	102.501 102.473 102.490 101.776
2009: V	111.191 111.058 114.728 120.941	108.530 107.723 113.062 120.352	117.044 118.392 118.433 122.297	91.492 87.838 91.215 94.941	88.340 84.079 87.919 92.357	108.490 107.816 108.940 109.060	105.895 107.431 107.779 107.537	113.570 117.445 119.128 119.772	113.724 118.106 120.457 120.073	113.237 116.062 116.365 119.137	101.583 101.817 101.424 100.689
2010: 	123.074 126.049 129.101 131.551	123.835 127.341 130.096 132.984	121.464 123.262 126.961 128.433	97.789 102.695 105.708 105.091	95.522 101.199 104.206 104.065	110.303 111.197 114.282 111.185	107.205 108.193 108.457 107.691	120.614 123.177 124.138 123.197	120.233 121.992 123.698 121.846	121.391 125.618 125.038 125.985	99.704 99.814 99.689 99.020
2011: 	134.061 135.240 136.789 138.358	136.363 137.206 138.874 140.579	128.977 130.926 132.204 133.463	107.207 107.573 107.897 109.058	106.464 106.875 107.020 108.113	111.798 111.918 113.243 114.788	106.076 105.837 105.812 104.582	120.195 120.769 121.385 119.101	117.822 119.841 121.311 117.332	125.111 122.665 121.494 122.745	98.177 97.488 97.107 96.461

Table B–7. Chain-type price indexes for gross domestic product, 1963-2011

[Index numbers, 2005=100, except as noted; quarterly data seasonally adjusted]

		Personal co	nsumption ex	penditures	·	Gro	oss private dor	nestic investm	nent	
	Gross						F	ixed investme	nt	
Year or quarter	domestic product	Total	Goods	Services	Total		ı	Nonresidentia	I	
	product	IUIAI	doods	Services	IUIAI	Total	Total	Structures	Equip- ment and software	Resi- dential
1963 1964 1965 1966 1967 1968	19.290 19.589 19.945 20.511 21.142 22.040 23.130	19.254 19.536 19.819 20.322 20.834 21.645 22.626	29.689 30.013 30.328 30.996 31.542 32.642 33.907	14.305 14.572 14.845 15.276 15.785 16.467 17.324	26.560 26.710 27.136 27.692 28.424 29.485 30.883	25.485 25.640 26.077 26.626 27.372 28.472 29.877	33.971 34.142 34.532 35.047 35.939 37.203 38.740	11.636 11.801 12.143 12.580 12.973 13.621 14.518	53.975 53.952 54.001 54.144 55.344 56.831 58.411	12.901 13.003 13.372 13.857 14.339 15.100 16.144
1970 1971 1972 1973 1974 1975 1976 1976 1977 1980 1980 1981 1982 1983 1984 1985 1985	24,349 25,567 26,670 28,148 30,695 33,606 35,535 37,796 40,447 43,811 47,817 52,326 55,514 57,705 59,874 61,686 63,057 64,818	23 685 24 692 25 536 26 913 29 716 32 198 33 966 36 171 38 705 42 137 46 663 50 833 53 640 55 946 59 965 61 427 63 618	35 200 36.258 37.186 39.404 44.322 47.903 49.777 52.435 55.653 60.916 67.737 72.769 74.753 76.102 77.541 78.785 78.417 80.939	18.285 19.284 20.102 21.077 22.866 24.834 26.556 28.558 30.777 33.350 36.802 40.555 43.709 46.429 48.846 51.049 53.375 55.409	32, 190 33, 794 35, 206 37, 107 40, 797 45, 833 48, 366 51, 994 56, 235 61, 323 67, 080 73, 422 77, 180 76, 987 77, 538 78, 332 80, 029 81, 561	31,162 32,731 34,135 36,020 39,568 44,525 47,106 50,803 55,094 60,088 65,710 71,816 75,747 75,628 76,070 77,028 78,870 80,332	40.571 42.479 43.914 45.605 50.008 60.048 64.157 68.453 74.013 80.541 83.316 92.350 92.127 92.850 94.427 95.275	15.473 16.664 17.863 19.247 21.910 24.534 25.741 27.33 30.675 34.238 37.421 42.567 45.927 44.757 46.219 47.106 47.863	60.560 62.360 63.112 64.184 68.917 79.100 83.754 88.730 93.412 99.335 107.819 115.524 120.030 120.284 119.234 119.090 120.976	16.666 17.632 18.703 20.359 22.460 24.547 26.124 28.759 32.281 35.902 39.789 43.036 45.340 46.380 47.713 48.944 53.079
1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1997 1998	67.047 69.579 72.274 74.826 76.602 78.288 79.935 81.602 83.154 84.627 85.580 86.840 88.724	66.151 69.025 72.180 74.789 76.989 78.679 80.302 82.078 83.864 85.433 86.246 87.636	83.072 86.268 89.801 91.996 93.106 93.915 94.870 95.757 96.809 96.696 95.237 95.735	58.123 60.840 63.808 66.581 69.236 71.294 73.200 75.365 77.473 79.812 81.689 83.509 85.818	83.424 85.418 87.064 88.302 87.993 88.997 90.157 91.173 90.786 90.449 89.435 89.315 90.283	82.415 84.410 86.125 87.404 87.152 88.163 89.352 90.393 90.149 89.921 89.085 89.029	97.392 99.435 101.339 102.906 102.048 102.100 102.592 102.811 101.612 100.326 98.125 96.704 96.750	49.895 51.848 53.522 54.491 54.502 56.103 58.089 60.601 62.141 64.516 67.480 69.559 72.298	123.155 124.695 126.310 128.112 126.605 125.322 124.604 123.163 120.199 116.639 111.454 108.195	54.913 56.680 58.011 58.771 59.486 61.890 64.069 66.403 67.828 69.557 71.412 74.151
2001 2002 2003 2004 2005 2006 2007 2008 2009	90.731 92.192 94.134 96.784 100.000 103.237 106.231 108.565 109.732	91.530 92.778 94.658 97.121 100.000 102.723 105.499 108.943 109.169	97.563 96.563 96.492 97.929 100.000 101.441 102.764 105.912 103.209	88.422 90.801 93.686 96.688 100.000 103.414 106.981 110.584 112.353	91.080 91.451 92.483 95.633 100.000 104.302 106.313 107.501 106.401	90.888 91.261 92.374 95.543 100.000 104.347 106.360 107.587 106.305	96.317 95.889 95.471 96.837 100.000 103.425 105.645 107.717 107.106	76.087 79.292 82.174 88.441 100.000 112.922 119.780 125.706 122.490	104.364 102.240 100.450 99.900 100.000 100.049 100.525 101.000 101.496	80.994 83.002 86.953 93.297 100.000 106.081 107.612 106.296 102.637
2010	111.000 113.307 107.623 108.282 109.107 109.247	111.112 113.815 107.852 109.052 110.218 108.650	104.837 108.750 105.356 106.609 108.437 103.248	114.465 116.493 109.211 110.386 111.204 111.536	104.743 106.432 106.487 106.815 107.447 109.254	104.843 106.161 106.687 107.048 107.912 108.699	105.373 106.734 106.261 106.846 108.183 109.578	121.117 126.597 123.025 124.220 126.538 129.041	99.634 99.745 100.070 100.396 101.313 102.222	102.214 103.367 107.250 106.941 106.196 104.799
2009: I II IV	109.709 109.589 109.662 109.969	108.194 108.703 109.513 110.265	101.575 102.597 104.007 104.657	111.715 111.964 112.463 113.269	108.646 106.872 105.274 104.811	108.062 106.595 105.410 105.154	108.968 107.525 106.238 105.694	127.209 123.194 120.003 119.555	102.182 101.851 101.295 100.657	104.023 102.451 101.643 102.430
2010: I II III IV	110.370 110.770 111.162 111.699	110.774 110.864 111.136 111.673	105.196 104.286 104.497 105.367	113.758 114.380 114.682 115.037	104.507 104.510 104.755 105.199	104.818 104.693 104.826 105.035	105.237 105.293 105.424 105.536	119.947 120.647 121.399 122.475	99.860 99.677 99.595 99.406	102.568 101.784 101.941 102.563
2011: I II IV P	112.390 113.091 113.811 113.935	112.747 113.666 114.324 114.524	107.412 108.752 109.530 109.304	115.574 116.260 116.852 117.286	105.755 106.342 106.646 106.983	105.412 106.039 106.433 106.759	105.909 106.560 107.027 107.442	123.982 125.835 127.565 129.008	99.446 99.743 99.838 99.953	102.958 103.479 103.551 103.482

See next page for continuation of table.

TABLE B-7. Chain-type price indexes for gross domestic product, 1963-2011—Continued

[Index numbers, 2005=100, except as noted; quarterly data seasonally adjusted]

		lind	iex numbe	rs, 2005=	iuu, excep	ot as noted	; quarterly	data seas	onally adji	usteaj			
	Exports ar of go and se	ods '	Go		onsumptior gross invest	n expenditu ment	res	Final		omestic ases ¹	Pen	cent chan	ge ²
Year or quarter					Federal		State	sales of domes- tic		Less	Gross domes-		omestic ases ¹
	Exports	Imports	Total	Total	National defense	Non- defense	and local	product	Total	food and energy	tic product	Total	Less food and energy
1963	27.898 28.128 29.023 29.900 31.045 31.723 35.310 36.956 41.816 51.517 56.781 56.645 61.033 64.752 72.545 79.903 85.810 86.204 86.544 87.347 483.406 85.516 89.945 91.443 92.079 33.914 96.079 93.174 91.042 90.477 92.069 91.696 91.322 93.282 93.539	20.102 20.526 20.812 21.297 21.379 21.704 22.270 23.587 25.035 26.035 26.035 31.489 31.446 44.989 31.456 36.855 36.01 89.886 86.855 33.601 82.879 80.157 80.154 85.008 89.074 91.021 92.22 92.22 92.21 93.21 94.21	13.690 14.070 14.444 15.671 16.520 17.517 18.945 20.421 23.594 25.977 28.586 30.469 33.4670 37.576 45.768 45.768 45.768 45.768 45.768 45.768 63.469 67.276 66.606 67.276 66.606 67.276 68.919 72.753 74.488 75.854 76.819 72.753 84.764 87.003 90.650 94.531	14.506 14.956 15.379 15.914 16.386 17.287 18.226 19.699 21.383 23.471 23.471 23.473 30.158 30.158 30.302 34.742 34.848 39.727 43.900 48.165 51.434 53.218 56.358 57.638 57.638 57.638 57.638 57.637 68.101 69.830 68.101 69.830 67.777 77.931 77.938 82.524 84.201 82.524 84.321 87.725 73.717 77.938 82.524 84.321 87.725 73.717 77.938 82.524 84.321 87.318 91.024 95.335	defense 14.209 14.620 15.024 15.535 15.994 16.834 17.757 19.116 20.8110 23.209 24.911 27.223 29.880 32.057 34.486 39.853 44.179 48.542 51.953 53.775 57.603 58.696 60.326 61.882 63.917 66.222 69.712 77.328 81.821 83.484 86.624 90.659	15.037 15.798 16.104 16.708 17.215 18.327 19.284 21.143 22.746 21.2245 25.231 27.245 30.505 32.593 36.514 39.100 42.906 46.917 49.825 51.501 52.779 54.574 55.915 56.953 56.672 67.034 70.002 72.267 74.830 83.907 85.612 91.774 96.234	13.028 13.293 13.662 14.334 15.137 15.945 17.013 18.411 19.720 24.970 27.410 29.114 31.015 33.042 35.975 46.786 46.786 46.786 63.474 66.856 68.474 66.856 68.474 66.856 68.474 67.219 76.320 79.036 82.482 85.019 86.810 90.425 94.062	19.141 19.440 19.798 20.363 20.996 21.898 22.988 24.203 25.415 27.992 30.519 33.418 35.350 33.418 40.266 43.614 47.598 52.074 45.526 64.607 66.865 69.397 72.102 74.655 76.436 77.75 81.439 83.024 84.522 85.516 86.795 88.698 90.709 92.168 94.123 96.774	18.887 19.191 19.524 20.071 20.654 21.526 22.582 23.798 25.021 26.134 27.647 30.484 33.328 35.238 35.238 35.238 35.238 35.238 35.238 43.833 48.448 52.909 55.906 63.000 64.978 69.765 72.601 74.980 76.788 76	55.408 57.569 59.704 61.577 63.464 65.506 67.900 70.346 73.043 75.520 79.228 84.077 85.344 86.171 97.463 89.243 90.851 92.384 94.214 96.779	1.1 1.8 2.8 3.1 4.2 4.9 5.3 5.3 5.0 9.5 6.4 7 6.4 7 8.3 9.1 9.1 9.1 9.2 2.8 3.8 3.9 2.2 2.8 3.8 3.1 2.2 2.1 2.1 2.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3.1 3	1.2 1.6 1.7 2.8 4.2 2.9 4.2 4.9 4.5 4.1 4.4 4.5 1.5 7.7 3.5 5.7 3.5 3.3 3.1 3.4 4.2 1.1 2.1 1.5 7.7 1.6 6.2 5.1 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1.9 1	senergy senerg
2005 2006 2007 2008 2009	100.000 103.440 106.900 111.975 105.959 110.617	100.000 104.131 107.785 119.237 106.571 113.032	100.000 104.842 109.863 115.245 114.883 117.445	100.000 104.107 107.753 111.225 111.000 113.653	100.000 104.421 108.249 112.187 111.402 114.046	100.000 103.468 106.743 109.240 110.188 112.860	100.000 105.276 111.112 117.666 117.214 119.704	100.000 103.240 106.238 108.576 109.703	100.000 103.354 106.402 109.858 109.803 111.438	100.000 103.127 105.938 108.719 109.580 110.898	3.3 3.2 2.9 2.2 1.1	3.7 3.4 2.9 3.2 1 1.5	2.7 3.3 3.1 2.7 2.6 .8 1.2
2011 P	117.546 110.731 113.584 115.264 108.320	121.774 116.791 122.490 125.623 112.045	121.093 113.673 115.506 116.698 115.103	116.878 110.488 111.605 112.080 110.726	117.593 111.240 112.696 113.251 111.561	115.456 108.936 109.353 109.654 109.017	123.646 115.571 117.848 119.496 117.750	113.242 107.647 108.309 109.171 109.179	114.186 108.703 109.893 110.982 109.852	112.874 107.751 108.576 109.291 109.256	2.1 2.5 2.5 3.1 .5	2.5 4.1 4.5 4.0 -4.0	1.8 3.4 3.1 2.7 1
2009: I II III IV	104.944 104.967 106.249 107.674 108.955	102.793 104.443 108.027 111.019	114.581 114.572 114.908 115.470	111.065 110.502 110.898 111.537	111.610 110.902 111.202 111.892	109.961 109.690 110.285 110.817	116.666 117.030 117.326 117.835 119.030	109.637 109.544 109.652 109.979	109.340 109.472 109.913 110.485	109.249 109.424 109.592 110.056	1.7 4 .3 1.1	-1.9 .5 1.6 2.1	.0 .6 .6 1.7
2010: 	110.295 110.461 112.757	113.252 112.610 111.994 114.271	116.812 117.182 117.444 118.341	113.080 113.444 113.759 114.331	113.455 113.834 114.093 114.802	112.321 112.655 113.083 113.380	119.404 119.627 120.757	110.375 110.761 111.140 111.647	111.057 111.190 111.456 112.048	110.783 110.991 111.326	1.5 1.5 1.4 1.9	2.1 .5 1.0 2.1	1.1 .8 1.2
2011: I II IV ^p	115.725 118.182 118.747 117.529	119.370 122.949 122.543 122.236	119.910 121.146 121.523 121.794	115.827 116.902 117.413 117.372	116.576 117.672 118.119 118.005	114.333 115.367 116.011 116.115	122.372 123.721 123.997 124.494	112.315 113.021 113.754 113.876	113.147 114.081 114.642 114.873	111.987 112.734 113.239 113.535	2.5 2.5 2.6 .4	4.0 3.3 2.0 .8	2.4 2.7 1.8 1.0

 $^{^{\}rm 1}$ Gross domestic product (GDP) less exports of goods and services plus imports of goods and services. $^{\rm 2}$ Quarterly percent changes are at annual rates.

Table B-8. Gross domestic product by major type of product, 1963-2011

							Goods					
	Gross	Final sales of	Change in		Total		Durable	goods	Nondural	ble goods		
Year or quarter	domestic product	domes- tic product	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
1963 1964 1965 1966 1967 1967 1968	617.8 663.6 719.1 787.7 832.4 909.8 984.4	612.1 658.8 709.9 774.1 822.6 900.8 975.3	5.6 4.8 9.2 13.6 9.9 9.1 9.2	258.5 277.8 304.3 337.1 345.4 370.8 397.6	252.9 273.0 295.1 323.5 335.5 361.7 388.4	5.6 4.8 9.2 13.6 9.9 9.1 9.2	108.6 119.3 131.6 145.4 150.0 162.8 175.7	2.6 3.8 6.2 10.0 4.8 4.5 6.0	144.3 153.7 163.5 178.0 185.5 198.9 212.7	3.0 1.0 3.0 3.6 5.0 4.5 3.2	286.6 307.4 330.1 362.6 397.5 439.1 478.6	72.7 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	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	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	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 4 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 13,939.0	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 14,099.8	54.5 -38.3 12.0 16.4 64.9 50.0 60.0 29.1 -41.1 -160.8	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 3,617.0	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 3,777.8	54.5 -38.3 12.0 16.4 64.9 50.0 60.0 29.1 -41.1 -160.8	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 1,911.4	35.6 -44.4 17.7 13.0 37.3 35.2 25.9 11.2 -23.1 -113.6	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 1,866.4	19.0 6.2 -5.6 3.3 27.6 14.7 34.0 17.9 -18.0 -47.2	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 9,211.9	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 1,110.1
2010 2011 ^p	14,526.5 15,087.7	14,459.6 15,040.5	66.9 47.2	4,009.9 4,256.0	3,943.0 4,208.8	66.9 47.2	2,006.0 2,153.6	45.5 32.3	1,937.0 2,055.2	21.4 14.9	9,508.6 9,811.8	1,008.0 1,020.0
2008: I II IV	14,273.9 14,415.5 14,395.1 14,081.7	14,293.4 14,433.8 14,439.2 14,164.2	-19.5 -18.3 -44.1 -82.5	3,825.3 3,847.5 3,789.8 3,571.9	3,844.8 3,865.8 3,833.9 3,654.4	-19.5 -18.3 -44.1 -82.5	2,101.3 2,090.2 2,058.1 1,922.8	-16.0 -34.2 -7.1 -35.1	1,743.5 1,775.6 1,775.8 1,731.6	-3.5 15.9 -37.0 -47.5	9,074.1 9,185.5 9,240.1 9,196.2	1,374.6 1,382.4 1,365.2 1,313.6
2009: I II IV	13,893.7 13,854.1 13,920.5 14,087.4	14,073.3 14,054.6 14,117.6 14,153.5	-179.5 -200.5 -197.1 -66.1	3,539.7 3,567.3 3,617.4 3,743.7	3,719.2 3,767.8 3,814.5 3,809.8	-179.5 -200.5 -197.1 -66.1	1,900.3 1,903.4 1,929.6 1,912.4	-142.1 -144.1 -118.8 -49.4	1,818.9 1,864.4 1,884.9 1,897.4	-37.4 -56.4 -78.3 -16.7	9,148.1 9,172.4 9,217.8 9,309.2	1,205.9 1,114.4 1,085.4 1,034.6
2010: I II IV	14,277.9 14,467.8 14,605.5 14,755.0	14,233.6 14,389.8 14,498.8 14,716.3	44.3 78.1 106.7 38.7	3,909.7 3,953.8 4,050.0 4,126.1	3,865.4 3,875.8 3,943.4 4,087.4	44.3 78.1 106.7 38.7	1,953.1 1,982.2 2,015.0 2,073.6	32.4 62.8 69.2 17.7	1,912.3 1,893.6 1,928.4 2,013.8	11.9 15.3 37.5 21.0	9,382.1 9,491.3 9,549.1 9,612.1	986.1 1,022.7 1,006.4 1,016.8
2011: V P	14,867.8 15,012.8 15,176.1 15,294.3	14,805.8 14,959.2 15,175.3 15,221.7	62.0 53.6 .8 72.6	4,193.8 4,199.4 4,262.2 4,368.7	4,131.8 4,145.8 4,261.4 4,296.1	62.0 53.6 .8 72.6	2,094.1 2,119.9 2,184.5 2,215.9	42.7 34.2 34.2 18.2	2,037.7 2,025.9 2,076.9 2,080.2	19.3 19.4 -33.4 54.4	9,684.1 9,800.4 9,877.2 9,885.4	989.9 1,013.0 1,036.7 1,040.2

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, 1963-2011

					,	,	Goods					
		Final	Change		Total		Durable	e 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
1963	3,204.0 3,389.4 3,607.0 3,842.1 3,939.2 4,129.9 4,258.2	3,199.9 3,390.8 3,587.6 3,803.4 3,920.0 4,115.8 4,245.0	20.3 17.3 32.9 47.1 33.9 30.8 30.8	673.0 718.1 778.4 846.0 848.3 882.2 912.6							2,090.5 2,189.6 2,299.2 2,441.1 2,577.0 2,712.9 2,801.0	591.7 631.5 663.1 663.9 654.2 694.5 703.3
1970 1971 1972 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							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 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	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							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 1991 1992 1993 1994 1995 1996 1997 1998	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	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	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 12,703.1	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 12,852.7	60.2 -41.8 12.8 17.3 66.3 50.0 59.4 27.7 -36.3 -144.9	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 3,566.6	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 3,732.1	60.2 -41.8 12.8 17.3 66.3 50.0 59.4 27.7 -36.3 -144.9	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 1,994.5	37.7 -46.4 18.1 13.5 38.1 35.2 25.2 10.8 -21.1 -105.9	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 1,730.4	21.4 7.3 -6.4 3.6 28.1 14.7 34.1 16.9 -15.5 -41.2	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 8,173.1	1,245.3 1,254.1 1,223.2 1,263.6 1,325.6 1,363.4 1,341.1 1,267.0 1,169.9 971.9
2010 2011 ^p	13,088.0 13,313.4	13,028.9 13,281.8	58.8 35.6	3,984.2 4,162.9	3,921.9 4,131.4	58.8 35.6	2,128.4 2,302.9	41.5 28.2	1,789.9 1,833.7	18.6 9.1	8,261.2 8,339.6	886.5 869.0
2008:	13,266.8 13,310.5 13,186.9 12,883.5 12,663.2 12,641.3 12,694.5	13,277.8 13,325.9 13,225.6 12,972.9 12,836.0 12,830.0 12,875.1	-12.5 -14.2 -38.1 -80.3 -161.6 -183.0 -178.7	3,862.0 3,905.1 3,822.0 3,569.6 3,471.1 3,502.7 3,569.9	3,877.2 3,924.9 3,867.0 3,669.9 3,661.8 3,710.8 3,769.3	-12.5 -14.2 -38.1 -80.3 -161.6 -183.0 -178.7	2,176.0 2,189.4 2,150.2 2,004.0 1,974.0 1,979.3 2,020.1	-14.8 -30.5 -5.8 -33.3 -132.6 -135.1 -110.3	1,702.8 1,736.3 1,717.0 1,663.1 1,682.6 1,723.9	1.6 13.8 -30.8 -46.4 -32.2 -50.6 -70.0	8,226.7 8,231.0 8,211.6 8,197.3 8,159.3 8,168.7 8,169.7	1,196.0 1,196.5 1,170.9 1,116.3 1,031.6 973.7 964.2
IV 2010: I II IV	12,813.5 12,937.7 13,058.5 13,139.6 13,216.1	12,869.5 12,895.9 12,992.2 13,046.0 13,181.6	-56.5 39.9 64.6 92.3 38.3	3,722.8 3,903.4 3,941.5 4,016.9 4,075.1	3,786.6 3,859.9 3,871.2 3,916.6 4,040.1	-56.5 39.9 64.6 92.3 38.3	2,004.6 2,061.4 2,100.9 2,140.2 2,211.2	-45.6 30.0 57.1 62.6 16.4	1,772.6 1,790.9 1,766.6 1,774.4 1,827.5	-12.0 11.1 9.6 31.5 22.3	8,194.8 8,201.4 8,253.9 8,284.5 8,305.0	918.1 872.0 902.9 884.3 886.6
2011: V P	13,227.9 13,271.8 13,331.6 13,422.4	13,182.8 13,236.2 13,340.9 13,367.4	49.1 39.1 -2.0 56.0	4,124.5 4,118.1 4,140.6 4,268.4	4,078.0 4,082.0 4,154.6 4,211.0	49.1 39.1 -2.0 56.0	2,240.2 2,266.6 2,334.2 2,370.7	37.4 29.8 29.8 15.9	1,837.6 1,819.0 1,828.6 1,849.5	13.9 11.1 –27.2 38.7	8,303.5 8,341.0 8,366.7 8,347.2	856.0 866.5 878.8 874.8

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, 1963-2011

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

			Business ¹		Househ	olds and inst	titutions	Gen	eral governm	ent ³	Adden-
Year or quarter	Gross domestic product	Total	Nonfarm ¹	Farm	Total	House- holds	Nonprofit institu- tions serving house- holds ²	Total	Federal	State and local	dum: Gross housing value added
1963 1964 1965 1966 1967 1968 1969	617.8 663.6 719.1 787.7 832.4 909.8 984.4 1,038.3	488.0 524.9 570.7 624.3 653.6 713.5 769.1 802.2	469.5 507.5 550.7 603.5 633.5 693.0 746.3 778.5	18.5 17.3 19.9 20.8 20.1 20.5 22.8 23.7	54.3 57.7 61.8 66.6 71.8 77.5 85.4 92.6	39.1 41.2 43.6 46.2 49.1 51.9 56.0 59.8	15.2 16.5 18.2 20.4 22.7 25.6 29.4 32.8	75.5 81.1 86.6 96.8 107.0 118.8 130.0	38.4 40.7 42.4 47.2 51.5 56.3 59.9 64.0	37.1 40.4 44.2 49.6 55.5 62.5 70.0 79.5	48.9 51.6 54.9 58.2 62.1 65.9 71.3 76.7
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	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	842.9 927.5 1,030.6 1,120.3 1,220.1 1,377.7 1,546.5 1,758.7 1,968.4	25.4 29.7 46.8 44.2 45.6 43.0 43.5 50.7 60.1	102.2 111.4 121.7 133.6 147.5 160.5 175.5 196.9 220.8	65.5 70.8 76.5 83.0 90.8 98.7 107.9 121.3 136.0	36.7 40.5 45.2 50.6 56.7 61.8 67.6 75.6 84.8	156.4 169.4 183.2 201.3 224.5 243.5 264.6 287.5 313.0	67.7 71.5 73.9 79.6 87.3 93.8 102.0 109.7 117.6	88.6 97.9 109.3 121.8 137.2 149.7 162.6 177.8 195.4	83.9 91.1 98.3 106.8 117.2 126.6 140.5 155.5
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	2,186.1 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 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 1998	5,800.5 5,890.1 6,342.3 6,667.4 7,085.2 7,414.7 7,838.5 8,332.4 8,793.5	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	722.7 767.6 801.9 831.2 859.9 884.8 911.3 940.3 972.5	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 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 13,939.0	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 10,338.8	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 10,225.7	73.6 76.2 72.3 92.4 118.3 102.0 93.1 114.9 130.5 113.1	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	673.5 719.5 746.0 762.7 806.0 864.4 924.8 968.1 1,042.8 1,046.9	483.7 513.4 552.1 584.5 617.7 642.0 678.1 717.8 762.9 789.1	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	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 1,210.9	849.9 904.4 932.5 938.2 988.7 1,054.0 1,130.8 1,200.6 1,299.7 1,321.2
2010 2011 <i>P</i>	14,526.5 15,087.7	10,879.1 11,381.8	10,746.5 11,230.4	132.6 151.4	1,838.4 1,867.5	1,033.6 1,037.3	804.8 830.1	1,809.1 1,838.5	589.6 608.6	1,219.5 1,230.0	1,314.5 1,330.3
2008: I II IV	14,273.9 14,415.5 14,395.1 14,081.7	10,842.8 10,926.9 10,869.0 10,512.6	10,699.7 10,791.9 10,746.2 10,391.9	143.2 135.1 122.8 120.7	1,764.9 1,802.3 1,816.0 1,839.6	1,016.1 1,045.6 1,050.1 1,059.2	748.7 756.7 765.9 780.4	1,666.2 1,686.2 1,710.0 1,729.6	506.9 514.6 521.9 527.4	1,159.3 1,171.7 1,188.0 1,202.2	1,262.6 1,299.3 1,310.3 1,326.8
2009: 	13,893.7 13,854.1 13,920.5 14,087.4	10,316.8 10,259.2 10,312.2 10,467.1	10,206.7 10,146.7 10,198.5 10,350.9	110.1 112.6 113.7 116.2	1,828.4 1,832.6 1,839.2 1,843.6	1,050.3 1,043.9 1,049.8 1,043.5	778.1 788.7 789.5 800.1	1,748.5 1,762.2 1,769.1 1,776.8	543.9 550.5 555.8 562.6	1,204.6 1,211.6 1,213.3 1,214.2	1,319.8 1,317.6 1,325.9 1,321.4
2010: 	14,277.9 14,467.8 14,605.5 14,755.0	10,646.1 10,820.7 10,950.7 11,098.9	10,524.4 10,697.1 10,809.6 10,954.7	121.7 123.6 141.1 144.1	1,833.9 1,835.2 1,843.9 1,840.5	1,039.3 1,033.0 1,031.5 1,030.6	794.7 802.3 812.4 810.0	1,797.9 1,811.9 1,810.9 1,815.6	580.9 592.2 591.3 593.8	1,217.0 1,219.8 1,219.6 1,221.8	1,319.6 1,313.5 1,312.8 1,312.3
2011: V P	14,867.8 15,012.8 15,176.1 15,294.3	11,188.9 11,315.1 11,462.7 11,560.5	11,038.0 11,161.4 11,307.4 11,414.7	150.9 153.6 155.3 145.8	1,851.9 1,861.6 1,871.5 1,884.8	1,035.1 1,036.7 1,035.9 1,041.6	816.8 824.9 835.6 843.2	1,827.0 1,836.1 1,841.9 1,849.0	601.9 607.2 611.0 614.2	1,225.2 1,228.9 1,231.0 1,234.8	1,321.5 1,327.4 1,330.4 1,341.7

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, 1963-2011

[Billions of chained (2005) dollars; quarterly data at seasonally adjusted annual rates]

		[DIIIIOIIS OF I	Business 1	Joj dollalo,		olds and inst	titutions			nn+ 3	
Year or quarter	Gross domestic product	Total	Nonfarm ¹	Farm	Total	House- holds	Nonprofit institu- tions serving house- holds ²	Total	eral governm Federal	State and local	Adden- dum: Gross housing value added
1963 1964 1965 1966 1967 1968 1969	3,204.0 3,389.4 3,607.0 3,842.1 3,939.2 4,129.9 4,258.2	2,186.8 2,325.4 2,489.6 2,658.0 2,708.9 2,843.7 2,930.7	2,152.8 2,297.1 2,459.8 2,635.6 2,681.0 2,821.6 2,907.6	25.7 24.9 26.5 25.5 27.6 26.6 27.5	384.0 399.9 419.7 438.9 457.1 480.1 501.2	226.9 236.0 246.9 256.8 267.1 274.6 285.9	152.6 159.4 168.6 178.5 186.6 204.9 214.9	742.8 768.4 794.2 843.9 888.7 923.6 947.2	396.7 400.7 403.4 429.9 457.9 465.7 467.1	356.1 377.5 400.5 424.2 442.1 468.6 490.0	278.9 291.6 307.1 320.9 335.6 348.3 364.6
1970 1971 1972 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	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 29.5 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	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	555.0 576.7 592.3 605.4 624.6 649.1 661.1 676.8 696.4 712.2
1990 1991 1992 1993 1994 1995 1996 1997 1998	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	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 2001 2002 2003 2004 2005 2006 2007 2008 2008	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 12,703.1	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 9,550.3	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 9,430.8	83.5 77.7 81.2 91.6 97.9 102.0 99.1 90.3 101.7 117.1	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 1,623.0	774.1 793.1 789.9 787.1 821.7 864.4 898.0 914.2 954.8 944.8	601.8 613.4 627.7 631.1 635.9 642.0 657.8 674.2 678.3	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 1,520.1	410.5 412.1 420.2 431.5 435.8 438.7 438.4 441.8 459.0 485.9	939.0 961.3 980.9 986.7 991.0 997.7 1,006.5 1,020.8 1,033.3 1,034.6	977.8 997.8 988.5 969.3 1,008.4 1,054.0 1,098.6 1,132.4 1,183.9 1,184.6
2010 2011 <i>P</i> 2008: I	13,088.0 13,313.4 13,266.8	9,923.9 10,153.1 10.182.9	9,804.7 10,055.7 10,077.1	116.5 99.3 102.5	1,630.6 1,635.2 1,603.9	943.2 934.5 938.1	687.2 699.8 666.1	1,527.9 1,522.6 1.479.6	503.7 508.9 449.6	1,025.0 1,014.6 1,030.1	1,189.5 1,187.3 1,161.3
 	13,310.5 13,186.9 12,883.5	10,189.0 10,049.3 9,732.3	10,087.5 9,952.9 9,619.4	99.4 95.0 110.0	1,634.4 1,636.9 1,639.3	961.0 958.7 961.3	673.9 678.6 678.4	1,486.1 1,498.0 1,505.4	454.5 462.2 469.9	1,031.5 1,035.8 1,035.7	1,188.5 1,189.7 1,196.1
2009: II IV	12,663.2 12,641.3 12,694.5 12,813.5	9,518.9 9,493.9 9,535.7 9,652.6	9,402.3 9,375.7 9,408.3 9,537.0	114.0 115.6 126.2 112.5	1,623.4 1,615.9 1,625.6 1,627.1	947.0 939.4 946.5 946.5	676.6 676.6 679.2 680.7	1,511.5 1,521.2 1,522.9 1,524.9	475.1 485.6 489.7 493.2	1,036.7 1,036.0 1,033.7 1,032.3	1,182.2 1,178.0 1,187.9 1,190.2
2010: 	12,937.7 13,058.5 13,139.6 13,216.1	9,773.3 9,886.9 9,977.9 10,057.5	9,657.6 9,766.6 9,851.7 9,942.8	112.6 117.3 123.2 112.7	1,630.3 1,632.1 1,630.2 1,629.8	947.0 946.1 941.6 938.1	683.3 686.0 688.3 691.2	1,526.7 1,533.1 1,526.7 1,525.1	498.5 507.0 504.3 505.0	1,028.9 1,026.8 1,023.2 1,020.9	1,192.9 1,192.4 1,188.4 1,184.4
2011: 	13,227.9 13,271.8 13,331.6 13,422.4	10,065.9 10,107.9 10,175.1 10,263.4	9,964.0 10,009.6 10,079.2 10,169.8	102.4 99.9 98.2 96.8	1,633.7 1,638.4 1,633.4 1,635.4	940.1 940.0 929.2 928.7	693.1 697.7 702.9 705.4	1,524.6 1,522.5 1,520.9 1,522.3	507.4 508.4 508.7 511.0	1,018.1 1,014.9 1,013.1 1,012.2	1,189.2 1,192.3 1,183.1 1,184.6

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, 1980-2010

[Billions of dollars; except as noted]

						D.:	-4				
						Private i	ndustries				
Year	Gross domestic product	Total private industries	Agricul- ture, forestry, fishing, and	Mining	Con- struc- tion	Total manufac-	Vlanufacturino Durable goods	Non- durable	Utilities	Wholesale trade	Retail trade
			hunting			turing	goods	goods			
						Value added					
1980 1981	2,788.1 3,126.8	2,404.8 2,701.6	62.1 75.6	90.8 121.5	131.5 133.1	558.3 619.6	339.2 376.2	219.2 243.4	61.0 72.0	186.3 206.2	198.3 218.0
1982	3.253.2	2,791.4	71.6	118.5	131.0	606.5	359.2	247.3	83.2	206.6	226 Q
1983 1984	3,534.6 3,930.9	3,041.7 3.393.0	57.2 77.0	102.8 107.2 106.2	139.6 160.7	657.5 731.8	385.5 451.0	272.0 280.7	94.4 105.7	222.4 249.8	255.3 286.8 309.1
1985	4,217.5	3,634.6	76.6	106.2	177.0	751.4	458.6	292.8	105.7 113.0	269.2	309.1
1986 1987	4,460.1 4,736.4	3,840.4 4,077.9	73.7 78.8	70.3 73.1	197.2 210.1	777.4 823.1	468.4 492.5	308.9 330.6	117.5 125.8	279.3 285.6	331.4 345.7
1988	5,100.4	4,395.3	78.1	73.1 74.1	210.1 226.5	823.1 900.2	537.9	330.6 362.2	125.8 125.1	285.6 314.3	366.8
1989	5,482.1	4,729.7	91.6	78.6	238.6	950.2	562.4	387.7	138.2	335.7	390.7
1990 1991	5,800.5 5,992.1	4,994.3 5,133.2	95.7 88.3	88.4 79.5	243.6 228.8	968.9 976.7	558.9 554.2	410.1 422.5	145.5 153.8	347.7 362.6	400.4 407.9 430.0 462.9 500.5 525.0
1992	6,342.3	5,442.0 5,735.9	88.3 99.3	73.6	228.8 233.2 250.4	976.7 1,016.7 1,058.9 1,127.3	554.2 574.5	422.5 442.2 456.0	159.7	380.1 402.5	430.0
1993 1994	6,667.4 7,085.2	5,/35.9 6,119.9	90.6 105.6	74.4 75.9	250.4 277.2	1,058.9	603.0 650.2	456.0 477.1	164.3 171.2	402.5 444.5	462.9 500.5
1995	7.414.7	6.420.0	105.6 91.3	76.7	277.2 294.2	1,180.9	675.4	505.5	175.3	460.2	525.0
1996 1997	7,838.5 8,332.4	6,812.6 7,271.0	114.2 108.4	90.0 94.8	320.9 346.7	1,208.5	705.0 748.9	503.5 528.3	173.4 169.9	492.5 524.9	556.8 589.9
1998	8,793.5	7,694.4	100.3	81.0	383.7	1,180.9 1,208.5 1,277.3 1,326.7	781.2	545.6	165.1	557.3	626.9
1999	9,353.5	8,199.6	92.8	82.0	428.4	1,368.1	802.4	565.6	172.7	579.1	653.4
2000 2001	9,951.5 10,286.2 10,642.3	8,736.1	95.6 98.6	108.9 119.3 109.5	467.3 490.5	1,415.6	839.1 758.8	576.5 585.2 587.8	173.9	617.7	686.2 703.9 731.2
2002	10,642.3	9,010.8 9,289.3	94.4	109.5	494.3	1,343.9 1,355.5	758.8 767.8	587.8	177.6 181.0	613.3 614.9	731.2
2003 2004	11,142.2	9,706.9 10,345.6	115.5 142.7	134.9 159.3	516.1 554.2	1,374.3 1,482.7	766.4 822.0	607.9 660.6	192.0 208.0	638.1	769.5 795.1
2005	11,853.3 12,623.0	11.037.1	127.1	192.3	612.5	1.569.3	878.3	691.0	205.9	684.2 725.5	837.6 875.8
2006 2007	1 133//2	11,709.4	122.5 144.5	229.8	651.0 653.8	1,648.4 1,698.0	921.3 939.9	727.1 758.1	236.0 248.6	769.7 816.7	875.8
2008	14,028.7 14,291.5 13,939.0	12,268.8 12,437.1 12,018.1	159.4	254.5 319.2 213.4	614.2	1,628.5 1,540.2	904.1 800.4	724.4	257.7	824.1	887.9 848.6 837.2
2009			140.0		614.2 541.9			724.4 739.8	258.3	768.5	
2010	14,526.5	12,558.0	157.0	239.5	511.6	1,701.9	914.5	787.4	264.9	797.3	884.9
	Percent							GDP (percent			
1980 1981	100.0 100.0	86.3 86.4	2.2 2.4	3.3 3.9	4.7 4.3	20.0 19.8	12.2 12.0 11.0	7.9 7.8	2.2 2.3 2.6	6.7 6.6	7.1 7.0
1982	100.0	85.8	2.2	3.6	4.0	18.6	11.0	7.6	2.6	6.4	7 ۱
1983 1984	100.0 100.0	86.1 86.3	1.6 2.0	2.9 2.7	3.9 4.1	18.6 18.6	10.9 11.5	7.7 7.1	2.7 2.7 2.7	6.3 6.4	7.2 7.3 7.3
1985	100.0	86.2	1.8	2.5	4.2	17.8	10.9	6.9	2.7	6.4	7.3
1986 1987	100.0	86.1 86.1	1.7 1.7	1.6	4.4 4.4	17.4 17.4	10.5 10.4	6.9 7.0 7.1	2.6 2.7	6.3 6.0	7.4 7.3 7.2 7.1
1988	100.0 100.0	86.2	1.5	1.5 1.5	4.4	17.6	10.5	7.1	2.5	6.2	7.3
1989	100.0	86.3	1.7	1.4	4.4	17.3	10.3	7.1	2.5	6.1	
1990 1991	100.0 100.0	86.1 85.7	1.6 1.5	1.5 1.3	4.2 3.8	16.7 16.3	9.6 9.2	7.1 7.1	2.5 2.6	6.0 6.1	6.9 6.8
1992	100.0	85.8	1.6	1.3 1.2	3.8 3.7	16.0	9.1	7.1 7.0	2.6 2.5 2.5 2.4	6.0	6.8 6.8 6.9 7.1
1993 1994	100.0 100.0	86.0 86.4	1.4 1.5	1.1 1.1	3.8 3.9	15.9 15.9	9.0 9.2	6.8 6.7	2.5	6.0	6.9 7 1
1995	100.0	86.6	1.5 1.2	1.0	4.0	15.9	9.1	6.8	2.4	6.3 6.2	7.1
1996 1997	100.0 100.0	86.9 87.3	1.5 1.3	1.1 1.1	4.1 4.2	15.4 15.3	9.0 9.0	6.4 6.3	2.4 2.2 2.0	6.3 6.3	7.1 7.1
1998	100.0	87.5	1.1	.9	4.4	15.1	8.9	6.2	1.9	6.3	7.1
1999	100.0	87.7	1.0	.9	4.6	14.6	8.6	6.0	1.8	6.2	7.0
2000	100.0 100.0	87.8 87.6	1.0 1.0	1.1 1.2	4.7 4.8	14.2 13.1	8.4 7.4	5.8 5.7 5.5	1.7 1.7	6.2 6.0	6.9 6.8 6.9
ZUUZ	100.0	87.6 87.3	.9	1.0	4.6	12.7	7.2	5.5	1.7	5.8	6.9
2003	100.0 100.0	87.1 87.3	1.0 1.2	1.2 1.3	4.6 4.7	12.3 12.5	6.9 6.9	5.5 5.6	1.7 1.8	5.7 5.8	6.9 6.7
2005	100.0	87.4	1.0	1.5	4.9	12 A	7.0	5.5	1.6	5.7	6.6
2006	100.0	87.5	.9	1.7	4.9	12.3 12.1	6.9	5.4	1.8	5.8	6.5
2007 2008	100.0 100.0	87.5 87.0	1.0 1.1	1.8 2.2	4.7 4.3	11.4	6.7 6.3	5.4 5.1	1.8 1.8	5.8 5.8	6.5 6.3 5.9
2009	100.0	86.2	1.0	1.5	3.9	11.0	5.7	5.3	1.9	5.5	6.0
2010	100.0	86.4	1.1	1.6	3.5	11.7	6.3	5.4	1.8	5.5	6.1

Note: Data shown in Tables B-12 and B-13 are consistent with the 2011 flexible annual revision of the industry accounts released in December 2011. For details see Survey of Current Business, December 2011.

See next page for continuation of table.

Consists of agriculture, forestry, fishing, and hunting; mining; construction; and manufacturing.
 Consists of utilities; wholesale trade; retail trade; transportation and warehousing; information; finance, insurance, real estate, rental, and leasing; professional and business services; educational services, health care, and social assistance; arts, entertainment, recreation, accommodation, and food services; and other services, except government.

TABLE B-12. Gross domestic product (GDP) by industry, value added, in current dollars and as a percentage of GDP, 1980-2010-Continued

[Billions of dollars; except as noted]

				TO OHOHHOJ	dollars, cacc _i	ot do notodj				
			Private i	ndustries—Co	ontinued					
Year	Transpor- tation and ware- housing	Information	Finance, insurance, real estate, rental, and leasing	Professional and business services	Educational services, health care, and social assistance	Arts, entertain- ment, recreation, accommo- dation, and food services	Other services, except government	Government	Private goods- producing industries ¹	Private services- producing industries ²
					Value	added				
1980	102.6 110.1 106.3 118.0 131.4 137.1 147.0 152.6 161.4 166.3 192.0 206.4 223.7 241.3 261.8 275.6 287.1 301.4 302.6 302.4 319.8 347.0 369.5 349.0 349.0 404.9 404.9	108.3 123.5 135.3 152.5 160.0 176.4 185.6 197.4 222.4 235.6 244.3 260.5 279.6 249.4 311.5 338.6 349.4 36.1 447.8 457.1 499.7 568.5 568.5 558.6 558.6 559.6 655.5	446.8 502.8 544.7 611.6 677.5 739.4 850.3 915.7 981.0 1,049.2 1,109.8 1,192.1 1,259.3 1,321.6 1,405.7 1,490.3 1,610.6 1,696.8 1,834.0 1,997.7 2,154.8 2,222.3 2,316.5 2,400.4 2,595.9	173.1 197.3 213.2 242.4 280.9 316.3 352.4 384.5 470.4 516.5 524.0 566.6 600.9 639.7 687.3 756.5 842.1 927.0 1,116.8 1,170.7 1,188.3 1,280.0 1,347.5 1,460.2 1,567.2	1341 1529 1892 2071 2254 2452 2777 301.5 337.4 376.7 413.4 452.9 476.4 500.2 523.9 545.4 571.4 601.2 678.0 729.2 789.8 847.1 956.1 956.1 1,015.3	83.0 92.9 100.0 111.5 120.8 132.0 144.0 152.3 168.8 184.0 199.6 205.9 219.0 230.9 230.9 230.3 321.1 355.4 411.1 427.8 458.4 549.0	68.5 76.0 78.3 86.8 96.3 105.3 115.3 121.1 133.0 144.8 155.9 166.3 170.7 200.7 200.7 2223.8 245.6 264.2 285.0 288.8 300.8 313.0 331.6	383.3 425.2 461.8 492.9 537.9 582.9 619.7 658.4 705.1 752.4 806.2 858.9 900.3 3311.4 985.3 994.6 1,051.3 1,153.9 1,215.4 1,275	842 8 949 9 927.7 957.1 1,076.7 1,111.6 1,185.6 1,386.5 1,373.2 1,422.8 1,427.8 1,586.1 1,643.1 1,643.1 1,643.1 1,643.1 1,643.1 1,643.1 1,827.2 1,827.	1,562.0 1,751.7 1,863.7 2,084.6 2,316.3 2,523.4 2,721.8 2,882.9 3,116.5 3,370.8 3,597.7 3,760.0 4,019.2 4,261.6 4,533.8 4,776.9 5,443.8 5,802.7 6,228.3 6,648.7 6,958.5 7,235.6 7,235.6 7,235.6 7,566.1 8,006.6 8,535.8 9,517.9
2008 2009	415.0 391.7	636.8 615.4	2,857.0 2,916.6 2,964.5	1,783.2 1,678.1	1,153.9 1,210.4	537.3 517.6	342.7 340.8	1,854.4 1,920.9	2,721.2 2,435.5	9,715.9 9,582.6
2010	402.5	623.5	3,007.2	1,782.8	1,272.3	555.8	356.8	1,968.5	2,610.1	9,948.0
			,	Industry val	ue added as a p	percentage of (GDP (percent)			
1980	3.7 3.3 3.3 3.3 3.3 3.3 3.3 3.0 3.0 3.0 3.0	3.9 4.0 4.2 4.3 4.1 4.1 4.1 4.1 4.1 4.1 4.2 4.2 4.2 4.2 4.3 4.4 4.7 4.7 4.6 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5 4.5	16.0 16.1 16.7 17.3 17.2 17.5 18.0 18.0 17.9 18.1 18.5 18.8 18.9 19.0 19.0 19.3 19.3 20.1 20.9 20.9 20.9 20.9 20.9 20.4 20.4 20.4 21.3	6.2 6.3 6.6 6.9 7.1 7.5 7.9 8.1 8.3 8.6 8.9 9.0 9.0 9.3 10.1 10.5 10.8 11.2 11.3 11.3 11.4 11.6 11.7 12.1 12.1 12.1	4.8 4.9 5.2 5.4 5.3 5.3 5.5 5.9 6.2 6.5 6.9 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1 7.1	3.0 3.1 3.1 3.2 3.2 3.3 3.4 3.4 3.5 3.5 3.5 3.6 3.7 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8	2.5 2.4 2.4 2.5 2.6 2.6 2.6 2.6 2.7 2.7 2.7 2.7 2.7 2.7 2.8 2.8 2.8 2.8 2.8 2.8 2.5 2.5 2.5 2.5 2.5 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7	13.7 13.6 13.9 13.9 13.9 13.9 13.9 13.9 13.9 13.9	30.2 30.4 28.5 27.1 27.4 26.3 25.1 24.8 24.1 22.4 22.2 22.1 21.9 21.0 20.0 20.0 19.3 19.8 19.8 19.8 19.8 19.8 19.8 19.8 19.8	56.0 56.0 57.3 59.0 58.9 59.8 61.0 61.1 61.5 62.0 62.8 63.4 64.4 64.4 64.8 65.3 66.0 67.6 67.7 67.6 67.7 67.8 68.0 68.7
2010	2.8	4.3	20.7	12.3	8.8	3.8	2.5	13.6	18.0	68.5

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, $1980\hbox{--}2010$

Year (1990	Gross domestic product 46.217 47.390 46.470	Total private industries	Agricul- ture, forestry, fishing, and hunting	Mining	Con- struc-		Aanufacturing	ı			
1980 1981 1982 1983	domestic product 46.217 47.390	private industries	ture, forestry, fishing, and	Mining	struc-		/Janufacturing	l			
1981 1982 1983	46.217 47.390 46.470	44.007	•		tion	Total manufac- turing	Durable goods	Non- durable goods	Utilities	Wholesale trade	Retail trade
1981 1982 1983	46.217 47.390 46.470	44.007		Chain-t	ype quantity i	ndexes for va	lue added (20)	05=100)			
1981 1982 1983	47.390 46.470		38,449	115.603	75.146	43.142		61.448	59.058	28 063	34.293
1985 1986 1987 1988	48.570 52.060 54.214 56.092 57.887 60.266 62.420	44.227 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	33.516 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	28.963 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	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 97.021 100.000 102.658 104.622 104.270 100.635	88.667 89.792 91.300 93.464 96.945 100.000 102.980 104.953 103.909 99.343 102.877	81.603 78.861 82.079 90.644 96.510 100.000 100.756 93.149 101.279 112.225	121.027 136.785 138.414 120.511 119.237 100.000 108.435 111.427 107.236 129.626	106.961 104.536 100.882 101.161 101.134 100.000 96.982 91.606 85.547 74.474 72.127	88.584 84.499 86.606 89.347 96.658 100.000 104.159 107.847 101.545 92.000 102.328	84.443 79.298 82.246 85.053 93.004 100.000 106.663 110.655 108.932 92.746	93.958 91.571 92.420 95.052 101.453 100.000 101.069 104.394 93.038 90.535 95.142	108.309 93.854 97.378 100.904 104.815 100.000 100.539 104.004 108.818 96.381	83.510 87.671 88.479 93.901 98.912 100.000 102.995 108.619 107.416 92.866 96.473	89.942 92.731 95.770 97.961 97.982 100.000 102.176 102.473 96.613 94.284 103.764
2010	103.004	102.077	100.774	121.000		hange from ye		33.142	33.304	30.473	100.704
1980	-0.3 2.5 -1.9 4.5 7.2 4.1 3.6 1.9 -3.4 2.5 3.4 4.1 1.1 2.5 3.5 3.1 2.5 3.1 2.5 3.1 2.5 3.1 2.5 3.1 3.2 4.3 4.3 4.3 4.3 4.3 4.3 4.3 4.3 4.3 4.3	-0.6 -2.4 -2.4 -4.4 -4.4 -4.4 -4.3 -3.7 -1.7 -2.3 -4.7 -2.5 -4.3 -1.0 -1.0 -1.0 -1.0	-1.2 25.8 5.4 -28.7 29.4 18.4 -10.7 12.0 5.9 11.19 -13.5 11.5 11.7 -3.4 14.4 10.4 6.5 6.6 8.7 5.8 7 10.8 -3.1	10.4 66 -4.5 -50 -9.9 5.88 -3.6 4.8 11.9 -3.4 -1.1 1.7 -6.8 3.3 7.7 -1.2 13.0 1.2 -1.1 -1.6.1 8.4 8.4 8.4 8.3 8.3 9.9 -1.1 -1.6.1 8.4 8.4 8.4 8.4 8.4 9.5 8.4 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6	-5.6 -8.8 -11.6 -7.2 -2.1 -6 -7.3 -2.8 -6 -7.3 -2.8 -1.1 -2.4 -2.4 -3.3 -3.5 -3.5 -6.6 -1.1 -2.3 -3.5 -6.6 -7.3 -3.3 -3.5 -3.5 -3.5 -3.5 -3.5 -3.5 -3	-5.2 -5.2 -4.8 -7.3 7.9 -5.5 3.2 -1.7 -7.4 -1.3 -1.5 3.3 4.0 6.0 6.4 -4.6 5.0 5.0 6.4 -4.6 5.0 8.2 8.2 8.2 8.2 8.3 8.2 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3	-5.3 -9.8 -9.8 -6.1 -1.9 -1.9 -3.2 -1.1 -1.9 -3.2 -7.7 -7.7 -7.7 -1.2 -6.1 -1.3 -7.7 -1.6 -1.4,9 -1.6 -1.4,9 -1.6	-5.0 -7.9 -3.3 10.0 3 3 -1.3 -7.9 2.8 5.5 -6 -7.7 5.0 3.8 -1.7 2.2 -2.5 -2.5 -1.4 11.1 3.3 -10.9 -2.7 5.1	-6.7 -2 -2.1 5.3 9.0 6.5 4.9 9.0 11.8 11.8 11.8 11.3 5.7 11.3 3.2 -4.5 -2.2 11.2 11.3 3.6 3.6 3.6 3.6 3.6 3.6 4.6 4.6 4.1 4.4 3.3	-0.7 6.1 5.5 4.4 8.1 5.2 10.0 -2.8 5.4 4.8 -1.4 4.1 9.1 3.0 6.4 -2 10.9 15.7 5.3 7.0 5.0 9 9 6.1 1.1 3.5 5.2 1.1 3.5 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7	-5.6 -2.9 -1.9 -9.6 5.4 -3.5 10.0 4.4 1.6 -3.5 5.2 4.9 7.5 9.2 4.9 3.1 3.1 3.2 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3

See next page for continuation of table.

Consists of agriculture, forestry, fishing, and hunting; mining; construction; and manufacturing.
 Consists of utilities; wholesale trade; retail trade; transportation and warehousing; information; finance, insurance, real estate, rental, and leasing; professional and business services; ducational 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, 1980--2010--Continued

Private industries Continued Priv							пиписи				
1880	Year	tation and ware-	Information	Finance, insurance, real estate, rental, and	Profes- sional and business	Educational services, health care, and social	entertain- ment, recreation, accommo- dation, and food	services, except	Government	goods- producing	services- producing
1891					Chain-type q	uantity indexes	for value add	ed (2005=100)			
Percent change from year earlier Percent change	1981 1982 1983 1984 1985 1986 1987 1988 1999 1991 1991 1992 1993 1994 1995 1996 1997 1997 1998 2000 2001 2001 2002 2003 2004 2005	40,790 38,832 43,831 45,938 46,619 46,696 48,899 50,432 52,397 55,147 57,646 64,042 69,180 71,236 75,138 79,006 78,063 86,201 83,090 81,948 86,133 93,911 100,000 104,049	32 049 31,956 34,198 34,821 34,823 37,356 41,288 42,649 47,837 50,285 52,034 56,402 62,107 70,528 67,832 72,885 80,958 82,501 101,530	48,938 49,933 50,583 50,583 50,585 51,582 54,648 56,560 60,088 61,497 64,388 66,2488 67,851 74,419 76,667 78,1,866 87,064 92,351 92,155 93,533 94,519 100,000 104,033 105,125	35.50 35.428 37.922 42.010 48.917 51.538 54.138 57.635 60.141 58.046 59.787 61.282 63.418 65.656 70.179 75.051 79.327 88.938 89.638 92.248 95.440 100.000 103.229 106.140	57.004 57.034 59.229 60.919 62.423 63.597 67.638 68.238 70.886 73.463 75.163 77.7453 77.7453 78.052 79.293 80.204 81.559 82.657 84.776 86.688 88.827 92.487 95.480 98.336 103.268	46 189 47 380 51 042 53 218 55 483 59 483 59 082 62 454 64 701 66 671 64 814 67 092 80 225 82 504 87 572 91 104 89 691 91 313 93 634 97 751 100 000 102 563	73.651 70.878 74.147 78.074 80.627 82.446 83.685 91.973 93.791 91.234 93.331 96.554 101.126 103.940 102.674 108.957 99.304 110.957 99.304 100.428 100.428 100.000 101.704	75.162 75.297 75.976 76.794 78.818 80.650 82.216 84.340 86.397 88.513 89.513 89.513 89.719 90.120 91.101 92.224 93.395 95.142 95.941 97.802 98.749 99.445 100.000 100.437 101.209	52.361 48.901 50.241 55.880 58.708 58.664 62.184 65.702 66.909 67.163 68.816 73.841 75.400 78.077 82.210 85.786 94.368 91.430 92.368 94.040 99.161 100.000 102.528	42.951 42.869 45.236 47.804 49.789 51.881 53.341 55.673 58.155 59.704 60.060 62.511 64.309 68.769 68.566 71.717 75.282 79.023 83.304 87.019 89.318 90.987 93.288 96.307 100.000 103.112
Percent change from year earlier 1980	2009	93.455	107.166	105.553	102.660	110.915	92.642	92.399	103.940	91.739	101.586
1980	2010	96.695	110.34/	105.311					104.525	96.834	104.683
1982	1000	0.0	0.4	F.0					4.7	0.0	
<u>2010</u>	1981 1982 1983 1984 1985 1986 1986 1987 1987 1987 1990 1991 1992 1994 1995 1996 1997 1998 1999 2000 2002 2004 2005 2006 2007 2008 2007 2008 2009 2008 2009 2008 2009 2008 2009 2008 2009 2008 2009 2008 2009 2009 2008 2009 2008 2009 20	-48 129 249 229 352 446 633 555 511 -1.2 3.5 640 6.5 4.0 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5	5.55 -3.37.0 -9.288 5.5 6.888.33 7.00 5.55 5.33 5.11 13.66.3 -3.88 7.55 11.11 12.3 7.9 12.3 7.7 7.7	1.4 9.4 3.7 2.5 3.5 3.6 2.5 2.3 3.1 2.4 2.6 6.6 6.6 6.6 1.0 7 1.1	2.5 -7.0 10.8 8.5 8.5 8.5 9.6 9.6 9.6 9.6 9.6 9.7 4.4 1.7 2.8 8.5 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6 9.6	1.9 -3.8 2.9 2.9 2.9 3.9 3.0 3.0 4 4 1.6 1.1 1.7 1.7 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3	35 266 43 49 45 57 465 465 465 465 465 465 465 465 465 465	-3.0 -3.8 4.3 3.3 2.3 1.7 4.9 4.6 2.2 -2.9 -1.2 5.8 1.5 -10	.4 2.9 1.1 2.6 2.3 1.9 2.6 2.4 2.4 2.4 2.4 1.1 1.1 1.1 1.1 1.9 1.0 7.7 6.4 8.8 9.9	-66 277 11.2 5.1 11.2 5.1 1.6 0.0 5.7 7 1.8 -7 7.2 2.3 3.3 2.5 5.3 4.3 4.8 5.0 -3.1 1.0 1.8 8.2 5.5 6.6 -5.1 -6.4	-2 5.57 4.2 4.2 2.8 4.4 4.5 2.7 4.6 5.0 5.0 5.4 4.5 2.6 2.8 3.8 3.1 2.3 3.2 3.2 3.3 3.1

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, 1963-2011

					mars, qua		t value add						Addenda	
	Gross							Net operat	ing surplus	3				
Year or quarter	value added of non- financial corpo- rate	Con- sump- tion of fixed capital	Total	Com- pensa- tion of	Taxes on produc- tion and imports	Total	Net interest and miscel-	Busi- ness current	tory val	e profits w uation and option adjus	capital	Profits before tax	Inven- tory valua- tion	Capital con- sumption adjust-
	busi- ness ¹	сарпа		employ- ees	less sub- sidies		laneous pay- ments	transfer pay- ments	Total	Taxes on corpo- rate income	Profits after tax ²		adjust- ment	ment
1963 1964 1965 1966 1967	329.9 356.1 391.2 429.0 451.2 497.8	25.6 27.0 29.1 31.9 35.2 38.7	304.3 329.0 362.1 397.1 416.0 459.1	210.1 225.7 245.4 272.9 291.1 321.9	31.7 33.9 36.0 37.0 39.3 45.5	62.5 69.5 80.7 87.2 85.6 91.7	4.7 5.2 5.8 7.0 8.4 9.7	1.7 2.0 2.2 2.7 2.8 3.1	56.1 62.4 72.7 77.5 74.4 78.9	22.8 23.9 27.1 29.5 27.8 33.5	33.4 38.5 45.5 48.0 46.5 45.4	49.7 55.9 66.1 71.4 67.6 74.0	0.1 5 -1.2 -2.1 -1.6 -3.7	6.4 7.0 7.8 8.1 8.3 8.6
1969	540.5	42.9	497.5	357.1	50.2	90.3	12.7	3.2	74.4	33.3	41.0	71.2	-5.9	9.1
1970 1971 1972 1973 1974 1975 1976	558.3 603.0 669.4 750.8 809.8 876.7 989.7 1,119.4	47.5 52.0 56.5 63.1 74.2 88.6 97.8 110.1	510.8 551.1 613.0 687.6 735.7 788.0 892.0 1,009.2	376.5 399.4 443.9 502.2 552.2 575.5 651.4 735.3 845.1	54.2 59.5 63.7 70.1 74.4 80.2 86.7 94.6	80.1 92.1 105.4 115.4 109.1 132.4 153.9 179.3	16.6 17.6 18.6 21.8 27.5 28.4 26.0 28.5	3.3 3.7 4.0 4.7 4.1 5.0 7.0 9.0	60.2 70.8 82.8 88.9 77.5 98.9 121.0 141.9	27.3 30.0 33.8 40.4 42.8 41.9 53.5 60.6	32.9 40.8 49.0 48.5 34.6 57.0 67.5 81.3 89.2	58.5 67.4 79.5 99.5 110.2 110.7 138.2 159.5	-6.6 -4.6 -6.6 -19.6 -38.2 -10.5 -14.1 -15.7	8.3 8.0 9.9 9.0 5.5 -1.2 -3.2 -1.9 -3.2
1978 1979	1,272.7 1,414.4	125.1 144.3	1,147.5 1,270.2	958.4	102.7 108.8	199.7 203.0	33.4 41.8	9.5 9.5	156.8 151.8	67.6 70.6	89.2 81.2	183.7 197.2	-23.7 -40.1	-5.3
1980 1981 1982 1983 1984 1985 1986	1,534.5 1,742.2 1,802.6 1,929.1 2,161.4 2,293.9 2,383.2 2,551.0	166.7 192.4 212.8 219.3 228.8 244.0 258.0 270.0	1,367.8 1,549.8 1,589.8 1,709.8 1,932.6 2,049.9 2,125.2 2,280.9	1,047.2 1,157.6 1,200.4 1,263.1 1,400.0 1,496.1 1,575.4 1,678.4	121.5 146.7 152.9 168.0 185.0 196.6 204.6 216.8	199.1 245.5 236.5 278.7 347.5 357.2 345.2 385.6	54.2 67.2 77.4 77.0 86.0 91.5 98.5 95.9	10.2 11.4 8.8 10.5 11.7 16.1 27.3 29.9	134.7 166.8 150.2 191.2 249.8 249.6 219.5 259.9 304.3	68.2 66.0 48.8 61.7 75.9 71.1 76.2 94.2	66.5 100.8 101.5 129.5 173.9 178.6 143.2 165.7	184.1 185.0 140.0 163.4 197.6 173.5 149.7 213.5	-42.1 -24.6 -7.5 -7.4 -4.0 .0 7.1 -16.2	-7.2 6.5 17.8 35.2 56.2 76.2 62.7 62.6
1988 1989	2,765.4 2,899.2	287.3 303.9	2,4/8.1 2,595.3	1,804.7 1,905.7	233.8 248.2	439.6 441.5	107.9 133.9	27.4 24.0	283.5	104.0 101.2	200.3 182.3	264.1 243.1	-22.2 -16.3	62.3 56.7
1990 1991 1992 1993 1994 1995 1996 1997	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	321.0 336.1 344.1 359.0 380.1 408.3 435.1 466.9 499.9	2,714.2 2,768.0 2,897.0 3,039.3 3,297.5 3,479.7 3,684.4 3,945.6 4,168.5	2,005.5 2,044.8 2,152.9 2,244.0 2,382.1 2,511.5 2,631.3 2,814.6 3,049.7	263.5 285.7 302.5 318.0 347.8 354.2 365.6 381.0 393.1	445.2 437.5 441.6 477.3 567.5 614.0 687.5 750.0 725.7	143.1 139.6 114.2 99.8 98.8 112.7 112.1 124.7 146.8	25.4 26.6 31.3 30.1 35.3 30.7 38.0 39.2 35.2	276.7 271.3 296.1 347.5 433.5 470.6 537.4 586.2 543.7	98.5 88.6 94.4 108.0 132.4 140.3 152.9 161.4 158.7	178.3 182.7 201.7 239.5 301.1 330.3 384.5 424.8 385.1	243.3 226.8 258.6 308.7 391.9 431.2 471.3 506.8 460.5	-12.9 4.9 -2.8 -4.0 -12.4 -18.3 3.1 14.1 15.7	46.3 39.6 40.3 42.9 54.0 57.6 63.0 65.3 67.5
1999 2000 2001 2002 2003	4,955.5 5,279.4 5,252.5 5,307.7 5,503.7	539.3 590.1 632.0 654.5 669.0	4,416.3 4,689.4 4,620.5 4,653.1 4,834.7	3,256.5 3,541.8 3,559.4 3,544.2 3,651.3	414.6 439.4 434.5 461.9 484.2	745.1 708.2 626.7 647.1 699.2	164.5 192.8 197.7 163.7 147.9	47.1 47.9 58.9 56.3 65.2	533.5 467.5 370.1 427.2 486.1	171.4 170.2 111.2 97.1 132.9	362.1 297.3 258.8 330.1 353.2	468.6 432.5 315.1 342.3 425.9	-4.0 -16.8 8.0 -2.6 -11.3	68.9 51.8 47.0 87.5 71.5
2004	5,877.5 6,302.8 6,740.3 6,946.0 6,991.4 6,592.0	695.6 743.0 800.9 840.1 864.3 862.2	5,181.9 5,559.8 5,939.4 6,106.0 6,127.1	3,651.3 3,786.7 3,976.3 4,182.3 4,361.0 4,441.2 4,178.2	517.7 558.4 593.3 607.7 615.2 587.4	877.5 1,025.1 1,163.7 1,137.4 1,070.8 964.2	134.4 148.2 164.0 232.3 257.7 243.7	65.5 79.3 75.8 69.1 58.1 78.3	677.5 797.6 923.9 835.9 755.0 642.1	187.0 271.9 307.6 293.8 227.4 175.0	490.6 525.8 616.2 542.2 527.7 467.1	662.1 957.1 1,117.9 1,042.0 831.2 693.5	-34.3 -30.7 -38.0 -47.2 -44.5	49.7 -128.8 -156.0 -158.8 -31.7 -52.0
2010 2011 P	6,902.0	856.8 890.1	5,729.8 6,045.2	4,176.2 4,263.0 4,440.7	614.3 639.8	1,167.8	130.9	85.4 87.1	951.5	229.3	722.3	942.8	.6 -39.1	47.8 126.3
2008: I II IV	6,955.8 6,964.7 7,094.8 6,950.5	852.2 858.8 869.6 876.6	6,103.6 6,105.9 6,225.2 6,073.8	4,456.3 4,450.2 4,445.9 4,412.3	613.4 620.5 619.9 606.9	1,033.9 1,035.2 1,159.4 1,054.6	251.5 248.7 254.5 275.9	57.9 54.6 54.1 65.7	724.5 731.8 850.9 713.0	248.0 252.8 255.3 153.5	476.5 479.1 595.5 559.5	884.8 916.5 957.1 566.2	-131.3 -155.4 -72.7 181.6	-29.1 -29.3 -33.5 -34.8
2009: 	6,650.3 6,534.6 6,533.4 6,649.7	874.2 864.5 856.4 853.8	5,776.1 5,670.1 5,677.0 5,796.0	4,210.8 4,178.9 4,156.0 4,167.0	584.5 586.5 581.6 597.1	980.7 904.7 939.4 1,031.8	286.2 255.2 228.3 205.2	74.6 83.4 75.8 79.4	619.9 566.1 635.2 747.2	164.6 156.7 169.8 209.0	455.4 409.4 465.4 538.2	607.9 604.2 701.9 859.9	76.5 15.9 –20.7 –69.3	-64.4 -54.0 -46.0 -43.4
2010: V	6,811.1 6,876.6 6,953.9 6,966.5	850.3 853.9 857.7 865.4	5,960.7 6,022.6 6,096.2 6,101.1	4,188.9 4,247.5 4,299.8 4,315.9	607.3 612.3 617.1 620.7	1,164.5 1,162.8 1,179.4 1,164.6	166.7 135.5 114.9 106.5	84.5 84.8 86.7 85.5	913.3 942.5 977.8 972.6	233.4 232.0 239.4 212.4	680.0 710.5 738.3 760.2	976.6 984.3 961.5 848.9	-28.4 -5.6 -32.0 -90.3	-34.9 -36.2 48.3 214.1
2011: V P	7,078.3 7,216.5 7,269.9	873.4 885.4 896.3 905.5	6,205.0 6,331.1 6,373.6	4,386.5 4,426.3 4,450.5 4,499.7	633.2 641.2 640.9 644.0	1,185.3 1,263.6 1,282.1	106.6 103.0 104.5	86.3 87.5 86.7 87.9	992.3 1,073.1 1,091.0	238.5 252.2 250.1	753.8 821.0 840.9	974.8 1,006.3 1,013.4	-116.0 -60.4 -45.5	133.6 127.2 123.1 121.4

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, 1963-2011

[Quarterly data at seasonally adjusted annual rates]

	Gross valu	e added of		Price per u	nit of real gro	oss value add	led of nonfina	ancial corpora	ate business	(dollars) 1, 2	
Year or quarter	nonfinancia business of dol	al corporate (billions		Com- pensation of		Unit nonl	abor cost		Corporate valuation a	e profits with and capital co adjustments	inventory onsumption 4
	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
1963 1964 1965 1966 1967 1968 1969	329.9 356.1 391.2 429.0 451.2 497.8 540.5	1,277.9 1,368.1 1,481.8 1,588.1 1,630.9 1,736.7 1,806.9	0.258 .260 .264 .270 .277 .287 .299	0.164 .165 .166 .172 .178 .185 .198	0.050 .050 .050 .049 .053 .056	0.020 .020 .020 .020 .022 .022 .024	0.026 .026 .026 .025 .026 .028	0.004 .004 .004 .004 .005 .006	0.044 .046 .049 .049 .046 .045	0.018 .017 .018 .019 .017 .019	0.026 .028 .031 .030 .029 .026
1970 1971 1972 1973 1974 1975 1976 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 .363	.067 .071 .071 .075 .085 .098 .098 .101 .106	.026 .028 .028 .030 .035 .043 .044 .046 .049	.032 .034 .034 .035 .037 .041 .042 .043 .044	.009 .009 .009 .010 .013 .014 .012 .012 .013	.034 .038 .041 .042 .037 .048 .054 .059 .061	.015 .016 .017 .019 .020 .020 .024 .025 .026	.018 .022 .024 .023 .016 .028 .030 .034 .035
1980 1981 1982 1983 1984 1985 1986 1986 1987 1988	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 .080	.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 .085	.026 .024 .018 .022 .025 .023 .024 .028 .029	.025 .037 .038 .047 .057 .044 .049 .056
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 .026 .028	.075 .073 .078 .089 .104 .108 .117 .120 .105	.027 .024 .025 .028 .032 .032 .033 .033	.048 .049 .053 .061 .072 .076 .084 .087 .075
2000	5,279.4 5,252.5 5,307.7 5,503.7 5,877.5 6,302.8 6,740.3 6,991.4 6,592.0	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 6,036.5	.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 .293	.103 .112 .115 .115 .114 .118 .122 .127 .133 .143	.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	6,902.0 6,955.8 6,964.7 7,094.8 6,950.5	6,329.5 6,557.3 6,538.7 6,585.9 6,381.8	1.090 1.061 1.065 1.077 1.089	.674 .680 .681 .675 .691	.267 .270 .272 .273 .285	.135 .130 .131 .132 .137	.111 .102 .103 .102 .105	.021 .038 .038 .039 .043	.150 .110 .112 .129 .112	.036 .038 .039 .039 .024	.114 .073 .073 .090 .088
2009: 	6,650.3 6,534.6 6,533.4 6,649.7	6,035.2 5,966.1 6,006.1 6,138.4	1.102 1.095 1.088 1.083	.698 .700 .692 .679	.301 .300 .290 .282	.145 .145 .143 .139	.109 .112 .109 .110	.047 .043 .038 .033	.103 .095 .106 .122	.027 .026 .028 .034	.075 .069 .077 .088
2010: I	6,811.1 6,876.6 6,953.9 6,966.5	6,288.7 6,329.3 6,361.5 6,338.4 6.407.9	1.083 1.086 1.093 1.099	.666 .671 .676 .681	.272 .266 .264 .265	.135 .135 .135 .137	.110 .110 .111 .111	.027 .021 .018 .017	.145 .149 .154 .153	.037 .037 .038 .034	.108 .112 .116 .120
2011: 	7,078.3 7,216.5 7,269.9	6,407.9 6,504.1 6,491.6	1.105 1.110 1.120	.685 .681 .686	.265 .264 .266	.136 .138	.112 .112 .112	.017 .016 .016	.165 .168	.037 .039 .039	.118 .126 .130

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, 1963-2011

				Go	ods					Services			Adden-
			Dur	able		Nondurable			1	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
1963	382.7 411.5 443.8 480.9 507.8 558.0 605.1 648.3 701.6 770.2 852.0 932.9 1,033.8 1,151.3 1,277.8 1,293.5 2,288.6 2,501.1 2,717.6 2,896.7 3,350.1 3,350.1 3,350.1 3,350.1 4,236.9 4,750.8 4,937.5 5,570.6 5,918.5 5,570.6 6,342.8 6,830.4 7,148.8 7,439.2 7,804.1 8,277.6 8,803.5 9,301.0 9,772.3 10,035.5 9,301.0 9,772.3	198.2 212.3 229.7 249.6 259.0 284.6 304.7 318.8 342.1 373.8 416.6 451.5 491.3 546.3 600.4 451.5 491.3 1,937.9 799.8 869.4 899.3 973.8 1,063.7 1,137.6 1,125.6 1,256.3 1,246.3 1,247.4 1,563.3 1,497.4 1,563.3 1,497.4 1,563.3 1,497.4 1,563.3 1,497.4 1,563.3 1,497.4 1,563.3 1,210.0 2,290.0 2,459.1 2,534.0 2,610.0 2,728.0 2,610.0 2,728.0 2,610.0 2,728.0 2,610.0 2,728.0 2,728.0 2,728.0 2,610.0 2,728.0	54.2 59.6 66.4 71.7 74.0 84.8 90.5 90.0 102.4 116.6 192.0 213.3 226.3 226.3 2243.9 253.0 295.0 342.2 380.4 475.1 494.3 497.1 551.5 607.2 6	24.2 25.8 29.9 29.6 35.4 37.4 34.5 49.4 55.6 68.2 79.8 89.2 90.2 84.4 93.0 100.0 122.9 147.2 207.8 207	143.9 152.7 163.3 177.9 185.0 199.8 214.2 228.8 239.7 257.4 286.1 321.4 450.2 571.6 678.8 721.5 757.2 571.2 814.3 862.3 1,055.2 1,020.3 1,055.2 1,139.4 1,179.8 1,189.7 1,189.7 1,189.3 1,189.	65.9 69.5 74.4 80.6 82.6 88.8 895.4 103.5 126.6 167.3 179.8 196.1 218.4 239.2 255.3 365.4 322.1 363.4 324.8 365.4 403.5 674.2 674.8 674.2 771.2 776.6 674.2 7716.2 746.4 746.0	16.9 17.7 19.1 20.7 21.9 23.2 25.0 26.3 27.6 24.3 43.8 48.0 53.0 57.8 61.5 80.4 101.9 113.4 106.5 110.5 110.5 110.5 110.5 110.5 110.5 126.9 129.2 121.1 125.0 126.2 133.4 144.7 147.7 147.7 147.7 147.6 209.6 149.	184.6 199.2 214.1 231.3 248.8 273.4 300.4 329.5 359.5 359.5 359.4 481.4 542.5 604.9 677.4 853.2 956.0 1.070.1 1.1,76.2 1.314.8 1.437.4 1.580.0 2.070.1 2.170.7 2.344.2 2.482.6 2.673.6 2.841.2 3.004.3 3.171.7 2.344.2 2.482.6 2.673.6 2.841.2 3.004.3 3.171.7 2.374.2 2.300.3 3.563.9 3.563.9 3.563.9 3.568.9 3.568.9 3.568.9 6.76.3 6.408.3 6.653.8 6.658.7	178.6 192.5 206.9 223.5 240.4 264.0 290.4 347.2 382.8 420.7 465.0 524.4 584.9 655.6 739.6 825.4 1,133.9 1,136.1 1,271.9 1,389.8 1,782.1 1,946.0 2,099.0 2,264.5 2,398.4 2,581.3 2,746.6 3,398.4 2,581.3 2,746.6 4,624.2 4,864.8 5,169.1 5,515.1 5,836.3 3,677.5 3,907.4 4,205.9 4,428.6 4,624.2 4,864.8 5,169.1 5,515.1 5,836.3 6,154.4 6,6369.3 6,154.4 6,6369.3 6,154.4 6,6369.3	68.2 72.1 76.6 81.2 86.3 92.7 101.0 131.2 143.5 158.6 176.5 194.7 217.8 244.3 273.4 311.8 352.0 387.0 421.2 458.3 500.7 571.2 458.3 614.5 961.2 1,065.2 1,125.0 1,198.6 1,287.7 1,334.8 1,393.4 1,382.0 1,188.6 1,287.7 1,188.6 1,287.7 1,188.6 1,287.7 1,188.6 1,287.7 1,188.6 1,287.7 1,188.6 1,287.7 1,188.6 1,287.7 1,188.6 1,287.7 1,188.6 1,287.7 1,188.6 1,287.7 1,188.6 1,287.7 1,188.6 1,287.7 1,188.6 1,287.7 1,188.6 1,287.7 1,188.6 1,287.7 1,188.6 1,287.7 1,188.6 1,287.7 1,188.6 1,287.7 1,287.	21.0 24.2 26.0 28.7 31.9 36.6 42.1 47.7 53.7 59.8 67.2 76.1 101.8 115.7 131.2 148.8 171.7 201.9 225.2 253.1 276.5 302.2 360.0 451.2 505.8 612.8 648.8	15.9 17.7 19.4 21.3 22.8 28.5 31.1 38.3 41.5 45.9 56.0 87.6 95.6 102.0 116.3 145.9 156.6 180.5 196.7 207.1 219.4 235.7 257.2 282.0 311.8 349.0 364.7 393.6 514.2 560.5 576.2 602.5 576.2 602.5 679.3 807.0 678.8	290.0 313.8 339.3 368.1 391.1 432.9 470.8 503.3 550.1 607.9 670.9 722.4 800.6 898.3 1,002.5 1,127.8 1,248.4 1,358.3 1,507.1 1,827.2 2,016.9 1,824.2 2,016.9 2,16.9 1,824.2 2,16.9 1,827.2
2010 2011 ^p 2008:	10,245.5 10,722.6 10,018.5	3,387.0 3,645.2 3,422.3	1,085.5 1,161.9 1,163.0	340.1 378.3 378.9	2,301.5 2,483.3 2,259.4	766.4 809.0 732.5	354.1 427.4 418.3	6,858.5 7,077.4 6,596.2	6,578.3 6,791.9 6,325.0	1,893.2 1,921.2 1,802.0	1,667.4 1,728.8 1,513.0	780.2 804.6 817.0	8,901.3 9,263.2 8,649.7
II III IV	10,126.5 10,135.8 9,861.3	3,466.9 3,456.1 3,181.4	1,146.6 1,106.6 1,019.3	354.1 332.6 291.5	2,320.3 2,349.4 2,162.2	749.2 757.1 746.7	444.0 466.9 312.6	6,659.6 6,679.7 6,679.9	6,377.8 6,389.2 6,385.1	1,825.2 1,838.6 1,858.4	1,526.5 1,539.0 1,552.0	819.7 807.7 783.6	8,707.0 8,688.2 8,574.9
2009: 	9,781.7 9,781.6 9,911.1 9,990.0	3,130.7 3,143.6 3,245.6 3,270.0	1,020.1 1,009.5 1,050.1 1,038.8	303.0 303.5 339.2 320.5	2,110.6 2,134.1 2,195.5 2,231.1	741.3 743.8 746.4 752.6	261.4 275.5 321.5 339.3	6,651.0 6,638.0 6,665.5 6,720.1	6,366.9 6,361.3 6,386.7 6,438.7	1,867.2 1,866.7 1,872.1 1,880.3	1,571.8 1,596.2 1,615.4 1,633.5	753.8 744.3 741.9 751.2	8,556.7 8,550.9 8,632.2 8,681.3
2010: I II IV	10,103.7 10,184.8 10,276.6 10,417.1	3,338.1 3,340.1 3,386.5 3,483.4	1,058.0 1,071.7 1,087.5 1,124.7	323.1 330.6 339.6 367.1	2,280.1 2,268.3 2,299.0 2,358.7	761.5 759.4 766.4 778.2	359.5 337.0 345.9 374.1	6,765.6 6,844.7 6,890.1 6,933.7	6,484.0 6,562.3 6,610.9 6,656.0	1,883.6 1,887.1 1,900.8 1,901.1	1,632.9 1,659.1 1,677.1 1,700.4	770.5 788.6 779.2 782.7	8,763.5 8,868.2 8,934.2 9,039.3
2011: V ^p	10,571.7 10,676.0 10,784.5 10,858.1	3,592.2 3,622.7 3,661.2 3,704.5	1,154.5 1,143.8 1,158.3 1,190.9	383.0 363.4 368.7 397.9	2,437.8 2,478.9 2,503.0 2,513.6	792.0 806.7 815.8 821.5	420.2 431.5 434.5 423.5	6,979.4 7,053.3 7,123.2 7,153.6	6,700.0 6,771.6 6,834.4 6,861.5	1,901.7 1,913.3 1,937.7 1,932.0	1,708.1 1,729.5 1,734.4 1,743.2	795.7 803.1 811.9 807.6	9,141.4 9,215.2 9,299.8 9,396.5

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, 1995-2011

[Billions of chained (2005) dollars; quarterly data at seasonally adjusted annual rates]

				Go	ods					Services			Adden-
	Danasaal		Dura	able		Nondurable			ŀ	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	sump- tion expendi- tures exclud- ing food and energy ²
1995 1996 1997 1998	6,076.2 6,288.3 6,520.4 6,862.3 7,237.6	1,896.0 1,980.9 2,075.3 2,215.5 2,392.0	510.5 548.6 593.3 665.6 752.0	255.6 268.0 286.1 316.0 345.1	1,437.7 1,479.2 1,522.7 1,580.2 1,660.7	548.4 553.9 558.8 565.5 587.3	264.3 268.5 273.9 283.7 292.4	4,208.5 4,331.7 4,465.3 4,662.1 4,853.1	4,068.9 4,183.6 4,327.6 4,511.0 4,690.8	1,234.8 1,261.6 1,290.3 1,329.7 1,371.7	947.6 967.2 997.2 1,029.6 1,045.7	489.9 508.2 525.7 559.1 606.2	5,123.9 5,319.4 5,540.7 5,860.1 6,199.5
2000	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 9,037.5	2,518.2 2,597.3 2,702.9 2,827.2 2,953.3 3,076.7 3,178.9 3,273.5 3,192.9 3,098.0	818.0 862.4 927.9 989.1 1,060.9 1,123.4 1,174.2 1,232.4 1,171.8 1,108.3	356.1 374.3 394.0 404.8 410.4 408.2 394.4 401.4 346.8 322.5	1,714.5 1,745.4 1,780.1 1,840.7 1,892.8 1,953.4 2,005.0 2,042.9 2,019.1 1,983.4	600.5 607.5 608.9 616.5 623.9 644.5 663.0 673.2 666.0 657.3	287.1 289.2 294.0 301.9 305.9 303.8 296.9 294.4 280.6 281.1	5,093.6 5,219.1 5,318.5 5,418.2 5,562.7 5,726.8 5,875.6 5,990.2 6,017.0 5,935.5	4,918.2 5,029.3 5,109.8 5,199.4 5,345.1 5,515.1 5,640.6 5,745.2 5,745.6 5,660.5	1,413.6 1,451.4 1,461.9 1,480.2 1,512.8 1,582.6 1,616.8 1,626.6 1,637.8 1,654.9	1,081.6 1,135.6 1,202.4 1,228.3 1,267.4 1,308.9 1,333.0 1,364.0 1,396.5 1,423.1	666.0 661.3 658.9 659.2 675.5 698.4 716.4 739.8 732.3 676.1	6,545.5 6,742.5 6,938.6 7,145.2 7,401.8 7,665.3 7,911.5 8,110.4 8,087.2 7,917.2
2010 2011 ^p 2008: I II IV	9,220.9 9,421.1 9,289.1 9,285.8 9,196.0 9,076.0	3,230.7 3,351.9 3,249.0 3,252.7 3,187.9 3,082.0	1,188.3 1,284.5 1,218.7 1,209.8 1,170.8 1,088.0	330.1 356.5 381.9 360.7 340.8 303.8	2,041.3 2,077.0 2,032.1 2,043.5 2,015.4 1,985.3	673.1 683.6 672.9 674.5 666.5 650.2	281.3 269.4 286.3 282.7 273.4 280.0	5,991.8 6,075.4 6,039.7 6,032.9 6,006.5 5,988.8	5,714.0 5,798.1 5,775.9 5,765.1 5,734.4 5,707.1	1,669.2 1,670.7 1,637.3 1,637.0 1,630.9 1.646.1	1,442.9 1,471.9 1,385.7 1,395.7 1,401.9 1,402.5	667.8 678.0 746.3 738.3 732.2 712.5	8,076.8 8,286.3 8,143.9 8,148.9 8,090.4 7,965.7
2009: I II IV	9,040.9 8,998.5 9,050.3 9,060.2	3,082.6 3,064.3 3,120.7 3,124.6	1,094.6 1,083.4 1,134.5 1,120.8	316.2 312.4 344.5 316.7	1,980.3 1,972.8 1,982.7 1,997.7	647.0 654.8 660.8 666.8	284.9 281.2 279.3 279.1	5,953.5 5,928.6 5,926.8 5,932.9	5,676.3 5,657.0 5,653.5 5,655.2	1,650.0 1,651.3 1,656.6 1,661.5	1,409.1 1,421.6 1,429.1 1,432.8	693.1 679.7 670.6 661.0	7,929.2 7,882.9 7,927.7 7,929.1
2010: I II III IV	9,121.2 9,186.9 9,247.1 9,328.4	3,173.3 3,202.9 3,240.8 3,306.0	1,147.5 1,169.3 1,194.1 1,242.4	315.9 321.4 328.0 354.9	2,021.1 2,030.8 2,045.8 2,067.4	671.6 667.2 672.8 680.8	281.8 282.1 282.7 278.4	5,947.4 5,984.3 6,008.1 6,027.5	5,668.1 5,702.6 5,730.6 5,754.7	1,663.6 1,665.7 1,675.3 1,672.2	1,424.1 1,438.2 1,446.9 1,462.3	667.0 670.8 665.9 667.6	7,981.7 8,051.4 8,096.2 8,178.0
2011: V ^p	9,376.7 9,392.7 9,433.5 9,481.3	3,344.4 3,331.2 3,342.7 3,389.2	1,277.4 1,260.2 1,277.8 1,322.7	368.2 342.1 343.5 372.1	2,075.4 2,076.6 2,073.7 2,082.2	682.1 684.1 683.9 684.1	274.2 268.5 267.5 267.2	6,039.1 6,067.0 6,096.1 6,099.4	5,765.9 5,793.2 5,816.6 5,816.9	1,666.0 1,669.1 1,680.4 1,667.2	1,464.3 1,474.5 1,472.3 1,476.4	674.7 676.9 682.8 677.7	8,238.4 8,258.7 8,292.0 8,356.0

Note: See Table B-2 for data for total personal consumption expenditures for 1963-94.

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, 1963-2011

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

				- Con donard		Nonres							Residentia	1
						Eq	uipment a	nd softwa	re				Struc	tures
	Private	Total			Informa	ntion proce and so		ipment						
Year or quarter	fixed invest- ment	Total non- resi- den- tial	Struc- tures	Total	Total	Computers and peripheral equipment	Soft- ware	Other	Indus- trial equip- ment	Trans- por- tation equip- ment	Other equip- ment	Total resi- den- tial ¹	Total ¹	Single family
1963	88.1 97.2 109.0 117.7 118.7 132.1 147.3	56.0 63.0 74.8 85.4 86.4 93.4 104.7	21.2 23.7 28.3 31.3 31.5 33.6 37.7	34.8 39.2 46.5 54.0 54.9 59.9 67.0	6.5 7.4 8.5 10.7 11.3 11.9	0.7 .9 1.2 1.7 1.9 1.9 2.4	0.4 .5 .7 1.0 1.2 1.3	5.4 5.9 6.7 8.0 8.2 8.7 10.4	10.0 11.4 13.7 16.2 16.9 17.3 19.1	9.4 10.6 13.2 14.5 14.3 17.6 18.9	8.8 9.9 11.0 12.7 12.4 13.0 14.4	32.1 34.3 34.2 32.3 32.4 38.7 42.6	31.5 33.6 33.5 31.6 31.6 37.9 41.6	16.0 17.6 17.8 16.6 16.8 19.5 19.7
1970 1971 1972 1973 1974 1975 1976 1977 1977	150.4 169.9 198.5 228.6 235.4 236.5 274.8 339.0 412.2 474.9	109.0 114.1 128.8 153.3 169.5 173.7 192.4 228.7 280.6 333.9	40.3 42.7 47.2 55.0 61.2 61.4 65.9 74.6 93.6 117.7	68.7 71.5 81.7 98.3 108.2 112.4 126.4 154.1 187.0 216.2	16.6 17.3 19.5 23.1 27.0 28.5 32.7 39.2 48.7 58.5	2.7 2.8 3.5 3.5 3.9 3.6 4.4 5.7 7.6 10.2	2.3 2.4 2.8 3.2 3.9 4.8 5.2 5.5 6.3 8.1	11.6 12.2 13.2 16.3 19.2 20.2 23.1 28.0 34.8 40.2	20.3 19.5 21.4 26.0 30.7 31.3 34.1 39.4 47.7 56.2	16.2 18.4 21.8 26.6 26.3 25.2 30.0 39.3 47.3 53.6	15.6 16.3 19.0 22.6 24.3 27.4 29.6 36.3 43.2 47.9	41.4 55.8 69.7 75.3 66.0 62.7 82.5 110.3 131.6 141.0	40.2 54.5 68.1 73.6 64.1 60.8 80.4 107.9 128.9 137.8	17.5 25.8 32.8 35.2 29.7 29.6 43.9 62.2 72.8 72.3
1980	485.6 542.6 532.1 570.1 670.2 714.4 739.9 757.8 803.1 847.3	362.4 420.0 426.5 417.2 489.6 526.2 519.8 524.1 563.8 607.7	136.2 167.3 177.6 154.3 177.4 194.5 176.5 174.2 182.8 193.7	226.2 252.7 248.9 262.9 312.2 331.7 343.3 349.9 381.0 414.0	68.8 81.5 88.3 100.1 121.5 130.3 136.8 141.2 154.9 172.6	12.5 17.1 18.9 23.9 31.6 33.7 33.4 35.8 38.0 43.1	9.8 11.8 14.0 16.4 20.4 23.8 25.6 29.0 34.2 41.9	46.4 52.5 55.3 59.8 69.6 72.9 77.7 76.4 82.8 87.6	60.7 65.5 62.7 58.9 68.1 72.5 75.4 76.7 84.2 93.3	48.4 50.6 46.8 53.5 64.4 69.0 70.5 68.1 72.9 67.9	48.3 55.2 51.2 50.4 58.1 59.9 60.7 63.9 69.0 80.2	123.2 122.6 105.7 152.9 180.6 188.2 220.1 233.7 239.3 239.5	119.8 118.9 102.0 148.6 175.9 183.1 214.6 227.9 233.2 233.4	52.9 52.0 41.5 72.5 86.4 87.4 104.1 117.2 120.1
1990	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	177.2 182.9 199.9 217.6 235.2 263.0 290.1 330.3 366.1 417.1	38.6 37.7 44.0 47.9 52.4 66.1 72.8 81.4 87.9 97.2	47.6 53.7 57.9 64.3 68.3 74.6 85.5 107.5 126.0 157.3	90.9 91.5 98.1 105.4 114.6 122.3 131.9 141.4 152.2 162.5	92.1 89.3 93.0 102.2 113.6 129.0 136.5 140.4 147.4 149.1	70.0 71.5 74.7 89.4 107.7 116.1 123.2 135.5 147.1	80.2 70.8 72.0 80.2 88.1 94.7 101.0 112.1 125.4 130.4	224.0 205.1 236.3 266.0 302.1 302.9 334.1 349.1 385.9 425.8	218.0 199.4 230.4 259.9 295.9 296.5 327.7 342.8 379.2 418.5	112.9 99.4 122.0 140.1 162.3 153.5 170.8 175.2 199.4 223.8
2000 2001 2002 2003 2004 2005 2006 2007 2008 2009	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 1,707.6	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 1,353.0	318.1 329.7 282.8 281.9 306.7 351.8 433.7 524.9 586.3 449.9	950.5 898.1 842.7 853.8 916.4 995.6 1,071.7 1,112.6 1,070.0 903.0	478.2 452.5 419.8 430.9 455.3 475.3 505.2 536.6 536.4 504.0	103.2 87.6 79.7 77.6 80.2 78.9 84.9 87.0 84.9 75.6	184.5 186.6 183.0 191.3 205.7 218.0 229.8 245.0 257.2 253.2	190.6 178.4 157.0 162.0 169.4 178.4 190.6 204.6 194.3 175.2	162.9 151.9 141.7 142.6 142.0 159.6 178.4 193.0 194.5 156.2	170.8 154.2 141.6 132.9 161.1 181.7 198.2 190.2 146.9 77.8	138.6 139.5 139.6 147.5 157.9 178.9 189.8 192.8 192.2 165.1	449.0 472.4 509.5 577.6 680.6 775.0 761.9 628.7 472.4 354.7	441.2 464.4 501.3 569.1 671.4 765.2 751.6 618.4 462.7 345.9	236.8 249.1 265.9 310.6 377.6 433.5 416.0 305.2 185.8 105.3
2010 2011 <i>P</i> 2008: I II	1,728.2 1,866.4 2,205.2 2,183.7 2,130.5	1,390.1 1,529.2 1,689.3 1,689.0 1,665.9	374.4 407.8 570.9 589.6 594.7	1,015.7 1,121.4 1,118.4 1,099.4 1,071.2	543.8 566.7 550.3 550.2 538.6	93.8 103.6 90.6 90.8 84.1	257.9 272.5 256.0 258.2 259.5	192.1 190.7 203.6 201.2 195.1	168.6 195.9 194.5 196.7 197.5	122.7 156.8 183.6 161.6 138.9	180.5 202.0 190.1 191.0 196.2	338.1 337.2 515.9 494.6 464.6	329.2 328.2 505.9 484.6 454.8	112.6 106.8 221.3 202.1 174.0
2009: I	1,995.5 1,799.6 1,694.3 1,678.3 1,658.3	1,580.9 1,430.6 1,351.9 1,324.3 1,305.1	590.0 527.4 461.4 424.8 386.1	990.9 903.2 890.5 899.5 918.9	506.4 491.9 492.7 507.3 524.2	74.2 71.3 71.6 74.6 84.9	255.2 250.3 252.3 252.6 257.6	177.0 170.3 168.8 180.0 181.7	189.2 162.6 155.2 153.2 153.6	72.2 79.0 78.8 81.2	191.7 176.4 163.6 160.3 159.9	414.6 369.0 342.4 353.9 353.2	405.3 360.1 333.8 345.3 344.5	145.7 112.1 92.9 105.0 111.3
2010: I	1,658.0 1,731.6 1,743.8 1,779.3	1,318.7 1,377.1 1,416.5 1,447.9	361.2 370.2 376.6 389.6	957.5 1,006.9 1,039.9 1,058.3	528.4 539.8 548.0 559.3	86.6 94.1 95.3 99.3	254.8 255.1 258.6 263.2	187.0 190.5 194.0 196.8	154.5 169.1 172.9 178.0	104.4 120.7 132.8 133.1	170.2 177.4 186.3 187.9	339.3 354.5 327.3 331.3	330.5 345.5 318.4 322.5	114.4 118.7 110.7 106.6
2011: I II IV P	1,791.1 1,841.7 1,905.8 1,927.1	1,460.5 1,506.0 1,568.7 1,581.5	379.5 405.2 424.8 421.7	1,081.0 1,100.8 1,143.9 1,159.9	557.9 567.6 567.4 573.9	95.6 103.9 105.1 109.7	265.1 270.4 275.5 279.0	197.3 193.3 186.8 185.2	185.0 186.5 201.2 211.0	145.4 152.0 163.1 166.7	192.7 194.6 212.3 208.2	330.6 335.7 337.0 345.6	321.7 326.7 327.8 336.3	106.9 105.2 106.3 109.0

¹ Includes other items not shown separately.

TABLE B-19. Real private fixed investment by type, 1995-2011

[Billions of chained (2005) dollars; quarterly data at seasonally adjusted annual rates]

						Nonres	idential						Residentia	ıl
						Ec	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 2007 2008	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 1,606.3	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 1,263.2	440.0 433.3 356.6 343.0 346.7 351.8 384.0 438.2 466.4 367.3	889.2 860.6 824.2 850.0 917.3 995.6 1,071.1 1,106.8 1,059.4 889.7	386.2 384.5 373.9 403.7 443.1 475.3 516.3 558.2 569.7 548.3		172.4 173.7 173.4 185.6 204.6 218.0 227.1 240.9 250.8 249.1	162.0 157.0 142.7 155.1 168.1 178.4 192.8 208.4 202.4 186.1	175.8 162.8 151.9 151.6 147.4 159.6 172.9 179.9 172.9	186.2 169.6 154.2 140.4 162.3 181.7 196.5 185.8 142.7 70.7	150.4 149.3 148.2 155.0 164.4 178.9 185.5 184.2 177.8 145.6	580.0 583.3 613.8 664.3 729.5 775.0 718.2 584.2 444.4 345.6	572.6 575.6 605.9 655.9 720.1 765.2 708.1 574.2 434.9 336.9	315.0 315.4 327.7 362.6 406.1 433.5 391.1 284.0 178.4 105.5
2010	1,648.4 1,757.8 2,066.4 2,039.1 1,973.5 1,835.4	1,319.2 1,432.4 1,589.1 1,580.0 1,539.2 1,442.3	309.1 321.8 463.8 474.4 469.9 457.5	1,019.4 1,124.1 1,117.2 1,094.6 1,056.8 969.0	602.6 638.4 583.0 583.3 571.7 540.7		256.1 271.2 251.0 251.4 251.9 248.8	207.3 208.6 211.8 209.8 203.3 184.8	146.6 165.4 176.9 175.6 173.1 165.8	119.3 149.4 180.6 158.2 133.6 98.3	162.6 179.5 180.0 181.1 181.9 168.3	330.8 326.2 481.3 462.8 437.8 395.8	321.5 316.5 471.6 453.0 428.3 386.9	114.7 108.1 209.6 193.2 168.4 142.4
2009: I II IV	1,665.5 1,589.8 1,592.6 1,577.5	1,312.9 1,257.6 1,247.0 1,235.2	415.3 375.4 354.9 323.7	883.7 874.2 888.0 912.9	529.9 535.5 553.7 574.1		244.8 247.8 249.8 253.9	180.0 179.8 190.8 193.7	142.8 136.5 134.5 134.5	65.5 69.8 70.6 76.7	154.4 143.5 142.3 142.3	354.9 334.3 348.2 344.8	346.2 325.9 339.6 336.0	109.8 93.3 106.9 112.2
2010: 	1,582.0 1,654.0 1,663.5 1,693.9	1,253.3 1,308.0 1,343.6 1,371.9	301.5 306.9 310.1 318.0	958.8 1,010.1 1,044.1 1,064.5	581.2 596.1 608.5 624.5		252.0 252.9 257.2 262.4	200.3 204.8 209.9 214.4	135.1 147.3 150.1 153.7	101.8 117.6 129.1 128.9	153.8 160.5 167.1 168.9	330.8 348.2 321.1 323.1	321.7 338.9 311.8 313.6	115.6 121.8 113.1 108.1
2011: 	1,699.0 1,736.7 1,790.4 1,805.0	1,378.9 1,413.2 1,465.6 1,471.9	305.9 321.9 332.9 326.7	1,086.9 1,103.5 1,145.7 1,160.3	625.0 638.4 640.2 650.0		263.7 268.9 274.1 277.9	215.2 211.5 204.3 203.2	158.1 157.7 169.0 177.0	139.6 144.6 155.2 158.1	174.0 173.8 187.9 182.2	321.1 324.4 325.4 333.9	311.5 314.8 315.7 324.1	108.4 106.7 107.6 109.8

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 contributions), and Table 5.3.3 (for quantity indexes).

Includes other items not shown separately.

Table B–20. Government consumption expenditures and gross investment by type, $1963{\text -}2011$

			[BIIIIONS						ted annu and gross		+			
					dovernine	Federal	ption exp		anu yross	nivesunen	ı	State a	nd local	
				National	dofoneo	i cuciai		Nonde	ofoneo			State a		vestment
Year or quarter				Ivational		ostmont		INOTICE	Gross in	ontmont		Con-	U1033 III	vestillellt
iou oi quarto.	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
1963	136.4 143.2 151.4 171.6 192.5 209.3 221.4	76.9 78.4 80.4 92.4 104.6 111.3	61.0 60.2 60.6 71.7 83.4 89.2 89.5	48.3 48.8 50.6 59.9 69.9 77.1 78.1	1.6 1.3 1.1 1.3 1.2 1.2	11.0 10.2 8.9 10.5 12.3 10.9 9.9	15.9 18.2 19.8 20.8 21.2 22.0 23.8	12.4 14.0 15.1 15.9 17.0 18.2 20.2	2.3 2.5 2.8 2.8 2.2 2.1 1.9	1.2 1.6 1.9 2.1 1.9 1.7	59.5 64.8 71.0 79.2 87.9 98.0 108.2	41.9 45.8 50.2 56.1 62.6 70.4 79.8	16.0 17.2 19.0 21.0 23.0 25.2 25.6	1.5 1.8 1.9 2.1 2.3 2.4 2.7
1970 1971 1972 1973 1974 1975 1976 1977 1978 1979	233.7 246.4 263.4 281.7 317.9 357.7 383.0 414.1 453.6 500.7 566.1	113.4 113.6 119.6 122.5 134.5 149.0 159.7 175.4 190.9 210.6	87.6 84.6 86.9 88.1 95.6 103.9 111.1 120.9 130.5 145.2	76.5 77.1 79.5 79.4 84.5 90.9 95.8 104.2 112.7 123.8 143.7	1.3 1.8 1.8 2.1 2.2 2.3 2.1 2.4 2.5 2.5 3.2	9.8 5.7 5.7 6.6 8.9 10.7 13.2 14.4 15.3 18.9 21.1	25.8 29.1 32.7 34.3 39.0 45.1 48.6 54.5 60.4 65.4 75.8	22.1 24.9 28.2 29.4 33.4 38.7 41.4 46.5 50.6 55.1 63.8	2.1 2.5 2.7 3.1 3.4 4.1 4.6 5.0 6.1 6.3 7.1	1.7 1.8 1.8 2.2 2.4 2.7 3.0 3.7 4.0	120.3 132.8 143.8 159.2 183.4 208.7 223.3 238.7 262.7 290.2 322.4	91.5 102.7 113.2 126.0 143.7 165.1 179.5 195.9 213.2 233.3 258.4	25.8 27.0 27.1 29.1 34.7 38.1 36.9 42.8 49.0 55.1	3.0 3.1 3.5 4.1 4.9 5.5 5.7 5.9 6.6 7.8 8.9
1981 1982 1983 1984 1985 1986 1987 1988	627.5 680.4 733.4 796.9 878.9 949.3 999.4 1,038.9 1,100.6	280.2 310.8 342.9 374.3 412.8 438.4 459.5 461.6 481.4	196.2 225.9 250.6 281.5 311.2 330.8 350.0 354.7 362.1	167.3 191.1 208.7 232.8 253.7 267.9 283.6 293.5 299.4	3.2 4.0 4.8 4.9 6.2 6.8 7.7 7.4 6.4	25.7 30.8 37.1 43.8 51.3 56.1 58.8 53.9 56.3	83.9 84.9 92.3 92.7 101.6 107.6 109.6 106.8 119.3	71.0 72.1 77.7 77.1 84.7 90.1 90.1 88.3 99.1	7.7 6.8 6.7 7.0 7.3 8.0 9.0 6.8 6.9	5.3 6.0 7.8 8.7 9.6 9.5 10.4 11.7	347.3 369.7 390.5 422.6 466.1 510.9 539.9 577.3 619.2	282.3 304.9 324.1 347.7 381.8 418.1 441.4 471.0 504.5	55.4 54.2 54.2 60.5 67.6 74.2 78.8 84.8 88.7	9.5 10.6 12.2 14.4 16.8 18.6 19.6 21.5 26.0
1990 1991 1992 1993 1994 1995 1996 1997 1998	1,181.7 1,236.1 1,273.5 1,294.8 1,329.8 1,374.0 1,421.0 1,474.4 1,526.1 1,631.3	507.5 526.6 532.9 525.0 518.6 518.8 527.0 531.0 531.0	373.9 383.1 376.8 363.0 353.8 348.8 354.8 349.8 346.1 361.1	308.0 319.7 315.2 307.5 300.8 297.0 303.2 304.5 300.3 313.0	6.1 4.6 5.2 5.3 5.8 6.7 6.3 6.1 5.8 5.4	59.8 58.8 56.3 50.1 47.2 45.1 45.4 39.2 39.9 42.8	133.6 143.4 156.1 162.0 164.8 170.0 172.2 181.1 184.9 193.8	111.0 118.6 128.9 133.7 139.9 143.2 143.4 153.0 154.3 160.3	8.0 9.2 10.3 11.2 10.2 10.8 11.3 9.9 10.8	14.6 15.7 16.9 17.0 14.7 16.0 17.5 18.2 19.9 22.7	674.2 709.5 740.6 769.8 811.2 855.3 894.0 943.5 995.0 1,076.3	547.0 577.5 606.2 634.2 668.2 701.3 730.2 764.5 808.6 870.6	98.5 103.2 104.2 104.5 108.7 117.3 126.8 139.5 143.6 159.7	28.7 28.9 30.1 31.2 34.3 36.7 36.9 39.4 42.9 46.1
2000	1,731.0 1,846.4 1,983.3 2,112.6 2,232.8 2,369.9 2,518.4 2,674.2 2,878.1 2,917.5	576.1 611.7 680.6 756.5 824.6 876.3 931.7 976.3 1,080.1 1,142.7	371.0 393.0 437.7 497.9 550.8 589.0 624.9 662.3 737.8 774.9	321.8 342.0 380.7 435.2 481.2 514.8 543.9 575.4 633.3 664.1	5.4 5.3 5.8 7.3 7.1 7.5 8.1 10.1 13.7 17.3	43.8 45.6 51.2 55.4 62.4 66.8 72.9 76.9 90.9 93.5	205.0 218.7 242.9 258.5 273.9 287.3 306.8 314.0 342.3 367.8	174.2 188.1 209.8 225.1 240.2 251.0 267.1 273.5 298.5 322.5	8.3 8.1 9.9 10.3 9.1 8.3 9.5 11.1 11.4 12.4	22.6 22.5 23.2 23.1 24.6 28.0 30.2 29.4 32.4 32.9	1,154.9 1,234.7 1,302.7 1,356.1 1,408.2 1,493.6 1,586.7 1,697.9 1,798.0 1,774.8	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 1,425.5	176.0 192.3 205.8 211.8 220.2 230.8 249.9 268.4 285.0 284.5	48.3 48.2 47.5 47.8 48.9 50.8 54.5 60.7 63.8 64.8
2010 2011 ^p	3,002.8 3,029.7	1,222.8 1,232.7	819.2 824.8	702.1 717.0	17.3 14.8	99.8 93.0	403.6 407.9	351.9 355.5	16.3 15.4	35.4 37.0	1,780.0 1,797.0	1,443.5 1,475.0	270.8 253.8	65.7 68.3
2008: I	2,812.0 2,869.6 2,929.8 2,901.1	1,042.7 1,066.0 1,100.6 1,111.2	706.0 724.7 758.4 762.1	614.2 620.9 648.5 649.6	10.2 13.1 14.9 16.4	81.6 90.7 95.0 96.2	336.7 341.3 342.1 349.0	294.4 297.8 297.7 303.9	10.5 10.9 11.7 12.5	31.8 32.6 32.8 32.7	1,769.3 1,803.7 1,829.2 1,789.9	1,428.4 1,455.1 1,475.6 1,437.8	277.1 284.3 289.1 289.4	63.8 64.3 64.5 62.7
2009: I	2,875.5 2,916.9 2,935.0 2,942.7	1,137.2 1,157.7 1,170.6	747.7 771.6 789.0 791.4	641.9 659.5 674.6 680.5	16.9 17.0 17.9 17.4	88.9 95.0 96.5 93.5	357.7 365.7 368.6 379.2	313.3 321.7 323.2 331.9	12.1 11.5 12.5 13.6	32.3 32.5 32.9 33.8	1,770.1 1,779.7 1,777.3 1,772.1	1,417.1 1,424.6 1,427.6 1,432.7 1,443.1	289.4 290.7 284.9 273.0	63.6 64.5 64.8 66.4
2010: I	2,967.7 3,004.6 3,018.7 3,020.2	1,195.2 1,224.5 1,237.5 1,234.3	803.5 818.0 831.3 823.9	691.0 701.6 713.1 702.7	16.6 17.2 18.0 17.5	96.0 99.3 100.2 103.7	391.6 406.5 406.2 410.3	342.9 354.4 353.6 356.9	14.2 17.0 16.7 17.1	34.6 35.1 35.8 36.3	1,772.6 1,780.1 1,781.2 1,786.0	1,441.8 1,438.9 1,450.1	263.7 272.8 276.6 270.0	65.8 65.6 65.7 65.8
2011: 	3,014.4 3,038.6 3,047.3 3,018.6	1,219.9 1,237.1 1,248.9 1,225.0	809.0 830.6 844.0 815.6	701.0 723.4 733.2 710.6	15.5 14.4 15.9 13.3	92.6 92.9 94.9 91.6	410.9 406.5 404.9 409.4	358.1 354.1 351.7 357.9	16.4 16.0 15.2 14.0	36.4 36.3 37.9 37.5	1,794.4 1,801.5 1,798.5 1,793.7	1,471.7 1,482.9 1,476.1 1,469.2	256.8 250.6 252.9 254.8	66.0 68.0 69.5 69.6

TABLE B-21. Real government consumption expenditures and gross investment by type, 1995-2011

					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 inv	estment/		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 2001 2002 2003 2004 2005 2006 2007 2008 2009	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 2,539.6	698.1 726.5 779.5 831.1 865.0 876.3 894.9 906.1 971.1 1,029.5	453.5 470.7 505.3 549.2 580.4 589.0 598.4 611.8 657.7 695.6	403.9 418.5 445.8 484.1 509.4 514.8 519.1 528.0 559.6 591.5	6.9 6.5 7.0 8.5 7.8 7.5 8.8 11.5	43.6 46.3 52.7 57.0 63.3 66.8 71.9 75.1 87.0 89.7	244.4 255.5 273.9 281.7 284.6 287.3 296.6 294.2 313.3 333.8	212.4 224.2 239.7 247.1 250.2 251.0 257.5 254.7 271.0 289.7	10.4 9.8 11.8 11.9 9.9 8.3 8.8 9.8 9.6 10.4	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 1,514.2	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 1,228.9	222.2 234.8 244.2 245.5 241.3 230.8 231.4 227.6 227.9 222.2	44.3 45.8 47.2 48.6 50.8 55.2 61.6 64.4 64.8
2010 2011 <i>P</i>	2,556.8 2,502.0	1,075.9 1,054.7	718.3 701.4	609.0 602.2	14.7 12.2	94.9 86.7	357.7 353.3	307.5 303.0	13.7 12.6	36.3 37.9	1,487.0 1,453.4	1,213.0 1,199.0	210.6 190.4	66.2 68.6
2008: I II IV	2,473.9 2,484.5 2,510.7 2,520.5	943.8 955.1 982.0 1,003.5	634.7 643.1 669.7 683.2	547.3 545.6 567.2 578.4	8.7 11.0 12.5 13.7	78.9 87.0 90.5 91.4	309.1 312.1 312.0 320.2	268.0 270.0 269.2 276.7	9.0 9.3 9.8 10.2	32.3 33.0 33.2 33.3	1,530.9 1,530.5 1,530.8 1,520.1	1,240.7 1,236.6 1,237.2 1,233.9	226.8 230.0 229.9 224.8	64.9 65.2 65.0 62.6
2009: 	2,509.6 2,546.0 2,554.2 2,548.5	995.2 1,029.2 1,043.9 1,049.6	669.9 695.7 709.5 707.3	570.7 590.3 601.9 603.0	14.0 14.3 15.2 14.8	85.3 91.4 92.7 89.5	325.3 333.4 334.3 342.2	282.3 290.5 289.8 296.1	9.9 9.6 10.5 11.5	33.1 33.3 33.9 34.5	1,517.2 1,520.7 1,514.9 1,503.9	1,232.6 1,231.7 1,227.1 1,224.3	222.8 226.1 224.4 215.4	63.4 64.3 64.9 66.7
2010: I II IV	2,540.6 2,564.0 2,570.3 2,552.1	1,056.9 1,079.4 1,087.8 1,079.6	708.2 718.6 728.6 717.7	602.7 609.8 618.1 605.3	14.1 14.7 15.4 14.8	91.6 94.4 95.5 98.3	348.7 360.8 359.2 361.9	301.2 310.3 308.3 310.3	12.0 14.4 14.1 14.3	35.3 35.9 36.6 37.2	1,489.2 1,490.8 1,488.9 1,478.9	1,219.1 1,214.8 1,210.8 1,207.4	207.0 212.8 214.6 208.1	66.1 65.9 66.1 66.5
2011: V P	2,513.9 2,508.2 2,507.6 2,478.5	1,053.3 1,058.3 1,063.7 1,043.7	694.0 705.9 714.6 691.1	594.0 607.1 613.1 594.7	13.0 12.0 13.2 10.9	86.9 86.6 88.0 85.3	359.4 352.4 349.0 352.6	308.4 302.1 298.3 303.3	13.6 13.2 12.4 11.3	37.3 37.2 38.7 38.4	1,466.4 1,456.1 1,450.4 1,440.7	1,207.4 1,203.2 1,197.2 1,188.4	196.3 189.3 188.6 187.6	66.5 68.3 69.6 69.8

Note: See Table B-2 for data for total government consumption expenditures and gross investment for 1963-94.

TABLE B-22. Private inventories and domestic final sales by industry, 1963-2011

[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- tion ²	Manufac- turing	Wholesale trade	Retail trade	Other industries ²	Non- farm ²	of domestic busi- ness ³	domestic	Non- farm
Fourth quarter:	149.9	44.4		55.1	19.5	23.9	7.1	105.5	37.9	3.95	2.78
1964 1965 1966 1967 1968	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	235.7 253.7 283.6 351.5 405.6 408.5 439.6 482.0 570.9	52.4 59.3 73.7 102.2 87.6 89.5 85.3 90.6 119.3		95.5 96.6 102.1 121.5 162.6 162.2 178.7 193.2 219.8	36.4 39.4 43.1 51.7 66.9 66.5 74.1 84.0 99.0	38.5 44.7 49.8 58.4 63.9 64.4 73.0 80.9 94.1	12.9 13.7 14.8 17.7 24.7 25.9 28.5 33.3 38.8	183.3 194.4 209.9 249.4 318.1 319.0 354.2 391.4 451.7	61.9 67.5 75.7 83.7 89.8 101.1 111.2 124.0 143.6	3.81 3.76 3.74 4.20 4.52 4.04 3.95 3.89 3.98	2.96 2.88 2.77 2.98 3.54 3.16 3.19 3.16 3.15
1979 1980 1981 1982 1983 1984 1985 1986 1986 1987	667.6 739.0 779.1 773.9 796.9 869.0 875.9 858.0 924.2 999.7	134.9 140.3 127.4 131.3 131.7 131.4 125.8 113.0 119.9 130.7		261.8 293.4 313.1 304.6 308.9 344.5 333.3 320.6 339.6 372.4	119.5 139.4 148.8 147.9 153.4 169.1 175.9 182.0 195.8 213.9	104.7 111.7 123.2 123.2 137.6 157.0 171.4 176.2 199.1 213.2	46.6 54.1 66.6 66.8 65.2 66.9 69.5 69.9 69.5	532.6 598.7 651.7 642.6 665.1 737.6 750.2 745.1 804.4 869.1	159.4 174.1 186.7 194.8 215.7 233.6 249.5 264.2 277.7 304.1	4.19 4.24 4.17 3.97 3.69 3.72 3.51 3.25 3.33 3.29	3.34 3.49 3.30 3.08 3.16 3.01 2.82 2.90 2.86
1989	1,044.3 1,082.0 1,057.2 1,082.6 1,116.0 1,194.5 1,257.2	129.6 133.1 123.2 133.1 132.3 134.5 131.1		390.5 404.5 384.1 377.6 380.1 404.3 424.5	222.8 236.8 239.2 248.3 258.6 281.5 303.7	231.4 236.6 240.2 249.4 268.6 293.6 312.2	70.1 71.0 70.5 74.3 76.5 80.6 85.6	914.7 948.9 934.0 949.5 983.7 1,060.0 1,126.1	322.8 335.9 345.7 370.9 391.4 413.9 436.0	3.23 3.22 3.06 2.92 2.85 2.89 2.88	2.83 2.82 2.70 2.56 2.51 2.56 2.58
NAICS: 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	132.1 126.2 135.9 151.0 157.2 165.2 165.1 188.3	42.3 45.3 46.5 54.7 64.1 81.7 90.7 95.6	476.5 440.9 443.7 447.6 487.2 531.5 575.7 635.6	357.7 335.8 343.2 352.6 388.9 422.8 456.4 497.2	400.8 386.0 408.0 425.5 460.9 473.7 491.6 511.8	114.6 113.0 111.8 114.3 123.2 129.8 137.7 148.9	1,391.8 1,321.1 1,353.2 1,394.7 1,524.3 1,639.4 1,752.0 1,889.2	588.3 603.0 608.5 646.2 683.4 727.5 769.6 807.0	2.59 2.40 2.45 2.39 2.46 2.48 2.49 2.57	2.37 2.19 2.22 2.16 2.23 2.25 2.28 2.34
2008: I II IV	2,146.8 2,232.2 2,203.2 2,024.3	197.8 213.5 206.7 185.4	101.3 111.1 111.3 94.0	670.4 703.0 681.8 604.5	515.8 539.6 537.1 496.9	508.9 509.9 508.3 488.9	152.6 155.1 158.0 154.6	1,949.0 2,018.7 1,996.5 1,838.9	803.4 810.3 804.8 782.5	2.67 2.75 2.74 2.59	2.43 2.49 2.48 2.35
2009: I II IV	1,949.4 1,901.6 1,863.4 1,883.6	181.2 176.1 171.1 173.0	88.9 85.6 84.7 83.5	585.3 577.0 572.1 582.1	472.7 457.5 441.2 449.0	471.5 458.0 447.4 448.1	149.8 147.5 146.9 147.8	1,768.2 1,725.5 1,692.3 1,710.6	775.8 769.8 772.8 772.9	2.51 2.47 2.41 2.44	2.28 2.24 2.19 2.21
2010: I II IV	1,926.4 1,938.9 2,001.3 2,084.5	183.5 183.4 195.1 214.8	84.2 83.0 82.2 82.3	595.4 595.2 608.6 640.9	457.6 462.7 489.4 515.8	455.9 464.9 475.6 477.3	149.8 149.7 150.3 153.6	1,742.9 1,755.5 1,806.2 1,869.7	777.0 787.0 794.1 812.0	2.48 2.46 2.52 2.57	2.24 2.23 2.27 2.30
2011: 	2,189.6 2,211.6 2,225.8 2,246.4	237.7 230.0 234.8 233.0	85.3 88.0 89.0 90.9	680.5 690.7 689.5 701.4	541.6 557.8 566.0 573.4	485.8 484.7 486.3 485.6	158.6 160.4 160.1 162.1	1,951.9 1,981.6 1,991.0 2,013.4	816.5 825.4 840.3 845.8	2.68 2.68 2.65 2.66	2.39 2.40 2.37 2.38

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, 1963-2011

[Billions of chained (2005) dollars, except as noted; seasonally adjusted]

		į	one or onam	Private in	ventories ¹	t do Hotod,		aajaotoaj	Final	Ratio of	f private tories
Quarter	Total ²	Farm	Mining, utilities, and	Manufac- turing	Wholesale trade	Retail trade	Other indus-	Non- farm ²	sales of domestic busi-	to final	sales of business
			construc- tion ²	turing	tidue	traue	tries ²	Idilli	ness 3	Total	Non- farm
Fourth quarter: 1963 1964 1965 1966 1967 1968	540.6 557.9 590.8 637.9 671.8 702.6 732.9	139.0 135.1 137.7 136.3 138.8 142.9 142.9		187.8 198.2 212.2 240.6 259.6 271.5 284.1	77.5 82.2 87.8 99.5 107.7 111.5 119.7	77.0 81.1 89.3 96.6 96.6 104.8 112.1	42.1 44.7 46.6 47.9 53.5 55.1 57.9	385.5 407.3 437.8 487.9 519.5 545.9 576.8	166.1 176.1 191.3 195.4 200.3 211.2 215.5	3.25 3.17 3.09 3.26 3.35 3.33 3.40	2.32 2.31 2.29 2.50 2.59 2.58 2.68
1970 1971 1972 1973 1974 1975 1976 1977 1978	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	112.2 127.4 137.3 148.4 146.2 138.8 149.5 158.1 168.7 168.6	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 1981 1982 1983 1984 1985 1986 1987 1988	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	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	155.2 155.3 152.2 152.4 160.3 160.4 156.7 155.9	54.3 65.1 61.0 68.2 69.6 73.4 90.3 90.3	531.9 505.7 500.5 492.0 498.0 519.0 536.0 551.4	390.4 376.8 376.7 376.3 396.8 415.0 428.3 432.8	411.1 400.5 424.2 441.5 465.2 469.8 480.6 484.8	119.3 119.1 118.0 119.6 126.0 128.3 132.9 137.2	1,505.9 1,464.4 1,480.0 1,497.2 1,555.6 1,605.4 1,668.6 1,697.3	638.0 644.2 644.8 676.3 696.6 718.7 744.4 766.1	2.60 2.51 2.53 2.44 2.46 2.46 2.45 2.42	2.36 2.27 2.30 2.21 2.23 2.23 2.24 2.22
2008: V	1,849.8 1,846.2 1,836.7 1,816.6	154.1 155.0 156.3 156.9	88.5 87.2 86.6 81.8	558.0 552.9 544.5 537.3	434.0 440.5 442.5 441.7	476.5 471.8 467.8 458.3	137.4 137.2 137.4 138.8	1,696.1 1,691.6 1,680.5 1,659.7	760.7 764.3 753.1 730.4	2.43 2.42 2.44 2.49	2.23 2.21 2.23 2.27
2009: I II III IV	1,776.3 1,730.5 1,685.8 1,671.7	156.9 156.7 155.5 155.4	81.7 81.2 79.5 74.8	528.1 517.6 507.1 505.9	425.0 407.1 389.3 387.0	444.8 429.9 417.6 412.5	137.6 135.9 134.8 134.0	1,619.1 1,573.4 1,529.9 1,515.9	719.0 716.0 718.9 717.7	2.47 2.42 2.35 2.33	2.25 2.20 2.13 2.11
2010: V	1,681.7 1,697.8 1,720.9 1,730.5	156.5 156.7 155.3 154.0	72.3 72.5 71.0 70.6	509.0 510.2 516.2 526.1	390.5 397.2 409.8 413.9	417.0 425.1 432.2 428.8	134.2 134.1 134.4 134.7	1,524.8 1,540.8 1,565.5 1,576.6	719.6 726.1 730.1 742.9	2.34 2.34 2.36 2.33	2.12 2.12 2.14 2.12
2011: 	1,742.8 1,752.6 1,752.1 1,766.1	152.1 149.9 148.4 147.2	70.3 70.9 70.7 72.9	534.5 540.5 543.3 551.9	419.5 429.2 430.9 437.1	428.6 423.5 420.3 417.9	135.7 136.0 135.9 136.6	1,591.6 1,604.3 1,605.7 1,621.6	744.1 747.8 755.4 760.3	2.34 2.34 2.32 2.32	2.14 2.15 2.13 2.13

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 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, 1963-2011

	Curre	ent receip	ts from re					Sonany a		ayments		the world			
		Exp	orts of go nd service	ods	ln-			orts of go nd service		ln-		Current t transfer prest of the			Balance
Year or quarter	Total	Total	Goods ¹	Serv- ices ¹	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
1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1974 1975 1977 1978 1979 1980 1981 1982 1983 1989 1990 1991 1992 1993 1999 1999 1999 2000 2001 2001 2005 2006	37.6 42.3 45.0 45.0 45.0 45.0 45.0 45.0 45.0 45.0	31.1 35.0 37.1 40.9 43.5 47.9 43.5 59.7 70.8 95.3 126.7 138.7 139.4 149.5 159.4 149.5 159.4 230.1 280.8 305.2 283.2 2277.0 305.2 283.2 2277.0 305.2 283.2 277.0 305.2 283.2 283.2 277.0 305.2 283.2 283.2 277.0 305.2 283.2 28	23.3 26.7 27.8 30.7 32.2 35.3 38.3 44.5 45.6 51.8 73.9 101.0 117.8 123.7 145.4 184.0 225.8 239.1 215.0 207.3 325.8 369.4 396.6 423.6 423.6 423.6 423.6 423.6 227.2 227.2 227.5 325.8 369.4 396.6 423.6	7.7 8.3 3.9 4.4 10.2 11.3 11.3 11.3 11.3 11.3 11.3 11.3 11	6.55 7.2 2 7.9 8.1 8.7 7.2 1 11.8 8.7 1 11.8 8.7 1 11.8 8.7 1 11.8 8.7 1 12.8 14.0 16.3 23.5 16.3 23.5 16.3 16.3 16.3 16.3 16.3 16.3 16.3 16.3	32.7 34.8 38.9 45.2 48.7 56.2 1.1 68.8 29.6 62.1 1.1 60.7 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1	26.1 28.1 31.5 37.1 39.9 46.5 50.5 55.8 62.3 74.2 127.7 122.7 122.7 122.7 122.7 233.8 303.2 252.7 233.8 303.2 252.7 253.8 303.2 252.7 417.2 253.8 303.2 127.5 554.0 127.5 554.0 127.5 127.5 127.7 127.5 127.7 127.	17.7 19.4 4 22.2 2 22.3 3 36.8 8 40.9 6 46.6 56.9 9.0 6 152.	8.4 4 8.7 7 9.3 10.7 12.2 12.2 12.2 12.2 12.2 12.2 12.2 12	211 233 226 330 333 333 34 457 1050 1150 1150 1150 1150 1150 1150 11	4.5 4.4 4.4 4.7 5.5 5.9 5.9 9.2 7.9 9.2 7.9 9.2 7.9 9.1 8.1 8.1 1.6 6.6 1.2 6.6 1.2 6.6 8.7 9.0 1.9 8.7 9.2 2.3 6.6 8.7 9.2 2.3 9.4 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0.7 .7 .7 .8 .8 .8 .1 .00 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	3.7 3.5 3.5 3.8 4.1 4.6 4.5 6.1 7.4 4.6 6.1 7.5 6.6 8.3 8.3 9.7 7 1.5 1.3 1.4 2.2 2.2 2.2 2.2 1.1 1.1 1.1 1.1 1.1 1.1	0.1	4.9 7.5 6.2 3.8 3.5 1.6 3.7 3 -4.0 8.9 6.0 19.8 7.1 -10.9 -12.6 -1.2 8.5 3.4 -3.3 -35.1 -142.7 -154.1 -90.1 -116.7 -92.4 -74.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7.9 7
2008 2009 2010	2,702.9 2,222.8 2,542.7	1,846.8 1,583.0 1,839.8	1,297.5 1,064.7 1,277.8	549.3 518.4 562.0	856.1 639.8 702.9	3,381.9 2,600.3 3,021.8	2,556.5 1,974.6 2,356.7	2,146.3 1,587.3 1,947.3	410.1 387.3 409.4	686.9 487.5 513.5	138.4 138.2 151.6	66.2 67.4 72.9	37.1 49.8 55.7	35.2 21.0 23.1	-679.0 -377.4 -479.2
2011 ^p 2008: I II IV	2,724.9 2,822.1 2,809.1 2,455.3	2,087.6 1,819.3 1,922.8 1,933.8 1,711.1	1,474.4 1,279.1 1,363.7 1,374.5 1,172.6	540.2 559.1 559.3 538.6	905.6 899.3 875.3 744.2	3,434.2 3,528.8 3,505.0 3,059.5	2,665.8 2,561.6 2,668.9 2,690.6 2,304.8	2,239.5 2,162.3 2,261.9 2,270.0 1,891.3	426.2 399.4 407.0 420.7 413.5	726.9 718.0 676.3 626.4	149.3 145.6 141.9 138.0 128.2	73.8 64.8 67.7 69.8 62.4	54.0 42.8 39.1 35.6 30.8	21.6 38.0 35.0 32.6 35.1	-709.3 -706.6 -695.9 -604.1
2009: 	2,146.7 2,142.0 2,227.2 2,375.5	1,522.2 1,520.8 1,590.3 1,699.0	1,013.5 1,011.3 1,074.8 1,159.1	508.7 509.5 515.5 539.9	624.6 621.2 636.9 676.5	2,529.1 2,479.6 2,617.7 2,774.6	1,905.7 1,859.1 1,997.0 2,136.5	1,521.7 1,478.2 1,608.4 1,740.7	384.0 380.8 388.6 395.8	491.9 480.8 473.2 504.2	131.5 139.7 147.6 133.9	66.2 66.0 67.8 69.6	39.4 53.5 61.6 44.5	26.0 20.2 18.2 19.8	-382.4 -337.7 -390.6 -399.1
2010: I II IV	2,423.5 2,512.9 2,569.5 2,664.7	1,749.5 1,813.8 1,860.6 1,935.3	1,208.7 1,259.7 1,288.9 1,353.8	540.8 554.2 571.6 581.5	674.0 699.0 708.9 729.4	2,905.4 2,995.0 3,057.4 3,129.4	2,245.3 2,345.0 2,400.9 2,435.5	1,844.0 1,939.7 1,982.7 2,022.8	401.3 405.3 418.2 412.7	504.6 502.8 501.6 545.0	155.5 147.2 155.0 148.9	71.9 72.9 74.3 72.5	60.0 51.1 56.0 55.7	23.6 23.2 24.7 20.8	-481.9 -482.2 -487.9 -464.7
2011: V ^p	2,776.2 2,888.5 2,911.5	2,024.1 2,085.3 2,119.2 2,121.6	1,431.0 1,473.5 1,496.6 1,496.4	593.2 611.7 622.6 625.1	752.1 803.2 792.2	3,269.7 3,381.5 3,353.7	2,595.4 2,682.4 2,681.6 2,703.6	2,176.2 2,257.3 2,251.9 2,272.7	419.3 425.1 429.7 431.0	525.0 542.0 524.9	149.3 157.1 147.2 143.7	73.5 73.5 73.8 74.2	54.5 62.0 51.3 48.0	21.4 21.5 22.1 21.4	-493.5 -493.0 -442.2

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, 1995-2011

		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	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 2001 2002 2003 2004 2005 2006 2007 2008	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	843.4 791.2 762.7 776.4 842.6 906.1 991.5 1,088.1 1,157.0 1,018.6	583.7 535.1 504.8 513.7 570.7 624.9 692.0 756.1 795.8 660.2	256.5 255.2 259.1 263.8 272.2 281.2 299.6 331.9 359.8 351.2	343.5 329.3 335.6 339.6 380.0 399.0 430.6 466.3 492.3 474.9	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 1,852.8	1,366.7 1,323.1 1,372.2 1,439.9 1,599.3 1,708.0 1,809.1 1,856.1 1,784.8 1,506.0	813.7 763.4 795.4 829.7 944.6 1,025.4 1,115.6 1,141.2 1,099.3 870.6	549.2 564.2 580.2 615.2 655.8 682.6 694.5 715.7 686.6 626.2	271.7 269.6 274.5 279.8 311.0 319.8 342.4 347.1 359.8 347.2
2010 2011 <i>P</i> 2008: I II	1,663.2 1,776.3 1,643.9 1,693.9 1,678.7	1,164.9 1,252.7 1,154.3 1,193.0 1,185.9	771.6 847.8 794.8 825.1 821.8	387.2 402.4 358.3 367.5 364.0	498.8 524.2 489.6 500.9 492.9	2,085.0 2,188.7 2,194.1 2,180.1 2,143.3	1,729.3 1,829.6 1,836.4 1,825.9 1,783.1	1,065.7 1,164.8 1,145.7 1,142.9 1,107.4	661.9 670.7 695.2 688.9 679.0	357.4 361.2 357.8 354.0 361.1
IV 2009: I II IV	1,580.6 1,451.1 1,449.4 1,497.3 1,578.3	1,094.8 983.4 976.1 1,024.4 1,090.5	741.5 644.0 625.3 661.6 710.0	349.5 333.4 343.3 355.3 372.9	485.8 467.0 472.3 472.5 487.9	2,058.6 1,855.3 1,781.2 1,849.7 1,925.2	1,694.0 1,508.8 1,436.1 1,501.6 1,577.4	1,001.2 848.8 812.8 873.4 947.5	683.4 648.8 612.8 619.1 624.3	366.1 347.0 344.8 348.4 348.8
2010: I II IV	1,606.2 1,645.0 1,684.8 1,716.8	1,122.1 1,153.8 1,178.8 1,204.9	730.5 767.9 786.3 801.8	383.9 380.3 387.1 397.3	484.6 491.8 506.5 512.4	1,983.0 2,082.4 2,143.5 2,131.0	1,631.5 1,728.5 1,779.8 1,777.4	986.7 1,060.2 1,099.4 1,116.6	639.9 665.7 679.0 662.8	352.8 355.6 365.5 355.6
2011: W P	1,749.6 1,765.0 1,785.2 1,805.6	1,235.6 1,243.2 1,258.3 1,273.8	826.3 843.5 861.8 859.6	404.2 397.8 396.8 411.0	514.6 522.4 527.5 532.5	2,173.9 2,181.4 2,187.9 2,211.5	1,818.4 1,825.4 1,827.9 1,846.5	1,155.4 1,151.3 1,169.0 1,183.7	668.1 676.8 666.4 671.3	357.5 357.9 362.2 367.1

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 1963-94. 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, 1963-2011

			Plus:	Less:			sumption of fix				
Year o	r 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 1968		617.8 663.6 719.1 787.7 832.4 909.8 984.4	6.5 7.2 7.9 8.1 8.7 10.1 11.8	2.1 2.3 2.6 3.0 3.3 4.0 5.7	622.2 668.6 724.4 792.8 837.8 915.9 990.5	63.3 66.4 70.7 76.5 82.9 90.4 99.2	45.9 48.3 51.9 56.5 61.6 67.4 74.5	17.5 18.1 18.9 20.0 21.4 23.0 24.7	558.9 602.2 653.7 716.3 754.9 825.5 891.4	-0.8 .8 1.5 6.2 4.5 4.3 2.9	559.7 601.4 652.2 710.1 750.4 821.2 888.5
1971 1972 1973 1974 1975		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	12.8 14.0 16.3 23.5 29.8 28.0 32.4 37.2 46.3 68.3	6.4 6.4 7.7 10.9 14.3 15.0 15.5 16.9 24.7 36.4	1,044.7 1,134.4 1,246.4 1,394.9 1,515.0 1,650.7 1,841.4 2,050.4 2,315.3 2,594.2	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 42.6 45.6 49.5 54.4	936.4 1,016.6 1,119.3 1,254.1 1,351.3 1,460.3 1,633.3 1,818.6 2,053.9 2,295.3	6.9 11.0 8.9 8.0 9.8 16.3 23.5 21.2 26.1 47.0	929.5 1,005.6 1,110.3 1,246.1 1,341.5 1,609.8 1,797.4 2,027.9 2,248.3
1980 1981 1982 1983 1984 1985 1986 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	79.1 92.0 101.0 101.9 121.9 112.4 111.0 122.8 151.6 177.2	44.9 59.1 64.5 64.8 85.6 85.9 93.4 105.2 128.3 151.2	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 5,508.1	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	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 4,856.6	45.3 36.6 4.8 49.7 31.5 42.3 67.7 32.9 -9.5 56.1	2,433.0 2,729.8 2,851.4 3,070.9 3,461.3 3,696.3 4,150.0 4,522.3 4,800.5
1991 1992 1993 1994 1995 1996 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	188.5 168.1 151.8 155.2 184.1 229.3 245.8 279.5 286.2 319.5	154.1 138.2 122.7 124.0 160.0 199.6 214.2 256.1 268.9 291.7	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	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	130.8 138.9 144.5 151.6 158.2 164.8 169.2 174.1 179.0 187.2	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	84.2 79.7 110.0 135.8 108.8 52.5 25.9 -14.0 -85.3 -71.1	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
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 13,939.0	380.5 323.0 313.5 353.3 448.6 573.0 721.1 871.0 856.1 639.8	342.8 271.1 264.4 284.6 357.4 475.9 648.6 747.7 686.9 487.5	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 14,091.2	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 1,866.2	986.8 1,051.6 1,094.0 1,135.9 1,200.8 1,391.4 1,476.2 1,542.9 1,542.4	197.5 204.6 210.9 218.1 231.9 250.6 269.3 291.3 311.2 323.7	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 12,225.0	-134.0 -103.4 -22.1 16.7 -22.3 -95.1 -242.3 -12.0 -2.4 77.4	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 12,147.6
2011 ^p		14,526.5 15,087.7	702.9	513.5	14,715.9	1,874.9 1,950.0	1,540.9 1,597.8	334.0 352.2	12,841.0	.8	12,840.1
II III IV		14,273.9 14,415.5 14,395.1 14,081.7	905.6 899.3 875.3 744.2	726.9 718.0 676.3 626.4	14,452.5 14,596.8 14,594.0 14,199.5	1,817.4 1,842.7 1,869.6 1,886.5	1,515.0 1,534.6 1,555.5 1,566.5	302.4 308.1 314.1 320.0	12,635.1 12,754.0 12,724.4 12,313.0	-58.8 29.1 -8.6 28.5	12,693.9 12,724.9 12,733.1 12,284.4
II III	 /	13,893.7 13,854.1 13,920.5 14,087.4	624.6 621.2 636.9 676.5	491.9 480.8 473.2 504.2	14,026.4 13,994.4 14,084.2 14,259.8	1,885.2 1,868.4 1,854.1 1,857.1	1,562.6 1,545.2 1,530.5 1,531.4	322.6 323.2 323.6 325.6	12,141.2 12,126.1 12,230.1 12,402.7	42.1 90.3 104.1 73.2	12,099.2 12,035.7 12,126.1 12,329.5
2010: I. II	 	14,277.9 14,467.8 14,605.5 14,755.0	674.0 699.0 708.9 729.4	504.6 502.8 501.6 545.0	14,447.4 14,664.0 14,812.8 14,939.4	1,858.6 1,866.9 1,878.2 1,896.1	1,529.6 1,534.4 1,542.6 1,557.0	329.0 332.5 335.5 339.1	12,588.8 12,797.2 12,934.7 13,043.3	-7.2 -6.6 -7.4 24.5	12,595.9 12,803.7 12,942.1 13,018.8
2011: I	l	14,867.8 15,012.8 15,176.1 15,294.3	752.1 803.2 792.2	525.0 542.0 524.9	15,094.9 15,274.0 15,443.4	1,914.3 1,939.9 1,962.8 1,983.0	1,570.5 1,590.5 1,607.6 1,622.5	343.8 349.4 355.2 360.4	13,180.6 13,334.1 13,480.5	-52.0 -10.0 49.6	13,232.6 13,344.1 13,430.9

TABLE B-27. Relation of national income and personal income, 1963-2011

		(5		o, quartorry	Less:	aconany ac	aotoa anna	ui ratooj	Plu	JS:	Equals:
Year or quarter	National income	Corporate profits with inventory valuation and capital consumption adjustments	Taxes on production and imports less subsidies	Contribu- tions for govern- ment 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
1963	559.7 601.4 652.2 710.1 750.4 821.2 888.5	68.3 75.5 86.5 92.5 90.2 97.3 94.5	51.2 54.5 57.7 59.3 64.1 72.2 79.3	21.7 22.4 23.4 31.3 34.9 38.7 44.1	15.2 17.4 19.6 22.4 25.5 27.1 32.7	2.7 3.1 3.6 3.5 3.8 4.3 4.9	1.4 1.3 1.3 1.0 .9 1.2 1.0	0.0 .0 .0 .0 .0	47.9 53.8 59.4 64.1 69.0 75.2 84.1	32.2 33.5 36.2 39.6 48.0 56.1 62.3	479.5 514.3 555.5 603.8 648.1 711.7 778.3
1970 1971 1971 1972 1973 1974 1975 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	32.7 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	.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	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 1981 1982 1983 1984 1985 1986 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	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 .6 .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	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 14.1	.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	594.9 665.9 745.8 790.8 826.4 878.9 924.1 949.2 977.9 1,021.6	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 2001 2002 2003 2004 2005 2006 2007 2007 2008	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 12,147.6	819.2 784.2 872.2 977.8 1,246.9 1,456.1 1,608.3 1,510.6 1,248.4 1,362.0	662.7 669.0 721.4 757.7 817.0 869.3 935.5 972.6 985.7 958.2	705.8 733.2 751.5 778.9 827.3 872.7 921.8 959.5 987.3 964.1	539.3 544.4 506.4 504.1 461.6 543.0 652.2 731.6 870.1 656.7	87.0 101.3 82.4 76.1 81.7 95.9 83.0 103.3 123.0	9.1 4.0 6.3 7.0 1.2 -3.5 -4.2 -11.8 -16.0 -14.9	.0 .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 1,707.7	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 2,138.1	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 11,930.2
2010 2011 <i>P</i> 2008: I	12,840.1 12,693.9 12,724.9 12,733.1	1,800.1 1,360.0 1,333.7 1,328.6	996.7 1,035.2 983.2 995.4 994.2	986.8 920.1 989.8 986.6 988.7	564.3 535.8 843.7 875.1 878.0	136.7 134.4 120.8 117.3 116.1	-15.7 -14.6 -15.2 -15.9 -16.1	.0 .0 .0 .0	1,721.2 1,790.7 2,205.0 2,203.1 2,197.5	2,281.2 2,336.0 1,798.9 1,936.1 1,872.2	12,373.5 12,961.0 12,415.6 12,571.7 12,513.3
IV 2009: I II IV	12,284.4 12,099.2 12,035.7 12,126.1 12,329.5	971.2 1,175.2 1,262.3 1,438.8 1,571.6	970.1 951.7 955.0 952.0 974.2	984.2 966.0 966.9 962.1 961.5	883.7 782.9 656.4 596.6 591.0	137.8 137.0 141.5 122.2 127.5	-16.8 -16.8 -15.3 -14.0 -13.6	-20.0 20.0 .0 .0	2,056.0 1,851.5 1,707.5 1,635.7 1,636.0	1,909.7 2,029.8 2,167.7 2,170.1 2,184.9	12,340.0 11,964.4 11,944.1 11,874.1 11,938.2
2010: V	12,595.9 12,803.7 12,942.1 13,018.8	1,724.2 1,785.8 1,833.1 1,857.4	984.5 993.8 1,002.0 1,006.4	976.0 985.7 991.5 994.1	589.1 569.2 550.1 548.7	134.6 135.7 140.9 135.7	-14.7 -15.5 -16.0 -16.5	.0 .0 .0	1,693.3 1,724.5 1,723.4 1,743.5	2,242.1 2,252.1 2,289.4 2,341.2	12,137.7 12,325.6 12,453.2 12,577.6
2011: V p	13,232.6 13,344.1 13,430.9	1,876.4 1,937.6 1,970.1	1,027.3 1,038.5 1,035.8 1,039.0	911.5 917.4 921.2 930.2	556.6 525.6 535.7 525.1	134.7 133.9 133.7 135.4	-15.6 -14.6 -14.5 -13.9	.0 .0 .0 .0	1,777.2 1,802.3 1,794.2 1,789.1	2,328.1 2,347.3 2,336.6 2,331.9	12,846.9 12,955.3 12,979.6 13,062.2

Table B-28. National income by type of income, 1963-2011

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

		[5]	illions of a				ally adjuste	ed annual r	Proprie	etors' incom		
				Compen	sation of em	iployees				valuation ar option adjus		Rental income
			Wage a	and salary a	ccruals	Sı waç	upplements ges and sala	to ries				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
1963 1964 1965 1966 1966 1969 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1980 1980 1981 1982 1983 1984 1985 1989 1990 1991 1990 1991 1992 1993 1993 1994 1995 1997 1998 1999 1999 1999 1999 2000 2001 2001 2005 2006 2007 2008	559.7 601.4 652.2 710.1 750.4 821.2 888.5 929.5 1.005.6 1.1103.1 1.246.1 1.341.5 1.444.0 2.027.9 2.248.3 2.433.3 2.433.3 2.433.3 2.433.3 2.72.9 2.851.4 4.522.3 4.522.3 4.522.3 4.522.3 6.5217.9 5.517.1 5.784.7 6.931.7 7.406.0 7.875.6 8.358.0 8.358.0 8.358.0 8.358.0 11.273.8 8.940.2 11.273.8 8.940.2 11.238.4 12.396.4 12.609.1 11.273.8 12.396.4 12.609.1	345.2 370.7 399.5 442.7 475.1 524.3 577.6 617.2 890.2 949.1 1.059.3 1.180.5 949.1 1.335.5 1.498.3 1.647.6 2.035.5 2.245.4 2.411.7 2.735.6 2.954.2 3.131.3 3.26.3 3.438.3 3.438.3 3.438.3 3.438.3 3.438.3 3.438.3 3.577.4 2.954.2 3.797.1 2.735.6 3.797.1 3.998.5 4.195.2 4.391.4 4.665.6 5.023.2 5.788.8 5.979.3 6.689.3 4.7065.0 7.477.0 7.855.9 8.068.3 7.485.9 8.068.3	314.9 337.8 363.8 400.3 472.0 518.3 551.6 584.5 638.8 772.3 814.8 899.7 99.7 1,253.3 1.373.4 1.511.4 1.587.5 1.677.5 1.844.9 1.982.6 2.256.3 2.256.3 2.256.3 2.439.8 2.439.8 2.439.8 3.083.3 2.439.8 4.465.2 4.827.7 4.952.6 4.997.3 5.154.6 5.410.7 5.706.0 6.070.1 6.415.5 6.545.5	60.0 64.9 69.9 78.4 86.5 96.7 105.6 117.2 126.8 137.9 148.8 160.5 220.0 237.1 261.5 285.8 307.5 324.8 307.5 324.8 307.5 324.8 307.5 324.8 348.1 373.9 452.0 629.0 629.0 629.0 629.0 671.8 701.7 873.7 779.7 821.9 873.1 933.3 952.8 991.5 1,089.0 1,144.1 1,175.3	254.8 272.9 293.8 321.9 342.5 375.3 412.7 434.3 500.0 611.8 638.6 791.6 900.6 1,016.2 1.12.2 1.12.0 1.225.5 1,280.0 1,016.2 1.12.2 1,12.0 1,225.5 1,280.0 1,016.2 1,12.2 1	30.4 32.9 35.7 42.3 59.3 65.7 74.4 86.4 102.5 118.0 124.9 245.0 274.2 308.3 332.1 358.0 409.5 429.2 455.3 479.4 548.3 585.1 623.9 6714.1 760.8 774.4 792.0 842.3 888.8 961.2 1.282.7 1.359.1 1.1359.1 1.282.7 1.359.1 1.404.4 1.522.5 1.359.1	insurance	insur-	56.5 59.4 63.9 68.2 69.8 69.8 69.8 113.6 113.5 113.5 113.5 113.5 113.2 146.0 167.5 181.1 173.5 181.6 174.8 334.8 351.6 367.3 334.8 351.6 365.1 367.3 3	11.0 9.8 12.0 13.0 11.6 11.7 12.8 12.9 13.4 17.0 29.1 17.2 16.0 19.9 22.2 21.5 22.0 19.0 22.2 20.9 21.0 22.8 33.0 32.2 27.5 35.8 32.0 35.6 28.9 27.5 35.8 32.0 35.6 28.9 28.9 28.5 36.0 37.0 38.6 38.6 38.6 38.6 38.6 38.6 38.6 38.6	45.5 49.6 51.9 55.2 62.5 64.7 65.6 71.3 79.0 84.6 90.0 97.6 115.0 130.1 147.6 159.0 161.8 162.6 161.5 212.1 225.1 239.7 265.3 339.8 339.8 492.6 658.7 718.3 787.8 894.1 1,025.9 1,1035.9 1,0355.	ment 19.3 19.4 19.9 20.5 20.9 20.6 20.9 21.1 22.2 23.1 19.6 28.5 38.1 38.2 24.0 40.0 41.9 31.8 34.2 42.4 49.8 61.6 61.6 61.6 61.6 61.14.1 11.1 11.1 1
2010 2011 P	12,840.1	7,971.4 8,242.4	6,408.2 6,636.3	1,190.8 1,190.3	5,217.4 5,446.0	1,563.1 1,606.1	1,089.9 1,111.0	473.2 495.1	1,036.4 1,107.8	52.2 64.9	984.2 1,042.9	350.2 404.2
2008: I II IV	12,693.9 12,724.9 12,733.1 12,284.4	8,099.0 8,073.4 8,084.7 8,016.1	6,600.5 6,554.9 6,550.6 6,477.4	1,127.6 1,137.9 1,151.0 1,160.0	5,472.9 5,417.1 5,399.6 5,317.4	1,498.5 1,518.5 1,534.1 1,538.7	1,026.7 1,048.8 1,063.5 1,070.5	471.8 469.7 470.6 468.3	1,113.7 1,127.2 1,104.0 1,046.7	60.5 55.3 46.6 44.6	1,053.1 1,071.9 1,057.4 1,002.1	188.9 218.5 243.5 275.6
2009:	12,099.2 12,035.7 12,126.1 12,329.5 12,595.9 12,803.7 12,942.1 13,018.8	7,830.1 7,809.2 7,781.9 7,804.4 7,852.5 7,960.0 8,022.2 8,050.8	6,300.5 6,278.2 6,251.3 6,271.4 6,301.6 6,399.8 6,454.5 6,477.0	1,168.9 1,175.9 1,177.1 1,179.2 1,188.6 1,196.3 1,189.9 1,188.6	5,131.5 5,102.2 5,074.2 5,092.2 5,113.0 5,203.5 5,264.7 5,288.4	1,529.6 1,531.1 1,530.6 1,533.0 1,550.9 1,560.2 1,567.7 1,573.7	1,071.0 1,071.7 1,073.5 1,076.2 1,083.4 1,087.6 1,092.0 1,096.8	458.6 459.4 457.1 456.8 467.5 472.6 475.7 476.9	960.2 926.9 929.3 948.5 981.7 1,025.6 1,057.0 1,081.5	37.1 38.7 39.5 41.4 44.6 45.8 58.3 60.1	923.1 888.2 889.9 907.0 937.1 979.7 998.7 1,021.4	278.8 299.7 319.3 325.9 344.1 349.1 352.8 354.8
2011: 	13,232.6 13,344.1 13,430.9	8,172.5 8,219.7 8,250.0 8,327.4	6,578.2 6,617.1 6,641.9 6,708.0	1,191.1 1,191.9 1,189.3 1,188.9	5,387.1 5,425.2 5,452.6 5,519.1	1,594.4 1,602.7 1,608.1 1,619.4	1,103.0 1,108.7 1,112.6 1,119.7	491.4 494.0 495.5 499.7	1,095.6 1,106.5 1,113.7 1,115.5	66.1 67.3 67.5 58.7	1,029.5 1,039.2 1,046.2 1,056.8	385.0 396.9 406.3 428.6

See next page for continuation of table.

Table B-28. National income by type of income, 1963-2011—Continued

		Corp	orate profi	its with inv	ventory va	luation an	d capital o	onsumptio	on adjustm	nents					
				Profits w	ith invento	ory valuati consumpt	on adjustr	ment and ment			Net	Taxes		Busi-	Current
Voor	or quarter					Profits				Capital con-	interest and miscel-	on produc-	Less: Sub-	ness current transfer	surplus of
Teal	oi quartei	Total	Total	D£4-	Taxes	Pro	ofits after	tax	Inven- tory valua-	sump- tion	laneous pay-	tion and imports	sidies	pay- ments	govern- ment enter-
			Total	Profits before tax	on corpo- rate income	Total	Net divi- dends	Undis- tributed profits	tion adjust- ment	adjust- ment	ments	IIIIports		(net)	prises
1964 1965 1966 1976 1976 1976 1976 1976 1976 1976		68.3 75.5 86.5 99.2 97.3 99.2 99.3 96.1 1.4 115.1 133.3 3 1816.6 3332.5 314.1 333.3 318.6 3332.5 314.1 35.6 318.6 332.5 543.7 76.28 2.7 76.2 99.7 8 81.4 426.6 434.4 457.3 442.6 64.5 437.1 1.6 856.3 11.6 856.3	62.1 68.6 78.9 88.8 82.0 88.8 85.5 74.4 88.3 109.6 135.0 119.4 219.1 1226.6 257.5 232.0 211.4 219.1 139.8 222.4 241.3 256.0 257.5 256.0 256.0 257.5 256.0 256.0 257.5 256.0 25	62.1 69.1 80.2 86.7 83.5 92.4 81.0 92.9 108.2 135.0 147.8 145.5 149.7 210.5 246.1 272.1 253.5 246.1 272.1 253.5 246.1 272.1 253.5 246.1 272.1 253.5 246.1 272.1 253.5 246.1 272.1 27	rate income 26.4 28.2 28.2 31.1 33.9 9.3 36.6 33.3 32.9 39.6 6.5 3.3 74.4 84.9 99.4 49.3 49.6 87.2 21.5 84.3 86.6 14.5 44.3 86.6 14.5 20.3 39.0 23.3 39.0 23.3 39.0 23.3 39.0 39.0 27.4 41.1 1.5 258.8 39.9 4.2 44.3 39.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	70tal 35.7 40.9 49.1 52.8 50.6 52.8 46.2 54.7 65.9 85.0 93.9 114.5 136.1 166.4 159.4 132.1 158.1 136.3 192.7 248.3 244.4 266.3 244.4 266.3 325.7 348.0 405.9 349.5 509.3 556.3 474.5 509.4 509.4 509.4 509.4 509.4 1,183.4 1,349.5 1,349.5 1,349.5 1,349.5 1,149.8				6.2 6.9 7.6 8.0 8.0 8.1 7.8 8.9 9.1 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1	15.2 17.4 19.6 22.4 25.5 27.1 32.7 39.1 43.9 55.2 70.8 81.6 85.5 101.1 115.0 138.9 181.8 232.3 271.1 366.7 385.3 434.1 444.2 418.2 358.3 371.1 447.9 479.3 481.4 479.3 481.4 479.3 481.4 479.3 481.4 504.4 479.3 481.4 504.1 481.6 652.2 731.6 654.3 665.7	53.4 57.3 60.7 63.2 67.9 76.4 83.9 91.4 100.9 117.2 124.9 135.3 146.4 159.7 170.9 180.1 200.3 235.6 240.9 263.3 289.8 308.1 323.4 537.4 537.4 537.5 673.6 639.5 673.6 639.5 673.6 639.5 673.6 639.5 673.6 639.5 673.6 639.5 673.6 639.5 673.6 639.5 673.6 639.5 673.6 639.5 673.6 639.5 673.6 639.5 673.6 639.5 673.6 673.6 639.5 673.6	2.2 2.7 3.0 3.9 8.4 4.8 4.7 4.6 6.5 2.2 3.3 3.5 11.5 5.1 1.5 0	2.7 3.1 3.6 3.5 3.8 4.3 4.9 6.0 7.1 9.4 9.5 10.8 13.3 35.2 20.6 30.3 35.2 36.9 40.7 40.5 41.9 41.9 40.5 41.9 40.5 41.9 41.9 40.5 41.9 41.9 41.9 41.9 41.9 41.9 41.9 41.9	1.4 1.3 1.0 1.2 1.0 1.2 1.0 1.2 1.0 1.2 1.2 1.0 1.2 1.2 1.2 1.0 1.2 1.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3
2008: I	 	1,360.0 1,333.7	1,412.3 1,397.0	1,543.5 1,552.4	355.2 344.1	1,188.3 1,208.3	814.6 835.9 803.4	352.4 404.9	-131.3 -155.4	106.6 -52.3 -63.2	535.8 843.7 875.1	1,098.3 1,035.0 1,047.3	63.1 51.9 51.9	134.4 120.8 117.3	-14.6 -15.2 -15.9
 	V	1,328.6 971.2	1,403.1 1,049.6	1,475.8 868.0	312.5 224.3	1,163.3 643.7	780.5 727.6	382.8 -84.0	-72.7 181.6	-74.5 -78.4	878.0 883.7	1,046.7 1,025.5	52.5 55.4	116.1 137.8	-16.1 -16.8
 	 V	1,175.2 1,262.3 1,438.8 1,571.6	1,285.7 1,359.7 1,525.0 1,654.6	1,209.3 1,343.8 1,545.7 1,723.9	208.8 244.8 301.6 334.4	1,000.4 1,099.0 1,244.2 1,389.5	671.9 600.9 584.1 623.0	328.5 498.1 660.0 766.5	76.5 15.9 –20.7 –69.3	-110.5 -97.4 -86.2 -83.0	782.9 656.4 596.6 591.0	1,008.0 1,011.8 1,020.4 1,031.3	56.4 56.8 68.4 57.1	137.0 141.5 122.2 127.5	-16.8 -15.3 -14.0 -13.6
	 V	1,724.2 1,785.8 1,833.1 1,857.4	1,797.0 1,859.9 1,812.6 1,652.2	1,825.3 1,865.5 1,844.5 1,742.5	409.7 399.6 430.3 404.7	1,415.6 1,465.9 1,414.2 1,337.8	684.8 729.3 760.5 774.8	730.8 736.6 653.7 563.0	-28.4 -5.6 -32.0 -90.3	-72.7 -74.1 20.5 205.2	589.1 569.2 550.1 548.7	1,040.9 1,050.6 1,059.0 1,065.5	56.4 56.8 57.0 59.1	134.6 135.7 140.9 135.7	-14.7 -15.5 -16.0 -16.5
2011: I	 	1,876.4 1,937.6 1,970.1	1,761.1 1,830.2 1,867.4	1,877.1 1,890.6 1,912.9	422.3 420.5 411.4	1,454.8 1,470.1 1,501.5	793.8 807.4 821.4 835.6	660.9 662.7 680.1	-116.0 -60.4 -45.5	115.4 107.3 102.7 100.8	556.6 525.6 535.7 525.1	1,087.4 1,101.1 1,100.0 1,104.6	60.0 62.7 64.2 65.6	134.7 133.9 133.7 135.4	-15.6 -14.6 -14.5 -13.9

Table B-29. Sources of personal income, 1963-2011

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

			С	ompensatio	on of emplo	yees, receiv	red		inventory	etors' incom valuation a option adjus	nd capital	Rental
			Wa di	ige and sal	ary ts		upplements ges and sala					income of persons
Year or quarter	Personal income	Total	Total	Private indus- tries	Govern- ment	Total	Employer contribu- tions for employee pension and insurance funds	Employer contribu- tions for govern- ment social insurance	Total	Farm	Non- farm	with capital con- sump- tion adjust- ment
1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1977 1978 1980 1981 1982 1982 1988 1990 1991 1989 1990 1991 1998 1999 1991 1999 1999	479.5 514.3 555.5 603.8 648.1 711.7 778.3 838.6 903.1 992.6 1.110.2 1.22.7 1.334.9 1.474.7 1.632.5 1.836.7 2.059.5 2.301.5 2.582.3 3.268.9 3.496.7 3.2952.2 3.268.9 3.496.7 3.924.4 4.231.2 4.557.5 5.347.3 5.568.1 5.347.3 5.568.1 5.347.3 5.568.1 7.700.7 7.7525.4 7.910.8 8.8559.4 8.8559.4 8.8559.4 8.8559.4 9.937.2 10.485.9 9.937.2 10.485.9 9.937.2 11.268.1 11.912.3 12.373.5 12.368.1 12.373.5 12.373.	345.2 370.7 399.5 442.7 475.1 524.3 577.6 617.2 658.3 725.1 811.3 890.7 949.0 1,059.2 1,180.4 1,335.2 2,412.0 2,245.2 2,412.0 2,245.2 2,412.0 2,245.2 3,131.3	314.9 337.8 363.8 400.3 472.0 518.3 551.6 584.0 638.8 772.8 814.7 1,72.8 899.6 1,72.8 1,253.5 1,373.3 1,587.5 1,373.3 2,256.3 2,439.8 2,439.8 2,439.8 3,418.0 3,876.6 4,181.6 4,861.0 4,827.7 5,701.0 6,068.9 6,421.7 6,550.9 6,660.5 6,270.3 6,408.2 6,636.3 6,408.2 6,636.3 6,497.4 6,280.5 6,497.4 6,280.5 6,271.3	254.8 272.9 293.8 321.9 342.5 375.3 412.7 457.4 501.2 560.0 611.8 638.6 791.6 901.6 1,016.2 1,112.0 1,225.0 1,225.0 1,285.0 1,	60.0 64.9 68.9 78.4 86.5 96.7 105.6 137.6 137.6 137.6 137.6 137.6 138.8 202.5 219.7 237.3 261.5 285.8 307.5 325.2 347.9 374.1 397.2 423.1 452.0 481.1 519.0 548.8 572.0 589.0 609.5 629.0 648.1 671.2 733.7 779.7 779.7 779.7 779.7 779.7 821.9 873.1 1,190.3 1,190.3 1,190.3 1,190.3 1,190.3 1,190.3 1,190.3 1,160.0 1,160.0 1,160.0	30.4 32.9 35.7 42.3 46.1 52.3 59.3 65.7 74.4 86.4 102.5 118.0 134.3 134.3 134.3 134.3 134.3 245.0 274.2 308.3 332.1 358.0 400.5 429.2 459.4 451.4 548.3 585.1 673.6 714.1 760.8 8771.4 1760.9 842.3 842.3 882.8 961.2 1,027.1 1,113.5 1,128.0 1,	18.0 20.3 20.3 21.7 25.5 28.1 32.4 36.5 26.2 7 73.3 87.6 61.05.2 125.3 143.4 162.4 185.2 204.7 222.4 238.1 261.5 297.5 313.1 297.7 354.6 105.2 205.2 205.2 205.3 205.3 205.3 205.3 205.3 205.4 205.5 2	12.4 12.6 13.1 16.8 18.0 20.0 22.8 23.8 26.4 39.8 44.7 46.7 15.5 82.6 88.9 103.6 61.1 19.9 103.7 206.5 215.1 228.4 239.7 254.1 274.8 289.7 264.1 274.8 275.1 274.8 275.1 276.1	56.5 59.4 63.9 68.2 77.5 78.5 78.5 78.5 84.7 96.0 113.6 113.5 181.1 173.5 181.6 174.8 365.1 367.3 414.9 485.1 516.0 583.7 687.5 746.8 817.5 870.7 890.3 1.030.8 1.133.0 1.090.4 1.107.8 1.113.7 1.127.7 1.127.7 1.127.8	11.0 9.8 12.0 13.0 11.6 11.7 12.8 12.9 13.4 17.0 29.1 16.0 19.9 22.2 11.7 19.0 21.0 22.8 22.0 21.0 22.8 33.0 33.2 27.5 33.0 33.4 33.4 33.5 33.5 49.7 43.9 29.3 39.2 29.3 39.2 40.6 30.5 18.8 30.5 18.8 30.5 18.8 30.5 18.8 30.5 40.7 4	45.5 49.6 51.9 55.2 58.2 62.5 64.7 65.6 71.3 79.0 84.6 90.0 97.6 115.0 130.1 147.6 161.8 161.5 212.1 225.1 225.1 225.1 225.1 225.1 225.1 239.3 339.8 339.8 339.8 339.8 339.8 417.6 449.5 549.2 549.2 658.7 718.8 840.2 871.0 872.0 8	19.3 19.4 19.9 20.5 20.9 20.9 21.1 22.2 23.1 23.9 24.0 20.9 21.1 23.1 23.4 22.6 28.5 36.5 36.5 36.5 36.5 36.5 36.5 36.5 36
2010: I	11,874.1 11,938.2 12,137.7 12,325.6 12,453.2 12,577.6	7,781.9 7,804.4 7,852.5 7,960.0 8,022.2 8,050.8	6,251.3 6,271.4 6,301.6 6,399.8 6,454.5 6,477.0	5,074.2 5,092.2 5,113.0 5,203.5 5,264.7 5,288.4	1,177.1 1,179.2 1,188.6 1,196.3 1,189.9 1,188.6	1,530.6 1,533.0 1,550.9 1,560.2 1,567.7 1,573.7	1,073.5 1,076.2 1,083.4 1,087.6 1,092.0 1,096.8	457.1 456.8 467.5 472.6 475.7 476.9	929.3 948.5 981.7 1,025.6 1,057.0 1,081.5	39.5 41.4 44.6 45.8 58.3 60.1	889.9 907.0 937.1 979.7 998.7 1,021.4	319.3 325.9 344.1 349.1 352.8 354.8
2011: 	12,846.9 12,955.3 12,979.6 13,062.2	8,172.5 8,219.7 8,250.0 8,327.4	6,578.2 6,617.1 6,641.9 6,708.0	5,287.1 5,425.2 5,452.6 5,519.1	1,191.1 1,191.9 1,189.3 1,188.9	1,594.4 1,602.7 1,608.1 1,619.4	1,103.0 1,108.7 1,112.6 1,119.7	491.4 494.0 495.5 499.7	1,095.6 1,106.5 1,113.7 1,115.5	66.1 67.3 67.5 58.7	1,029.5 1,039.2 1,046.2 1,056.8	385.0 396.9 406.3 428.6

See next page for continuation of table.

TABLE B-29. Sources of personal income, 1963-2011—Continued

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

	Person	al income re	eceipts			Perso	onal current	transfer rec	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
1963 1964 1965 1966 1967 1968	47.9 53.8 59.4 64.1 69.0 75.2 84.1	31.7 35.6 39.2 43.4 47.5 51.6 59.9	16.2 18.2 20.2 20.7 21.5 23.5 24.2	32.2 33.5 36.2 39.6 48.0 56.1 62.3	30.3 31.3 33.9 37.5 45.8 53.3 59.0	15.2 16.0 18.1 19.8 21.1 24.6 26.4	1.0 4.7 5.9 6.7	1.9 2.7 4.0 4.6	3.1 2.8 2.4 1.9 2.2 2.2 2.3	7.3 7.9 8.6 8.1 9.4 10.8 12.4	1.9 2.2 2.3 2.1 2.3 2.8 3.3	21.7 22.4 23.4 31.3 34.9 38.7 44.1
1970 1971 1972 1973 1974 1975 1976 1977 1977	93.5 101.0 109.6 124.7 146.4 162.2 178.4 205.3 234.8 274.7	69.2 75.9 82.8 94.8 113.2 129.3 139.5 160.6 184.0 217.3	24.3 25.0 26.8 29.9 33.2 32.9 39.0 44.7 50.7 57.4	74.7 88.1 97.9 112.6 133.3 170.0 184.0 194.2 209.6 235.3	71.7 85.4 94.8 108.6 128.6 163.1 177.3 189.1 203.2 227.1	31.4 36.6 40.9 50.7 57.6 65.9 74.5 83.2 91.4 102.6	7.3 8.0 8.8 10.2 12.7 15.6 18.8 22.1 25.5 29.9	5.5 6.7 8.2 9.6 11.2 13.9 15.5 16.7 18.6 21.1	4.2 6.2 6.0 4.6 7.0 18.1 16.4 13.1 9.4 9.7	16.0 19.4 21.4 23.3 28.4 35.7 38.4 40.6 44.6 49.7	2.9 2.7 3.1 3.9 4.7 6.8 6.7 5.1 6.5 8.2	46.4 51.2 59.2 75.5 85.2 89.3 101.3 113.1 131.3 152.7
1980 1981 1982 1983 1984 1985 1986 1987 1988	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 1991 1992 1993 1994 1995 1996 1997 1998	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	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	107.6 117.5 132.6 146.8 164.4 181.2 194.9 206.9 205.6 208.7	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 2007 2008	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 1,707.7	984.2 976.5 911.9 889.8 860.2 987.0 1,127.5 1,265.1 1,382.0 1,108.9	376.5 369.5 397.7 423.1 548.3 555.0 702.2 791.9 783.4 598.8	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 2,138.1	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 2,099.9	401.4 425.1 446.9 463.5 485.5 512.7 544.1 575.6 605.5 664.5	219.1 242.6 259.2 276.9 304.7 331.9 399.2 427.6 461.6 493.8	199.5 227.3 250.1 264.6 289.7 304.4 299.0 324.1 338.2 374.1	20.7 31.9 53.5 53.2 36.4 31.8 30.4 32.7 50.9 130.6	174.8 187.9 208.8 226.1 248.3 265.6 272.1 286.2 341.1 385.4	42.4 46.8 34.2 25.7 16.9 25.8 21.4 30.5 36.8 38.2	705.8 733.2 751.5 778.9 827.3 872.7 921.8 959.5 987.3 964.1
2010 2011 <i>P</i> 2008:	1,721.2 1,790.7 2,205.0	1,003.4 997.8 1,372.0	717.7 792.9 832.9	2,281.2 2,336.0 1,798.9	2,242.9 2,296.5 1,762.1	690.2 713.5 597.3	518.4 554.3 452.4	405.4 423.5 331.4	138.7 107.2 36.7	432.4 434.7 300.1	38.3 39.5 36.8	986.8 920.1 989.8
 V	2,203.1 2,197.5 2,056.0	1,402.7 1,420.0 1,333.3	800.4 777.5 722.8	1,936.1 1,872.2 1,909.7	1,899.5 1,835.5 1,872.7	602.9 608.9 613.1	457.3 464.1 472.8	338.4 340.9 342.2	37.8 58.0 71.2	418.4 318.2 327.6	36.6 36.7 37.1	986.6 988.7 984.2
2009: I II III IV	1,851.5 1,707.5 1,635.7 1,636.0	1,194.9 1,129.7 1,073.1 1,038.0	656.6 577.8 562.6 598.0	2,029.8 2,167.7 2,170.1 2,184.9	1,992.0 2,129.4 2,131.7 2,146.6	651.8 662.4 667.9 675.7	482.5 491.7 498.4 502.7	362.0 373.3 383.1 378.0	101.1 127.9 144.8 148.7	344.9 423.6 385.4 387.7	37.8 38.2 38.4 38.3	966.0 966.9 962.1 961.5
2010: I II IV	1,693.3 1,724.5 1,723.4 1,743.5	1,026.1 1,014.1 983.9 989.6	667.2 710.4 739.4 753.9	2,242.1 2,252.1 2,289.4 2,341.2	2,204.1 2,214.1 2,251.4 2,301.9	678.6 688.3 693.9 699.9	505.6 511.5 521.4 535.3	386.6 389.8 405.2 439.8	152.8 137.4 135.8 128.7	424.8 429.9 436.1 438.7	38.0 38.0 37.9 39.3	976.0 985.7 991.5 994.1
2011: I II IV P	1,777.2 1,802.3 1,794.2 1,789.1	1,004.7 1,015.9 994.8 975.7	772.5 786.4 799.4 813.4	2,328.1 2,347.3 2,336.6 2,331.9	2,288.6 2,307.9 2,297.2 2,292.3	703.1 712.2 716.3 722.3	547.8 553.9 557.8 557.9	432.1 437.4 416.4 408.0	117.5 108.8 103.0 99.3	426.9 432.7 438.6 440.5	39.5 39.4 39.4 39.6	911.5 917.4 921.2 930.2

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, 1963-2011

[Billions of dollars, except as noted; quarterly data at seasonally adjusted annual rates]

		Jillions of di			Less: Perso				Pero	ent of disposersonal incom	sable ie ²
		Less:	Equals: Dispos-					Equals:	Persona	l outlays	
Year or quarter	Personal income	Personal current taxes	able personal income	Total	Personal consump- tion expendi- tures	Personal interest pay- ments ¹	Personal current transfer payments	Personal saving	Total	Personal consump- tion expendi- tures	Personal saving
1963 1964 1965 1966 1967 1968 1969	479.5 514.3 555.5 603.8 648.1 711.7 778.3 838.6	54.6 52.1 57.7 66.4 73.0 87.0 104.5	425.0 462.3 497.8 537.4 575.1 624.7 673.8 735.5	391.8 421.7 455.1 493.1 520.9 572.2 621.4 666.1	382.7 411.5 443.8 480.9 507.8 558.0 605.1 648.3	7.9 8.9 9.9 10.7 11.1 12.2 14.0	1.2 1.3 1.4 1.6 2.0 2.0 2.2 2.6	33.1 40.5 42.7 44.3 54.2 52.5 52.5 69.4	92.2 91.2 91.4 91.8 90.6 91.6 92.2	90.0 89.0 89.2 89.5 88.3 89.3 89.8	7.8 8.8 8.6 8.2 9.4 8.4 7.8 9.4
1971 1972 1973 1974 1974 1975 1976 1977 1978	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	101.7 123.6 132.4 151.0 147.6 172.3 197.5 229.4 268.7	801.4 869.0 978.1 1,071.7 1,187.3 1,302.3 1,435.0 1,607.3 1,790.9	721.0 791.5 875.2 957.5 1,061.3 1,179.6 1,309.7 1,465.0 1,633.4	701.6 770.2 852.0 932.9 1,033.8 1,151.3 1,277.8 1,427.6 1,591.2	16.6 18.1 19.8 21.2 23.7 23.9 27.0 31.9 36.2	2.8 3.2 3.4 3.8 4.4 4.8 5.4 6.0	80.4 77.5 102.9 114.2 125.9 122.8 125.3 142.4 157.5	90.0 91.1 89.5 89.3 89.4 90.6 91.3 91.1 91.2	87.5 88.6 87.1 87.0 87.1 88.4 89.0 88.8 88.8	10.0 8.9 10.5 10.7 10.6 9.4 8.7 8.9 8.8
1980 1981 1982 1983 1984 1985 1986 1987 1988	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 93.4	87.7 86.7 86.0 88.0 86.5 88.3 88.9 90.2 89.9 90.1	9.8 10.6 10.9 8.7 10.2 7.6 6.5 6.9
1990	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 1,107.5	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	111.3 115.0 111.3 107.0 113.0 130.6 147.3 159.7 169.5 176.5	30.6 36.7 40.5 45.6 49.8 52.9 57.6 63.9 69.5 76.2	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 91.4 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 11,930.2	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 10,788.8	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 10,236.3	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 9,866.1	200.3 203.7 191.3 182.7 190.3 210.8 230.1 260.9 245.6 213.7	83.4 91.0 97.0 101.3 110.3 119.8 128.0 141.7 151.0 156.5	213.1 204.9 282.2 289.6 318.2 143.2 256.6 248.7 592.3 552.6	97.1 97.3 96.5 96.5 96.4 98.5 97.4 97.6 94.6 94.9	93.2 93.5 92.9 93.2 93.0 94.9 93.8 93.8 91.0	2.9 2.7 3.5 3.5 3.6 1.5 2.6 2.4 5.4
2010 2011 ^p 2008: I	12,373.5 12,961.0 12,415.6 12,571.7	1,193.9 1,404.8 1,536.0 1,351.8	11,179.7 11,556.2 10,879.6 11,220.0	10,586.9 11,050.9 10,424.5 10,529.4	10,245.5 10,722.6 10,018.5 10,126.5	173.4 157.0 256.9 250.7	168.0 171.3 149.1 152.1	592.8 505.3 455.0 690.6	94.7 95.6 95.8 93.8	91.6 92.8 92.1 90.3	5.3 4.4 4.2 6.2
III IV 2009:	12,513.3 12,340.0 11.964.4	1,432.1 1,422.8 1.198.0	11,081.2 10,917.3 10,766.3	10,538.4 10,236.3 10,155.2	10,135.8 9,861.3 9,781.7	247.9 226.9 220.5	154.7 148.1 153.0	542.8 680.9 611.1	95.1 93.8 94.3	91.5 90.3 90.9	4.9 6.2 5.7
II	11,944.1 11,874.1 11,938.2 12,137.7	1,120.3 1,120.6 1,126.4 1,146.4	10,823.8 10,753.5 10,811.7 10.991.3	10,153.4 10,285.3 10,351.2 10,457.2	9,781.6 9,911.1 9,990.0 10.103.7	217.6 216.6 200.1 188.3	154.2 157.6 161.1 165.2	670.3 468.2 460.5 534.1	93.8 95.6 95.7 95.1	90.4 92.2 92.4 91.9	6.2 4.4 4.3 4.9
	12,325.6 12,453.2 12,577.6	1,146.4 1,175.4 1,212.8 1,240.9	11,150.2 11,240.4 11,336.7	10,457.2 10,527.0 10,614.8 10,748.6	10,103.7 10,184.8 10,276.6 10,417.1	174.4 168.1 162.7	167.8 167.1 170.1 168.9	623.3 625.6 588.1	94.4 94.4 94.8	91.3 91.4 91.9	5.6 5.6 5.2
2011: 	12,846.9 12,955.3 12,979.6 13,062.2	1,365.9 1,396.2 1,408.5 1,448.5	11,481.0 11,559.2 11,571.1 11,613.8	10,902.1 11,002.6 11,114.6 11,184.5	10,571.7 10,676.0 10,784.5 10,858.1	160.3 155.9 158.4 153.4	170.1 170.7 171.6 173.0	578.9 556.5 456.5 429.3	95.0 95.2 96.1 96.3	92.1 92.4 93.2 93.5	5.0 4.8 3.9 3.7

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, 1963-2011

[Quarterly data at seasonally adjusted annual rates, except as noted]

	0	isposable pe	rsonal incom	ie e	Perso	nal consump	otion expendit	tures	Gross d	omestic	
Year or quarter	Tot (billions o		Per c (doll		To: (billions o	tal of dollars)	Per ca (doll		prod per c (dol	apita	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
1963 1964 1965 1966 1967 1968 1969	425.0 462.3 497.8 537.4 575.1 624.7 673.8 735.5	2,208.5 2,367.6 2,513.6 2,646.1 2,762.2 2,887.9 2,979.9 3,107.3	2,245 2,408 2,562 2,733 2,894 3,112 3,324 3,586	11,666 12,336 12,933 13,460 13,898 14,386 14,699	382.7 411.5 443.8 480.9 507.8 558.0 605.1 648.3	1,989.0 2,107.5 2,240.8 2,367.9 2,438.8 2,579.6 2,676.2 2,738.9	2,022 2,144 2,284 2,446 2,555 2,780 2,985 3,161	10,507 10,980 11,530 12,044 12,271 12,850 13,200 13,355	3,263 3,458 3,700 4,007 4,188 4,532 4,856 5,063	16,925 17,660 18,560 19,543 19,819 20,573 21,003	189,300 191,927 194,347 196,599 198,752 200,745 202,736 205,089
1971 1972 1973 1974 1975 1976 1977 1978	801.4 869.0 978.1 1,071.7 1,187.3 1,302.3 1,435.0 1,607.3 1,790.9	3,247.7 3,405.2 3,636.6 3,608.6 3,689.5 3,836.6 3,969.0 4,154.6 4,251.9	3,859 4,140 4,615 5,010 5,497 5,972 6,514 7,220 7,956	15,637 16,221 17,159 16,871 17,083 17,592 18,017 18,662 18,888	701.6 770.2 852.0 932.9 1,033.8 1,151.3 1,277.8 1,427.6 1,591.2	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	3,378 3,669 4,020 4,362 4,786 5,279 5,801 6,413 7,069	13,690 14,377 14,946 14,686 14,874 15,551 16,044 16,575 16,782	5,425 5,897 6,522 7,010 7,583 8,366 9,216 10,303 11,382	21,231 22,121 23,180 22,841 22,573 23,555 24,391 25,481 25,988	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	227,726 230,008 232,218 234,333 236,394 238,506 240,683 242,843 245,061 247,387
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	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 10,788.8	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 9,882.7	25,946 26,816 27,816 28,827 30,312 31,343 33,183 34,550 36,200 35,115	28,888 29,297 29,981 30,453 31,211 31,343 32,303 32,749 33,229 32,166	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 9,866.1	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 9,037.5	24,187 25,064 25,835 26,853 28,202 29,742 31,126 32,391 32,953 32,112	26,929 27,383 27,846 28,368 29,038 29,742 30,301 30,703 30,248 29,415	35,239 36,063 36,958 38,339 40,419 42,646 44,767 46,499 46,928 45,368	39,718 39,749 40,087 40,727 41,761 42,646 43,366 43,774 43,219 41,346	282,398 285,225 287,955 290,626 293,262 295,993 298,818 301,696 304,543 307,240
2010 2011 ^p 2008: I II IV	11,179.7 11,556.2 10,879.6 11,220.0 11,081.2 10,917.3	10,061.6 10,153.5 10,087.4 10,288.5 10,053.7 10,047.9	36,090 37,035 35,848 36,888 36,343 35,722	32,481 32,539 33,238 33,826 32,974 32,878	10,245.5 10,722.6 10,018.5 10,126.5 10,135.8 9,861.3	9,220.9 9,421.1 9,289.1 9,285.8 9,196.0 9,076.0	33,074 34,363 33,011 33,293 33,243 32,267	29,767 30,192 30,607 30,529 30,160 29,698	46,894 48,352 47,032 47,394 47,212 46,077	42,250 42,666 43,714 43,761 43,250 42,156	309,774 312,040 303,494 304,160 304,902 305,616
2009: I II IV	10,766.3 10,823.8 10,753.5 10,811.7	9,951.0 9,957.3 9,819.6 9,805.4	35,157 35,272 34,962 35,071	32,494 32,448 31,926 31,806	9,781.7 9,781.6 9,911.1 9,990.0	9,040.9 8,998.5 9,050.3 9,060.2	31,942 31,876 32,224 32,405	29,523 29,324 29,425 29,389	45,369 45,147 45,259 45,696	41,351 41,195 41,273 41,564	306,237 306,866 307,573 308,285
2010: I II III IV	10,991.3 11,150.2 11,240.4 11,336.7	9,922.5 10,057.8 10,114.4 10,152.0	35,582 36,032 36,251 36,491	32,122 32,501 32,620 32,678	10,103.7 10,184.8 10,276.6 10,417.1	9,121.2 9,186.9 9,247.1 9,328.4	32,709 32,912 33,143 33,531	29,528 29,687 29,823 30,027	46,222 46,752 47,104 47,494	41,883 42,198 42,376 42,541	308,899 309,457 310,070 310,670
2011: I II IV ^p	11,481.0 11,559.2 11,571.1 11,613.8	10,183.2 10,169.7 10,121.6 10,141.2	36,895 37,082 37,048 37,113	32,724 32,625 32,407 32,407	10,571.7 10,676.0 10,784.5 10,858.1	9,376.7 9,392.7 9,433.5 9,481.3	33,972 34,249 34,529 34,698	30,132 30,132 30,204 30,299	47,778 48,162 48,590 48,874	42,508 42,577 42,684 42,893	311,184 311,717 312,330 312,930

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, 1963-2011

[Billions of dollars, except as noted; quarterly data at seasonally adjusted annual rates]

						Gross	saving					
					Net s	aving				Consum	ption of fixe	d capital
V	T			Net priva	te saving		Net g	overnment :	saving			
Year or quarter	Total gross saving	Total net saving	Total	Personal saving	Undis- tributed corporate profits ¹	Wage accruals less disburse- ments	Total	Federal	State and local	Total	Private	Govern- ment
1963 1964 1965 1966 1967 1968	133.2 143.4 158.5 168.7 170.6 182.0 198.4	69.8 77.0 87.7 92.3 87.6 91.6 99.3	58.8 69.7 78.0 82.3 89.9 86.6 82.7	33.1 40.5 42.7 44.3 54.2 52.5 52.5	25.7 29.2 35.3 38.0 35.8 34.1 30.3	0.0 .0 .0 .0 .0	11.0 7.3 9.8 10.0 –2.3 5.1 16.5	5.3 .9 3.2 2.3 -9.3 -2.4 8.6	5.7 6.4 6.5 7.8 7.0 7.5 8.0	63.3 66.4 70.7 76.5 82.9 90.4 99.2	45.9 48.3 51.9 56.5 61.6 67.4 74.5	17.5 18.1 18.9 20.0 21.4 23.0 24.7
1970	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 -1.0	-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 54.4
1980	542.7 646.1 621.5 602.4 753.4 709.3 782.3 901.5 924.1	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	.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 1996 1997 1998	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 2001 2002 2003 2004 2005 2006 2006 2008 2009	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 1,597.3	615.8 439.4 255.9 198.6 305.9 377.5 535.4 280.2 54.1 -268.8	389.4 414.9 562.8 613.8 693.7 634.5 688.1 513.2 739.8 1,027.1	213.1 204.9 282.2 289.6 318.2 143.2 256.6 248.7 592.3 552.6	176.3 210.0 280.6 309.2 390.5 486.4 430.3 270.7 152.5 469.6	.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 -1,296.0	185.2 40.5 -252.8 -376.4 -379.5 -283.0 -203.8 -245.2 -613.5 -1,217.9	41.3 -15.9 -54.1 -38.8 -8.4 25.9 51.0 12.2 -72.2 -78.0	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 1,866.2	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	197.5 204.6 210.9 218.1 231.9 250.6 269.3 291.3 311.2 323.7
2010 2011 P	1,820.5	-54.5	1,244.5	592.8 505.3	651.7	.0	-1,299.0	-1,273.7	-25.3	1,874.9 1,950.0	1,540.9 1,597.8	334.0 352.2
2008: I II IV	2,010.1 1,925.5 1,907.1 1,790.1	192.7 82.8 37.5 –96.4	624.0 876.9 778.3 680.2	455.0 690.6 542.8 680.9	168.9 186.3 235.5 19.2	.0 .0 .0 -20.0	-431.3 -794.2 -740.9 -776.6	-388.8 -764.4 -639.1 -661.7	-42.5 -29.8 -101.8 -114.9	1,817.4 1,842.7 1,869.6 1,886.5	1,515.0 1,534.6 1,555.5 1,566.5	302.4 308.1 314.1 320.0
2009: I II IV	1,698.7 1,577.0 1,496.1 1,617.5	-186.4 -291.4 -358.0 -239.5	925.6 1,086.9 1,021.3 1,074.7	611.1 670.3 468.2 460.5	294.5 416.6 553.1 614.2	20.0 .0 .0 .0	-1,112.1 -1,378.3 -1,379.4 -1,314.2	-993.9 -1,303.0 -1,305.4 -1,269.4	-118.1 -75.3 -74.0 -44.8	1,885.2 1,868.4 1,854.1 1,857.1	1,562.6 1,545.2 1,530.5 1,531.4	322.6 323.2 323.6 325.6
2010: I II IV	1,718.4 1,840.9 1,883.2 1,839.3	-140.2 -25.9 5.0 -56.8	1,163.9 1,280.3 1,267.9 1,266.0	534.1 623.3 625.6 588.1	629.7 657.0 642.3 677.9	.0 .0 .0 .0	-1,304.0 -1,306.2 -1,262.9 -1,322.8	-1,271.8 -1,278.0 -1,257.7 -1,287.3	-32.3 -28.2 -5.2 -35.5	1,858.6 1,866.9 1,878.2 1,896.1	1,529.6 1,534.4 1,542.6 1,557.0	329.0 332.5 335.5 339.1
2011: I II IV P	1,895.2 1,890.5 1,901.1	-19.1 -49.4 -61.8	1,239.2 1,266.2 1,193.8	578.9 556.5 456.5 429.3	660.3 709.6 737.3	.0 .0 .0 .0	-1,258.3 -1,315.6 -1,255.6	-1,201.1 -1,275.4 -1,172.4	-57.2 -40.2 -83.2	1,914.3 1,939.9 1,962.8 1,983.0	1,570.5 1,590.5 1,607.6 1,622.5	343.8 349.4 355.2 360.4

¹ With inventory valuation and capital consumption adjustments. See next page for continuation of table.

TABLE B-32. Gross saving and investment, 1963-2011—Continued

[Billions of dollars, except as noted; quarterly data at seasonally adjusted annual rates]

	(Gross dom		tment, ca	pital acco	unt					Addenda:			
		Gross do	mestic in	estment/		Net	Statis-		Gross g	overnment	saving		Gross	Net
Year or quarter	Total	Total	Gross private domes- tic invest- ment	Gross govern- ment invest- ment ³	Capital ac- count trans- actions (net) 4	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	saving as a percent of gross national income	saving as a percent of gross national income
1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973	132.3 144.2 160.0 174.9 175.1 186.4 201.3 199.7 220.2 246.2 300.2 311.6	127.4 136.7 153.8 171.1 171.6 184.8 199.7 196.0 219.9 250.2 291.3 305.7	93.8 102.1 118.2 131.3 128.6 141.2 156.4 152.4 178.2 207.6 244.5 249.4	33.6 34.6 35.6 39.8 43.0 43.6 43.3 43.6 41.8 42.6 46.8 56.3	0.0	4.9 7.5 6.2 3.8 3.5 1.5 1.6 3.7 .3 -4.1 8.8 5.9	-0.8 .8 1.5 6.2 4.5 4.3 2.9 6.9 11.0 8.9 8.0 9.8	104.7 118.0 129.8 138.7 151.5 154.0 157.2 174.6 203.2 217.1 257.0 271.1	28.4 25.4 28.6 30.0 19.1 28.0 41.2 18.2 6.0 20.2 35.2 30.7	17.4 13.2 15.9 15.3 4.5 12.2 23.9 -12.2 -8.3 5.2 3.7	11.1 12.1 12.8 14.6 14.5 15.8 17.3 17.7 18.3 28.5 30.0 27.0	64.1 70.3 83.1 94.6 88.6 94.4 100.5 87.6 102.2 123.1 150.6 142.0	21.4 21.5 21.9 21.5 20.5 20.0 20.1 18.6 19.2 21.1 20.1	11.2 11.5 12.1 11.7 10.5 10.1 10.0 8.1 8.9 10.9 9.2
1970 1971 1972 1973 1974 1975 1976 1977 1978 1978	313.2 365.4 417.9 502.4 580.2 588.0	293.3 358.4 428.8 515.0 581.4 579.5	230.2 292.0 361.3 438.0 492.9 479.3	63.1 66.4 67.5 77.1 88.5 100.3	.1 .1 .1 .1 .1	19.8 7.0 -11.0 -12.7 -1.3 8.4	16.3 23.5 21.2 26.1 47.0 45.3	325.1 345.6 384.1 437.1 479.7 528.8	-28.2 -3.7 12.6 39.2 53.5 14.0	-50.9 -32.3 -23.1 -3.9 13.0 -26.6	22.7 28.6 35.7 43.2 40.5 40.6	102.9 150.2 197.1 253.6 282.4 235.4	18.2 18.8 19.6 20.8 20.9	6.5 7.4 8.1 9.4 9.2 7.2
1981 1982 1983 1984 1985 1986 1987 1988	682.6 626.2 652.1 784.9 780.7 777.1 815.1 892.0 980.3	679.3 629.5 687.2 875.0 895.0 919.7 969.2 1,007.7	572.4 517.2 564.3 735.6 736.2 746.5 785.0 821.6 874.9	106.9 112.3 122.9 139.4 158.8 173.2 184.3 186.1	.1 .1 .1 .1 .1 .1 .1	3.2 -3.4 -35.2 -90.2 -114.5 -142.8 -154.2 -115.9 -92.7	36.6 4.8 49.7 31.5 42.3 67.7 32.9 -9.5 56.1	625.2 681.9 692.2 814.0 802.0 783.8 813.0 908.8 916.1	20.9 -60.4 -89.8 -60.6 -63.6 -74.5 -30.8 -7.3 8.0	-20.0 -23.0 -97.7 -135.6 -126.9 -130.6 -143.0 -94.2 -79.3 -70.6	43.8 37.3 45.8 66.3 67.0 68.6 63.4 72.0 78.7	285.9 196.0 236.0 400.6 389.5 381.3 398.1 396.7 421.2	20.7 18.9 17.1 19.1 17.6 16.1 16.6 17.6	8.1 5.7 4.3 7.1 5.5 3.9 4.5 5.7 5.0
1990	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	-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 6.5
2000 2001 2002 2003 2004 2005 2006 2007 2008 2008	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 1,674.8	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 2,052.2	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 1,546.8	304.3 322.0 343.5 355.8 372.4 392.0 425.1 456.5 497.2 505.4	.3 -12.9 .5 2.1 -2.8 -12.9 2.1 1 -5.4	-410.7 -378.7 -452.1 -518.2 -621.8 -727.7 -800.5 -715.9 -673.6 -378.0	-134.0 -103.4 -22.1 16.7 -22.3 -95.1 -242.3 -12.0 -2.4 77.4	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 2,569.6	424.0 229.2 -95.9 -197.1 -155.9 -6.5 116.5 58.3 -374.6 -972.3	273.0 129.1 -163.6 -285.5 -284.6 -182.6 -97.2 -132.6 -493.5 -1,093.2	151.0 100.1 67.7 88.4 128.7 176.1 213.8 190.9 119.0	892.2 727.7 685.4 731.4 908.2 1,022.9 1,091.5 984.2 730.7 186.0	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 -1.9
2010 2011 ^p	1,821.3	2,300.4 2,395.9	1,795.1 1,913.6	505.3 482.3		-479.9	.8	2,785.4	-964.9	-1,143.6	178.7	425.5 445.9	12.4	4
2008: I II IV	1,951.4 1,954.6 1,898.4 1,818.6	2,660.6 2,661.3 2,594.3 2,422.8	2,185.7 2,165.4 2,086.3 1,913.0	475.0 495.9 508.0 509.8	.4 .4 -23.8 1.3	-709.7 -707.1 -672.1 -605.5	-58.8 29.1 -8.6 28.5	2,138.9 2,411.5 2,333.9 2,246.7	-128.8 -486.0 -426.8 -456.6	-272.1 -645.2 -517.8 -539.0	143.3 159.2 91.0 82.4	843.2 818.5 724.7 536.3	13.9 13.2 13.1 12.6	1.3 .6 .3 7
2009: 	1,740.8 1,667.3 1,600.1 1,690.8	2,123.2 2,005.0 1,990.7 2,089.9	1,620.1 1,493.8 1,481.2 1,592.2	503.1 511.2 509.6 497.7	.4 .5 .6	-382.8 -338.1 -391.2 -399.9	42.1 90.3 104.1 73.2	2,488.2 2,632.1 2,551.9 2,606.2	-789.5 -1,055.1 -1,055.8 -988.6	-870.7 -1,178.9 -1,180.3 -1,143.0	81.3 123.8 124.5 154.4	238.0 136.6 136.6 232.8	12.1 11.3 10.7 11.4	-1.3 -2.1 -2.6 -1.7
2010: 	1,711.2 1,834.3 1,875.7 1,863.8	2,193.1 2,316.5 2,363.6 2,328.5	1,702.3 1,809.7 1,850.5 1,818.0	490.8 506.9 513.1 510.5	.5 .5 1.2 .5	-482.4 -482.7 -489.1 -465.3	-7.2 -6.6 -7.4 24.5	2,693.5 2,814.6 2,810.5 2,823.0	-975.0 -973.7 -927.4 -983.7	-1,143.8 -1,148.6 -1,127.2 -1,154.9	168.8 174.9 199.8 171.3	334.5 449.7 485.5 432.4	11.9 12.5 12.7 12.3	-1.0 2 .0 4
2011: 	1,843.2 1,880.5 1,950.7	2,336.7 2,373.5 2,392.9 2,480.6	1,853.1 1,895.3 1,906.6 1,999.7	483.6 478.2 486.3 480.9	.5 3.7 .4	-494.0 -496.7 -442.7	-52.0 -10.0 49.6	2,809.7 2,856.6 2,801.4	-914.5 -966.2 -900.3	-1,066.5 -1,138.6 -1,033.2	152.0 172.4 132.9	422.4 433.6 430.1 497.6	12.5 12.4 12.3	1 3 4

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 2010 dollars) and poverty status of families and people, by race, selected years, 1998-2010

			Fami	lies ¹			People		Median r	noney inco ople 15 yea	me (in 201	O dollars)
		Median		Below pov	erty level		povert	y level	or pe	with in	come ²	
Race, Hispanic origin, and	Number (mil-	money income	To	tal	Fem house		Number		Ma	les	Fem	nales
year	lions)	(in 2010 dol- lars) ²	Number (mil- lions)	Percent	Number (mil- lions)	Percent	Number (mil- lions)	Percent	All people	Year- round full-time workers	All people	Year- round full-time workers
TOTAL (all races) 3 1998 1999 4 2000 5 2001 2002 2003 2004 2005 2007 2008 2009 8 2010	71.6 73.2 73.8 74.3 75.6 76.2 76.9 77.4 78.5 77.9 78.9 78.9	\$62,433 63,897 64,232 63,310 62,634 62,451 62,402 63,161 64,518 62,299 61,080 60,395	7.2 6.8 6.4 6.8 7.2 7.6 7.7 7.7 7.6 8.1 8.8 9.2	10.0 9.3 8.7 9.2 9.6 10.0 10.2 9.9 9.8 10.3 11.1	3.8 3.6 3.3 3.5 3.6 3.9 4.0 4.1 4.1 4.1 4.2 4.4	29.9 27.8 25.4 26.4 26.5 28.0 28.3 28.7 29.9 31.6	34.5 32.8 31.6 32.9 34.6 35.9 37.0 36.5 37.3 39.8 43.6 46.2	12.7 11.9 11.3 11.7 12.1 12.5 12.5 12.3 12.5 13.2 14.3 15.1	\$35,389 35,714 35,885 35,839 35,435 35,224 34,929 34,891 34,908 33,580 32,715 32,137	\$48,427 49,005 49,240 49,429 49,093 49,201 48,096 47,118 48,617 48,607 48,383 49,976 50,063	\$19,276 20,026 20,338 20,461 20,375 20,460 20,393 20,747 21,643 22,001 21,131 21,303 20,831	\$35,874 35,810 36,873 37,463 37,524 37,071 37,142 37,837 38,032 37,152 37,849 38,531
WHITE 1998 1999 1999 2000 5 2001 2002 5 2003 2004 2005 2006 2006 2007 2008 2009 2009	60.1 61.3 61.6 62.3 62.6 63.1 63.4 64.1 63.6 64.2 64.1 63.8	65,487 66,839 67,141 66,586 66,213 66,112 65,475 66,248 66,268 67,749 65,822 63,577 63,146	4.8 4.4 4.3 4.9 5.1 5.1 5.1 5.0 6.0 6.3	8.0 7.3 7.1 7.4 7.8 8.1 8.0 8.0 8.0 8.9 9.3	2.1 1.9 1.8 1.9 2.0 2.2 2.3 2.3 2.4 2.3 2.4 2.7 2.8	24.9 22.5 21.2 22.4 22.6 24.0 24.7 25.3 25.1 24.7 25.2 27.3 28.8	23.5 22.2 21.6 22.7 23.5 24.3 25.3 24.9 24.4 25.1 27.0 29.8 31.7	10.5 9.8 9.5 9.9 10.2 10.5 10.8 10.3 10.3 11.2 12.3 13.0	36,931 37,508 37,726 37,242 36,823 36,432 36,181 35,939 36,598 36,953 35,564 34,305 34,047	49,688 51,311 50,965 50,234 50,145 49,959 49,168 48,802 49,672 49,670 50,556 51,192 50,852	19,526 20,089 20,358 20,508 20,407 20,654 20,430 20,850 21,717 22,155 21,215 21,467 20,947	36,474 36,639 37,921 37,992 38,056 38,163 37,781 38,084 38,416 38,622 37,681 38,577 39,729
BLACK 1998 4 1999 4 199	8.5 8.7 8.7 8.8 8.9 8.9 9.1 9.3 9.4 9.4	39,279 41,677 42,638 41,377 40,631 40,744 40,571 39,608 41,384 42,213 40,383 39,043 38,500	2.0 1.9 1.7 1.8 1.9 2.0 2.0 2.0 2.0 2.1 2.1 2.1	23.4 21.8 19.3 20.7 21.5 22.3 22.8 22.1 21.6 22.1 22.0 22.7 24.2	1.6 1.5 1.3 1.4 1.5 1.5 1.5 1.5 1.5	40.8 39.2 34.3 35.2 35.8 36.9 37.6 36.1 36.3 37.3 37.2 36.7	9.1 8.4 8.0 8.1 8.8 9.0 9.2 9.0 9.2 9.2	26.1 23.6 22.5 22.7 24.1 24.4 24.7 24.9 24.3 24.5 24.7 25.8 27.4	25,810 26,748 27,023 26,436 26,131 26,064 26,191 25,300 27,104 27,153 25,573 24,130 23,203	36,698 39,458 38,603 39,312 38,700 39,630 36,614 38,233 38,365 38,630 39,100 40,012 37,611	17,549 19,335 20,107 20,052 20,275 19,657 20,037 19,691 20,658 20,770 20,452 19,791 19,700	31,878 32,898 32,602 33,617 33,480 32,746 33,642 33,911 33,454 33,220 32,593 33,006 33,987
HISPANIC (any race) 1998	7.3 7.8 8.0 8.5 9.1 9.3 9.5 9.9 10.2 10.4 10.5	39,551 41,249 43,607 42,476 41,431 40,629 40,908 42,292 43,256 42,658 40,978 40,386 39,538	1.6 1.6 1.5 1.6 1.8 1.9 2.0 1.9 2.0 2.2 2.4 2.6	22.7 20.5 19.2 19.4 19.7 20.8 20.5 19.7 18.9 19.7 21.3 22.7 24.0	.8 .7 .7 .7 .7 .8 .9 .9 .9 1.0 1.1 1.1	43.7 39.3 36.4 37.0 35.3 37.0 38.9 36.0 38.4 39.2 38.8 42.3	8.1 7.9 7.7 8.0 8.6 9.1 9.1 9.2 9.9 11.0 12.4 13.2	25.6 22.7 21.5 21.4 21.8 22.5 21.9 21.8 20.6 21.5 23.2 25.3 26.6	23,053 23,380 24,687 24,864 25,090 24,958 24,882 24,670 25,361 25,712 24,307 22,623 22,233	30,063 29,726 30,608 31,122 31,677 31,313 31,048 30,117 31,978 32,024 31,614 32,160 31,671	14,510 14,886 15,507 15,496 16,172 16,682 16,793 17,041 17,612 16,625 16,478 16,269	26,472 26,198 26,837 27,061 27,093 27,340 28,043 27,785 28,554 27,785 28,343 28,944

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

⁴ Reflects implementation of Census 2000–based population controls comparable with succeeding years.

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.

Adjusted by consumer price index research series (CPI-U-RS).
 Data for American Indians and Alaska natives, Asians, native Hawaiians and other Pacific Islanders, and those reporting two or more races are included in the total but not shown separately.

^{*} Hellects Implementation of crisiss 2000—passed population contains comparison from the contains of the conta

⁸ Beginning with data for 2009, the upper income interval used to calculate median incomes was expanded to \$250,000 or more.

POPULATION, EMPLOYMENT, WAGES, AND PRODUCTIVITY

TABLE B-34. Population by age group, 1939-2011

[Thousands of persons]

					Age (years)			
July 1	Total	Under 5	5–15	16–19	20–24	25-44	45-64	65 and over
1939	130,880	10,418	25,179	9,822	11,519	39,354	25,823	8,764
1940	132,122	10.579	24,811	9,895	11,690	39,868	26,249	9,031
1941	133,402	10,850 11,301	24,516	9,840	11,807	40,383	26.718	9,288
1942	134,860	11,301	24.231	9,730	11.955	40,861	27,196 27,671	9,584
1943 1944	136,739 138,397	12,016 12,524	24,093 23,949	9,607 9,561	12,064 12,062	41,420 42,016	27,671	9,867 10.147
1945	139,928	12,979	23,943	9,361	12,002	42,510	28,630	10,494
1946	141,389	13,244	24,103	9,119	12,004 11,814	43,027	29.064	10,828
1947 1948	144,126	14,406	24.468	9,097	11,814	43,657	29,498	11,185
1948	146,631 149,188	14,919 15,607	25,209 25,852	8,952 8,788	11,794 11,700	44,288 44,916	29,931 30,405	11,538 11,921
1949	152.271			8.542	11,680	45.672	30,403	
1950 1951	154,878	16,410 17,333	26,721 27,279	8,446	11,552	46,103	30,049	12,397 12,803
1952	157,553	17,312	28,894	8,414	11,350	46,495	31,884	13,203
1953	160,184	17,638	30,227	8,460	11,062	46,786	32,394	13,617
1954	163,026	18,057	31,480	8,637 8,744	10,832	47,001	32,942	14,076
1955 1956	165,931 168,903	18,566 19,003	32,682 33,994	8,744 8,916	10,714 10,616	47,194 47,379	33,506 34,057	14,525 14,938
1957	171,984	19,494	35,272	9,195	10,603	47,440	34,591	15,388
1958	174,882	19,887	36,445	9,543	10,756	47,337	35,109	15,806
1959	177,830	20,175	37,368	10,215	10,969	47,192	35,663	16,248
1960	180,671	20,341	38,494	10,683	11,134	47,140	36,203	16,675
1961 1962	183,691 186,538	20,522 20,469	39,765 41,205	11,025 11,180	11,483 11,959	47,084 47,013	36,722 37,255	17,089 17,457
1963	189,242	20,342	41,626	12,007	12,714	46,994	37,782	17,778
1904	191,889	20,165	42.297	12.736	13.269	46,958	38,338	18,127
1965	194,303	19,824	42,938	13,516	13,746	46,912	38,916	18,451
1966 1967	196,560 198,712	19,208 18,563	43,702 44,244	14,311 14,200	14,050 15,248	47,001 47,194	39,534 40,193	18,755 19,071
1968	200,706	17,913	44,622	14,452	15,786	47,721	40,846	19,365
1969	202,677	17,376	44,840	14,800	16,480	48,064	41,437	19,680
1970	205,052	17,166	44,816	15,289	17,202	48,473	41,999	20,107
19/1	207,661	17,244	44,591	15,688	18,159	48,936	42,482	20,561
1972	209,896 211,909	17,101 16,851	44,203 43,582	16,039 16,446	18,153 18,521	50,482 51,749	42,898 43,235	21,020 21,525
1977 1974 1975 1976 1977 1978	213,854	16,487	42,989	16,769	18,975	53,051	43,522	22,061
1975	215,973	16,121	42,508	17,017	19,527	54,302	43,801	22,696
19/6	218,035	15,617	42,099 41,298	17,194	19,986 20,499	55,852	44,008	23,278 23,892
1978	220,239 222,585	15,564 15,735	41,290	17,276 17,288	20,499	57,561 59,400	44,150 44,286	24,502
1979	225,055	16,063	39,552	17,242	21,297	61,379	44,390	25,134
1980	227,726	16,451	38,838	17,167	21,590	63,470	44,504	25,707
1981	229,966 232,188	16,893 17,228	38.144	16,812 16,332	21,869 21,902	65,528 67,692	44,500	26,221
1902	232,188	17,228	37,784 37,526	16,332	21,902	67,692	44,462 44,474	26,787 27,361
1983 1984	234,307 236,348	17,695	37,461	15,823 15,295	21,737	71,735	44,547	27,878
1985	238,466	17,842	37,450	15,005	21,478	73,673	44,602	28,416
1986	240,651	17,963	37,404 37,333	15,024	20,942	75,651 77,338	44,660	29,008
1987 1988	242,804 245,021	18,052 18,195	37,333 37.593	15,215 15,198	20,385 19,846	77,338	44,854 45,471	29,626 30,124
1989	247,342	18,508	37,972	14,913	19,442	79,943	45,882	30,682
1990	250.132	18.856	38.632	14,466	19.323	81,291	46.316	31.247
1991	253,493	19,208	39,349	13,992	19,414	82,844	46,874	31,812
1992	256,894	19,528	40,161	13,781	19,314	83,201	48,553	32,356
1993 1994	260,255 263,436	19,729 19,777	40,904 41,689	13,953 14,228	19,101 18,758	83,766 84,334	49,899 51 318	32,902 33,331
1995	266,557	19,627	42,510	14,522	18,758 18,391	84,933	51,318 52,806	33,769
1996	269,667	19,408	43,172	15,057	17,965	85,527	54,396	34,143
1997	272,912	19,233	43,833	15,433 15,856	17,992 18,250	85,737	56,283 58,249	34,402
1998 1999	276,115 279,295	19,145 19,136	44,332 44,755	16,164	18,672	85,663 85,408	60,362	34,619 34,798
2000 1	282,162	19,178	45,166	16,230	19.117	84.973	62,428	35,070
	284.969	19.298	45,100 45,236	16.372	19.757	84.523	64,492	35.290
2002 ¹	287,625	19,429	45,232	16,512	20,244	83,990	66,696	35,522
2003 1	290.108	19,592	45,209	16,625	20,592	83,398	68,829	35,864
2004 ¹ 2005 ¹	292,805 295,517	19,786 19,917	45,131 45.059	16,838 17,029	20,846 20,960	83,067 82,764	70,935 73,137	36,203 36,650
	298,380	19,939	44,984	17,401	21 036	82,639	75,216	37,164
/1111/ '	301,231	20,126	44,920	17.703	21,078	82,510	77,068	37,826
ZUU8 ¹	304,094	20,271	44,955	17,892 17,933	1 21 181	82,400	78,618	38,778
2003	306,772	20,245	45,103		21,384	82,211	80,273	39,623
2010 1	309,350	20,201	45,323	17,712	21,668	82,229	81,780	40,438
2011 1	311,592							

¹ Data for 2000–2011 reflect the results of the 2010 Census, and do not include Armed Forces overseas.

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, 1929-2011

[Monthly data seasonally adjusted, except as noted]

				vilian labor for	ce		,			
Year or month	Civilian noninsti-			Employment		He	Not in labor	Civilian labor force	Civilian employ- ment/	Unemploy- ment
rear or monur	tutional population ¹	Total	Total	Agricultural	Non- agricultural	Un- employ- ment	force	participa- tion rate ²	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 1943	99,900 98,640	55,910 56,410	50,350 53,750	9,100 9,250	41,250 44,500	5,560 2,660	43,990 42,230	56.0 57.2	50.4 54.5	9.9 4.7
1943 1944	94,640 93,220	55,540 54,630	54,470 53,960	9,080 8,950	45,390 45,010	1,070 670	39,100 38,590	58.7 58.6	57.6 57.9	1.9 1.2
1945 1946	94,090 103,070	53,860 57,520	52,820 55,250	8,580 8,320	44,240 46,930	1,040 2,270	40,230 45,550	57.2 55.8	56.1 53.6	1.9 3.9
1947	106,018	60,168	57,812	8,256	49,557	2,356	45,850	56.8	54.5	3.9
					of age and ov					
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 2,055	42,787 42,604	59.2 59.2	56.1 57.3	5.3
1951 1952	104,621 105,231	62,017 62,138	59,961 60,250	6,726 6,500	53,235 53,749 54,919	1,883	43,093	59.0	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	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	4.3 6.8
1959 1960 ⁵	115,329 117,245	68,369 69,628	64,630 65,778	5,565 5,458	59,065 60,318	3,740 3,852	46,960 47,617	59.3 59.4	56.0 56.1	5.5 5.5
1961 1962 ⁵ 1963	118,771 120,153	70,459 70,614	65.746	5,200 4,944	60,546 61,759	4,714 3,911	48,312 49,539	59.3 58.8	55.4 55.5	6.7
1963 1964	122,416 124,485	71,833 73,091	66,702 67,762 69,305	4,687 4,523	63,076 64,782	4,070 3,786	50,583 51,394	58.7 58.7	55.4 55.7	5.5 5.7 5.2
1965	126,513 128,058	74,455 75,770	71,088 72,895	4,361 3,979	66,726 68,915	3,366 2,875	52,058 52,288	58.9 59.2	56.2 56.9	4.5
1966 1967	129,874	77,347	74,372	3,844	70,527	2,975	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 6.2
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 5.5
1989 1990 ⁵	186,393 189,164	123,869 125,840	114,968 117,342 118,793	3,199 3,223	114,142 115,570	6,528 7,047	62,523 63,324	66.5 66.5	63.0	5.5 5.3 5.6
1991	190,925	126,346 128,105	118,793 117,718 118,492 120,259	3,269	114,449 115,245	8,628	64,578	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	120,259 123,060	3,247 3,115 3,409	115,245 117,144 119,651	9,613 8,940 7,996	64,700 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	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, 1929-2011—Continued

[Monthly data seasonally adjusted, except as noted]

			Ci	vilian labor for	rce					
Year or month	Civilian noninsti-			Employment			Not in labor	Civilian labor force	Civilian employ-	Unemploy- ment
real of month	tutional population ¹	Total	Total	Agricultural	Non- agricultural	Un- employ- ment	force	participa- tion rate ²	ment/ 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	142,583 143,734 144,863 146,510 147,401	136,891 136,933 136,485 137,736 139,252	2,464 2,299 2,311 2,275 2,232	134,427 134,635 134,174 135,461 137,020	5,692 6,801 8,378 8,774 8,149	69,994 71,359 72,707 74,658 75,956	67.1 66.8 66.6 66.2 66.0	64.4 63.7 62.7 62.3 62.3	4.0 4.7 5.8 6.0 5.5
2005 ⁵	226,082 228,815 231,867 233,788 235,801	149,320 151,428 153,124 154,287 154,142	141,730 144,427 146,047 145,362 139,877	2,197 2,206 2,095 2,168 2,103	137,020 139,532 142,221 143,952 143,194 137,775	7,591 7,001 7,078 8,924 14,265	76,762 77,387 78,743 79,501 81,659	66.0 66.2 66.0 66.0 65.4	62.7 63.1 63.0 62.2 59.3	5.1 4.6 4.6 5.8 9.3
2010 ⁵ 2011 ⁵	237,830 239,618	153,889 153,617	139,064 139,869	2,206 2,254	136,858 137,615	14,825 13,747	83,941 86,001	64.7 64.1	58.5 58.4	9.6 8.9
2008: Jan ⁵ Feb	232,616 232,809 232,995 233,198 233,405 233,627 233,864 234,107 234,828 235,035	154,075 153,648 153,925 153,761 154,325 154,316 154,480 154,646 154,559 154,622 154,622	146,397 146,157 146,108 146,130 145,929 145,738 145,738 145,196 145,059 144,792 144,078 143,328	2,204 2,188 2,172 2,109 2,113 2,121 2,138 2,151 2,238 2,207 2,212 2,202	144,187 143,965 143,946 143,902 143,748 143,631 143,467 143,066 142,814 142,691 141,836 141,107	7,678 7,491 7,816 7,631 8,395 8,578 8,950 9,450 9,501 10,083 10,544 11,299	78,541 79,162 79,070 79,437 79,080 79,311 79,384 79,460 79,801 79,737 80,206 80,408	66.2 66.0 66.1 65.9 66.1 66.1 66.1 65.9 66.0 65.8	62.9 62.8 62.7 62.7 62.5 62.4 62.2 62.0 61.9 61.7 61.4	5.0 4.9 5.1 5.0 5.4 5.8 6.1 6.1 6.8 7.3
2009: Jan ⁵	234,739 234,913 235,086 235,271 235,452 235,655 235,870 236,387 236,322 236,550 236,743 236,924	154,236 154,521 154,143 154,450 154,800 154,730 154,538 154,319 153,786 153,822 153,823	142,187 141,660 140,754 140,654 140,093 139,891 139,458 138,775 138,401 138,607 137,968	2,143 2,124 2,027 2,124 2,149 2,150 2,135 2,099 2,046 2,058 2,111 2,078	140,069 139,558 138,756 138,484 138,075 137,719 137,719 137,318 136,755 136,446 136,481 135,877	12,049 12,860 13,389 13,796 14,505 14,727 14,646 14,861 15,012 15,421 15,227 15,124	80,502 80,392 80,942 80,652 80,652 80,925 81,332 81,768 82,536 82,728 82,909 83,833	65.7 65.8 65.6 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 58.5	7.8 8.3 8.7 8.9 9.4 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	153,454 153,704 153,964 154,528 154,216 153,653 153,748 154,073 153,918 153,709 154,041 153,613	138,500 138,665 138,836 139,306 139,340 139,139 139,338 139,344 139,072 138,937 139,220	2,121 2,295 2,202 2,247 2,205 2,120 2,188 2,182 2,184 2,373 2,206 2,173	136,464 136,459 136,702 137,024 137,074 136,968 136,776 137,080 137,233 136,816 136,686 137,036	14,953 15,039 15,128 15,221 14,876 14,517 14,609 14,735 14,574 14,636 15,104	83,379 83,295 83,195 82,801 83,284 84,037 84,142 84,026 84,404 84,822 84,674 85,276	64.8 64.9 65.1 64.9 64.6 64.6 64.7 64.6 64.4 64.5 64.3	58.5 58.5 58.7 58.7 58.7 58.5 58.5 58.5	9.7 9.8 9.8 9.9 9.6 9.5 9.5 9.5 9.5
2011: Jan ⁵	238,704 238,851 239,000 239,146 239,313 239,489 239,671 239,871 240,071 240,269 240,441 240,584	153,250 153,302 153,392 153,420 153,700 153,409 153,358 153,674 154,057 153,937 153,887	139,330 139,551 139,764 139,628 139,808 139,385 139,450 139,754 140,107 140,297 140,614 140,790	2,252 2,247 2,244 2,090 2,244 2,250 2,373 2,268 2,257 2,262 2,349	137,156 137,388 137,619 137,505 137,508 137,125 136,993 137,290 137,932 138,167 138,304 138,411	13,919 13,751 13,628 13,792 13,892 14,024 13,908 13,920 13,897 13,759 13,323 13,097	85,454 85,550 85,608 85,726 85,613 86,080 86,313 86,198 86,067 86,213 86,503 86,697	64.2 64.2 64.2 64.2 64.1 64.1 64.1 64.1 64.1 64.0 64.0	58.4 58.5 58.4 58.4 58.2 58.2 58.3 58.4 58.5 58.5	9.1 9.0 8.9 9.0 9.1 9.1 9.1 8.9 8.7 8.5

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 oteralis 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, 1965-2011

[Thousands of persons 16 years of age and over; monthly data seasonally adjusted]

				an employ		- ago am	2 0101, 111			nany adju ——— Ur	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
1965	71,088 72,895 74,372 75,920 77,902	46,340 46,919 47,479 48,114 48,818	2,918 3,253 3,186 3,255 3,430	43,422 43,668 44,294 44,859 45,388	24,748 25,976 26,893 27,807 29,084	2,118 2,468 2,496 2,526 2,687	22,630 23,510 24,397 25,281 26,397	3,366 2,875 2,975 2,817 2,832	1,914 1,551 1,508 1,419 1,403	479 432 448 426 440	1,435 1,120 1,060 993 963	1,452 1,324 1,468 1,397 1,429	395 405 391 412 413	1,056 921 1,078 985 1,015
1970 1971 1972 1973 1974 1975 1976 1976 1977 1978	78,678 79,367 82,153 85,064 86,794 85,846 88,752 92,017 96,048 98,824 99,303 100,397	48,990 49,390 50,896 52,349 53,024 51,857 53,138 54,728 56,479 57,607 57,186 57,397	3,409 3,478 3,765 4,039 4,103 3,839 3,947 4,174 4,336 4,300 4,085 3,815	45,581 45,912 47,130 48,310 48,922 48,018 49,190 50,555 52,143 53,308 53,101 53,582	29,688 29,976 31,257 32,715 33,769 33,989 35,615 37,289 39,569 41,217 42,117 43,000	2,735 2,730 2,980 3,231 3,345 3,263 3,389 3,514 3,734 3,734 3,783 3,625 3,411	26,952 27,246 28,276 29,484 30,424 30,726 32,226 33,775 35,836 37,434 38,492 39,590	4,093 5,016 4,882 4,365 5,156 7,929 7,406 6,991 6,202 6,137 7,637 8,273	2,238 2,789 2,659 2,275 2,714 4,442 4,036 3,667 3,142 3,120 4,267 4,577	599 693 711 653 757 966 939 874 813 811	1,638 2,097 1,948 1,624 1,957 3,476 3,098 2,794 2,328 2,308 3,353 3,615	1,855 2,227 2,222 2,089 2,441 3,486 3,369 3,324 3,061 3,018 3,370 3,696	506 568 598 583 665 802 780 789 769 743 755	1,349 1,658 1,625 1,507 1,777 2,684 2,588 2,535 2,292 2,276 2,615 2,895
1982 1983 1984 1985 1986 1986 1987 1988 1989	99,526 100,834 105,005 107,150 109,597 112,440 114,968 117,342 118,793 117,718	56,271 56,787 59,091 59,891 60,892 62,107 63,273 64,315 65,104 64,223	3,819 3,379 3,300 3,322 3,328 3,323 3,381 3,492 3,477 3,427 3,044	52,891 53,487 55,769 56,562 57,569 58,726 59,781 60,837 61,678 61,178	43,256 44,047 45,915 47,259 48,706 50,334 51,696 53,027 53,689 53,496	3,170 3,043 3,122 3,105 3,149 3,260 3,313 3,282	40,086 41,004 42,793 44,154 45,556 47,074 48,383 49,745 50,535 50,634	10,678 10,717 8,539 8,312 8,237 7,425 6,701 6,528 7,047 8,628	4,377 6,179 6,260 4,744 4,521 4,530 4,101 3,655 3,525 3,906 4,946	1,090 1,003 812 806 779 732 667 658 667 751	5,089 5,257 3,932 3,715 3,751 3,369 2,987 2,867 3,239 4,195	3,036 4,499 4,457 3,794 3,791 3,707 3,324 3,046 3,003 3,140 3,683	886 825 687 661 675 616 558 536 544 608	3,613 3,632 3,107 3,129 3,032 2,709 2,487 2,467
1993 1994 1994 1995 1996 1997 1998 1999 2000	118,492 120,259 123,060 124,900 126,708 129,558 131,463 133,488 136,891	64,440 65,349 66,450 67,377 68,207 69,685 70,693 71,446 73,305	2,944 2,994 3,156 3,292 3,310 3,401 3,558 3,685 3,671	61,496 62,355 63,294 64,085 64,897 66,284 67,135 67,761 69,634	54,052 54,052 54,910 56,610 57,523 58,501 59,873 60,771 62,042 63,586	3,154 2,862 2,724 2,811 3,005 3,127 3,190 3,260 3,493 3,487 3,519	51,328 52,099 53,606 54,396 55,311 56,613 57,278 58,555 60,067	9,613 8,940 7,996 7,404 7,236 6,739 6,210 5,880 5,692	5,523 5,055 4,367 3,983 3,880 3,577 3,266 3,066 2,975	731 806 768 740 744 733 694 686 633	4,133 4,717 4,287 3,627 3,239 3,146 2,882 2,580 2,433 2,376	3,083 4,090 3,885 3,629 3,421 3,356 3,162 2,944 2,814 2,717	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
2001 2002 2003 2004 2005 2006 2007 2008 2009	136,933 136,485 137,736 139,252 141,730 144,427 146,047 145,362 139,877 139,064	73,196 72,903 73,332 74,524 75,973 77,502 78,254 77,486 73,670	3,420 3,169 2,917 2,952 2,923 3,071 2,917 2,736 2,328	69,776 69,734 70,415 71,572 73,050 74,431 75,337 74,750 71,341	63,737 63,582 64,404 64,728 65,757 66,925 67,792 67,876 66,208	3,320 3,162 3,002 2,955 3,055 3,091 2,994 2,837 2,509	60,417 60,420 61,402 61,773 62,702 63,834 64,799 65,039 63,699	6,801 8,378 8,774 8,149 7,591 7,001 7,078 8,924 14,265	3,690 4,597 4,906 4,456 4,059 3,753 3,882 5,033 8,453	650 700 697 664 667 622 623 736 898	3,040 3,896 4,209 3,791 3,392 3,131 3,259 4,297 7,555	3,111 3,781 3,868 3,694 3,531 3,247 3,196 3,891 5,811	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	139,064 139,869 138,500 138,665 138,836 139,306 139,340 139,137 139,139 139,338 139,344 139,072 138,937 139,220	73,359 74,290 72,644 72,811 73,103 73,536 73,587 73,587 73,534 73,632 73,502 73,502 73,500 73,607	2,129 2,108 2,116 2,165 2,174 2,184 2,170 2,048 2,131 2,094 2,044 2,112 2,232 2,113	71,230 72,182 70,529 70,645 70,929 71,352 71,416 71,538 71,545 71,545 71,410 71,128 71,494	65,705 65,579 65,856 65,854 65,733 65,770 65,751 65,764 65,754 65,754 65,551 65,613	2,249 2,219 2,314 2,313 2,307 2,317 2,262 2,218 2,206 2,300 2,214 2,199 2,177 2,184	63,456 63,360 63,542 63,541 63,453 63,491 63,533 63,400 63,540 63,429	14,825 13,747 14,953 15,039 15,128 15,221 14,876 14,517 14,636 14,574 14,636 15,104 14,393	8,626 7,684 8,879 8,861 8,913 8,562 8,560 8,493 8,561 8,459 8,324 8,644 8,202	863 786 921 862 924 896 855 851 869 856 829 867 802 813	7,763 6,898 7,958 7,999 7,989 7,707 7,705 7,624 7,705 7,629 7,457 7,842 7,390	6,199 6,063 6,075 6,178 6,215 6,332 6,314 5,957 6,116 6,174 6,166 6,460 6,191	665 613 630 666 657 756 639 670 652 730 628 638	5,534 5,450 5,444 5,512 5,549 5,674 5,558 5,318 5,467 5,504 5,582 5,832 5,553
2011: Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec	139,330 139,551 139,764 139,628 139,808 139,385 139,450 139,754 140,107 140,297 140,614 140,790	73,785 74,053 74,051 73,969 74,217 74,068 74,011 74,209 74,435 74,492 74,975 75,235	2,192 2,153 2,133 2,027 2,055 2,088 2,081 2,110 2,095 2,113 2,129 2,155	71,593 71,901 71,918 71,942 72,161 71,981 71,930 72,098 72,340 72,379 72,846 73,080	65,546 65,4498 65,714 65,659 65,591 65,316 65,439 65,545 65,672 65,805 65,639 65,555	2,142 2,147 2,199 2,228 2,207 2,228 2,182 2,223 2,266 2,286 2,287 2,232	63,403 63,351 63,515 63,431 63,385 63,088 63,257 63,322 63,406 63,520 63,352 63,352	13,919 13,751 13,628 13,792 13,892 14,024 13,920 13,897 13,759 13,323 13,097	7,819 7,683 7,651 7,747 7,802 7,923 7,825 7,817 7,707 7,707 7,366 7,138	818 752 763 794 759 788 777 826 806 795 772 782	7,001 6,931 6,887 6,953 7,043 7,135 7,047 6,991 6,901 6,912 6,594 6,356	6,100 6,067 5,977 6,045 6,090 6,101 6,084 6,103 6,190 6,052 5,957 5,959	661 600 641 615 597 619 635 641 606 592 598 535	5,440 5,467 5,336 5,430 5,493 5,482 5,449 5,462 5,584 5,461 5,359 5,425

Note: See footnote 5 and Note, Table B-35.

TABLE B-37. Civilian employment by demographic characteristic, 1965-2011

[Thousands of persons 16 years of age and over; monthly data seasonally adjusted]

		[THOUSE		ite ¹	yours or a	go una ov	•	id other ¹			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
1965 1966 1967 1968 1969	71,088 72,895 74,372 75,920 77,902	63,446 65,021 66,361 67,750 69,518	41,844 42,331 42,833 43,411 44,048	21,602 22,690 23,528 24,339 25,470	4,562 5,176 5,114 5,195 5,508	7,643 7,877 8,011 8,169 8,384	4,496 4,588 4,646 4,702 4,770	3,147 3,289 3,365 3,467 3,614	474 545 568 584 609				
1970 1971 1972 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 1984 1985 1986 1987 1988 1988	99,303 100,397 99,526 100,834 105,005 107,150 109,597 112,440 114,968 117,342	87,715 88,709 87,903 88,893 92,120 93,736 95,660 97,789 99,812 101,584	51,127 51,315 50,287 50,621 52,462 53,046 53,785 54,647 55,550 56,352	36,587 37,394 37,615 38,272 39,659 40,690 41,876 43,142 44,262 45,232	7,021 6,588 5,984 5,799 5,836 5,768 5,792 5,898 6,030 5,946	11,588 11,688 11,624 11,941 12,885 13,414 13,937 14,652 15,156 15,757	6,059 6,083 5,983 6,166 6,629 6,845 7,107 7,459 7,722 7,963	5,529 5,606 5,641 5,775 6,256 6,569 6,830 7,192 7,434 7,795	689 637 565 543 607 666 681 742 774 813	9,313 9,355 9,189 9,375 10,119 10,501 10,814 11,309 11,658 11,953	4,798 4,794 4,637 4,753 5,124 5,270 5,428 5,661 5,824 5,928	4,515 4,561 4,552 4,622 4,995 5,231 5,386 5,648 5,834 6,025	547 505 428 416 474 532 536 587 601 625
1990 1991 1992 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	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	139,064 139,869 138,500 138,665 138,836 139,306 139,340 139,137 139,139	114,168 114,690 114,013 113,935 114,120 114,349 114,311 114,212 114,326 114,421	61,252 61,920 60,741 60,904 61,113 61,366 61,444 61,312 61,484 61,479	52,916 52,770 53,272 53,031 53,006 52,983 52,866 52,901 52,842 52,942	3,733 3,691 3,748 3,801 3,790 3,859 3,741 3,632 3,712 3,747					15,010 15,051 14,846 14,906 14,922 15,014 15,194 15,038 14,965 14,994	6,865 6,953 6,759 6,759 6,783 6,882 6,983 6,842 6,879 6,896	8,145 8,098 8,087 8,146 8,139 8,131 8,211 8,196 8,086 8,098	386 380 442 400 415 418 422 370 382
Aug Sept Oct Nov Dec	139,338 139,344 139,072 138,937 139,220 139,330	114,456 113,992 113,771 114,150 114,263 114,294	61,509 61,265 61,059 61,353 61,515	52,942 52,947 52,728 52,712 52,797 52,748	3,673 3,696 3,768 3,671 3,728					14,911 15,094 15,125 15,098 15,025	6,827 6,923 6,929 6,910 6,887	8,084 8,171 8,197 8,188 8,138	375 314 362 373 363 365
Feb Mar Apr May June July Aug Sept Oct Nov Dec	139,551 139,764 139,628 139,808 139,385 139,450 139,754 140,107 140,297 140,614 140,790	114,294 114,652 114,603 114,827 114,428 114,497 114,704 114,818 114,837 115,130 115,254	61,692 61,659 61,661 61,968 61,751 61,775 61,960 62,075 62,005 62,411 62,576	52,602 52,994 52,942 52,859 52,677 52,722 52,743 52,743 52,832 52,719 52,678	3,644 3,675 3,629 3,638 3,660 3,641 3,720 3,728 3,761 3,751 3,736					15,078 15,047 14,964 14,862 14,875 14,812 14,965 15,224 15,351 15,151 15,248	6,918 6,943 6,904 6,825 6,939 6,889 6,888 6,986 7,054 7,027 7,160	8,160 8,104 8,060 8,037 7,936 7,923 8,077 8,238 8,296 8,124 8,088	386 388 403 375 401 363 335 377 390 388 393

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, 1965-2011

[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 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
1965	3,366 2,875 2,975 2,817 2,832	2,691 2,255 2,338 2,226 2,260	1,556 1,241 1,208 1,142 1,137	1,135 1,014 1,130 1,084 1,123	705 651 635 644 660	678 622 638 590 571	360 310 300 277 267	318 312 338 313 304	171 186 203 194 193				
1970 1971 1972 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 1987	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 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	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 2010: Jan	14,825 13,747 14,953	10,916 9,889 10,875	6,476 5,631 6,643	4,440 4,257 4,232	1,128 1,024 1,127					2,852 2,831 2,927	1,550 1,502 1,586	1,302 1,329 1,341	291 267 318
Feb Mar Apr May June July Aug Sept Oct Nov Dec	15,039 15,128 15,221 14,876 14,517 14,609 14,735 14,574 14,636 15,104 14,393	11,119 11,061 11,319 10,988 10,742 10,734 10,843 10,764 10,763 11,140 10,569	6,615 6,561 6,802 6,408 6,386 6,367 6,461 6,362 6,292 6,548 6,159	4,504 4,500 4,517 4,580 4,356 4,367 4,382 4,402 4,471 4,592 4,410	1,129 1,187 1,177 1,228 1,096 1,121 1,143 1,119 1,119 1,005 1,079					2,833 2,986 2,940 2,769 2,702 2,783 2,874 2,843 2,854 2,898 2,836	1,590 1,722 1,549 1,486 1,536 1,502 1,557 1,555 1,508 1,520 1,483	1,243 1,264 1,391 1,283 1,166 1,281 1,317 1,288 1,346 1,378 1,352	297 293 259 270 258 272 301 294 343 323 286
2011: Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec	13,919 13,751 13,628 13,792 13,892 14,024 13,908 13,920 13,897 13,759 13,323 13,097	10,029 9,979 9,837 10,039 9,985 10,098 10,061 9,901 9,883 9,967 9,522 9,288	5,744 5,676 5,612 5,755 5,669 5,819 5,745 5,646 5,593 5,743 5,350 5,175	4,284 4,303 4,225 4,284 4,316 4,278 4,315 4,255 4,290 4,224 4,172 4,113	1,087 992 1,007 1,031 929 1,019 1,092 1,097 1,002 1,040 1,015					2,804 2,745 2,782 2,883 2,868 2,865 2,803 2,992 2,872 2,716 2,783 2,862	1,501 1,447 1,500 1,530 1,550 1,508 1,487 1,625 1,502 1,431 1,474	1,304 1,298 1,282 1,353 1,318 1,358 1,316 1,367 1,371 1,285 1,308 1,382	296 241 280 283 259 265 233 289 291 234 255 286

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, 1965-2011

		orkers 80.7 39.3 45.7 58.4 62.9 62.9 56.2 77.5 37. 59.2 80.4 40.3 48.2 58.7 63.0 56.9 77.9 38.5 59.6 80.1 41.1 48.4 59.2 62.8 57.3 78.0 39.8 60.1 79.8 42.7 49.4 59.9 62.1 57.5 57.8 39.3 60.1 79.8 42.7 49.4 49.7 60.1 60.9 56.6 74.9 40.0 60.4 79.1 43.3 49.9 60.2 61.8 57.4 76.2 40.0 60.2 79.1 43.9 49.7 60.1 60.9 57.8 75.5 47.9 40.0 60.4 78.9 44.7 53.7 60.8 60.5 50.2 57.8 75.5 47.9 40.0 61.3 78.7 44.7 53.7 60.8 60.5 50.2 57.8												
Year or month	All civilian workers	Males	Females	sexes 16–19	White ²	and	or African	civilian	Males	Females	Both sexes 16–19 years	White ²	Black and other ²	Black or African Ameri- can ²
1965 1966 1967 1968 1969	59.2 59.6 59.6	80.4 80.4 80.1	41.1 41.6	48.4 48.3	59.2 59.3	63.0 62.8 62.2		57.3 57.5	78.0 77.8	37.1 38.3 39.0 39.6 40.7	38.9 42.1 42.2 42.2 43.4	56.0 56.8 57.2 57.4 58.0	57.8 58.4 58.2 58.0 58.1	
1970 1971 1972 1973 1974 1975 1976 1977 1978	60.2 60.4 60.8 61.3 61.2 61.6 62.3 63.2	79.1 78.9 78.8 78.7 77.9 77.5 77.7	43.4 43.9 44.7 45.7 46.3 47.3 48.4 50.0	49.7 51.9 53.7 54.8 54.0 54.5 56.0 57.8	60.1 60.4 60.8 61.4 61.5 61.8 62.5 63.3	60.9 60.2 60.5 60.3 59.6 59.8 60.4 62.2	59.9 60.2 59.8 58.8 59.0 59.8 61.5	56.6 57.0 57.8 57.8 56.1 56.8 57.9 59.3	74.9 75.0 75.5 74.9 71.7 72.0 72.8 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	63.9 64.0 64.0 64.4 65.3 65.6 65.9	77.0 76.6 76.4 76.4 76.3 76.3 76.2 76.2	52.1 52.6 52.9 53.6 54.5 55.3 56.0 56.6	55.4 54.1 53.5 53.9 54.5 54.7 54.7 55.3	64.3 64.3 64.6 65.0 65.5 65.8 66.2	61.3 61.6 62.1 62.6 63.3 63.7 64.3 64.0	60.8 61.0 61.5 62.2 62.9 63.3 63.8 63.8	59.0 57.8 57.9 59.5 60.1 60.7 61.5 62.3	71.3 69.0 68.8 70.7 70.9 71.0 71.5 72.0	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	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	66.2 66.4 66.3 66.6 66.6 66.8 67.1 67.1	75.8 75.8 75.4 75.1 75.0 74.9 75.0 74.9	57.4 57.8 57.9 58.8 58.9 59.3 59.8 59.8	51.6 51.3 51.5 52.7 53.5 52.3 51.6	66.6 66.8 66.8 67.1 67.2 67.5 67.3	63.8 64.6 63.8 63.9 64.3 64.6 65.2 66.0	63.3 63.9 63.2 63.4 63.7 64.1 64.7 65.6	61.7 61.5 61.7 62.5 62.9 63.2 63.8 64.1	70.4 69.8 70.0 70.4 70.8 70.9 71.3 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	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 2001 2002 2003 2004 2005 2006 2007 2008 2009	67.1 66.8 66.6 66.2 66.0 66.0 66.2 66.0 66.0 65.4	74.8 74.4 74.1 73.5 73.3 73.5 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 66.5 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	64.1 64.8 64.9 64.9	70.5 71.1 71.2 71.4	58.1 58.9 58.9 58.8	34.1 35.1	64.5 65.2 65.3 65.3		61.4 62.3 62.1	58.4 58.5 58.5	63.9 63.4 63.5 63.7	53.6 53.2 53.9 53.9 53.7 53.7 53.6 53.5 53.5 53.5 53.3 53.3	25.9 25.8 26.0 26.3 26.4 26.5 26.2 25.7 26.1 25.3 25.6 26.2 25.6	59.4 59.4 59.5 59.5 59.5 59.5 59.5 59.5		52.3 51.7 52.0 52.2 52.2 52.5 53.0 52.4 52.1 51.8 52.4 52.4 52.4 52.4
2011: Jan	64.2 64.2 64.2 64.2 64.2 64.1 64.0 64.1 64.1 64.0 64.0	70.5 70.5 70.4 70.4 70.5 70.3 70.4 70.5 70.5 70.5	58.3 58.2 58.3 58.3 58.2 58.0 58.0 58.1 58.2 58.1 57.9	34.5 33.5 34.1 33.7 33.5 34.1 33.9 34.6 34.5 34.6 34.6 34.2	64.6 64.5 64.6 64.7 64.7 64.5 64.5 64.5 64.5 64.4 64.3		61.6 61.5 61.5 61.0 61.0 60.5 61.6 62.0 61.8 61.3	58.4 58.4 58.4 58.4 58.2 58.2 58.3 58.4 58.4 58.5 58.5	63.7 63.9 63.8 63.7 63.9 63.7 63.6 63.7 63.9 64.2 64.4	53.3 53.3 53.4 53.3 53.3 53.0 53.1 53.1 53.2 53.2 53.2 53.1	25.7 25.5 25.7 25.3 25.4 25.7 25.4 25.9 26.1 26.3 26.4 26.3	59.4 59.3 59.5 59.5 59.3 59.4 59.4 59.4 59.5 59.5		51.9 52.0 51.9 51.5 51.1 51.1 50.9 51.3 52.1 52.5 51.8

¹ Civilian labor force or civilian employment as percent of civilian noninstitutional population in group specified.

Note: Data relate to persons 16 years of age and over. See footnote 5 and Note, Table B–35.

² See footnote 1, Table B-37.

TABLE B-40. Civilian labor force participation rate by demographic characteristic, 1972-2011

					White ²						Black or	African Ar	nerican ²		
V	All civilian			Males			Female	3			Males			Female	S
Year or month	work- ers	Total	Total	16–19 years	20 years and over	Total	16–19 years	20 years and over	Total	Total	16–19 years	20 years and over	Total	16–19 years	20 years and over
1972 1973 1974 1975 1976 1977 1978	60.4 60.8 61.3 61.2 61.6 62.3 63.2 63.7	60.4 60.8 61.4 61.5 61.8 62.5 63.3 63.9	79.6 79.4 79.4 78.7 78.4 78.5 78.6 78.6	60.1 62.9 61.9 62.3 64.0 65.0 64.8	82.0 81.6 81.4 80.7 80.3 80.2 80.1 80.1	43.2 44.1 45.2 45.9 46.9 48.0 49.4 50.5	48.1 50.1 51.7 51.5 52.8 54.5 56.7 57.4	42.7 43.5 44.4 45.3 46.2 47.3 48.7 49.8	59.9 60.2 59.8 58.8 59.0 59.8 61.5 61.4	73.6 73.4 72.9 70.9 70.0 70.6 71.5 71.3	46.3 45.7 46.7 42.6 41.3 43.2 44.9 43.6	78.5 78.4 77.6 76.0 75.4 75.6 76.2 76.3	48.7 49.3 49.0 48.8 49.8 50.8 53.1	32.2 34.2 33.4 34.2 32.9 32.9 37.3 36.8	51.2 51.6 51.4 51.1 52.5 53.6 55.5 55.4
1980 1981 1982 1983 1984 1985 1986 1987 1988	63.8 63.9 64.0 64.4 64.8 65.3 65.6 65.9 66.5	64.1 64.3 64.3 64.3 64.6 65.0 65.5 65.8 66.2 66.7	78.2 77.9 77.4 77.1 77.1 77.0 76.9 76.8 76.9 77.1	63.7 62.4 60.0 59.4 59.0 59.7 59.3 59.0 60.0 61.0	79.8 79.5 79.2 78.9 78.7 78.5 78.5 78.4 78.3 78.5	51.2 51.9 52.4 52.7 53.3 54.1 55.0 55.7 56.4 57.2	56.2 55.4 55.0 54.5 55.4 55.2 56.3 56.5 57.2 57.1	50.6 51.5 52.2 52.5 53.1 54.0 54.9 55.6 56.3 57.2	61.0 60.8 61.0 61.5 62.2 62.9 63.3 63.8 63.8 64.2	70.3 70.0 70.1 70.6 70.8 70.8 71.2 71.1 71.0 71.0	43.2 41.6 39.8 39.9 41.7 44.6 43.7 43.6 43.8 44.6	75.1 74.5 74.7 75.2 74.8 74.4 74.8 74.7 74.6 74.4	53.1 53.5 53.7 54.2 55.2 56.5 56.9 58.0 58.0 58.7	34.9 34.0 33.5 33.0 35.0 37.9 39.1 39.6 37.9 40.4	55.6 56.0 56.2 56.8 57.6 58.6 58.9 60.0 60.1 60.6
1990	66.5 66.2 66.4 66.3 66.6 66.6 67.1 67.1	66.9 66.8 66.8 67.1 67.1 67.2 67.5 67.3	77.1 76.5 76.5 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	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 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	67.1 66.8 66.6 66.2 66.0 66.2 66.0 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 75.3	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 60.4	65.8 65.3 64.8 64.3 63.8 64.2 64.1 63.7 63.7	69.2 68.4 68.4 67.3 66.7 67.3 67.0 66.8 66.7	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	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 63.4
2010 2011	64.7 64.1	65.1 64.5	72.0 71.3	37.4 36.1	74.6 73.9	58.5 58.0	38.0 37.5	59.9 59.4	62.2 61.4	65.0 64.2	25.8 25.7	69.5 68.4	59.9 59.1	25.1 24.2	63.2 62.2
2010: Jan Feb Mar Apr Apr June July Aug Sept Oct Nov Dec 2011: Jan Feb Mar Apr Apr Apr Apr Apr Apr Apr Apr Mar Apr Apr Apr Apr Apr Apr Apr Apr Apr Ap	64.8 64.9 65.1 64.9 64.6 64.6 64.7 64.6 64.3 64.2 64.2	65.2 65.3 65.3 65.5 65.3 65.1 65.1 65.1 64.8 64.8 64.7	71.9 72.0 72.1 72.6 72.2 72.0 72.1 72.1 72.0 71.6 71.6 71.5 71.2	37.5 37.1 38.3 38.6 38.0 36.2 37.5 37.1 36.5 37.1 38.2 37.5 37.6 36.0 35.7 35.7	74.5 74.6 74.7 75.2 74.8 74.7 74.7 74.7 74.2 74.1 74.0 73.9 73.9 73.8	58.8 58.8 58.8 58.7 58.5 58.4 58.5 58.4 58.2 58.3 58.2 58.3	37.5 38.9 38.5 39.2 39.0 37.2 37.6 39.0 38.2 38.0 36.3 36.8 37.1 37.4	60.3 60.2 60.1 60.1 60.0 59.9 59.8 59.8 59.8 59.7 59.5 59.8	62.3 62.1 62.6 62.7 62.7 61.8 62.1 61.7 62.3 62.4 62.1 61.5 61.5	65.0 64.9 66.0 65.4 65.6 64.8 64.7 65.2 64.6 64.9 64.4 64.1 63.9 64.4 64.3	27.6 26.6 27.5 25.4 23.7 24.6 25.9 27.5 24.3 27.0 23.4 26.5 24.4 25.6 25.8	69.3 69.3 70.4 69.9 70.4 69.1 69.1 69.1 68.9 68.9 68.6 68.2	60.1 59.8 59.9 60.5 60.3 59.4 59.4 59.6 59.3 60.1 59.5 59.6 59.0	29.1 25.4 25.5 25.2 28.2 22.7 23.4 23.5 21.6 26.1 25.9 26.0 23.6 25.5 26.8	63.1 63.1 63.9 63.3 62.8 62.7 63.0 62.7 63.6 62.7 62.8 62.1 62.1
May June July Aug Sept Oct Nov Dec	64.2 64.1 64.0 64.1 64.1 64.0 64.0	64.7 64.5 64.5 64.5 64.5 64.5 64.4 64.3	71.4 71.3 71.2 71.2 71.3 71.3 71.3 71.3	34.2 35.7 36.1 37.4 36.2 36.9 36.4 36.1	74.2 74.0 73.8 73.8 73.9 73.9 73.9 73.9	58.2 58.0 58.0 58.0 58.0 57.9 57.8 57.6	37.1 37.8 37.8 37.9 37.8 38.3 38.3 37.4	59.7 59.4 59.3 59.3 59.3 59.3 59.1 59.0	61.0 61.0 60.5 61.6 62.0 61.8 61.3	63.7 64.2 63.6 64.6 64.3 64.2 64.2 65.2	26.2 26.4 23.9 26.2 26.3 24.0 24.1 29.2	67.8 68.3 67.9 68.7 68.3 68.5 68.5	58.7 58.3 57.9 59.1 60.1 59.9 58.9 59.1	22.6 24.9 22.1 22.1 25.4 24.5 26.0 23.9	62.0 61.3 61.1 62.4 63.2 63.0 61.8 62.2

 $^{^{1}}$ 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, 1972-2011

-					White 2	,		,	,		Black or	r African A	merican ²	?	
V	All civilian			Males			Female	3			Males			Females	;
Year or month	work- ers	Total	Total	16–19 years	20 years and over	Total	16–19 years	20 years and over	Total	Total	16–19 years	20 years and over	Total	16–19 years	20 years and over
1972 1973 1974 1975 1976 1977 1978	57.0 57.8 57.8 56.1 56.8 57.9 59.3 59.9	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	73.0 73.7 71.9 66.5 66.8 67.5 69.1 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 1987 1988	59.2 59.0 57.8 57.9 59.5 60.1 60.7 61.5 62.3 63.0	60.0 60.0 58.8 58.9 60.5 61.0 61.5 62.3 63.1 63.8	73.4 72.8 70.6 70.4 72.1 72.3 72.3 72.7 73.2 73.7	53.4 51.3 47.0 47.4 49.1 49.9 49.6 49.9 51.7 52.6	75.6 75.1 73.0 72.6 74.3 74.3 74.3 75.1 75.1	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 48.9 50.0 51.0 52.0 53.1 54.0 54.9	52.3 51.3 49.4 49.5 52.3 53.4 54.1 55.6 56.3 56.9	60.4 59.1 56.0 56.3 59.2 60.0 60.6 62.0 62.7 62.8	27.0 24.6 20.3 20.4 23.9 26.3 26.5 28.5 29.4 30.4	65.8 64.5 61.4 61.6 64.1 64.6 65.1 66.4 67.1 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 1991 1992 1993 1994 1995 1996 1997 1998	62.8 61.7 61.5 61.7 62.5 62.9 63.2 63.8 64.1 64.3	63.7 62.6 62.4 62.7 63.5 63.8 64.1 64.6 64.7 64.8	73.3 71.6 71.1 71.4 71.8 72.0 72.3 72.7 72.7 72.8	51.0 47.2 46.4 46.6 48.3 49.4 48.2 48.1 48.6 49.3	75.1 73.5 73.1 73.3 73.6 73.8 74.2 74.7 74.7	54.7 54.2 54.2 54.6 55.8 56.1 56.3 57.0 57.1	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 61.4 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 67.5	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 2001 2001 2002 2003 2004 2005 2006 2007 2008 2009	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 56.3	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 14.3	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	58.5 58.4	59.4 59.4	65.1 65.3	27.6 27.3	67.9 68.2	54.0 53.7	30.4 30.4	55.6 55.3	52.3 51.7	53.1 52.8	14.1 14.6	57.5 56.9	51.7 50.8	14.9 14.7	55.1 54.0
2010: Jan Feb Mar Apr June July Aug Sept Oct Nov Dec 2011: Jan Feb Mar Apr May May May May May May May May	58.5 58.5 58.7 58.7 58.7 58.5 58.5 58.3 58.2 58.3 58.4 58.4 58.5 58.5	59.6 59.5 59.5 59.6 59.6 59.5 59.5 59.5	64.8 64.9 65.1 65.3 65.4 65.3 65.3 64.9 64.7 65.0 65.1 65.2 65.2 65.2	27.1 27.6 27.9 28.2 27.9 26.4 27.7 27.2 26.8 27.7 29.3 27.8 28.4 27.4 26.5	67.7 67.8 67.9 68.2 68.1 68.1 67.7 67.3 67.7 67.9 68.1 68.0 68.1 68.4	54.5 54.2 54.2 54.1 54.0 54.0 53.9 54.0 53.7 53.7 53.7 53.7 53.8 53.6 54.0 53.9 53.8	30.6 31.0 30.7 31.6 30.1 30.0 30.0 31.2 30.5 30.0 29.6 29.6 29.5 28.9 29.9 30.2 30.3	56.2 55.9 55.8 55.7 55.7 55.6 55.6 55.3 55.3 55.3 55.3 55.3	52.0 52.2 52.2 52.5 53.0 52.4 52.1 51.8 52.4 52.4 52.2 51.9 52.0 51.5 51.1	52.6 52.5 52.7 53.4 54.1 52.9 53.1 53.2 52.6 53.3 53.2 52.7 52.8 53.0 52.7 52.8 53.0	14.8 14.7 14.3 16.1 15.2 13.7 14.1 13.7 12.7 13.0 13.8 13.7 14.0 14.2 15.3 14.1 14.5	57.0 56.9 57.1 57.6 58.5 57.4 57.5 57.6 57.1 57.4 56.9 57.1 56.9	51.6 51.9 51.8 51.7 52.2 52.0 51.3 51.1 51.6 51.7 51.6 51.3 51.4 51.0 50.7	18.1 15.2 16.7 15.2 16.5 14.2 14.7 14.6 11.1 14.4 14.5 13.9 13.8 15.3 14.4 16.4	54.7 55.4 55.1 55.5 55.5 54.7 54.8 55.0 55.1 54.7 54.7 54.3 53.7
June July Aug Sept Oct Nov Dec	58.2 58.2 58.3 58.4 58.4 58.5 58.5	59.3 59.3 59.4 59.4 59.3 59.5 59.5	65.2 65.2 65.3 65.4 65.2 65.6 65.8	26.8 27.0 27.4 27.2 27.4 27.4 27.4	68.0 68.0 68.1 68.2 68.1 68.5 68.6	53.6 53.6 53.6 53.6 53.7 53.5 53.5	30.4 29.9 30.9 31.3 31.5 31.5 30.9	55.2 55.2 55.2 55.1 55.1 55.0 55.0	51.1 50.9 51.3 52.1 52.5 51.8 52.1	52.8 52.3 52.2 52.9 53.4 53.1 54.0	15.5 14.9 14.5 14.9 14.7 13.8 15.1	56.8 56.3 56.3 57.0 57.5 57.3 58.2	49.8 49.7 50.6 51.5 51.8 50.7 50.4	15.4 13.2 11.5 14.3 15.6 16.4 15.6	52.9 52.9 54.1 54.8 55.0 53.7 53.5

 $^{^1}$ 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, 1965-2011

[Percent 1; monthly data seasonally adjusted, except as noted]

	Ι								Ι .	<u> </u>					
	All		Males			Female	S	Both		Ву	race		Hispanic	Married	Women
Year or month	civilian work- ers	Total	16–19 years	20 years and over	Total	16–19 years	20 years and over	sexes 16–19 years	White ²	Black and other ²	Black or African Ameri- can ²	Asian (NSA) ^{2, 3}	or Latino ethnic- ity ⁴	men, spouse pres- ent	who maintain families (NSA) ³
1965 1966 1967 1968 1969	4.5 3.8 3.8 3.6 3.5 4.9	4.0 3.2 3.1 2.9 2.8 4.4	14.1 11.7 12.3 11.6 11.4	3.2 2.5 2.3 2.2 2.1	5.5 4.8 5.2 4.8 4.7	15.7 14.1 13.5 14.0 13.3	4.5 3.8 4.2 3.8 3.7 4.8	14.8 12.8 12.9 12.7 12.2	4.1 3.4 3.4 3.2 3.1 4.5	8.1 7.3 7.4 6.7 6.4 8.2				2.4 1.9 1.8 1.6 1.5	4.9 4.4 4.4
1970 1971 1972 1973 1974 1975	5.9 5.6 4.9 5.6 8.5 7.7	5.3 5.0 4.2 4.9 7.9 7.1	15.0 16.6 15.9 13.9 15.6 20.1 19.2	3.5 4.4 4.0 3.3 3.8 6.8 5.9	5.9 6.9 6.6 6.0 6.7 9.3 8.6	15.6 17.2 16.7 15.3 16.6 19.7 18.7	5.7 5.4 4.9 5.5 8.0 7.4	15.3 16.9 16.2 14.5 16.0 19.9	5.4 5.1 4.3 5.0 7.8 7.0	9.9 10.0 9.0 9.9 13.8 13.1	10.4 9.4 10.5 14.8 14.0		7.5 8.1 12.2 11.5	2.6 3.2 2.8 2.3 2.7 5.1 4.2	5.4 7.3 7.2 7.1 7.0 10.0 10.1
1977 1978 1979 1980	7.1 6.1 5.8 7.1	6.3 5.3 5.1 6.9	17.3 15.8 15.9 18.3	5.2 4.3 4.2 5.9	8.2 7.2 6.8 7.4	18.3 17.1 16.4 17.2	7.0 6.0 5.7 6.4	17.8 16.4 16.1 17.8	6.2 5.2 5.1 6.3	13.1 11.9 11.3 13.1	14.0 12.8 12.3 14.3		10.1 9.1 8.3 10.1	3.6 2.8 2.8 4.2	9.4 8.5 8.3 9.2
1981 1982 1983 1984 1985 1986 1987	7.6 9.7 9.6 7.5 7.2 7.0 6.2	7.4 9.9 9.9 7.4 7.0 6.9 6.2	20.1 24.4 23.3 19.6 19.5 19.0 17.8	6.3 8.8 8.9 6.6 6.2 6.1 5.4	7.9 9.4 9.2 7.6 7.4 7.1 6.2	19.0 21.9 21.3 18.0 17.6 17.6 15.9	6.8 8.3 8.1 6.8 6.6 6.2 5.4	19.6 23.2 22.4 18.9 18.6 18.3 16.9	6.7 8.6 8.4 6.5 6.2 6.0 5.3	14.2 17.3 17.8 14.4 13.7 13.1 11.6	15.6 18.9 19.5 15.9 15.1 14.5 13.0		10.4 13.8 13.7 10.7 10.5 10.6 8.8	4.3 6.5 6.5 4.6 4.3 4.4 3.9	10.4 11.7 12.2 10.3 10.4 9.8 9.2
1988 1989 1990 1991 1992 1993	5.5 5.3 5.6 6.8 7.5 6.9	5.5 5.2 5.7 7.2 7.9 7.2	16.0 15.9 16.3 19.8 21.5 20.4	4.8 4.5 5.0 6.4 7.1 6.4	5.6 5.4 5.5 6.4 7.0 6.6	14.4 14.0 14.7 17.5 18.6	4.9 4.7 4.9 5.7 6.3	15.3 15.0 15.5 18.7 20.1 19.0	4.7 4.5 4.8 6.1 6.6 6.1	10.4 10.0 10.1 11.1 12.7 11.7	11.7 11.4 11.4 12.5 14.2 13.0		8.2 8.0 8.2 10.0 11.6 10.8	3.3 3.0 3.4 4.4 5.1 4.4	8.1 8.3 9.3 10.0 9.7
1993 1994 1995 1996 1997 1998	6.9 6.1 5.6 5.4 4.9 4.5 4.2	7.2 6.2 5.6 5.4 4.9 4.4 4.1	19.0 18.4 18.1 16.9 16.2 14.7	5.4 4.8 4.6 4.2 3.7 3.5	5.6 5.4 5.0 4.6 4.3	17.5 16.2 16.1 15.2 15.0 12.9 13.2	5.9 5.4 4.9 4.8 4.4 4.1 3.8	17.6 17.3 16.7 16.0 14.6 13.9	5.3 4.9 4.7 4.2 3.9 3.7	11.7 10.5 9.6 9.3 8.8 7.8 7.0	11.5 10.4 10.5 10.0 8.9 8.0		9.9 9.3 8.9 7.7 7.2 6.4	3.7 3.3 3.0 2.7 2.4 2.2	8.9 8.0 8.2 8.1 7.2 6.4
2000 2001 2002 2003 2004 2005 2006 2007 2008 2009	4.0 4.7 5.8 6.0 5.5 5.1 4.6 4.6 5.8 9.3	3.9 4.8 5.9 6.3 5.6 5.1 4.6 4.7 6.1 10.3	14.0 16.0 18.1 19.3 18.4 18.6 16.9 17.6 21.2 27.8	3.3 4.2 5.3 5.6 5.0 4.4 4.0 4.1 5.4 9.6	4.1 4.7 5.6 5.7 5.4 5.1 4.6 4.5 5.4 8.1	12.1 13.4 14.9 15.6 15.5 14.5 13.8 16.2 20.7	3.6 4.1 5.1 5.1 4.9 4.6 4.1 4.0 7.5	13.1 14.7 16.5 17.5 17.0 16.6 15.4 15.7 18.7 24.3	3.5 4.2 5.1 5.2 4.8 4.4 4.0 4.1 5.2 8.5		7.6 8.6 10.2 10.8 10.4 10.0 8.9 8.3 10.1	3.6 4.5 5.9 6.0 4.4 4.0 3.0 3.2 4.0 7.3	5.7 6.6 7.5 7.7 7.0 6.0 5.2 5.6 7.6	2.0 2.7 3.6 3.8 3.1 2.8 2.4 2.5 3.4 6.6	5.9 6.6 8.0 8.5 8.0 7.8 7.1 6.5 8.0
2010 2011 2010: Jan Feb	9.6 8.9 9.7 9.8	10.5 9.4 10.9 10.8	28.8 27.2 30.3 28.5	9.8 8.7 10.1 10.2	8.6 8.5 8.4 8.6	22.8 21.7 21.4 22.4 22.4	8.0 7.9 7.9 8.0	25.9 24.4 25.9	8.7 7.9 8.7 8.9		16.0 15.8 16.5 16.0	7.5 7.0 8.4 8.4	12.5 11.5 12.6 12.4	6.8 5.8 6.8 6.9	12.3 12.4 12.3
Mar Apr May June July Aug Sept Oct Nov Dec	9.8 9.9 9.6 9.4 9.5 9.5 9.5 9.8 9.4	10.9 10.8 10.4 10.4 10.4 10.4 10.3 10.2 10.5 10.0 9.6	29.8 29.1 28.3 29.4 29.0 29.0 28.9 29.1 26.4 27.8	10.1 10.1 9.7 9.8 9.6 9.7 9.6 9.5 9.9 9.4	8.6 8.8 8.3 8.5 8.6 8.5 8.6 8.6 8.6	22.4 22.1 25.1 22.4 22.7 22.5 22.7 24.9 22.4 22.6 23.6	8.0 8.2 8.0 7.7 7.9 8.0 7.9 8.1 8.4 8.1	25.4 26.2 25.7 26.7 25.9 25.9 25.8 27.0 24.5 25.2	8.8 9.0 8.8 8.6 8.6 8.6 8.6 8.6 8.9 8.5		16.7 16.4 15.4 15.2 15.7 16.1 16.0 15.9 16.1 15.8	7.5 6.8 7.5 7.7 8.2 7.2 6.4 7.1 7.6 7.2	12.6 12.4 12.3 12.4 12.2 12.1 12.4 12.5 13.1 12.9	6.9 6.8 6.8 6.5 6.7 6.6 6.8 6.9 6.5	11.6 11.3 11.0 11.6 12.1 13.4 12.9 12.4 13.0 12.0
Feb Mar Apr May June July Aug Sept Oct Nov Dec	9.0 8.9 9.0 9.1 9.1 9.1 9.0 8.9 8.7 8.5	9.4 9.4 9.5 9.5 9.7 9.6 9.5 9.4 9.4 8.9	25.9 26.4 28.1 27.0 27.4 27.2 28.1 27.8 27.3 26.6 26.6	8.8 8.7 8.8 8.9 9.0 8.9 8.8 8.7 8.7 8.3 8.0	8.5 8.3 8.4 8.5 8.5 8.5 8.6 8.4 8.3	21.8 22.6 21.6 21.3 21.7 22.5 22.4 21.1 20.6 20.7 19.3	7.9 7.8 7.9 8.0 7.9 7.9 8.1 7.9 7.8 7.9	23.9 24.5 24.9 24.1 24.6 24.9 25.3 24.5 24.0 23.7 23.1	8.0 7.9 8.1 8.0 8.1 7.9 7.9 8.0 7.6 7.5		15.4 15.6 16.2 16.2 16.2 15.9 16.7 15.9 15.0 15.5	6.8 7.1 6.4 7.0 6.8 7.7 7.1 7.8 7.3 6.5 6.8	11.6 11.3 11.8 11.6 11.3 11.3 11.3 11.4 11.4	5.8 6.0 6.1 6.0 6.1 5.8 5.8 5.8 5.3	13.0 12.3 11.7 12.7 12.8 12.1 11.9 12.4 12.3 12.4 12.9

Unemployed as percent of civilian labor force in group specified.
 See footnote 1, Table B–37.
 Not seasonally adjusted (NSA).

⁴ 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, 1972-2011

					White 2					-	Black or	African A	merican ²	!	
	All			Males			Females				Males			Females	
Year or month	civilian work- ers	Total	Total	16–19 years	20 years and over	Total	16–19 years	20 years and over	Total	Total	16–19 years	20 years and over	Total	16–19 years	20 years and over
1972 1973 1974 1975 1976 1976 1977 1978 1980 1981 1982 1983 1984 1985 1985 1986 1987 1988	5.6 4.9 5.6 8.5 7.7 7.1 6.1 5.8 7.1 7.6 9.7 7.5 7.2 7.0 6.2 5.5 5.3	5.1 4.3 5.0 7.8 7.0 6.2 5.2 5.1 6.3 6.7 8.4 6.5 6.2 6.2 6.2 6.2 6.3 4.7 4.5	4.5 3.8 4.4 7.2 6.4 5.5 4.6 4.5 6.1 6.5 8.8 8.8 6.4 4.7 4.5 5.4 6.1 6.1 6.4 6.1 6.4 6.4 6.4 6.4 6.4 6.4 6.4 6.4 6.4 6.4	14.2 12.3 13.5 18.3 17.3 15.0 13.5 13.9 16.2 17.9 21.7 20.2 16.8 16.5 16.5 13.9 13.7	3.6 3.0 3.5 6.2 5.4 4.7 3.7 3.6 5.8 7.9 5.7 5.4 4.1 3.9 4.3	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 6.4 6.4 6.4 6.4 6.4 6.4 6.4 6.4 6.4	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 13.4 12.3 11.5	4.9 4.3 5.1 7.5 6.2 5.0 5.6 5.9 7.3 6.9 5.8 5.7 5.4 4.1 4.0	10.4 9.4 10.5 14.8 14.0 12.8 12.3 15.6 18.9 19.5 15.1 14.5 13.0 11.7	9.3 8.0 9.8 14.8 13.3 11.8 11.4 14.5 15.7 20.1 20.3 16.4 15.3 14.8 12.7 11.7 11.5	31.7 27.8 33.1 38.1 37.5 39.2 36.7 34.2 37.5 40.7 48.8 42.7 41.0 39.3 34.4 32.7 31.9 31.9	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 11.1 10.0	11.8 11.1 11.3 14.8 14.9 13.8 13.3 14.0 15.6 17.6 18.6 15.4 14.9 14.9 14.2 13.2	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 39.2 39.2 39.2 39.2 39.9	9.0 8.6 8.8 12.2 11.7 12.3 11.2 10.9 13.4 15.4 16.5 13.5 13.1 12.4 11.6 9.8 9.7
1991 1992 1993 1994 1995 1996 1997 1998	6.8 7.5 6.9 6.1 5.6 5.4 4.9 4.5 4.2	6.1 6.6 6.1 5.3 4.9 4.7 4.2 3.9 3.7	6.5 7.0 6.3 5.4 4.9 4.7 4.2 3.9 3.6	17.6 18.5 17.7 16.3 15.6 15.5 14.3 14.1	5.8 6.4 5.7 4.8 4.3 4.1 3.6 3.2 3.0	5.6 6.1 5.7 5.2 4.8 4.7 4.2 3.9 3.8	15.2 15.8 14.7 13.8 13.4 12.9 12.8 10.9 11.3	5.0 5.5 5.2 4.6 4.3 4.1 3.7 3.4 3.3	12.5 14.2 13.0 11.5 10.4 10.5 10.0 8.9 8.0	13.0 15.2 13.8 12.0 10.6 11.1 10.2 8.9 8.2	36.3 42.0 40.1 37.6 37.1 36.9 36.5 30.1 30.9	11.5 13.5 12.1 10.3 8.8 9.4 8.5 7.4 6.7	12.0 13.2 12.1 11.0 10.2 10.0 9.9 9.0 7.8	36.0 37.2 37.4 32.6 34.3 30.3 28.7 25.3 25.1	10.6 11.8 10.7 9.8 8.6 8.7 8.8 7.9 6.8
2000 2001 2001 2002 2003 2004 2005 2006 2007 2008 2009	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 9.4	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 3.7 4.9 8.8	3.6 4.1 4.9 4.8 4.7 4.4 4.0 4.9 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 17.5	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 12.4	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	9.6 8.9 9.7 9.8 9.8 9.9 9.6 9.4 9.5 9.5 9.5 9.8 9.8	8.7 7.9 8.7 8.9 8.8 9.0 8.8 8.6 8.6 8.6 8.6 8.7 8.6 8.8 8.9	9.6 8.3 9.9 9.8 9.7 10.0 9.4 9.4 9.5 9.4 9.3 9.7 9.1	26.3 24.5 27.8 25.7 27.3 27.1 26.6 27.0 26.1 26.5 25.6 23.2 25.9	8.9 7.7 9.2 9.0 9.3 8.8 8.8 8.9 8.7 9.2 8.5	7.7 7.5 7.4 7.8 7.9 8.0 7.6 7.6 7.7 7.8 8.0 7.7	20.0 18.9 18.3 20.1 20.3 19.5 22.8 19.3 20.2 20.1 20.2 20.9 18.6 19.4	7.2 7.0 6.9 7.3 7.3 7.3 7.1 7.1 7.1 7.1 7.2 7.6 7.2	16.0 15.8 16.5 16.0 16.7 16.4 15.2 15.7 16.1 16.0 15.9 16.1	18.4 17.8 19.0 19.0 20.2 18.4 17.5 18.3 17.9 18.6 17.9	45.4 43.1 46.4 44.9 47.9 36.6 35.9 44.3 45.6 50.1 48.0 52.4 48.9 41.4	17.3 16.7 17.8 17.9 19.0 17.6 16.8 17.3 16.8 17.0 17.4 16.4	13.8 14.1 14.2 13.2 13.4 14.6 13.5 12.5 13.7 14.0 13.7 14.1 14.4	40.5 39.4 37.6 40.3 34.5 39.8 41.5 37.6 37.3 38.1 48.6 44.8 43.8	12.8 13.2 13.2 12.2 12.6 13.7 12.3 11.6 12.9 13.2 12.6 13.0
Z011: Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec	9.1 9.0 8.9 9.0 9.1 9.1 9.1 9.0 8.9 8.7 8.5	8.1 8.0 7.9 8.1 8.0 8.1 7.9 7.9 8.0 7.6 7.5	8.5 8.4 8.5 8.6 8.5 8.4 8.3 8.5 7.9 7.6	24.3 22.9 23.4 24.9 22.5 25.0 25.3 26.8 24.9 25.5 24.6 23.2	7.9 7.8 8.0 7.9 8.0 7.9 7.7 7.7 7.8 7.3 7.1	7.5 7.6 7.4 7.5 7.5 7.6 7.5 7.5 7.4 7.3 7.2	20.7 19.7 19.5 19.4 18.3 18.6 20.8 18.5 17.4 17.7 18.0 17.3	7.0 7.1 6.9 7.0 7.1 7.0 7.0 7.1 7.0 6.9 6.8	15.7 15.4 15.6 16.2 16.2 15.9 16.7 15.9 15.0 15.5	17.9 17.3 17.8 18.1 18.5 17.8 17.8 19.1 17.7 16.9 17.3	47.2 41.6 40.3 45.5 44.8 41.3 37.9 44.9 43.5 38.7 42.7 48.3	16.6 16.4 16.8 17.0 17.4 16.9 17.0 18.0 16.6 16.0 16.4	13.8 13.7 13.7 14.4 14.1 14.6 14.2 14.5 14.3 13.4 13.9 14.6	42.3 35.2 43.5 37.3 36.3 38.3 40.3 48.0 43.6 36.4 36.8 34.6	12.8 13.0 12.5 13.5 13.4 13.7 13.4 13.2 12.6 13.0 13.9

 $^{^{\}rm 1}$ 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, 1965-2011

[Thousands of persons, except as noted; monthly data seasonally adjusted 1]

		[1110		ration of u		ent	ontiny dat	a sousone		eason for u	nemploym	ent	
Year or month	Un- employ-	Less			27	Average	Median		Job losers 4	1			
	ment	than 5 weeks	5–14 weeks	15–26 weeks	weeks and over	(mean) duration (weeks) ³	duration (weeks)	Total	On layoff	Other	Job leavers	Re- entrants	New entrants
1965	3,366 2,875	1,628 1,573	983 779	404 287	351 239	11.8 10.4							
1965 1966 1967 ² 1968 1969	2,975 2,817 2,832	1,634 1,594 1,629	893 810 827	271 256 242	177 156 133	8.7 8.4 7.8	2.3 4.5 4.4	1,229 1,070 1,017	394 334 339	836 736 678	438 431 436	945 909 965	396 407 413
1970 1971 1972 1973 1974 1975 1976 1977 1978 1979	4,093 5,016 4,882 4,365 5,156 7,929 7,406 6,991 6,202	2,139 2,245 2,242 2,224 2,604 2,940 2,844 2,919 2,865	1,290 1,585 1,472 1,314 1,597 2,484 2,196 2,132 1,923	428 668 601 483 574 1,303 1,018 913 766	235 519 566 343 381 1,203 1,348 1,028 648	8.6 11.3 12.0 10.0 9.8 14.2 15.8 14.3 11.9	4.9 6.3 6.2 5.2 5.2 8.4 8.2 7.0 5.9	1,811 2,323 2,108 1,694 2,242 4,386 3,679 3,166 2,585	675 735 582 472 746 1,671 1,050 865 712	1,137 1,588 1,526 1,221 1,495 2,714 2,628 2,300 1,873	550 590 641 683 768 827 903 909 874	1,228 1,472 1,456 1,340 1,463 1,892 1,928 1,963 1,857	504 630 677 649 681 823 895 953 885
1979 1980 1981 1982 1983 1984 1985 1986 1987 1988	6,137 7,637 8,273 10,678 10,717 8,539 8,312 8,237 7,425 6,701 6,528	2,950 3,295 3,449 3,883 3,570 3,350 3,498 3,448 3,246 3,084 3,174	1,946 2,470 2,539 3,311 2,937 2,451 2,509 2,557 2,196 2,007 1,978	706 1,052 1,122 1,708 1,652 1,104 1,025 1,045 943 801 730	535 820 1,162 1,776 2,559 1,634 1,280 1,187 1,040 809 646	10.8 11.9 13.7 15.6 20.0 18.2 15.6 15.0 14.5 13.5	5.4 6.5 6.9 8.7 10.1 7.9 6.8 6.9 6.5 5.9 4.8	2,635 3,947 4,267 6,268 6,258 4,421 4,139 4,033 3,566 3,092 2,983	851 1,488 1,430 2,127 1,780 1,171 1,157 1,090 943 851 850	1,784 2,459 2,837 4,141 4,478 3,250 2,982 2,943 2,623 2,241 2,133	880 891 923 840 830 823 877 1,015 965 983 1,024	1,806 1,927 2,102 2,384 2,412 2,184 2,256 2,160 1,974 1,809 1,843	817 872 981 1,185 1,216 1,110 1,039 1,029 920 816 677
1990 1991 1992 1993 1993 1995 1996 1997 1997	7,047 8,628 9,613 8,940 7,996 7,404 7,236 6,739 6,210 5,880	3,265 3,480 3,376 3,262 2,728 2,700 2,633 2,538 2,622 2,568	2,257 2,791 2,830 2,584 2,408 2,342 2,287 2,138 1,950 1,832	822 1,246 1,453 1,297 1,237 1,085 1,053 995 763 755	703 1,111 1,954 1,798 1,623 1,278 1,262 1,067 875 725	12.0 13.7 17.7 18.0 18.8 16.6 16.7 15.8 14.5	5.3 6.8 8.7 8.3 9.2 8.3 8.0 6.7 6.4	3,387 4,694 5,389 4,848 3,815 3,476 3,370 3,037 2,822 2,622	1,028 1,292 1,260 1,115 977 1,030 1,021 931 866 848	2,359 3,402 4,129 3,733 2,838 2,446 2,349 2,106 1,957 1,774	1,041 1,004 1,002 976 791 824 774 795 734	1,930 2,139 2,285 2,198 2,786 2,525 2,512 2,338 2,132 2,005	688 792 937 919 604 579 580 569 520 469
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	2,558 2,853 2,893 2,785 2,696 2,667 2,614 2,542 2,932 3,165	1,815 2,196 2,580 2,612 2,382 2,304 2,121 2,232 2,804 3,828	669 951 1,369 1,442 1,293 1,130 1,031 1,061 1,427 2,775	649 801 1,535 1,936 1,779 1,490 1,235 1,243 1,761 4,496	12.6 13.1 16.6 19.2 19.6 18.4 16.8 17.9 24.4	5.9 6.8 9.1 10.1 9.8 8.9 8.3 8.5 9.4	2,517 3,476 4,607 4,838 4,197 3,667 3,321 3,515 4,789 9,160	852 1,067 1,124 1,121 998 933 921 976 1,176 1,630	1,664 2,409 3,483 3,717 3,199 2,734 2,400 2,539 3,614 7,530	780 835 866 818 858 872 827 793 896 882	1,961 2,031 2,368 2,477 2,408 2,386 2,237 2,142 2,472 3,187	434 459 536 641 686 666 616 627 766 1,035
2010	14,825 13,747 14,953 15,039 15,128 15,221 14,876 14,517	2,771 2,677 2,909 2,760 2,691 2,696 2,775 2,758	3,267 2,993 3,383 3,369 3,258 3,055 3,110 3,149	2,371 2,061 2,603 2,718 2,495 2,341 2,210 2,263	6,415 6,016 6,322 6,207 6,556 6,730 6,687 6,652	33.0 39.3 30.3 29.8 31.4 33.1 33.9 34.5	21.4 21.4 20.1 19.9 20.4 22.0 22.5 25.0	9,250 8,106 9,327 9,570 9,508 9,328 9,220 9,085	1,431 1,230 1,477 1,545 1,629 1,350 1,452 1,393	7,819 6,876 7,851 8,025 7,879 7,978 7,768 7,692	889 956 908 884 897 930 975 891	3,466 3,401 3,640 3,465 3,567 3,753 3,417 3,249	1,220 1,284 1,187 1,208 1,171 1,203 1,209 1,168
July	14,609 14,735 14,574 14,636 15,104 14,393	2,829 2,730 2,819 2,664 2,875 2,701	3,057 3,549 3,321 3,370 3,310 3,167	2,192 2,166 2,301 2,451 2,427 2,191	6,503 6,242 6,093 6,215 6,320 6,421	33.7 33.6 33.5 34.3 34.2 34.9	21.8 20.5 20.1 21.5 21.5 22.3	9,029 9,191 9,170 8,916 9,462 8,877	1,234 1,486 1,341 1,261 1,450 1,366	7,795 7,706 7,828 7,655 8,012 7,511	899 867 805 849 857 920	3,419 3,377 3,410 3,493 3,443 3,406	1,204 1,272 1,180 1,277 1,274 1,306
2011: Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec	13,919 13,751 13,628 13,792 13,892 14,024 13,908 13,920 13,897 13,759 13,323 13,097	2,659 2,408 2,437 2,725 2,687 3,068 2,675 2,734 2,743 2,676 2,510 2,669	3,012 3,080 2,927 2,931 2,912 2,976 3,063 3,019 2,902 3,285 2,896 2,858	2,253 2,195 1,991 2,058 1,994 1,874 1,972 2,203 2,029 2,029 2,087 2,039	6,205 6,014 6,130 5,860 6,204 6,263 6,162 6,015 6,197 5,839 5,680 5,588	37.1 37.4 38.9 38.3 39.6 39.8 40.2 40.3 40.4 39.2 40.9	21.7 21.1 21.6 20.8 21.9 22.1 21.2 21.7 21.8 20.8 21.5 21.0	8,463 8,337 8,244 8,181 8,250 8,233 8,146 8,120 8,028 7,924 7,599 7,602	1,241 1,261 1,209 1,241 1,218 1,253 1,246 1,237 1,195 1,226 1,181 1,216	7,222 7,076 7,035 6,941 7,031 6,980 6,900 6,883 6,833 6,699 6,418 6,386	914 904 900 944 919 971 936 973 972 1,068 1,005	3,351 3,354 3,278 3,387 3,436 3,431 3,424 3,519 3,484 3,387 3,355 3,399	1,337 1,315 1,335 1,322 1,229 1,227 1,274 1,249 1,323 1,291 1,276 1,280

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, 1980-2011

[Thousands of persons, except as noted]

	All prog	grams ¹			Regi	ular 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
1980		16.668	86,918	3.356	488	59	employment 3.9	dollars) 14.887	(dollars) ⁵ 99.06
1981 1982 1983 1984 1986 1986 1987 1988	3,521 3,248 4,836 5,216 3,160 2,751 2,667 2,349 2,122 2,158	15,910 26,649 31,615 18,201 16,444 16,325 14,632 13,500 14,618	87,783 86,148 86,867 91,378 94,027 95,946 98,760 101,987 104,750	3,045 4,059 3,395 2,475 2,617 2,621 2,300 2,081 2,156	460 583 438 377 397 378 328 310 330	57 80 80 50 49 52 46 38 37	3.5 4.7 3.9 2.7 2.8 2.7 2.3 2.0 2.1	14,567 14,568 21,769 19,025 13,642 14,941 16,188 14,561 13,483 14,603	106.61 119.34 123.59 123.47 128.09 135.65 140.39 144.74 151.43
1990 1991 1992 1993 1994 1995 1996 1997 1998	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 1.7	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	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 51 66 145	1.6 2.3 2.8 2.8 2.3 2.0 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 <i>P</i>	9,724 7,717	150,029 107,452	125,816 126,603	4,487 3,681	454 406	122 93	3.6 2.9	59,771 48,520	299.31 295.79
2010: Jan	12,364 11,357 12,804 10,599 10,746 10,315 9,201 11,335 9,366 9,222 9,672 9,436	14,455.6 13,847.3 16,198.3 12,782.8 12,280.0 12,514.1 10,700.9 13,585.1 11,124.3 10,494.1 11,265.4 10,781.2	123,206 123,394 124,351 125,714 126,685 127,112 124,897 125,379 126,504 127,389 127,591	6,114 5,530 6,050 4,949 4,782 4,758 4,551 4,936 4,046 3,944 4,256 4,413	640 484 496 482 421 497 502 440 402 442 498 595	157 137 159 141 137 141 130 135 114 111 111	5.0 4.5 4.9 3.9 3.8 3.7 3.6 3.9 3.2 3.1 3.3 3.5	6,230.0 5,963.6 6,739.1 5,207.6 4,754.0 5,038.8 4,445.0 4,796.8 4,070.5 3,763.2 4,261.1 4,501.3	306.25 305.81 304.77 303.64 301.68 297.98 294.37 290.59 295.30 294.44 292.07 296.28
2011: Jan	10,646 8,971 9,328 8,113 8,831 7,958 8,252 6,849 7,406 8,746 7,330	11,116.8 9,904.7 10,780.0 8,846.7 9,302.9 8,812.7 8,127.3 9,125.4 7,589.3 7,610.1 8,109.3 8,126.4	124,494 125,059 125,943 127,392 128,197 128,530	5,209 4,450 4,545 3,862 4,094 3,688 3,887 4,013 3,305 3,582 3,533 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 89	4.2 3.6 3.6 3.0 3.2 2.9	5,085.6 4,643.6 4,982.6 3,950.1 4,033.2 3,808.6 3,662.3 4,115.5 3,348.4 3,435.7 3,662.3 3,791.7	296.92 299.06 299.68 298.18 295.89 293.63 289.72 289.00 296.37 295.07 296.08 298.39

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 (2008-2011), and Federal Additional Compensation (2009-2010).

Note: Includes data for the District of Columbia, Puerto Rico, and the Virgin Islands.

Source: Department of Labor (Employment and Training Administration).

² The number of people continuing to receive benefits.

³ Workers covered by regular State Unemployment Insurance programs.

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, 1967-2011

[Thousands of persons; monthly data seasonally adjusted]

							ndustries	<u> </u>			
	Total			(Goods-produc	ing industrie	S		Private ser	vice-providing	g industries
Year or month	non- agricultural employ-	Total private		Mining	Con-	N	Manufacturin	g		Trade, tran and ut	sportation, ilities ¹
	ment	private	Total	and logging	struc- tion	Total	Durable goods	Non- durable goods	Total	Total	Retail trade
1967 1968 1969	65,931 68,023 70,512	54,406 56,050 58,181	21,882 22,292 22,893	679 671 683	3,305 3,410 3,637	17,897 18,211 18,573	10,952 11,137 11,396	6,945 7,074 7,177	32,524 33,759 35,288	12,950 13,334 13,853	6,711 6,977 7,295
1970 1971 1972 1973 1974 1975 1976 1977 1977	71,006 71,335 73,798 76,912 78,389 77,069 79,502 82,593 86,826 89,932	58,318 58,323 60,333 63,050 64,086 62,250 64,501 67,334 71,014 73,864	22,179 21,602 22,299 23,450 23,364 21,318 22,025 22,972 24,156 24,997	677 658 672 693 755 802 832 865 902 1,008	3,654 3,770 3,957 4,167 4,095 3,608 3,662 3,940 4,322 4,562	17,848 17,174 17,669 18,589 18,514 16,909 17,531 18,167 18,932 19,426	10,762 10,229 10,630 11,414 11,432 10,266 10,640 11,132 11,770 12,220	7,086 6,944 7,039 7,176 7,082 6,643 6,891 7,035 7,162 7,206	36,139 36,721 38,034 39,600 40,721 40,932 42,476 44,362 46,858 48,868	14,144 14,318 14,788 15,349 15,693 15,606 16,128 16,765 17,658 18,303	7,463 7,657 8,038 8,371 8,536 8,600 8,966 9,359 9,879 10,180
1980 1981 1982 1983 1984 1985 1986 1987 1988	90,528 91,289 89,677 90,280 94,530 97,511 99,474 102,088 105,345 108,014	74,154 75,109 73,695 74,269 78,371 80,978 82,636 84,932 87,806 90,087	24,263 24,118 22,550 22,110 23,435 23,585 23,318 23,470 23,909 24,045	1,077 1,180 1,163 997 1,014 974 829 771 770 750	4,454 4,304 4,024 4,065 4,501 4,793 4,937 5,090 5,233 5,309	18,733 18,634 17,363 17,048 17,920 17,819 17,552 17,609 17,906 17,985	11,679 11,611 10,610 10,326 11,050 11,034 10,795 10,767 10,969 11,004	7,054 7,023 6,753 6,722 6,870 6,784 6,757 6,842 6,938 6,981	49,891 50,991 51,145 52,160 54,936 57,393 59,318 61,462 63,897 66,042	18,413 18,604 18,457 18,668 19,653 20,379 20,795 21,302 21,974 22,510	10,244 10,364 10,372 10,635 11,223 11,733 12,078 12,419 12,808 13,108
1990 1991 1992 1993 1994 1995 1996 1997 1997	109,487 108,375 108,726 110,844 114,291 117,298 119,708 122,776 125,930 128,993	91,072 89,829 89,940 91,855 95,016 97,865 100,169 103,113 106,021 108,686	23,723 22,588 22,095 22,219 22,774 23,156 23,409 23,886 24,354 24,465	765 739 689 666 659 641 637 654 645 598	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 67,241 67,845 69,636 72,242 74,710 76,760 79,227 81,667 84,221	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	131,785 131,826 130,341 129,999 131,435 133,703 136,086 137,598 136,790 130,807	110,995 110,708 108,828 108,416 109,814 111,899 114,113 115,380 114,281 108,252	24,649 23,873 22,557 21,816 21,882 22,190 22,531 22,233 21,334 18,557	599 606 583 572 591 628 684 724 767	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 14,510 14,315 14,226 14,155 13,879 13,406 11,847	10,877 10,336 9,485 8,964 8,925 8,956 8,981 8,808 8,463 7,284	6,386 6,105 5,774 5,546 5,390 5,271 5,174 5,071 4,943 4,563	86,346 86,834 86,271 86,600 87,932 89,709 91,582 93,147 92,947 89,695	26,225 25,983 25,497 25,287 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
2010 2011 <i>P</i>	129,818 131,159	107,337 109,080	17,755 18,037	705 787	5,526 5,526	11,524 11,723	7,067 7,284	4,457 4,439	89,582 91,043	24,605 24,921	14,414 14,564
2010: Jan Feb Mar June July June June July June June June July June June July Aug Sept Oct Nov P Dec P	129,281 129,243 129,713 130,173 130,173 129,981 129,987 129,987 130,016 130,026 130,256 130,256 130,257 131,077 131,077 131,177 131,178 131,478 131,478 131,474 131,170 131,700	106,793 106,791 106,916 107,145 107,193 107,258 107,351 107,451 107,570 107,750 107,750 108,803 108,907 108,907 109,170 109,242 109,596 109,716	17,717 17,667 17,763 17,763 17,763 17,763 17,791 17,784 17,785 17,793 17,795 17,916 17,956 18,018 18,018 18,018 18,111 18,111 18,111	667 672 680 687 698 704 711 719 725 734 739 744 759 759 780 780 780 800 806 801 812 817	5,585 5,583 5,550 5,560 5,520 5,511 5,500 5,514 5,512 5,504 5,514 5,512 5,522 5,526 5,522 5,526 5,527 5,528 5,529 5,529 5,521 5,518 5,529	11,465 11,471 11,508 11,548 11,554 11,551 11,555 11,555 11,665 11,675 11,700 11,724 11,757 11,756 11,766 11,766 11,766 11,766 11,767 11,757	6,999 6,994 7,010 7,039 7,065 7,079 7,114 7,092 7,095 7,097 7,113 7,126 7,183 7,211 7,232 7,253 7,271 7,284 7,313 7,308 7,314 7,329 7,342 7,342	4,466 4,461 4,470 4,471 4,469 4,469 4,469 4,459 4,441 4,433 4,443 4,443 4,443 4,443 4,443 4,444 4,443 4,443 4,443 4,449 4,444 4,443 4,449 4,444 4,443 4,449	89,076 89,105 89,215 89,230 89,430 89,430 89,430 89,671 89,786 89,928 90,247 90,626 90,824 90,9362 91,187 91,761 91,7605 91,7605	24,536 24,556 24,559 24,551 24,587 24,601 24,601 24,601 24,670 24,670 24,740 24,740 24,774 24,779 24,870 24,870 24,919 24,919 24,919 24,919 24,919 24,919 25,010 25	14,383 14,384 14,408 14,421 14,421 14,409 14,419 14,413 14,430 14,457 14,472 14,472 14,539 14,551 14,539 14,551 14,650 14,650 14,650 14,650

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, 1967-2011—Continued

[Thousands of persons; monthly data seasonally adjusted]

		P	rivate industri	es—Continue	d			Gover	nment	
		Private se	rvice-providinç	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
1967 1968 1969	1,955 1,991 2,048	3,087 3,234 3,404	4,720 4,918 5,156	3,986 4,191 4,428	4,269 4,453 4,670	1,558 1,638 1,731	11,525 11,972 12,330	2,852 2,871 2,893	2,302 2,442 2,533	6,371 6,660 6,904
1970 1971 1972 1973 1974 1975 1976 1977 1977	2,041 2,009 2,056 2,135 2,160 2,061 2,111 2,185 2,287 2,375	3,532 3,651 3,784 3,920 4,023 4,047 4,155 4,348 4,599 4,843	5,267 5,328 5,523 5,774 5,974 6,034 6,287 6,587 6,972 7,312	4,577 4,675 4,863 5,092 5,322 5,497 5,756 6,052 6,427 6,767	4,789 4,914 5,121 5,341 5,471 5,544 5,794 6,065 6,411 6,631	1,789 1,827 1,900 1,990 2,078 2,144 2,244 2,359 2,505 2,637	12,687 13,012 13,465 13,862 14,303 14,820 15,001 15,258 15,812 16,068	2,865 2,828 2,815 2,794 2,858 2,882 2,863 2,859 2,893 2,894	2,664 2,747 2,859 2,923 3,039 3,179 3,273 3,377 3,474 3,541	7,158 7,437 7,790 8,146 8,407 8,758 8,865 9,023 9,446 9,633
1980	2,361 2,382 2,317 2,253 2,398 2,437 2,445 2,507 2,585 2,622	5,025 5,163 5,209 5,334 5,553 5,815 6,128 6,385 6,500 6,562	7,544 7,782 7,848 8,039 8,464 8,871 9,211 9,608 10,090	7,072 7,357 7,515 7,766 8,193 8,657 9,061 9,515 10,063 10,616	6,721 6,840 6,874 7,078 7,489 7,869 8,156 8,446 8,778 9,062	2,755 2,865 2,924 3,021 3,186 3,366 3,523 3,699 3,907 4,116	16,375 16,180 15,982 16,011 16,159 16,533 16,838 17,156 17,540 17,927	3,000 2,922 2,884 2,915 2,943 3,014 3,044 3,089 3,124 3,136	3,610 3,640 3,640 3,662 3,734 3,832 3,893 3,967 4,076 4,182	9,765 9,619 9,458 9,434 9,482 9,687 9,901 10,100 10,339 10,609
1990 1991 1992 1993 1994 1995 1996 1997 1998	2,688 2,677 2,641 2,668 2,738 2,843 2,940 3,084 3,218 3,419	6,614 6,558 6,540 6,709 6,867 6,827 6,969 7,178 7,462 7,648	10,848 10,714 10,970 11,495 12,174 12,844 13,462 14,335 15,147 15,957	10,984 11,506 11,891 12,303 12,807 13,289 13,683 14,087 14,446 14,798	9,288 9,256 9,437 9,732 10,100 10,501 10,777 11,018 11,232 11,543	4,261 4,249 4,240 4,350 4,428 4,572 4,690 4,825 4,976 5,087	18,415 18,545 18,787 18,989 19,275 19,432 19,539 19,664 19,909 20,307	3,196 3,110 3,111 3,063 3,018 2,949 2,877 2,806 2,772 2,769	4,305 4,355 4,408 4,488 4,576 4,635 4,606 4,582 4,612 4,709	10,914 11,081 11,267 11,438 11,682 11,849 12,056 12,276 12,525 12,829
2000 2001 2002 2003 2004 2005 2006 2007 2008 2009	3,630 3,629 3,395 3,188 3,118 3,061 3,038 3,032 2,984 2,804	7,687 7,808 7,847 7,977 8,031 8,153 8,328 8,301 8,145 7,769	16,666 16,476 15,976 15,987 16,394 16,954 17,566 17,942 17,735 16,579	15,109 15,645 16,199 16,588 16,953 17,372 17,826 18,322 18,838 19,193	11,862 12,036 11,986 12,173 12,493 12,816 13,110 13,427 13,436 13,077	5,367 5,258 5,372 5,401 5,409 5,395 5,438 5,494 5,515 5,367	20,790 21,118 21,513 21,583 21,621 21,804 21,974 22,218 22,509 22,555	2,865 2,764 2,766 2,761 2,730 2,732 2,732 2,734 2,762 2,832	4,786 4,905 5,029 5,002 4,982 5,032 5,075 5,122 5,177 5,169	13,139 13,449 13,718 13,820 13,909 14,041 14,167 14,362 14,571 14,554
2010 2011 ^p 2010: Jan	2,711 2,670 2,737	7,630 7,613 7.666	16,688 17,186	19,564 19,987 19.371	13,020 13,219 12.931	5,364 5,447 5.322	22,482 22,080 22,488	2,968 2,832 2,866	5,142 5,098 5,140	14,372 14,150 14.482
ZUIU: Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec 2011: Jan Feb Mar Apr June July Aug Sept Oct Nov Dec 2011: Jan Feb Mar Apr June July Aug Sept Oct Cot Cot Cot Cot Cot Cot Cot Cot Cot Co	2,731 2,731 2,716 2,716 2,716 2,701 2,701 2,897 2,897 2,694 2,684 2,684 2,684 2,684 2,684 2,682 2,687 2,682 2,687 2,682 2,687 2,682	7,666 7,657 7,643 7,648 7,640 7,618 7,616 7,616 7,617 7,607 7,607 7,609	16,514 16,546 16,615 16,640 16,683 16,681 16,711 16,719 16,759 16,844 16,953 17,711 17,155 17,155 17,155 17,153 17,283 17,283 17,283 17,283	19,371 19,399 19,455 19,482 19,508 19,535 19,531 19,612 19,632 19,732 19,789 19,832 19,855 19,905 19,905 19,905 19,905 20,036 20,038	12,931 12,932 12,963 12,996 13,018 13,018 13,013 13,051 13,103 13,072 13,057 13,071 13,125 13,171 13,200 13,175 13,200 13,175 13,200	5,3/2 5,331 5,348 5,348 5,362 5,369 5,369 5,418 5,416 5,416 5,434 5,434 5,434 5,435 5,442 5,445 5,456 5,456 5,456	22,484 22,474 22,572 22,570 22,980 22,773 22,581 22,412 22,274 22,302 22,277 22,252 22,276 22,151 22,105 22,050 22,036 22,036 22,036 22,036 22,036 22,036	2,866 2,872 2,926 3,413 3,1041 3,041 2,957 2,850 2,853 2,854 2,855 2,854	5,140 5,143 5,142 5,138 5,135 5,134 5,154 5,140 5,140 5,149 5,149 5,093 5,093 5,091 5,096 5,098 5,098	14,482 14,454 14,447 14,447 14,405 14,353 14,286 14,353 14,226 14,209 14,259 14,240 14,260 14,160 14,160 14,161 14,132 14,113 14,113

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 2007 North American Industry Classification System (NAICS).

For further description and details see Employment and Earnings.

Table B–47. Hours and earnings in private nonagricultural industries, 1965–2011 $^{\rm 1}$ [Monthly data seasonally adjusted]

	Δνει	age weekly h	nurs	Δver	age hourly ear	nings	Δver	ane weekly ea	ırnings, total p	rivate
	AVG					illiga				
Year or month	Total	Manufa	ecturing	Total p	orivate	Manu- facturing	Le	vel	from yea	change ar earlier
	private	Total	Overtime	Current dollars	1982–84 dollars ²	(current dollars)	Current dollars	1982–84 dollars ²	Current dollars	1982–84 dollars ²
1965 1966	38.6	41.2 41.4	3.6 3.9 3.3	\$2.63 2.73 2.85	\$8.30 8.37 8.48	\$2.49 2.60	\$101.52 105.11	\$320.25 322.42 321.49	4.2 3.5 2.8	2.6
1967	38.5 37.9	40.6	3.3	2.85	8.48	2.60 2.71	105.11 108.02	321.49	2.8	7 3
1968 1969	37.7 37.5	40.7 40.6	3.5 3.6	3.02 3.22	8.63 8.73	2.89 3.07	113.85 120.75	325.29 327.24	5.4 6.1	1.2
1970	37.0	39.8	2.9 2.9	3.40	8.72	3.23	125.80	322.56	4.2	-1.4
1971 1972	36.8 36.9	39.9 40.6	3.4	3.63 3.90	8.92 9.26	3.45 3.70	133.58 143.91	327.32 341.83	6.2 7.7	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	152.77 161.25	341.77 325.10	6.2 5.6	.0 -4.9
19/5	36.0	39.5	2.6 3.1	4.73	8.74	4.71	170.28	314.75	5.6	-3.2
1976 1977	36.1 35.9	40.1 40.3	3.4	5.06 5.44	8.85 8.93	5.09 5.55	182.67 195.30	319.35 320.69	7.3 6.9	-3.2 1.5 .4
1978 1979	35.8 35.6	40.4 40.2	3.6 3.3	5.88 6.34	8.96 8.67	6.05 6.57	210.50 225.70	320.88 308.76	7.8 7.2	.1 -3.8
1980	35.2	39.7	2.8 2.8	6.85	8.26	7.15	241.12	290.86	6.8	-5.8
1981 1982	35.2 34.7	39.8 38.9	2.8 2.3 2.9	7.44 7.87	8.14 8.12	7.86 8.36	261.89 273.09	286.53 281.83	8.6 4.3	-5.8 -1.5 -1.6 1.7
1983 1984	34.9 35.1	40.1 40.7	2.9 3.4	8.20 8.49	8.22 8.22	8.70 9.05	286.18 298.00	286.75 288.48	4.8 4.1	1.7 .6
1985	34.9 34.7	40.5	3.3	8.74	8.18	9.40 9.59	305.03	285.34	2.4	-1.1
1986 1987	34.7	40.7 40.9	3.4 3.7	8.93 9.14	8.22 8.12	9.77	309.87 317.16	285.33 281.92	1.6 2.4	.0 -1.2
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	326.62 338.10	279.16 275.77	3.0 3.5	-1.0 -1.2
1990	34.3 34.1	40.5	3.9	10.20	7.91	10.78	349.75	271.12	3.4	-1.7
1991 1992	34.2	40.4 40.7	3.8 4.0	10.52 10.77	7.83 7.79	11.13 11.40	358.51 368.25	266.95 266.46	2.5 2.7	-1.5 2
1993	34.3 34.5	41.1 41.7	4.4 5.0	11.05 11.34	7.78 7.79	11.70 12.04	378.91 391.22	266.65 268.70	2.9 3.2 2.3	.1
1995	34.3 34.3	41.3 41.3	4.7 4.8	11.65 12.04	7.78 7.81	12.34 12.75	400.07 413.28	267.07 268.19	2.3 3.3	6
1997	34.5	41.7	5.1	12.51	7.94	13.14	431.86	274.02	4.5 3.9	2 .1 .8 6 .4 2.2 2.5
1998 1999	34.5 34.3	41.4 41.4	4.9 4.9	13.01 13.49	8.15 8.27	13.45 13.85	448.56 463.15	280.88 283.79	3.9	1.0
2000	34.3 34.0	41.3 40.3	4.7 4.0	14.02 14.54	8.30 8.38	14.32 14.76	481.01 493.79	284.79 284.61	3.9 2.7	.4
2001	33.9	40.5	4.2	14.97	8.51	15.29	506.75	288.09	2.6	1.2
2003	33.7 33.7	40.4 40.8	4.2 4.6	15.37 15.69	8.55 8.50	15.74 16.14	518.06 529.09	288.13 286.77	2.2 2.1 2.9	.4 1 1.2 .0 5 6
2005 2006	33.8 33.9	40.7 41.1	4.6 4.4	16.13 16.76	8.45 8.50	16.56 16.81	544.33 567.87	284.99 288.11	2.9 4.3	6 1.1
2007	33.9 33.6	41.2 40.8	4.2 3.7	17.43 18.08	8.60 8.57	17.26 17.75	590.04 607.95	290.99 288.06	3.9 3.0	1.0 -1.0
2008 2009	33.1	39.8	2.9	18.63	8.89	18.24	617.18	294.41	1.5	2.2
2010 2011 P	33.4 33.6	41.1 41.4	3.8 4.1	19.07 19.44	8.91 8.77	18.61 18.94	636.91 653.16	297.67 294.78	3.2 2.6	1.1 -1.0
2010: Jan Feb	33.3 33.2	40.8 40.4	3.6 3.5	18.91 18.93	8.86 8.86	18.44 18.48	629.70 628.48	295.03 294.32	2.7 2.2	7 6
Mar	33.3 33.4	41.0 41.2	3.7 3.8	18.93 18.98	8.86 8.89	18.49 18.51	630.37	295.16 296.86	2.8 3.4	6 2 .4 1.0
Apr May	33.4	41.5	4.0	19.03	8.93	18.59	633.93 635.60	298.29	3.5	1.0
June July	33.4 33.5	41.0 41.1	3.8 3.8	19.05 19.08	8.97 8.94	18.59 18.60	636.27 639.18	299.45 299.50	3.8 3.7	2.4 2.0
Aug Sept	33.5	41.1 41.3	3.8 3.9	19.13 19.14	8.94 8.93	18.63	640.86 641.19	299.57 299.12	3.6 3.8	2.1 2.3 2.5 2.0
Oct	33.5 33.5	41.2	3.9	19.23	8.94	18.65 18.71	644.21	299.62	4.0	2.5
Nov Dec	33.5 33.5	41.2 41.3	4.0 4.0	19.24 19.23	8.94 8.89	18.75 18.80	644.54 644.21	299.46 297.74	3.3 2.9	1.3
2011: Jan Feb	33.4 33.6	41.1 41.3	4.1 4.2	19.31 19.32	8.88 8.83	18.91 18.89	644.95 649.15	296.74 296.82	2.4 3.3	.6 .8 –.1
Mar	33.6	41.4	4.2	19.32	8.78	18.91	649.15	294.90	3.0	1
Apr May	33.6 33.6	41.4 41.4	4.2 4.1	19.37 19.42	8.76 8.77	18.91 18.94	650.83 652.51	294.21 294.55	2.7 2.7	9 -1.3 -1.2 -1.5 -2.4 -2.2
Juné July	33.6 33.6	41.4 41.4	4.0 4.1	19.43 19.49	8.80 8.78	18.91 18.96	652.85 654.86	295.72 294.88	2.6 2.5	-1.2 -1.5
Aug	33.5	41.3	4.1	19.47	8.73	18.92	652.25	292.48	1.8	-2.4
Sept Oct	33.6 33.7	41.3 41.5	4.0 4.1	19.49 19.53	8.71 8.74	18.89 19.00	654.86 658.16	292.55 294.43	2.1 2.2	-1.7
Nov ^p Dec ^p	33.6 33.7	41.4 41.5	4.1 4.1	19.54 19.54	8.75 8.75	18.98 19.05	656.54 658.50	293.93 294.83	1.9 2.2	-1.8 -1.0

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, 1997-2011

		Total private	9	Go	ods-produc	ing	Ser	vice-providi	ng 1	N	Manufacturii	ng
Year and month	Total compen- sation	Wages and salaries	Benefits ²									
				Indexes or	n SIC basis,	December 2	2005=100; n	ot seasonal	ly adjusted			
December: 1997 1998 1999	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
				Indexes on			r 2005=100;			d		
2001 ³	87.3 90.0 93.6 97.2 100.0 103.2 106.3 108.9 110.2	89.9 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	86.0 89.0 92.6 96.9 100.0 102.5 105.0 107.5 108.6	90.0 92.6 94.9 97.2 100.0 102.9 106.0 109.0 110.0	78.5 82.3 88.2 96.3 100.0 101.7 103.2 104.7 105.8	87.8 90.4 94.0 97.3 100.0 103.4 106.7 109.4 110.8	89.8 92.1 95.2 97.7 100.0 103.3 106.8 109.6 111.1	82.4 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	90.2 92.8 95.1 97.4 100.0 102.3 104.9 107.7 108.9	77.2 81.3 87.3 96.0 100.0 100.8 101.7 102.5 103.6
2010 2011: Mar June Sept	112.5 113.3 114.3 114.6	112.8 113.2 113.8 114.3	111.9 113.7 115.4 115.4	111.1 112.0 113.2 113.4	111.6 112.2 112.7 113.2	110.1 111.7 114.1 113.9	113.0 113.8 114.6 115.0	113.1 113.5 114.1 114.6	112.6 114.5 115.9 116.0	110.0 111.4 112.7 112.8	110.7 111.5 112.0 112.5	108.8 111.1 114.0 113.4
,				Indexes o	n NAICS ba	sis, Decemb	er 2005=10	0; seasonal	y adjusted			
2010: Mar	111.1 111.6 112.1 112.7 113.3 114.2 114.6	111.4 111.9 112.3 112.8 113.2 113.8 114.2	110.3 110.9 111.6 112.2 113.5 115.3	109.6 110.2 110.9 111.3 111.9 113.2 113.3	110.4 110.9 111.4 111.7 112.1 112.7 113.1	108.0 108.8 110.0 110.7 111.4 114.0 113.8	111.5 112.1 112.5 113.1 113.8 114.6 115.0	111.7 112.2 112.6 113.2 113.5 114.1	111.2 111.8 112.3 112.8 114.4 115.8 116.0	108.2 109.0 109.9 110.4 111.1 112.6 112.8	109.4 109.9 110.5 110.9 111.4 112.0 112.5	106.1 107.3 108.7 109.6 110.6 113.8 113.4
,				Percent	change fror	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 1.4	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: Mar June Sept	2.1 2.0 2.3 2.1	1.8 1.6 1.7 1.7	2.9 3.0 4.0 3.3	2.3 2.1 2.6 2.2	1.5 1.5 1.6 1.5	4.1 3.0 4.7 3.5	2.0 2.0 2.2 2.1	1.8 1.6 1.6 1.7	2.5 2.9 3.6 3.3	2.8 2.8 3.3 2.6	1.7 1.9 1.8 1.7	5.0 4.2 6.1 4.3
				Perce	nt change f		ns earlier, se	easonally ac	justed			
2010: Mar	0.6 .5 .4 .5 .5 .8	0.5 .4 .4 .4 .4 .5	1.2 .5 .6 .5 1.2 1.6	0.7 .5 .6 .4 .5 1.2	0.2 .5 .5 .3 .4 .5	1.6 .7 1.1 .6 .6 2.3 2	0.5 .5 .4 .5 .6 .7	0.4 .4 .5 .3 .5	1.0 .5 .4 .4 1.4 1.2	0.7 .7 .8 .5 .6 1.4	0.3 .5 .5 .4 .5 .5	1.8 1.1 1.3 .8 .9 2.9 4

¹ On Standard Industrial Classification (SIC) basis, data are for service-producing industries.

Data exclude farm and household workers.

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.

TABLE B-49. Productivity and related data, business and nonfarm business sectors, 1962-2011

[Index numbers, 2005=100; quarterly data seasonally adjusted]

							,		, ,					
Year or quarter		per hour persons	Out	tput ¹	Hor all pe	urs of ersons ²		ensation hour ³	compe	eal ensation hour ⁴		labor osts	Implii def	cit price lator ⁵
real of 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
1962 1963 1964 1965 1966 1967 1968	38.8 40.3 41.7 43.1 44.9 45.9 47.4 47.7	41.3 42.7 44.0 45.4 47.0 47.8 49.4 49.5	21.6 22.6 24.0 25.7 27.5 28.0 29.4 30.3	21.5 22.5 24.0 25.7 27.5 28.0 29.5 30.4	55.7 56.1 57.7 59.6 61.2 61.9 63.5	52.0 52.6 54.5 56.6 58.6 59.6 61.3	9.2 9.6 9.9 10.3 11.0 11.6 12.5 13.4	9.6 9.9 10.2 10.6 11.2 11.8 12.8 13.6	54.4 55.6 57.0 58.2 60.4 61.9 64.2 65.1	56.5 57.7 58.7 59.7 61.5 63.1 65.3 66.2	23.8 23.7 23.8 23.9 24.5 25.3 26.4 28.1	23.2 23.2 23.2 23.3 23.8 24.8 25.8 27.5	22.2 22.3 22.6 22.9 23.5 24.1 25.1 26.2	21.7 21.8 22.1 22.4 22.9 23.6 24.6 25.7
1970	48.6 50.6 52.3 53.9 53.0 54.8 56.6 57.5 58.2 58.1	50.2 52.3 54.0 55.7 54.8 56.3 58.2 59.1 59.9 59.6	30.3 31.4 33.5 35.8 35.3 34.9 37.2 39.3 41.8 43.2	30.3 31.5 33.6 36.0 35.5 34.9 37.4 39.5 42.1 43.4	62.2 62.1 64.0 66.5 66.6 63.7 65.8 68.3 71.8 74.3	60.4 60.2 62.2 64.7 64.8 62.0 64.2 66.8 70.3 72.8	14.5 15.4 16.3 17.7 19.4 21.4 23.2 25.1 27.3 29.9	14.6 15.5 16.6 17.9 19.7 21.6 23.5 25.4 27.6 30.2	66.3 67.5 69.6 71.0 70.1 70.8 72.7 73.7 74.9 74.9	67.1 68.4 70.5 71.8 71.0 71.6 73.4 74.5 75.8 75.7	29.7 30.3 31.2 32.9 36.6 39.0 41.1 43.6 46.9 51.4	29.1 29.8 30.7 32.2 35.9 38.4 40.3 42.9 46.1 50.7	27.4 28.5 29.6 31.1 34.1 37.4 39.4 41.8 44.7 48.5	26.8 28.0 28.8 29.9 32.9 36.5 38.5 40.9 43.7 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 66.1 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
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 89.2	76.1 78.7 80.3 81.9 83.4 84.8 86.0 87.6 88.3
2000	85.6 88.2 92.2 95.7 98.4 100.0 100.9 102.4 103.2 105.7	85.9 88.4 92.4 95.8 98.4 100.0 100.9 102.4 103.1 105.5	87.7 88.4 90.2 93.0 96.7 100.0 103.0 105.1 103.7 98.7	87.8 88.6 90.3 93.0 96.7 100.0 103.1 105.3 103.7 98.5	102.4 100.3 97.8 97.2 98.3 100.0 102.1 102.6 100.5 93.4	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 96.2 100.0 103.8 108.1 111.7 113.5	82.5 86.2 88.9 93.1 96.2 100.0 103.8 107.9 111.6 113.4	93.3 95.0 96.4 98.7 99.5 100.0 100.5 101.7 101.2 103.3	93.5 95.0 96.5 98.8 99.4 100.0 100.5 101.6 101.2 103.3	96.1 97.7 96.4 97.2 97.8 100.0 102.8 105.5 108.2 107.4	96.0 97.5 96.2 97.1 97.8 100.0 102.8 105.3 108.2 107.5	90.9 92.5 93.2 94.5 96.9 100.0 102.9 105.6 107.5 108.3	90.9 92.4 93.2 94.4 96.6 100.0 103.0 105.4 107.3 108.4
2010 2008: I II IV	110.0 103.1 103.6 103.4 102.6	109.8 103.0 103.6 103.4 102.5	102.5 105.2 105.3 103.8 100.5	102.4 105.2 105.3 103.9 100.4	93.2 102.1 101.6 100.4 98.0	93.2 102.1 101.7 100.5 98.0	115.8 111.3 111.0 111.9 112.4	115.8 111.3 110.9 111.9 112.5	103.6 102.1 100.5 99.8 102.7	103.7 102.1 100.4 99.8 102.7	105.3 108.0 107.1 108.3 109.6	105.4 108.0 107.1 108.2 109.7	109.6 106.5 107.2 108.2 108.0	109.6 106.2 107.0 108.0 108.0
2009: I II III IV	103.0 105.0 106.8 108.2	102.8 104.8 106.5 107.9	98.3 98.1 98.5 99.7	98.2 97.9 98.2 99.6	95.5 93.4 92.3 92.2	95.5 93.4 92.2 92.2	111.7 113.5 114.2 114.6	111.7 113.5 114.2 114.5	102.6 103.8 103.5 103.1	102.6 103.8 103.5 103.1	108.5 108.1 107.0 105.9	108.6 108.3 107.2 106.1	108.4 108.1 108.1 108.4	108.6 108.2 108.4 108.5
2010: 	109.3 109.6 110.3 110.7	109.2 109.5 110.1 110.7	101.0 102.1 103.1 103.9	100.8 102.0 102.9 103.8	92.4 93.2 93.5 93.8	92.4 93.1 93.5 93.8	114.9 115.6 116.2 116.3	114.9 115.6 116.2 116.3	103.1 103.9 104.1 103.5	103.1 103.9 104.0 103.5	105.1 105.5 105.4 105.0	105.3 105.6 105.6 105.1	108.9 109.4 109.7 110.4	109.0 109.5 109.7 110.2
2011: 	110.4 110.4 110.9	110.5 110.5 111.1	104.0 104.4 105.2	104.0 104.5 105.3	94.2 94.6 94.8	94.2 94.6 94.8	117.9 117.9 117.8	117.9 117.9 117.8	103.5 102.5 101.6	103.6 102.5 101.7	106.8 106.8 106.2	106.7 106.7 106.0	111.2 111.9 112.6	110.8 111.5 112.2

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 1978–2010 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, 1962-2011

[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	leal ensation hour ⁴		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
1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1971	4.6 3.9 3.4 3.5 4.1 2.2 3.4 .5 2.0 4.1 3.2 3.1	4.5 3.5 2.9 3.1 3.6 1.7 3.4 .2 1.5 4.0 3.3	6.4 4.6 6.3 7.1 6.8 1.9 5.0 3.1 .0 3.8 6.4 7.0	6.8 4.7 6.7 7.1 1.7 5.2 3.0 1 3.8 6.6 7.3	1.8 .7 2.9 3.4 2.6 3 1.5 2.5 -2.0 3 3.1 3.8	2.2 1.1 3.7 3.9 3.5 .0 1.8 2.9 -1.6 2 3.2 4.1	4.4 3.6 3.8 3.7 6.7 5.7 8.1 7.0 7.7 6.3 6.3 8.4	4.0 3.4 3.1 3.3 5.9 5.8 7.8 6.8 7.2 6.4 6.5 8.1	3.4 2.2 2.4 2.1 3.8 2.5 3.7 1.4 1.9 1.8 3.0 2.1	3.0 2.1 1.8 1.7 3.0 2.7 3.5 1.3 1.4 1.9 3.2	-0.1 3 .4 .2 2.6 3.4 4.5 6.4 5.6 2.1 3.0 5.2	-0.5 1 .2 .2 2.3 4.0 4.3 6.6 5.6 2.3 3.1	1.0 .5 1.1 1.6 2.5 2.7 4.0 4.6 4.3 4.2 3.6 5.2	1.0 .7 1.3 1.3 2.3 3.2 3.9 4.5 4.4 4.3 3.2 3.5
1974 1975 1976 1977 1978 1979	-1.7 3.5 3.2 1.7 1.1 1	-1.6 2.8 3.3 1.6 1.3 4	-1.5 9 6.6 5.6 6.3 3.3	-1.5 -1.6 7.0 5.6 6.6 3.2	.2 -4.3 3.3 3.8 5.1 3.4	.1 -4.3 3.6 3.9 5.2 3.6	9.6 10.2 8.6 8.0 8.7 9.6	9.8 10.1 8.4 8.1 8.8 9.4	-1.3 1.0 2.7 1.4 1.5	-1.2 .9 2.5 1.5 1.7 1	11.5 6.5 5.3 6.2 7.5 9.6	11.6 7.1 4.9 6.5 7.4 9.9	9.7 9.7 5.3 6.0 7.1 8.5	3.5 10.3 10.7 5.5 6.3 6.7 8.5
1980	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 1.6	-1.1 2.8 -3.0 5.4 8.7 4.6 3.7 3.3 4.3 3.7	-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 1.2 3.3 .2 1.5 -1.6	4 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	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 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	1.5 9 3.9 3.2 4.9 2.8 4.6 5.2 5.0	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	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 3 .6 .9 4.5	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 2001 2002 2003 2004 2005 2006 2007 2008 2008	3.5 3.0 4.5 3.9 2.8 1.7 .9 1.5	3.4 2.9 4.6 3.7 2.6 1.6 .9 1.5 .6 2.3	4.5 .8 2.0 3.1 4.0 3.4 3.0 2.0 -1.3 -4.9	4.4 .9 1.9 3.1 4.0 3.4 3.1 2.1 -1.5 -5.1	1.0 -2.1 -2.4 7 1.2 1.7 2.1 .5 -2.0 -7.1	1.0 -2.0 -2.5 6 1.3 1.7 2.2 .6 -2.1 -7.2	7.4 4.7 3.1 4.8 3.5 3.9 3.8 4.1 3.3 1.6	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 2.0	4.0 1.6 1.5 2.4 .6 .6 .5 1.1 4 2.0	3.7 1.7 -1.3 .9 .7 2.2 2.8 2.6 2.6 8	3.9 1.5 -1.3 1.0 .7 2.3 2.8 2.4 2.8 7	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
2010 2008: I II IV	4.1 -2.0 2.2 8 -3.1	4.1 -2.4 2.2 7 -3.4	3.9 -3.1 .2 -5.4 -12.0	4.0 -3.6 .4 -5.2 -12.7	1 -1.1 -1.9 -4.6 -9.2	1 -1.2 -1.7 -4.5 -9.7	2.0 5.8 -1.1 3.4 1.8	2.1 6.1 -1.4 3.5 2.1	.4 1.1 -6.0 -2.8 12.1	.4 1.4 -6.3 -2.7 12.5	-2.0 8.0 -3.2 4.3 5.0	-2.0 8.7 -3.5 4.3 5.7	1.3 1.5 2.9 3.5 5	1.1 1.5 3.1 3.7 .2
2009: I II IV 2010: I	1.5 8.0 7.0 5.3 4.3	1.3 8.0 6.5 5.5 4.6	-8.5 -1.0 1.8 5.0 5.1	-8.7 -1.1 1.4 5.6 5.2	-9.8 -8.4 -4.9 3	-9.9 -8.4 -4.8 .1	-2.7 6.6 2.7 1.2	-2.7 6.7 2.3 1.2	4 4.6 9 -1.6	4 4.7 -1.3 -1.5	-4.1 -1.3 -4.0 -3.9 -2.9	-4.0 -1.2 -3.9 -4.1 -3.1	1.4 -1.2 .3 1.1	2.0 -1.2 .6 .5
II III IV	4.3 1.1 2.5 1.7 -1.4	4.6 1.2 2.1 2.2 6 1	3.7 3.7 3.2 .3 1.7	3.5 3.5 3.8 .9	.8 3.6 1.2 1.5 1.7 1.6	3.4 1.4 1.5 1.5 2.0	2.4 2.2 .4 5.4	2.6 1.9 .6 5.6 2	.0 2.9 .7 -2.2 .1 -3.8	.2 3.1 .4 -2.1 .3 -4.1	-2.9 1.2 3 -1.3 6.8	-3.1 1.4 2 -1.6 6.2 1	1.8 1.9 1.1 2.2 2.9 2.9	2.0 .7 1.7 2.2 2.7
		1 2.3	1.7 3.0			2.0	.2 5			-4.1 -3.2				2.

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, 1963-2011

[2007=100; monthly data seasonally adjusted]

		Total		Manufa	cturing			
	Year or month	industrial production ¹	Total ¹	Durable	Nondurable	Other (non-NAICS) ¹	Mining	Utilities
1963		26.8	24.0					
		28.6 31.5	25.6 28.4					
		34.2	31.0					
1967 .		35.0	31.6					
1968 .		36.9 38.6	33.4 34.8					
		37.3	33.3					
		37.9	33.8					
1972		41.5	37.3	25.4	57.2	71.9	106.4	46.4
		44.9 44.8	40.7 40.6	28.6 28.4	59.9 60.2	74.1 74.6	107.0 105.5	49.1 48.9
		40.8	36.4	24.7	55.8	71.0	103.0	49.8
1976		44.0	39.6	27.0	60.9	73.2	103.7	52.1
1977		47.4 50.0	43.0 45.6	29.7 32.0	65.1 67.4	80.2 83.0	106.1 109.4	54.2 55.6
		51.5	47.1	33.6	67.8	84.8	112.7	56.8
1980		50.2	45.4	32.1	65.7	87.7	114.7	57.3
1981		50.8	45.9	32.5	66.3	89.9	117.7	58.1
		48.2 49.5	43.4 45.5	29.7 31.2	65.3 68.4	90.8 93.4	111.9 106.0	56.2 56.7
1984		54.0	49.9	35.6	71.5	97.6	112.8	60.0
		54.6 55.2	50.7 51.8	36.4 37.0	71.9 74.0	101.5 103.5	110.6 102.6	61.3 61.8
		58.0	54.8	39.2	78.0	103.5	103.6	64.7
1988		61.0	57.7	42.1	80.6	109.0	106.2	68.4
1989		61.5	58.2	42.6	81.1	107.4	105.0	70.6
		62.1 61.2	58.6 57.5	42.7 41.4	82.4 82.0	106.1 101.8	106.5 104.2	71.9 73.7
		62.9	59.5	43.5	84.2	99.7	101.9	73.6
1993		65.0	61.6	45.9	85.3	100.5	101.9	76.2 77.7
1994		68.4 71.6	65.3 68.7	49.8 54.0	88.3 89.9	99.6 99.6	104.2 104.1	77.7 80.5
1996		74.8	72.0	58.8	90.1	98.7	105.8	82.8
1997		80.2 84.9	78.0 83.2	65.9 72.8	93.5 94.8	107.0 113.4	107.8 105.8	82.8 84.9
		88.5	87.3	72.0	94.0 95.4	116.7	100.3	87.4
		92.1	91.0	84.8	95.9	116.4	103.0	89.9
2001		88.9	87.3	80.9	93.0	108.8	103.4	89.5 92.3
2002		89.1 90.2	87.6 88.7	80.8 82.9	94.2 94.4	105.2 102.1	98.6 98.8	92.3 94.1
2004		92.3	91.2	86.2	95.9	102.9	98.2	95.3
2005 . 2006 .		95.3 97.4	94.8 97.2	91.2 95.4	98.3 98.8	102.6 101.4	97.1 99.5	97.3 96.7
		100.0	100.0	100.0	100.0	100.0	100.0	100.0
2008		96.3	95.0	96.3	94.0	89.4	100.8	99.9
2009		85.5	82.2	79.0	86.4	77.0	95.6	97.3
		90.1 93.8	86.6 90.5	85.3 92.2	89.6 91.1	74.0 70.3	101.2 107.2	101.3
	Jan	87.7	84.2	81.6	88.3	75.5	96.6	101.0 102.0
ZU1U.	Feb	87.9	84.3	81.6	88.5	74.5	97.3	102.4
	Mar	88.4	85.1	82.8	88.9	74.7	99.0	102.4 99.3
	Apr May	88.7 89.9	85.7 86.7	83.9 85.3	89.2 89.6	74.2 75.5	100.5 100.1	95.8 100.5
	June	90.0	86.6	85.3	89.5	74.4	99.9	102.4
	July	90.8 91.0	87.3 87.4	86.6 86.3	89.7 90.1	74.5 74.3	101.2 102.7	103.1 102.7
	Aug Sept	91.0	87.4 87.5	86.6	90.1	74.3 72.7	102.7	102.7
	Oct	91.1	87.7	87.2	90.2	72.5	104.7	98.8
	Nov Dec	91.4 92.6	87.9 88.8	87.6 88.4	90.0 91.2	72.8 72.7	104.5 104.6	100.6 105.1
2011-	Jan	92.8	89.4	89.9	91.0	72.7	104.0	103.1
2011.	Feb	92.5	89.5	90.6	90.6	71.2	102.5	103.4
	Mar	93.1	90.1	91.3	91.2	70.3	104.2	100.7
	Apr May	92.7 93.0	89.6 89.7	90.5 91.2	91.0 90.6	69.9 69.9	105.1 105.8	99.7 100.6
	June	93.1	89.8	91.4	90.7	68.3	105.6	101.0
	July	94.1	90.5	92.2	91.2	68.5	107.4	104.3
	Aug P	94.4 94.6	90.7 91.2	92.7 93.3	91.1 91.4	70.4 71.3	108.6 108.8	103.1 101.7
	Sept P Oct P	95.1	91.6	94.0	91.7	71.1	110.5	101.5
	Nov ^p	94.9	91.3	93.9	91.2	69.8	111.0	100.9
	Dec p	95.3	92.1	94.7	91.9	71.3	111.4	98.2

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, 1963-2011

[2007=100; monthly data seasonally adjusted]

					Final pr		uata so	,		_	dustrial su	ıpplies		Materials	3
V	Total indus-			Consum	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
1963 1964 1965 1966 1967 1968	26.8 28.6 31.5 34.2 35.0 36.9 38.6	25.9 27.4 30.1 32.9 34.2 35.9 37.0	34.7 36.6 39.5 41.5 42.5 45.1 46.7	25.1 26.3 32.4 32.3 28.3 33.8 33.9	22.4 24.4 27.7 30.5 30.9 33.1 35.3	40.7 42.7 44.5 46.6 49.1 51.0 52.7	15.3 16.1 18.2 21.3 22.6 23.2 23.9	10.5 11.8 13.5 15.6 15.9 16.6 17.7	46.6 45.1 49.9 58.7 66.9 67.1 63.9	27.7 29.5 31.4 33.3 34.7 36.7 38.7	38.1 40.4 42.9 44.7 45.9 48.2 50.3	23.6 25.2 26.9 29.0 30.5 32.4 34.4	26.6 28.8 32.1 35.0 34.6 36.9 39.1	27.3 29.3 31.1	56.4 58.7 61.4 65.3 67.5 70.6 74.2
1970 1971 1972 1973 1974 1975 1976 1977 1978	37.3 37.9 41.5 44.9 44.8 40.8 44.0 47.4 50.0 51.5	35.7 36.0 39.1 42.1 42.1 39.7 42.5 46.0 48.8 50.4	46.2 48.9 52.8 55.2 53.6 51.5 55.7 59.1 61.0 60.1	28.5 36.4 39.2 42.6 36.8 35.5 40.4 45.7 45.4 40.8	34.2 36.3 41.5 44.3 41.7 36.5 41.0 45.8 47.9 48.2	53.6 55.1 58.7 60.5 60.5 59.4 63.1 65.5 67.8	22.2 20.8 22.7 25.9 27.2 24.9 26.2 29.2 32.5 36.3	17.1 16.2 18.5 21.4 22.7 20.2 21.6 24.9 28.1 31.7	54.1 48.6 47.3 51.8 53.5 54.0 52.3 46.9 47.8 51.2	38.1 39.3 43.9 46.9 46.5 41.7 44.6 48.4 51.1 52.7	48.5 50.1 56.8 61.7 60.2 51.0 54.9 59.8 63.2 64.8	34.6 35.6 39.2 41.6 41.6 38.4 40.9 44.3 46.7 48.3	37.7 38.3 42.2 46.0 45.8 40.8 44.4 47.5 49.9 51.2	29.3 29.8 33.4 37.0 36.9 31.7 35.3 38.2 40.7 41.8	77.9 78.5 81.5 83.5 83.2 82.4 84.2 86.9 88.0 90.4
1980 1981 1982 1983 1984 1985 1986 1987 1987	50.2 50.8 48.2 49.5 54.0 54.6 55.2 58.0 61.0	50.2 51.4 50.3 51.3 55.5 56.9 57.8 60.4 63.7 64.4	57.8 58.2 58.1 60.2 63.0 63.5 65.7 68.5 71.1 71.3	31.4 32.4 31.5 36.6 40.9 40.8 43.9 47.0 49.2 50.8	44.7 45.0 41.7 45.2 50.5 50.5 53.5 56.3 59.3 60.0	67.4 67.8 68.9 69.7 71.1 72.0 73.7 76.3 78.9 78.6	38.0 39.8 37.9 37.7 43.0 45.2 44.5 46.9 50.7 52.0	32.4 33.4 30.5 30.7 35.3 36.6 36.0 38.5 42.5 44.0	60.8 65.8 78.7 79.3 90.8 101.6 107.9 110.2 111.2	50.6 51.1 49.3 51.9 56.5 57.9 59.8 63.5 65.6 66.2	60.0 59.0 53.5 57.3 62.3 63.9 66.1 70.3 71.9 71.6	47.2 48.3 47.7 50.0 54.3 55.7 57.6 61.0 63.3 64.2	49.3 49.6 45.8 47.0 51.4 51.3 54.0 57.0 57.4	39.4 39.5 35.6 38.0 42.4 42.4 43.2 46.1 49.0 49.3	91.1 92.0 88.0 85.2 90.6 90.1 86.5 88.6 91.7
1990 1991 1992 1993 1994 1995 1996 1997 1998	62.1 61.2 62.9 65.0 68.4 71.6 74.8 80.2 84.9 88.5	65.0 64.2 65.8 67.8 70.7 73.6 76.4 81.4 86.1 88.5	71.7 71.7 73.7 76.0 79.2 81.6 83.1 86.1 89.3 91.3	47.8 44.9 52.0 57.2 62.8 64.7 65.8 70.9 76.2 84.6	59.9 58.2 60.8 65.0 70.4 74.6 78.1 83.1 89.7 94.4	79.9 81.0 81.7 82.8 84.8 86.9 88.0 90.1 92.0 92.0	53.0 51.2 51.9 53.6 55.9 59.5 64.2 72.0 78.9 81.9	45.5 44.7 46.6 48.8 52.0 56.5 62.1 71.1 78.8 83.1	107.3 99.3 92.1 86.9 81.6 79.1 76.6 75.4 78.6 76.3	67.2 65.5 67.4 69.7 73.1 75.7 78.8 83.9 88.6 91.9	71.0 67.1 69.9 73.0 78.3 80.1 83.6 87.7 92.3 94.7	65.7 64.8 66.3 68.4 71.1 74.1 76.9 82.4 87.1 90.7	57.8 56.9 58.8 60.8 64.7 68.4 71.9 77.7 82.4 87.3	49.4 48.3 50.7 52.9 57.2 61.1 64.9 71.8 77.2 83.2	94.4 94.5 93.7 93.9 95.4 96.8 98.3 98.3 98.5 98.0
2000	92.1 88.9 89.1 90.2 92.3 95.3 97.4 100.0 96.3 85.5	91.1 89.3 88.7 89.9 91.6 95.3 97.7 100.0 96.2 86.9	93.0 91.9 93.8 95.1 96.1 98.7 99.2 100.0 94.8 88.0	86.1 82.8 90.9 95.7 95.7 94.2 93.0 100.0 84.6 72.9	98.1 92.7 94.3 95.3 98.4 101.6 103.0 100.0 92.6 76.1	93.4 93.6 94.2 94.9 95.7 98.9 99.5 100.0 96.8 92.3	86.3 82.8 77.5 78.3 81.5 87.6 94.5 100.0 99.3 84.4	89.3 83.9 78.3 78.3 82.2 87.8 96.0 100.0 97.5 81.6	67.8 74.4 75.0 79.6 77.7 85.8 84.5 100.0 107.9	95.2 91.4 91.5 92.5 94.4 97.9 99.3 100.0 93.6 80.5	96.8 92.4 92.2 94.4 98.9 101.3 100.0 90.3 70.0	94.4 90.9 91.1 92.6 94.4 97.4 98.4 100.0 95.1 85.6	91.8 87.7 88.6 89.8 92.3 94.5 96.5 100.0 97.3 86.0	88.3 83.3 84.6 86.1 89.7 93.3 95.6 100.0 95.3 79.0	99.6 98.3 98.0 98.1 97.8 96.9 98.1 100.0 100.6
2010	90.1 93.8 87.7 87.9 88.4 88.7 89.9 90.0 91.0 91.2 91.1 91.4 92.6	91.5 95.4 89.6 89.3 89.9 89.6 91.4 91.7 92.7 92.6 92.7 92.8 92.7 93.8	91.7 93.6 90.9 90.4 90.6 89.7 91.7 92.8 92.8 92.4 92.3 92.0 93.3	87.7 96.6 86.4 84.4 85.2 87.8 86.5 93.8 88.3 88.9 90.3 87.7 88.2	77.9 81.4 75.2 75.7 76.6 78.1 78.9 78.6 79.0 78.4 78.1 78.0 79.2	94.6 95.3 94.2 93.8 93.8 92.5 94.4 94.7 95.0 95.6 95.3 94.9 94.8	91.2 99.9 86.4 86.7 88.1 89.5 90.9 91.0 92.3 92.8 93.4 94.2 94.3 95.1	87.9 97.2 83.2 84.2 85.5 87.3 87.9 89.0 89.3 90.1 91.3 92.4	114.6 117.2 110.7 111.5 114.0 114.7 113.6 115.7 116.1 116.5 115.8 115.3	82.0 84.2 80.4 80.3 80.6 81.7 82.4 82.6 82.6 82.8 82.6 82.2 83.0 83.3	72.7 76.2 68.5 68.7 70.2 72.9 73.3 73.6 73.8 74.3 75.0 74.4	86.6 88.0 86.2 85.9 85.7 85.9 87.0 87.1 86.9 86.1 86.9 87.6	91.5 95.6 88.6 89.3 89.7 90.3 91.1 91.2 91.9 92.3 92.9 92.7 93.2 94.6	84.9 89.3 82.1 82.5 83.2 84.0 84.6 85.3 85.6 85.9 86.0 86.4	102.8 106.3 99.7 101.1 100.9 101.1 102.1 103.1 103.8 104.9 104.1 104.7
2011: Jan Feb Mar Apr May June July Aug P Sept P Oct P Dec P	92.8 92.5 93.1 92.7 93.0 93.1 94.1 94.4 94.6 95.1 94.9 95.3	94.6 94.3 94.4 94.2 94.8 94.7 95.6 96.1 96.2 97.0 96.6 96.8	93.7 93.0 93.2 92.8 93.2 93.1 93.8 94.1 94.0 94.6 93.9 94.1	92.0 94.7 97.1 92.8 92.5 93.0 95.3 96.7 97.4 101.0 98.8 99.2	79.6 81.0 81.6 80.4 81.4 80.8 81.8 81.6 82.3 82.1 82.1 82.2	96.3 94.8 94.6 94.9 95.2 95.6 95.8 95.4 95.8 95.1	96.8 97.3 97.4 97.4 98.7 98.7 99.8 100.9 101.6 102.9 103.1 103.5	94.1 94.7 94.6 94.5 95.8 96.1 97.3 98.4 99.1 100.4 100.4 101.1	116.2 116.7 116.8 116.8 117.1 115.3 116.3 117.1 117.2 118.5 119.4 117.9	83.2 82.9 83.7 83.3 84.1 83.9 84.7 84.9 85.4 85.1 84.3 84.8	74.9 74.4 75.2 75.0 76.3 77.3 77.3 77.3 77.3 77.1 77.9	87.2 87.1 87.8 87.4 87.9 87.5 88.2 88.7 89.3 88.9 87.9	94.5 94.1 95.1 94.6 94.5 94.9 96.2 96.1 96.4 96.9 97.0 97.5	88.8 88.5 89.3 88.5 88.6 89.2 89.0 89.7 90.0 90.0 91.2	104.0 103.4 104.9 104.9 105.4 108.0 108.2 107.6 108.6 108.9 108.2

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, 1968-2011

[2007=100; monthly data seasonally adjusted]

				Jurable ma		onthiy da q	10 350301	any auju	Sieuj	No	ndurable i	manufactu	ring	
V	Prin me	nary tals	Fabri-		Compu	ter and ronic lucts		ortation ment			Printing		Plastics	
Year or month	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
1968 1969						0.1								
1970 1971						.1 .1								
1972 1973 1974 1975 1976 1977 1978 1979	109.9 128.0 131.1 101.8 108.1 109.2 116.3 119.0	113.8 136.4 145.8 108.2 112.2 109.6 117.7 121.9	60.4 66.8 65.7 56.7 60.7 65.9 69.1 72.2	56.8 65.7 68.9 60.0 62.6 68.4 73.7 77.8 74.0	0.7 .9 1.0 .9 1.1 1.3 1.6 2.0	.1 .2 .2 .2 .3 .3 .4 .5	47.1 53.8 49.6 45.0 50.3 54.7 58.2 58.8 52.2	43.2 49.4 42.5 37.1 47.3 53.7 56.0 51.3 37.9	286.4 295.1 274.7 268.8 283.9 301.8 310.5 294.3 298.6	68.2 73.8 76.9 66.5 73.5 76.7 80.2 81.4 81.1	49.7 52.3 50.7 47.4 50.8 55.0 58.2 60.0	40.9 44.8 46.5 40.9 45.8 49.8 52.3 53.5 50.6	34.7 39.0 38.0 32.5 36.0 42.4 43.8 43.2 38.4	55.8 55.9 56.5 55.4 59.9 61.0 62.8 62.2 63.3
1981 1982 1983 1984 1985 1986 1987 1988	104.7 74.0 75.9 83.1 76.8 75.0 80.8 90.3 88.2	107.2 65.9 66.4 73.2 67.9 66.3 75.5 87.9 84.8	67.6 60.6 61.0 66.4 67.4 66.9 68.2 71.7	73.3 61.3 55.3 64.5 64.7 63.7 65.0 71.6 74.3	2.8 3.2 3.7 4.6 4.8 5.0 5.7 6.4 6.6	., .9 1.1 1.4 1.5 1.6 1.9 2.3 2.4	50.2 46.2 51.0 57.9 60.9 62.4 64.6 68.6 70.0	36.9 33.3 42.5 50.9 52.9 52.8 54.7 58.5 57.9	296.9 300.7 309.5 313.9 301.7 305.2 307.3 301.7 286.9	82.3 80.9 86.2 90.5 88.8 92.4 95.4 99.2 100.3	62.0 66.7 71.6 78.0 81.1 85.2 91.5 94.4 94.8	51.4 48.1 51.4 54.4 54.0 56.4 60.8 64.3 65.5	40.7 40.0 43.5 50.2 52.2 54.4 60.3 62.9 65.1	64.2 66.7 67.4 68.7 71.3 72.3 73.8 75.7 75.9
1990 1991 1992 1993 1994 1995 1996 1997 1998	87.1 81.8 83.8 87.8 94.5 95.5 97.9 102.0 103.8 103.8	83.8 76.6 80.1 84.9 91.6 93.1 95.3 98.2 98.0 98.4	70.3 67.1 69.1 71.7 78.0 82.8 85.8 89.6 92.6	72.5 68.0 67.8 72.9 79.8 85.5 88.4 93.3 95.7 93.7	7.2 7.4 8.4 9.2 10.8 14.0 18.1 24.2 31.2 40.8	2.7 2.9 3.5 4.1 5.2 7.3 10.5 15.5 21.6 31.0	67.8 65.1 67.5 69.5 72.7 72.7 74.1 80.8 87.9 92.7	54.4 52.0 59.2 65.4 75.1 77.3 77.9 84.0 88.4 98.1	281.0 282.5 288.0 294.8 300.7 301.0 292.6 289.2 273.8 261.7	100.3 100.5 102.9 104.1 108.6 110.2 106.8 109.0 109.9	98.4 95.3 100.5 100.8 101.9 103.4 104.1 106.3 107.5	67.0 66.8 67.8 68.6 70.4 71.5 73.0 77.3 78.6 80.1	66.9 66.1 71.2 76.2 82.6 84.7 87.5 92.9 96.2 101.3	78.2 79.7 81.2 83.3 83.8 86.0 84.2 86.5 90.3 91.4
2000	100.3 91.4 91.3 89.8 97.7 95.2 98.0 100.0 99.7 69.5	97.1 88.2 89.2 89.8 101.7 94.3 98.4 100.0 106.4 63.1	96.9 89.9 87.6 86.6 86.9 90.9 95.9 100.0 96.4 74.2	98.5 87.1 83.7 83.3 86.7 92.1 96.5 100.0 97.3 75.6	53.4 54.2 52.9 60.3 68.4 77.0 87.2 100.0 106.6 97.5	43.4 44.5 44.2 53.3 60.7 70.9 84.5 100.0 112.8	88.3 84.9 88.6 89.5 89.4 93.1 94.2 100.0 89.6	97.4 88.8 97.6 101.1 101.7 102.3 100.8 100.0 80.0	249.7 214.9 170.2 156.8 134.6 129.1 125.8 100.0 78.0 59.8	107.8 101.7 102.9 100.4 101.2 100.7 99.6 100.0 95.8 85.4	107.3 108.4 104.8 102.1 98.1 98.5 98.6 97.8 100.0 93.8 79.8	81.2 79.8 85.1 86.5 89.9 92.9 95.2 100.0 92.4 83.7	102.4 96.5 99.9 99.9 101.2 102.3 102.9 100.0 90.6 75.8	92.9 93.0 95.0 95.6 95.6 98.6 99.5 100.0 98.7
2010	83.3	87.7	78.6	80.8	107.9	116.1	83.9	76.1	57.8	89.0	76.0	86.7	83.4	102.3 102.9
2011 P	91.2 79.6 81.3 84.2 83.5 84.4 84.3 81.6 82.7 82.4 84.9 88.6	95.3 83.6 86.3 92.9 90.2 92.7 89.4 81.6 83.4 85.5 82.8 88.8 95.2	87.1 73.4 73.6 74.6 76.1 77.5 78.9 79.9 81.1 81.5 81.4 82.5 83.1	90.9 75.7 76.0 76.2 78.9 80.8 81.8 81.7 82.0 83.2 84.4 87.0	115.8 102.5 103.7 105.3 106.5 107.7 107.4 108.5 109.7 110.2 111.6	124.1 110.6 112.3 113.8 115.1 115.8 115.2 115.6 117.0 117.7 117.8 120.2	91.0 81.8 80.8 82.2 81.7 83.9 83.3 87.7 85.2 85.5 85.9 84.2 84.1	82.9 73.2 71.4 73.3 72.5 76.7 75.7 82.7 77.6 78.3 79.0 76.2 76.5	57.8 59.1 57.9 57.6 58.0 57.5 57.3 56.9 57.4 56.5 57.9 57.7 60.0	87.7 88.8 89.6 89.6 89.3 89.5 89.1 88.4 88.8 88.5 88.8	73.6 76.9 75.7 75.2 76.0 77.3 76.8 76.2 77.0 75.8 75.4 74.9	88.5 87.4 86.7 86.6 86.5 86.2 86.1 86.2 86.3 87.0 86.6 88.5	87.2 79.6 80.2 81.1 83.5 84.3 83.6 84.5 84.5 84.1 84.9 85.1 85.7	102.9 100.0 100.9 101.0 100.9 101.5 101.8 101.7 103.6 104.5 104.2 103.6
2011: Jan	90.1 89.3 91.7 91.1 90.4 88.9 90.3 89.8 92.0 91.6 93.6 96.6	98.2 95.5 97.5 93.4 91.4 91.9 90.9 94.4 93.1 94.7 98.7 105.9	83.6 83.9 84.9 85.7 86.5 87.9 88.6 88.5 88.1 88.3 88.9	90.3 90.0 89.1 88.6 90.0 91.4 90.9 91.3 91.8 92.2 94.1	115.3 115.5 115.3 114.7 115.4 114.3 115.8 117.0 117.2 116.8 116.4 117.5	125.3 124.9 124.2 123.9 124.4 124.5 126.0 125.2 123.3 123.0 123.7	86.1 88.0 89.9 87.7 88.1 88.6 90.4 91.9 92.4 95.1 94.4 94.2	79.5 82.5 85.0 79.4 79.0 79.2 81.6 83.0 83.2 86.1 83.9 84.4	59.3 59.4 57.9 58.2 59.2 58.1 57.7 57.4 55.9 57.2 55.8 56.2	90.7 89.1 89.4 88.6 87.7 87.5 87.3 86.1 86.9 86.3 87.1	73.9 74.7 74.4 74.7 74.6 73.6 74.4 73.7 73.1 72.4 71.5 71.9	88.3 88.0 89.5 88.6 87.8 87.9 88.3 88.4 89.3 89.0 88.1	86.5 86.4 86.2 86.9 87.2 86.5 87.8 87.2 87.3 88.2 87.6 89.0	103.4 103.2 102.9 103.5 102.4 102.7 102.3 102.3 103.6 102.9 103.7

¹ Computers and peripheral equipment, communications equipment, and semiconductors and related electronic components.

Note: See footnote 1 and Note, Table B-51.

Table B-54. Capacity utilization rates, 1963-2011

				facturing	/ data seasonal	ry dujustcuj		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
1963	87.0 87.0 87.3 87.4 81.2 81.6 85.0 85.0 80.8 73.6 73.6 73.6 73.6 73.6 81.2 84.3 83.8 82.5 79.2 79.2 84.3 83.8 82.5 79.2 84.4 79.2 84.4 79.2 84.5 85.0 86.8 81.2 82.5 79.6 81.5 81.5 81.5 81.5 81.5 81.5 81.5 81.5	83.5 85.6 89.5 91.1 87.2 88.6 79.4 77.8 83.4 84.4 73.6 82.4 84.3 84.0 78.7 77.0 9 73.4 81.0 84.0 84.0 84.0 84.0 84.0 84.0 84.0 84	87.5 87.3 87.1 77.7 82.0 82.0 84.6 71.7 71.7 71.7 71.7 71.7 71.7 82.2 82.1 83.1 83.1 83.1 83.1 83.1 83.1 83.1 75.7 75.7 75.7 75.7 75.7 75.7 75.7 82.1 82.1 82.1 82.1 82.1 82.1 82.1 82.1	86.3 86.3 86.3 86.1 82.1 85.2 86.6 84.1 76.0 84.3 85.7 79.6 76.3 79.6 79.6 84.0 84.1	85.7 85.7 85.7 77.3 83.2 85.1 85.6 86.8 87.4 88.1 89.7 90.5 89.0 90.8 88.5 85.4 83.7 77.9 85.4 83.7 85.4 83.7 85.4 83.7 85.4 85.4 86.6 87.9 87.0 87.0 87.0 87.0 87.0 87.0 87.0 87.0	81.6 86.7 89.2 87.8 90.7 91.0 89.3 89.5 89.5 89.5 89.5 89.6 80.3 84.4 87.7 87.9 88.9 87.6 88.0 88.0 88.0 89.2 89.2 89.2 89.3 89.5 89.3 89.5 89.6 89.6 89.6 89.6 89.6 89.6 89.6 89.6	94.5 95.1 96.8 96.3 96.3 96.3 96.3 96.3 86.9	81.1 83.4 90.0 90.9 83.9 89.1 88.4 90.0 88.5 88.5 88.5 88.5 88.5 88.5 88.5 8	83.8 87.8 91.0 91.4 85.0 85.0 85.0 88.1 81.5 68.1 92.1 187.3 75.2 86.2 85.9 78.8 77.3 77.6 67.4 58.5 86.5 85.9 77.3 77.9 98.1 48.5 86.5 86.5 86.7 88.4 77.3 77.9 79.9 81.4 81.5 86.5 86.5 86.7 77.3 77.3 77.3 77.3 77.3 77.3 77.3 7	83.4 84.6 84.6 88.2 89.1 85.6 79.6 83.2 73.6 79.8 80.2 73.6 79.8 81.7 79.3 77.1 78.8 81.7 78.8 81.7 78.8 81.7 78.1 78.2 78.2 78.2 78.2 78.2 78.2 78.2 78.2
July	76.7 76.7 77.5 77.6 77.7 78.1 77.8 78.1	74.4 74.4 75.0 75.3 75.6 75.3 75.9	73.0 73.6 73.9 74.2 74.6 74.4 75.0	77.1 77.1 77.6 77.4 77.7 77.8 77.4 78.0	62.8 63.0 64.8 65.7 65.6 64.3 65.8	89.1 90.0 90.8 90.9 92.2 92.6 92.8	79.5 79.5 82.0 81.0 79.8 79.6 79.0 76.8	87.2 88.2 88.6 89.3 90.2 90.2	73.9 73.9 75.0 74.8 74.9 74.7 74.5 74.8	75.9 75.8 76.1 76.4 76.4 77.1 76.6 76.9

¹ Output as percent of capacity. ² See footnote 1 and Note, Table B–51.

TABLE B-55. New construction activity, 1967-2011

[Value put in place, billions of dollars; monthly data at seasonally adjusted annual rates]

			,		- Inuai rates	_	lic construc	tion					
Year or month	Total new con-		Resid build	ential ings ¹		Nor	nresidentia other cor	l buildings nstruction	and				State
rour or moner	struc- tion	Total	Total ²	New housing units ³	Total	Lodging	Office	Commer- cial ⁴	Manu- factur- ing	Other ⁵	Total	Federal	and local
1967 1968 1969	87.2 96.8 104.9	61.8 69.4 77.2	28.7 34.2 37.2	21.5 26.7 29.2	33.1 35.2 39.9						25.4 27.4 27.8	3.3 3.2 3.2	22.1 24.2 24.6
1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980	105.9 122.4 139.1 153.8 155.2 152.6 172.1 200.5 239.9 272.9 273.9 289.1	78.0 92.7 109.1 121.4 117.0 109.3 128.2 157.4 189.7 216.2 210.3	35.9 48.5 60.7 65.1 56.0 51.6 68.3 92.0 109.8 116.4 100.4	27.1 38.7 50.1 54.6 43.4 36.3 50.8 72.2 85.6 89.3 69.6	42.1 44.2 48.4 56.3 61.1 57.8 59.9 65.4 79.9 99.8 109.9						27.9 29.7 30.0 32.3 38.1 43.3 44.0 43.1 50.1 56.6 63.6 64.7	3.1 3.8 4.2 4.7 5.1 6.8 7.1 8.6 9.6 10.4	24.8 25.9 25.8 27.6 33.0 37.2 36.0 42.0 48.1 54.0 54.3
1982 1983 1984 1985 1986 1987 1988	279.3 311.9 370.2 403.4 433.5 446.6 462.0 477.5	224.4 216.3 248.4 300.0 325.6 348.9 356.0 367.3 379.3	84.7 125.8 155.0 160.5 190.7 199.7 204.5 204.3	57.0 95.0 114.6 115.9 135.2 142.7 142.4 143.2	131.6 122.6 144.9 165.1 158.2 156.3 162.8 175.1						63.1 63.5 70.2 77.8 84.6 90.6 94.7 98.2	10.4 10.0 10.6 11.2 12.0 12.4 14.1 12.3 12.2	53.1 52.9 59.0 65.8 72.2 76.6 82.5 86.0
1990 1991 1992 1993 1994 1995 1996 1997 1998	476.8 432.6 463.7 485.5 531.9 548.7 599.7 631.9 688.5 744.6	369.3 322.5 347.8 358.2 401.5 408.7 453.0 478.4 533.7 575.5	191.1 166.3 199.4 208.2 241.0 228.1 257.5 264.7 296.3 326.3	132.1 114.6 135.1 150.9 176.4 171.4 191.1 198.1 224.0 251.3	178.2 156.2 148.4 150.0 160.4 180.5 195.5 213.7 237.4 249.2	4.6 4.7 7.1 10.9 12.9 14.8 16.0	20.0 20.4 23.0 26.5 32.8 40.4 45.1	34.4 39.6 44.1 49.4 53.1 55.7 59.4	23.4 28.8 35.4 38.1 37.6 40.5 35.1	67.7 66.9 70.9 70.6 77.3 86.0 93.7	107.5 110.1 115.8 127.4 130.4 140.0 146.7 153.4 154.8 169.1	12.1 12.8 14.4 14.4 15.8 15.3 14.1 14.3	95.4 97.3 101.5 112.9 116.0 124.3 131.4 139.4 140.5 155.1
2000	802.8 840.2 847.9 891.5 991.4 1,104.1 1,167.2 1,152.4 1,067.6 903.2	621.4 638.3 634.4 675.4 771.2 870.0 911.8 863.3 758.8 588.3	346.1 364.4 396.7 446.0 532.9 611.9 613.7 493.2 350.3 245.9	265.0 279.4 298.8 345.7 417.5 480.8 468.8 354.1 230.1 133.9	275.3 273.9 237.7 229.3 238.3 258.1 298.1 370.0 408.6 342.4	16.3 14.5 10.5 9.9 12.0 12.7 17.6 27.5 35.4 25.4	52.4 49.7 35.3 30.6 32.9 37.3 45.7 53.8 55.5 37.3	64.1 63.6 59.0 57.5 63.2 66.6 73.4 85.9 82.7 50.5	37.6 37.8 22.7 21.4 23.2 28.4 32.3 40.2 52.8 56.3	104.9 108.2 110.2 109.9 107.0 113.1 129.2 162.7 182.3 173.0	181.3 201.9 213.4 216.1 220.2 234.2 255.4 289.1 308.7 314.9	14.2 15.1 16.6 17.9 18.3 17.3 17.6 20.6 23.7 28.4	167.2 186.8 196.9 198.2 201.8 216.9 237.8 268.5 285.0 286.5
2010	803.6 813.4 795.2 806.7 819.7 811.2 810.4 7891.7 797.3 802.0 803.0 782.9	500.6 519.3 505.8 510.4 515.4 506.8 501.9 487.6 484.1 482.9 492.9 502.3 489.0	238.8 254.5 242.7 244.5 252.7 245.2 240.9 235.6 228.9 228.2 235.0 235.7 230.0	127.2 130.5 130.7 131.1 134.0 133.5 132.4 129.7 123.4 121.5 120.4 121.2	261.8 264.8 263.0 265.9 262.6 261.5 261.0 252.0 255.2 254.8 257.9 266.6 259.0	10.9 13.6 12.9 11.8 11.4 11.0 10.6 10.5 10.6 9.5 9.6 9.2	24.2 27.1 27.8 25.1 24.8 24.2 23.8 22.5 23.5 23.9 23.6 22.3 22.9	37.6 39.9 38.8 38.5 38.4 37.7 39.1 36.5 37.9 37.0 36.3 36.2 35.5	37.5 40.7 41.4 47.1 42.0 39.3 38.5 36.2 35.2 35.1 33.2 32.7 30.3	151.5 143.5 142.2 143.4 146.0 149.4 148.9 148.1 148.8 155.5 165.7	303.0 294.2 289.5 296.3 304.4 304.5 308.6 301.4 307.6 314.3 309.1 300.7 293.9	30.8 27.3 28.9 29.3 32.4 31.8 33.1 30.4 29.7 32.4 31.8 28.6	272.2 266.8 260.5 267.0 272.0 272.7 275.5 271.0 277.9 282.0 276.7 269.0 265.4
2011: Jan	772.0 764.2 762.6 768.2 787.4 799.6 773.3 790.3 799.0 797.4 807.1	482.1 478.7 477.2 488.4 508.9 515.9 496.0 506.1 513.6 517.3 522.3	237.6 233.4 227.3 238.3 249.0 243.9 225.3 229.9 233.4 238.9 243.7	121.5 120.7 119.4 119.3 119.1 119.2 120.7 122.3 122.1 122.6 124.4	244.5 245.3 249.9 250.1 259.8 271.9 270.7 276.2 280.2 278.5 278.6	8.1 8.0 8.2 7.7 7.7 8.1 7.8 7.9 8.0 7.5	22.1 21.6 21.8 21.4 22.7 23.5 23.2 22.7 22.8 23.2 22.8	37.0 37.3 37.0 38.0 39.7 42.0 42.5 42.3 41.5 40.9	29.2 30.1 31.5 32.3 33.2 37.7 35.4 39.5 39.5 37.4 36.9	148.0 148.3 151.3 150.7 156.4 160.6 161.8 163.8 168.5 169.5	289.9 285.5 285.4 279.8 278.5 283.7 277.3 284.2 285.4 280.1 284.9	30.3 30.2 30.0 29.2 29.8 29.2 28.2 29.7 28.3 26.2 27.6	259.6 255.3 255.4 250.6 248.7 254.5 249.2 254.5 257.1 253.9 257.3

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, 1965-2011

[Thousands; monthly data at seasonally adjusted annual rates]

				nitiny data a				1		
		New housing			IN		nits authorized	-	New	New
Year or month		Type of s	structure			Type of s	structure		housing units	houses
	Total	1 unit	2 to 4 units ²	5 units or more	Total	1 unit	2 to 4 units	5 units or more	completed	sold
1965	1,472.8	963.7	86.7	422.5	1,240.6	709.9	84.7	445.9		575
1966	1,164.9	778.6	61.2	325.1	971.9	563.2	61.0	347.7		461
1967	1,291.6	843.9	71.7	376.1	1,141.0	650.6	73.0	417.5	4 040 0	487
1968 1969	1,507.6 1,466.8	899.4 810.6	80.7 85.1	527.3 571.2	1,353.4 1,322.3	694.7 624.8	84.3 85.2	574.4 612.4	1,319.8 1,399.0	490 448
	1,433.6		84.9	535.9		646.8	88.1		1,418.4	485
1970 1971	2,052.2	812.9 1,151.0	120.5	780.9	1,351.5 1,924.6	906.1	132.9	616.7 885.7	1,418.4	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	2.045.3	1,132.0	118.2	795.0	1,819.5	882.1	117.0	820.5	2.100.5	634
1974 1975	1,337.7 1,160.4	888.1 892.2	68.0 64.0	381.6 204.3	1,074.4 939.2	643.8 675.5	64.4 63.8	366.2 199.8	1,728.5 1.317.2	519 549
1976	1,537.5	1,162.4	85.8	289.2	1,296.2	893.6	93.1	309.5	1,377.2	646
1977	1,987.1 2,020.3	1,450.9	121.7	414.4	1.690.0	1,126.1	121.3	442.7	1,657.1	819
19/8	2,020.3	1,433.3	125.1	462.0	1,800.5	1,182.6	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 1981	1,292.2	852.2 705.4	109.5 91.2	330.5 287.7	1,190.6 985.5	710.4 564.3	114.5 101.8	365.7 319.4	1,501.6 1,265.7	545 436
1982	1,084.2 1,062.2	662.6	80.1	319.6	1,000.5	546.4	88.3	365.8	1,005.5	412
1983	1,703.0	1,067.6	113.5	522.0	1,605.2	901.5	133.7	570.1	1,390.3	623
1984	1,749.5	1,084.2	121.4 93.5	543.9	1,681.8 1,733.3	922.4 956.6	142.6	616.8	1,652.2	639 688
1985	1,741.8 1,805.4	1,072.4 1,179.4	84.0	576.0 542.0	1,769.4	1,077.6	120.1 108.4	656.6 583.5	1,703.3 1,756.4	750
198/	1,620.5 1,488.1	1,146.4 1,081.3	65.1 58.7	408.7	1,534.8	1,024.4 993.8	89.3 75.7	421.1	1.668.8	671
1988	1,488.1	1,081.3	58.7	348.0	1,455.6	993.8	75.7	386.1	1,529.8	676
1989	1,376.1	1,003.3	55.3	317.6	1,338.4	931.7	66.9	339.8	1,422.8	650
1990	1,192.7	894.8 840.4	37.6 35.6	260.4 137.9	1,110.8 948.8	793.9 753.5	54.3 43.1	262.6 152.1	1,308.0 1,090.8	534 509
1991 1992	1,013.9 1,199.7	1,029.9	30.9	137.5	1.094.9	910.7	45.8	138.4	1,157.5	610
1993	1,287.6	1,125.7	29.4	132.6	1,199.1	986.5	52.4	160.2	1,192.7	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
1997	1.474.0	1,133.7	44.5	295.8	1.441.1	1.062.4	68.4	310.3	1.400.5	804
1998	1,616.9	1,133.7 1,271.4	42.6	302.9	1,612.3	1,187.6	69.2	355.5	1,474.2	886
1999	1,640.9	1,302.4	31.9	306.6	1,663.5	1,246.7	65.8	351.1	1,604.9	880
2000	1,568.7	1,230.9 1,273.3	38.7 36.6	299.1 292.8	1,592.3	1,198.1 1,235.6	64.9	329.3	1,573.7	877 908
2001	1,602.7 1,704.9	1,273.3	38.5	307.9	1,636.7 1,747.7	1,233.6	66.0 73.7	335.2 341.4	1,570.8 1,648.4	973
2003	1,847.7	1,499.0	33.5	315.2	1,889.2	1,460.9	82.5	345.8	1,678.7	1,086
2004	1,955.8	1,610.5	42.3	303.0	2,070.1	1,613.4	90.4	366.2	1,841.9	1,203
2005 2006	2,068.3 1,800.9	1,715.8 1,465.4	41.1 42.7	311.4 292.8	2,155.3 1,838.9	1,682.0 1,378.2	84.0 76.6	389.3 384.1	1,931.4 1,979.4	1,283 1,051
2007	1.355.0	1.046.0	31.7	277.3	1,398.4	979 9	59.6	359.0	1,502.8	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 ^p	586.9 606.9	471.2 428.6	11.4 10.8	104.3 167.4	604.6 610.7	447.3 413.6	22.0 20.7	135.3 176.4	651.7 583.9	323 302
2010: Jan		420.0 510		98		413.0 508		170.4	662	346
Feb	615 603	522		96 64	636 655	514	20 22	119	660	344
Mar	626	531		87	688	533	22 23	132	651	385
Apr	687	566		108	632	473	19	140	744	420
May June	580 539	460 451		108 83	582 585	435 423	20 21	127 141	702 881	281 307
July	550	429		102	575	409	22	144	581	279
Aug	606	427		165	575	405	21 25	149	607	278
Sept	597 539	447 434		144 93	562	403 407	25 24	134 124	634 601	316 282
Oct Nov	551	454 454		82	555 564	407	24	124	551	287
Dec	526	421		97	630	445	20 25	160	565	331
2011: Jan	636	437		187	568	419	20	129	509	310
Feb	518	388		112	534	382	15	137	611	281
Mar	593 549	418 411		164 124	574 563	392 395	16 21	166 147	597 543	305 316
Apr May	553	411		131	609	406	20	183	549	308
June	615	449		160	617	402	21 21	194	574	303
July	615	430		176	601	403	21	177	641	295
Aug Sept	585 646	425 422		153 218	625 589	418 413	25	182 156	621 608	290 302
Oct	628	437		175	644	428	25 20 23 21	193	576	307
Nov p	685	450		227	680	436		223	554	314
Dec ^p	657	470		164	671	441	24	206	605	307

¹ Authorized by issuance of local building permits in permit-issuing places: 20,000 places beginning with 2004; 19,000 for 1994–2003; 17,000 for 1984–93; 16,000 for 1978–83; 14,000 for 1972–77; 13,000 for 1967–71; and 12,000 for 1965–66.

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, 1970-2011

[Amounts in millions of dollars; monthly data seasonally adjusted]

V		manufactur and trade	ing	М	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 1970 1971 1972 1973 1974 1975 1976 1976 1977 1978	108,221 116,895 131,081 153,677 177,912 182,198 204,150 229,513 260,320 297,701	178,594 188,991 203,227 234,406 287,144 288,992 318,345 350,706 400,931 452,640	1.65 1.62 1.55 1.53 1.61 1.59 1.56 1.53 1.54	52,805 55,906 63,027 72,931 84,790 86,589 98,797 113,201 126,905 143,936	101,599 102,567 108,121 124,499 157,625 159,708 174,636 188,378 211,691 242,157	1.92 1.83 1.72 1.71 1.86 1.84 1.77 1.66 1.67	24,167 26,492 29,866 38,115 47,982 46,634 50,698 56,136 66,413 79,051	33,354 36,568 40,297 46,918 58,667 57,774 64,622 73,179 86,934 99,679	1.38 1.35 1.23 1.22 1.24 1.27 1.30 1.31	31,249 34,497 38,189 42,631 45,141 48,975 54,655 60,176 67,002 74,713	43,641 49,856 54,809 62,989 70,852 71,510 79,087 89,149 102,306 110,804	1.40 1.45 1.48 1.57 1.46 1.45 1.48 1.53 1.48	
1980 1981 1982 1983 1983 1985 1986 1987 1988 1989 1989	327,233 355,822 347,625 369,286 410,124 422,583 430,419 457,735 497,157 527,039 545,909 542,815 567,176	508,924 545,786 573,908 590,287 649,780 664,039 662,738 709,848 767,222 815,455 840,594 834,609 842,809	1.56 1.53 1.67 1.56 1.53 1.56 1.55 1.50 1.49 1.52 1.52 1.53 1.48	154,391 168,129 163,351 172,547 190,682 194,538 194,657 206,326 224,619 236,698 242,686 239,847 250,394	265,215 283,413 311,852 312,379 339,516 334,749 322,654 338,109 369,374 391,212 405,073 390,950 382,510	1.72 1.69 1.95 1.78 1.73 1.73 1.68 1.59 1.63 1.65 1.65	93,099 101,180 95,211 99,225 112,199 113,459 114,960 122,968 134,521 143,760 149,506 148,306 154,150	122,631 129,654 127,428 130,075 142,452 147,409 153,574 163,903 178,801 187,009 195,833 200,448 208,302	1.32 1.28 1.36 1.28 1.23 1.28 1.32 1.29 1.30 1.28 1.29 1.33 1.33	79,743 86,514 89,062 97,514 107,243 114,586 120,803 128,442 138,017 146,581 153,718 154,661 162,632	121,078 132,719 134,628 147,833 167,812 181,881 186,510 207,836 219,047 237,234 239,688 243,211 251,997	1.52 1.53 1.49 1.44 1.49 1.52 1.56 1.55 1.54 1.58 1.56 1.54 1.54	
1992 NAICS: 6 1992 1993 1994 1995 1996 1997 1998 1999	540,573 567,580 610,253 655,097 687,350 723,879 742,837 786,634	836,934 864,049 927,272 986,059 1,005,436 1,046,701 1,078,659 1,138,831	1.53 1.50 1.46 1.48 1.46 1.42 1.43	242,002 251,708 269,843 289,973 299,766 319,558 324,984 335,991	378,651 379,681 399,852 424,742 430,446 443,529 448,974 463,529	1.57 1.50 1.44 1.44 1.37 1.39 1.35	147,261 154,018 164,575 179,915 190,362 198,154 202,260 216,597	196,914 204,842 221,978 238,392 241,053 258,557 272,416 290,317	1.31 1.30 1.29 1.29 1.27 1.26 1.32 1.30	151,310 161,854 175,835 185,209 197,222 206,167 215,592 234,046	261,369 279,526 305,442 322,925 333,937 344,615 357,269 384,985	1.67 1.68 1.66 1.72 1.67 1.64 1.62 1.59	168,261 179,858 194,638 204,677 217,463 227,670 238,275 257,793
2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010	834,325 818,615 823,714 854,760 925,785 1,004,510 1,066,641 1,124,962 1,154,686 981,801 1,074,129	1,197,344 1,120,103 1,140,578 1,148,886 1,242,087 1,313,706 1,406,860 1,483,244 1,465,304 1,328,900 1,442,548	1.41 1.43 1.36 1.34 1.30 1.27 1.28 1.29 1.32 1.39	350,715 330,875 326,227 334,616 359,081 395,173 417,963 443,288 455,675 369,683 401,654	481,233 427,806 422,953 408,273 440,780 473,977 522,693 562,058 550,196 512,889 557,617	1.35 1.38 1.29 1.24 1.19 1.17 1.20 1.22 1.27 1.41	234,546 232,096 236,294 247,798 276,668 301,280 325,334 347,857 369,601 308,912 348,353	309,299 297,657 301,440 308,321 339,971 367,535 397,823 422,813 438,461 386,846 429,439	1.29 1.32 1.26 1.23 1.18 1.18 1.18 1.21 1.30	249,063 255,644 261,194 272,346 290,036 308,058 323,345 333,817 329,411 303,206 324,122	406,812 394,640 416,185 432,292 461,336 472,194 486,344 498,373 476,647 429,165 455,492	1.59 1.58 1.55 1.56 1.56 1.51 1.49 1.48 1.51 1.46	274,511 282,122 288,834 301,586 321,253 341,171 358,681 370,973 367,458 340,977
2010: Jan	1,033,676 1,036,520 1,058,286 1,067,887 1,061,363 1,056,919 1,069,471 1,074,608 1,083,695 1,083,722 1,113,873 1,129,958	1,330,844 1,339,482 1,347,309 1,353,757 1,356,650 1,366,666 1,379,763 1,390,434 1,405,404 1,421,984 1,428,094 1,442,548	1.29 1.27 1.27 1.28 1.29 1.29 1.30 1.29 1.28 1.28	391,192 389,580 397,323 400,920 396,819 393,959 402,458 401,696 405,645 408,082 412,779 423,543	513,731 518,607 520,370 523,410 523,255 527,044 530,012 532,323 537,957 544,410 550,059 557,617	1.31 1.33 1.31 1.31 1.32 1.34 1.32 1.33 1.33 1.33 1.33	329,180 333,259 339,776 343,974 343,911 342,915 346,266 348,340 350,599 359,126 366,508 369,558	387,319 388,751 391,073 392,904 395,041 396,093 401,909 406,008 412,769 424,107 424,466 429,439	1.18 1.17 1.15 1.14 1.15 1.16 1.17 1.18 1.18 1.16	313,304 313,681 321,187 322,993 320,633 320,045 320,747 324,572 327,451 331,514 334,586 336,857	429,794 432,124 435,866 437,443 438,354 443,529 447,842 452,103 454,678 453,467 453,569 455,492	1.37 1.38 1.36 1.35 1.37 1.39 1.40 1.39 1.39 1.37 1.36 1.35	351,079 352,109 359,877 361,735 359,262 358,722 359,446 363,666 366,417 370,676 373,952 376,208
2011: Jan	1,152,600 1,156,451 1,184,017 1,185,358 1,183,605 1,189,393 1,197,413 1,202,502 1,209,576 1,217,102	1,456,470 1,467,232 1,485,581 1,499,705 1,513,687 1,519,853 1,527,659 1,533,170 1,533,506 1,545,123 1,550,126	1.26 1.27 1.25 1.27 1.28 1.28 1.28 1.27 1.27 1.27	431,064 431,886 445,386 443,493 443,344 446,021 451,182 451,411 452,874 454,918 455,028	565,167 571,854 580,076 588,509 592,935 595,119 598,758 600,709 601,587 607,016 609,814	1.31 1.32 1.30 1.33 1.34 1.33 1.33 1.33 1.33 1.33	381,889 380,832 392,436 394,549 393,520 396,023 397,264 401,187 402,383 405,640 407,901	433,785 438,114 443,611 448,319 456,028 458,883 462,401 462,699 462,842 468,281 468,878	1.14 1.15 1.13 1.14 1.16 1.16 1.15 1.15 1.15	339,647 343,733 346,195 347,316 346,741 347,349 348,967 349,904 354,319 356,544 357,923	457,518 457,264 461,894 462,877 464,724 465,851 466,500 469,762 469,077 469,826 471,434	1.35 1.33 1.33 1.34 1.34 1.34 1.34 1.32 1.32 1.32	379,257 384,044 386,960 387,705 387,522 388,284 389,934 391,074 396,049 398,645 400,268

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, 1970-2011

[Millions of dollars; monthly data seasonally adjusted]

		Shipments ¹				ily data 30		Inventories 2	2			
			Non-		[Ourable goo	ds industrie	s	No	ondurable go	oods 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 1970 1971 1971 1972 1973 1974 1975 1976 1977 1978 1980 1981 1982 1983 1984 1985 1986 1987 1988	52,805 55,906 63,027 72,931 84,790 86,589 98,791 113,201 126,905 143,936 168,129 163,351 179,682 194,538 194,657 206,326 224,619	28,156 29,924 33,987 39,635 44,173 43,598 50,623 59,168 67,731 75,927 79,212 83,727 79,212 101,279 101,279 103,238 108,128 118,458	24,649 25,982 29,040 33,296 40,617 42,991 48,174 54,033 59,174 68,009 84,402 84,402 84,402 93,259 91,419 98,198 106,611 113,540	101,599 102,567 108,121 124,499 157,625 159,708 174,636 188,378 211,691 242,157 283,413 311,852 312,379 339,516 334,743 322,654 338,109 369,374	66,651 66,136 70,067 81,192 101,493 102,590 111,388 120,877 138,181 160,734 174,788 186,443 200,444 199,854 221,330 218,193 211,997 220,799 242,468 257,513	19,149 19,679 20,807 25,944 35,977 40,186 45,198 52,670 55,173 57,998 59,136 60,325 66,031 63,904 61,331 63,562 68,611 72,431	29,745 28,550 30,713 35,490 42,530 43,227 46,074 50,226 58,848 69,325 76,945 80,999 98,251 98,162 97,000 102,393 112,958	17,757 17,907 18,547 19,758 23,893 25,460 28,457 30,465 34,135 38,739 42,670 47,447 52,630 57,048 56,127 53,666 54,844 59,899 62,827	34,948 36,431 38,054 43,307 56,132 57,118 62,648 67,501 73,510 81,423 90,427 96,970 111,408 112,525 118,186 110,657 117,310 126,906	13,168 13,686 14,677 18,147 23,744 23,565 25,847 29,619 32,814 36,606 44,039 44,816 44,039 44,106 42,335 45,319 49,396 50,674	5,271 5,678 5,998 6,729 8,189 8,834 9,929 10,961 12,085 13,910 16,194 16,194 18,691 19,328 19,442 19,270 20,559 21,653	16,509 17,067 17,379 18,431 24,199 24,719 26,872 29,153 31,806 34,699 37,997 42,611 48,757 49,018 53,166 53,008 50,198 52,721 56,937
1990 1991 1992 <i>NAICS</i> : ³ 1992	242,686 239,847 250,394	123,756 123,776 121,000 128,489	118,910 118,847 121,905	405,073 390,950 382,510	263,209 250,019 238,105	72,435 73,559 70,834 69,459	124,130 114,960 104,424	62,827 65,520 64,225 64,222	141,864 140,931 144,405	50,674 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	378,651 379,681 399,852 424,742 430,446 443,529 448,974 463,529	237,901 238,721 253,073 267,362 272,472 281,013 290,532 296,483	69,649 72,624 78,559 85,528 86,287 92,298 93,553 97,858	104,182 102,013 106,538 106,647 110,596 109,922 115,143 114,006	64,070 64,084 67,976 75,187 75,589 78,793 81,836 84,619	140,750 140,960 146,779 157,380 157,974 162,516 158,442 167,046	53,131 54,204 57,067 60,753 59,176 60,169 58,255 61,065	23,430 23,401 24,448 25,780 26,478 28,535 27,096 28,774	64,189 63,355 65,264 70,847 72,320 73,812 73,091 77,207
2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2009	350,715 330,875 326,227 334,616 359,081 395,173 417,963 443,288 455,675 369,683	197,807 181,201 176,968 178,549 188,722 202,070 213,516 223,919 218,328 173,124	152,908 149,674 149,259 156,067 170,359 193,103 204,447 219,369 237,347 196,559	481,233 427,806 422,953 408,273 440,780 473,977 522,693 562,058 550,196 512,889	306,392 267,626 260,406 246,868 264,993 283,820 317,653 334,850 334,094 304,120	106,014 91,223 88,475 82,289 92,102 98,504 111,603 116,458 118,559 102,429	110,991 93,820 92,337 88,641 91,070 98,716 106,639 117,731 114,062 111,422	89,387 82,583 79,594 75,938 81,821 86,600 99,411 100,661 101,473 90,269	174,841 160,180 162,547 161,405 175,787 190,157 205,040 227,208 216,102 208,769	61,488 55,766 56,627 56,916 61,877 66,922 70,340 75,202 72,150 71,318	30,013 27,058 27,813 27,011 29,862 32,788 36,925 44,825 40,953 41,588	83,340 77,356 78,107 77,478 84,048 90,447 97,775 107,181 102,999 95,863
2010	401,654 391,192 389,580 397,323 400,920 396,819 393,959 402,458 401,696 405,645 408,082 412,779 423,543	183,860 179,956 176,370 178,329 182,666 183,181 182,195 189,034 186,085 186,539 186,013 185,931 190,248	217,793 211,236 213,210 218,994 218,254 213,638 211,764 213,424 215,611 219,106 222,069 226,848 233,295	557,617 513,731 518,607 520,370 523,410 523,255 527,044 530,012 532,323 537,957 544,410 550,059 557,617	334,238 304,916 307,170 308,422 311,159 314,559 318,655 320,521 323,178 326,081 328,558 331,583 334,238	109,104 102,004 103,189 103,493 103,925 104,885 106,455 106,219 106,511 106,728 107,458 108,190 109,104	127,634 112,356 113,659 114,026 115,845 117,055 118,580 119,444 120,768 122,594 123,683 125,272 127,634	97,500 90,556 90,322 90,903 91,389 92,619 93,620 94,858 95,899 96,759 97,417 98,121 97,500	223,379 208,815 211,437 211,948 212,251 208,696 208,389 209,491 209,145 211,876 215,852 218,476 223,379	76,636 70,675 71,900 72,338 71,434 69,622 69,802 70,670 69,984 71,397 72,514 73,908 76,636	44,011 40,926 41,657 41,991 42,118 40,851 40,634 40,380 40,579 40,632 41,862 42,371 44,011	97,214 97,880 97,619 98,699 98,223 97,953 98,441 98,582 99,847 101,476 102,197 102,732
2011: Jan	431,064 431,886 445,386 443,493 443,344 446,021 451,182 451,411 452,874 454,918 455,028	190,912 190,921 196,879 194,103 195,099 197,263 201,376 201,505 200,700 203,613 202,919	240,152 240,965 248,507 249,390 248,245 248,758 249,806 249,906 252,174 251,305 252,109	565,167 571,854 580,076 588,509 592,935 595,119 598,758 600,709 601,587 607,016 609,814	337,495 341,416 347,292 351,488 355,983 358,215 362,100 365,291 365,314 366,881 369,001	110,243 110,901 112,099 113,622 114,806 114,983 115,723 116,558 116,869 117,064 117,551	129,003 130,592 134,135 135,882 138,216 139,595 141,416 142,336 141,654 142,740 144,160	98,249 99,923 101,058 101,984 102,961 103,637 104,961 106,397 106,791 107,077 107,290	227,672 230,438 232,784 237,021 236,952 236,904 236,658 235,418 236,273 240,135 240,813	77,701 79,367 79,871 80,502 80,420 79,972 79,746 80,380 79,857 82,496 82,390	44,734 45,243 45,417 46,845 46,405 46,689 45,859 44,561 45,256 46,173 46,343	105,237 105,828 107,496 109,674 110,1243 111,053 110,477 111,160 111,466 112,080

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, 1970-2011

[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 1970 1971 1971 1972 1973 1974 1975 1976 1977 1977 1978 1980 1981 1982 1983	52,022 55,921 64,182 76,003 87,327 85,139 99,513 115,109 131,629 147,604 156,359 168,025 162,140 175,451 192,879	27,340 29,905 35,038 42,627 46,862 41,957 51,307 61,035 72,278 79,483 79,392 83,654 78,064 88,140 100,164	6,072 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	24,682 26,016 29,144 33,376 40,465 43,181 48,206 54,073 59,351 68,121 76,967 84,371 84,077 84,371 84,077	105,008 105,247 119,349 156,561 187,043 169,546 178,128 202,024 259,169 303,593 327,416 326,547 311,887 347,273 373,529	100,412 100,225 113,034 149,204 181,519 161,664 169,857 193,323 248,281 315,202 314,707 300,798 333,114 359,651	4,596 5,022 6,315 7,357 5,524 7,882 8,271 8,701 10,888 12,272 12,214 11,089 11,089 14,159 13,878	3.61 3.32 3.26 3.80 4.09 3.69 3.24 3.57 3.89 3.85 3.87 3.84 3.53 3.60	4.36 4.00 3.85 4.51 4.93 4.45 3.88 3.85 4.20 4.62 4.68 4.74 4.29 4.37	0.76 .76 .86 .91 .62 .82 .74 .71 .81 .82 .75 .69 .62
1985 1986 1987 1988 1989	195,706 195,204 209,389 228,270 239,572	102,356 103,647 110,809 122,076 126,055	24,545 23,982 26,094 31,108 32,988	93,351 91,557 98,579 106,194 113,516	387,196 393,515 430,426 474,154 508,849	372,097 376,699 408,688 452,150 487,098	15,099 16,816 21,738 22,004 21,751	3.67 3.59 3.63 3.64 3.96	4.47 4.41 4.43 4.46 4.85	.68 .70 .83 .76 .77
1990 1991 1992 NAICS: 3	244,507 238,805 248,212	125,583 119,849 126,308	33,331 30,471 31,524	118,924 118,957 121,905	531,131 519,199 492,893	509,124 495,802 469,381	22,007 23,397 23,512	4.15 4.08 3.51	5.15 5.07 4.30	.76 .79 .75
1992 1993 1994 1995 1996 1997 1998	246,668 266,641 285,542 297,282 314,986 317,345 329,770	128,672 143,803 154,137 162,399 174,377 178,327 187,674	40,681 45,175 51,011 54,066 60,697 62,133 64,392			451,078 425,743 434,795 447,180 488,462 512,714 495,995 505,322			5.14 4.66 4.21 3.97 4.15 4.04 3.97 3.76	
2000 2001 2002 2003 2004 2005 2006 2006 2007 2008	346,789 322,088 318,226 330,943 356,941 396,372 423,199 449,200 453,146	193,881 172,413 168,968 174,876 186,583 203,269 218,752 229,831 215,799	69,278 57,667 51,861 53,102 57,304 67,552 73,977 79,850 73,192			549,291 506,479 471,832 494,444 541,253 629,707 762,287 904,425 943,517			3.87 4.18 4.07 4.03 4.13 4.20 4.71 5.25 6.03	
2010 2010: Jan	352,806 398,235 385,593	156,247 180,442 174,357	50,342 64,531 58,327			800,448 831,740 801,598			6.81 6.15 6.28	
Feb Mar Apr Apr May June July Aug Sept Oct Nov Dec	388,104 391,734 398,577 393,090 390,126 397,922 395,248 410,063 406,014 411,543 416,654	174,894 172,740 180,323 179,452 178,362 184,498 179,637 190,957 183,945 184,695 183,359	63,721 58,169 64,678 63,864 65,089 65,293 64,400 72,841 70,901 64,878 62,159			804,985 803,337 807,393 809,577 809,990 812,582 823,141 827,560 832,652 831,740			6.31 6.17 6.16 6.14 6.10 6.02 6.09 6.12 6.20 6.20 6.20	
2011: Jan	430,864 429,658 445,836 441,740 444,454 442,711 451,885 452,121 451,636 450,932 459,177	190,712 188,693 197,329 192,350 196,209 193,953 202,079 202,215 199,627 207,068	66,285 69,496 72,979 69,144 72,856 71,136 74,125 78,159 75,387 72,748 78,606			838,186 842,152 848,202 853,164 860,748 863,541 871,117 878,731 884,132 887,233 898,328			6.10 6.13 5.96 6.11 6.01 6.05 6.06 6.07 6.08 6.07 6.16	

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, 1968-2011

[For all urban consumers; 1982-84=100, except as noted]

V	A11.:4	Food bever		Assess	Ususias	Transpor-	Medical	Recre-	Education and	Other goods	F3
Year or month	All items	Total ¹	Food	Apparel	Housing	tation	care	ation ²	communi- cation ²	and services	Energy ³
1968 1969	34.8 36.7	36.2 38.1	35.3 37.1	53.7 56.8	32.0 34.0	34.3 35.7	29.9 31.9			36.9 38.7	24.2 24.8
1970 1971 1972	38.8 40.5 41.8	40.1 41.4 43.1	39.2 40.4 42.1	59.2 61.1 62.3	36.4 38.0 39.4 41.2	37.5 39.5 39.9	34.0 36.1 37.3			40.9 42.9 44.7	25.5 26.5 27.2
1973 1974 1975	44.4 49.3 53.8	48.8 55.5 60.2	48.2 55.1 59.8	64.6 69.4 72.5	45.8 50.7	41.2 45.8 50.1	38.8 42.4 47.5			46.4 49.8 53.9	29.4 38.1 42.1
1976 1977 1978	56.9 60.6 65.2	62.1 65.8 72.2	61.6 65.5 72.0	75.2 78.6 81.4	53.8 57.4 62.4	55.1 59.0 61.7	52.0 57.0 61.8			57.0 60.4 64.3	45.1 49.4 52.5
1979 1980 1981	72.6 82.4 90.9	79.9 86.7 93.5	79.9 86.8 93.6	90.9 95.3	70.1 81.1 90.4	70.5 83.1 93.2	67.5 74.9 82.9			68.9 75.2 82.6	65.7 86.0 97.7
1982 1983 1984	96.5 99.6 103.9	97.3 99.5 103.2	97.4 99.4 103.2	97.8 100.2 102.1	96.9 99.5 103.6	97.0 99.3 103.7	92.5 100.6 106.8			91.1 101.1 107.9	99.2 99.9 100.9
1985 1986 1987	107.6 109.6 113.6	105.6 109.1 113.5	105.6 109.0 113.5	105.0 105.9 110.6	107.7 110.9 114.2	106.4 102.3 105.4	113.5 122.0 130.1			114.5 121.4 128.5	101.6 88.2 88.6
1988 1989 1990	118.3 124.0 130.7	118.2 124.9 132.1	118.2 125.1 132.4	115.4 118.6 124.1	118.5 123.0 128.5	108.7 114.1 120.5	138.6 149.3 162.8			137.0 147.7 159.0	89.3 94.3 102.1
1991 1992 1993	136.2 140.3 144.5	136.8 138.7 141.6	136.3 137.9 140.9	128.7 131.9 133.7	133.6 137.5 141.2	123.8 126.5 130.4	177.0 190.1 201.4	90.7	85.5	171.6 183.3 192.9	102.5 103.0 104.2
1994 1995 1996	148.2 152.4 156.9	144.9 148.9 153.7	144.3 148.4 153.3	133.4 132.0 131.7	144.8 148.5 152.8	134.3 139.1 143.0	211.0 220.5 228.2	92.7 94.5 97.4	88.8 92.2 95.3	198.5 206.9 215.4	104.6 105.2 110.1
1997 1998 1999	160.5 163.0 166.6	157.7 161.1 164.6	157.3 160.7 164.1	132.9 133.0 131.3	156.8 160.4 163.9	144.3 141.6 144.4	234.6 242.1 250.6	99.6 101.1 102.0	98.4 100.3 101.2	224.8 237.7 258.3	111.5 102.9 106.6
2000 2001 2002	172.2 177.1 179.9	168.4 173.6 176.8	167.8 173.1 176.2	129.6 127.3 124.0	169.6 176.4 180.3	153.3 154.3 152.9	260.8 272.8 285.6	103.3 104.9 106.2	102.5 105.2 107.9	271.1 282.6 293.2	124.6 129.3 121.7
2003 2004 2005	184.0 188.9 195.3	180.5 186.6 191.2	180.0 186.2 190.7	120.9 120.4 119.5	184.8 189.5 195.7	157.6 163.1 173.9	297.1 310.1 323.2	107.5 108.6 109.4	109.8 111.6 113.7	298.7 304.7 313.4	136.5 151.4 177.1
2006 2007 2008	201.6 207.342 215.303	195.7 203.300 214.225	195.2 202.916 214.106	119.5 118.998 118.907	203.2 209.586 216.264	180.9 184.682 195.549	336.2 351.054 364.065	110.9 111.443 113.254	116.8 119.577 123.631	321.7 333.328 345.381	196.9 207.723 236.666
2009	214.537 218.056	218.249 219.984	217.955 219.625	120.078 119.503	217.057 216.256	179.252 193.396	375.613 388.436	114.272 113.313	127.393 129.919	368.586 381.291	193.126 211.449
2011 2010: Jan Feb	224.939 216.687 216.741	227.866 219.223 219.140	227.842 218.874 218.778	122.111 116.678 118.869	219.102 215.925 215.841	212.366 190.512 189.577	400.258 382.688 385.907	113.357 113.310 113.345	131.466 129.072 129.105	387.224 377.652 377.992	243.909 208.026 204.455
Mar Apr May	217.631 218.009 218.178	219.378 219.536 219.693	219.032 219.218 219.374	122.073 122.143 121.006	216.023 215.798 215.981	192.130 193.994 194.761	387.142 387.703 387.762	113.339 113.781 113.684	129.236 129.344 129.270	378.808 378.911 379.714	209.999 212.977 214.363
June July Aug	217.965 218.011 218.312	219.562 219.539 219.877	219.218 219.121 219.491	118.319 115.248 116.667	216.778 217.076 216.976	192.651 193.038 193.454	388.199 387.898 388.467	113.802 113.689 113.521	129.263 129.586 130.599	380.926 383.247 383.685	211.660 212.372 212.663
Sept Oct Nov	218.439 218.711 218.803	220.586 221.005 220.991	220.216 220.616 220.617	121.011 122.454 121.498	216.602 216.100 215.830	192.412 194.283 195.659	390.616 391.240 391.660	113.120 112.984 112.839	131.154 130.959 130.894	383.663 382.764 383.633	210.003 210.947 211.970
Dec 2011: Jan Feb	219.179 220.223 221.309	221.278 223.160 224.039	220.946 222.912	118.071 116.664 118.369	216.142 216.739 217.259	198.280 200.835 203.037	391.946 393.858 397.065	112.345 112.638 113.183	130.548 130.665 130.692	384.502 384.689 385.397	217.953 223.266 226.860
Mar Apr May	223.467 224.906 225.964	225.479 226.248 227.082	223.799 225.350 226.150 226.976	121.286 122.226 122.271	217.707 217.901 218.484	211.014 216.867 220.270	397.726 398.813 399.375	113.261 113.368 113.659	130.682 130.643 130.600	385.637 386.226 385.476	242.516 253.495 260.376
June July Aug	225.722 225.922 226.545	227.451 228.323 229.490	227.360 228.316 229.554	120.578 118.770 121.547	219.553 220.230 220.506	216.880 216.164 216.057	399.552 400.305 400.874	113.654 113.492 113.592	130.568 130.859 132.028	386.171 386.494 387.053	254.170 252.661 251.706
Sept Oct Nov	226.889 226.421 226.230	230.448 230.885 230.656	230.573 231.017 230.790	125.272 127.590 127.285	220.540 220.138 219.969	215.198 212.127 211.358	401.605 403.430 404.858	113.440 113.270 113.232	132.627 132.755 132.750	388.627 389.119 390.761	250.480 240.902 238.177
Dec	225.672	231.130	231.301	123.470	220.193	208.585	405.629	113.499	132.728	391.043	232.300

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, 1968-2011

[For all urban consumers; 1982–84=100, except as noted]

		Food and b	peverages					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 Total ²	Id energy Energy Services
1968 1969	36.2 38.1	35.3 37.1	36.3 38.0	32.9 34.9	32.0 34.0	30.1 32.6	43.3 44.7		27.4 28.0	21.7 22.1	23.9 24.3
1970 1971 1972 1973	40.1 41.4 43.1 48.8	39.2 40.4 42.1 48.2	39.9 40.9 42.7 49.7	37.5 39.4 41.0 44.2	36.4 38.0 39.4 41.2	35.5 37.0 38.7 40.5	46.5 48.7 50.4 52.5		29.1 31.1 32.5 34.3	23.1 24.7 25.7 27.5	25.4 27.1 28.5 29.9
1974 1975 1976 1977 1978 1979	55.5 60.2 62.1 65.8 72.2 79.9	55.1 59.8 61.6 65.5 72.0 79.9	57.1 61.8 63.1 66.8 73.8 81.8	49.8 54.5 58.2 62.6 68.3 75.9	45.8 50.7 53.8 57.4 62.4 70.1	44.4 48.8 51.5 54.9 60.5 68.9	55.2 58.0 61.1 64.8 69.3 74.3		40.7 45.4 49.4 54.7 58.5 64.8	34.4 39.4 43.3 49.0 53.0 61.3	34.5 40.1 44.7 50.5 55.0 61.0
1980 1981 1982 1983 1984 1985 1986 1987 1988	86.7 93.5 97.3 99.5 103.2 105.6 109.1 113.5 118.2 124.9	86.8 93.6 97.4 99.4 103.2 105.6 109.0 113.5 118.2 125.1	88.4 94.8 98.1 99.1 102.8 104.3 107.3 111.9 116.6 124.2	83.4 90.9 95.8 100.0 104.2 108.3 112.5 117.0 121.8 127.4	81.1 90.4 96.9 99.5 103.6 107.7 110.9 114.2 118.5 123.0	81.0 90.5 96.9 99.1 104.0 109.8 115.8 121.3 127.1 132.8	80.9 87.9 94.6 100.1 105.3 111.8 118.3 123.1 127.8 132.8	102.5 107.3 113.2 119.4 124.8 131.1 137.4	75.4 86.4 94.9 100.2 104.8 106.5 104.1 103.0 104.4 107.8	74.8 87.2 95.6 100.5 104.0 104.5 99.2 97.3 98.0 100.9	71.4 81.9 93.2 101.5 105.4 107.1 105.7 103.8 104.6 107.5
1990	132.1 136.8 138.7 141.6 144.9 153.7 157.7 161.1 164.6	132.4 136.3 137.9 140.9 144.3 148.4 153.3 157.3 160.7 164.1	132.3 135.8 136.8 140.1 144.1 148.8 154.3 158.1 161.1	133.4 137.9 140.7 143.2 145.7 149.0 152.7 157.0 161.1	128.5 133.6 137.5 141.2 144.8 148.5 152.8 156.8 160.4 163.9	140.0 146.3 151.2 155.7 160.5 165.7 171.0 176.3 182.1	138.4 143.3 146.9 150.3 154.0 157.8 162.0 166.7 172.1	144.8 150.4 155.5 160.5 165.8 171.3 176.8 181.9 187.8 192.9	111.6 115.3 117.8 121.3 122.8 123.7 127.5 130.8 128.5	104.5 106.7 108.1 111.2 111.7 111.5 115.2 117.9 113.7	109.3 112.6 114.8 118.5 119.2 119.2 122.1 125.1 121.2
2000 2001 2002 2003 2004 2005 2006 2007 2007 2008	168.4 173.6 176.8 180.5 186.6 191.2 195.7 203.300 214.225 218.249	167.8 173.1 176.2 180.0 186.2 190.7 195.2 202.916 214.106 217.955	167.9 173.4 175.6 179.4 186.2 189.8 193.1 201.245 214.125 215.124	169.0 173.9 178.3 182.1 187.5 193.4 199.4 206.659 215.769 223.272	169.6 176.4 180.3 184.8 189.5 195.7 203.2 209.586 216.264 217.057	193.4 200.6 208.1 213.1 218.8 224.4 232.1 240.611 246.666 249.354	183.9 192.1 199.7 205.5 211.0 217.3 225.1 234.679 243.271 248.812	198.7 206.3 214.7 219.9 224.9 230.2 238.2 246.235 252.426 256.610	137.9 150.2 143.6 154.5 161.9 179.0 194.7 200.632 220.018 210.696	122.8 135.4 127.2 138.2 144.4 161.6 177.1 181.744 200.808 188.113	128.0 142.4 134.4 145.0 150.6 166.5 182.1 186.262 202.212 193.563
2010 2011	219.984 227.866	219.625 227.842	215.836 226.201	226.114 231.401	216.256 219.102	248.396 251.646	249.385 253.638	256.584 259.570	214.187 220.367	189.286 193.648	192.886 194.386
2010: Jan	219.223 219.140 219.378 219.536 219.562 219.539 219.877 220.586 221.005 220.991 221.278	218.874 218.778 219.032 219.218 219.374 219.121 219.491 220.216 220.616 220.616	215.404 215.118 215.623 215.737 215.793 215.361 215.256 215.382 216.161 216.698 216.538	224.916 225.081 224.991 225.276 225.573 225.770 226.422 227.075 227.287 227.722	215.925 215.841 216.023 215.798 215.798 216.778 216.976 216.602 216.100 215.830 216.142	247.950 248.001 248.032 248.031 248.100 248.470 248.677 248.595 248.522 248.646 248.738	249.144 249.017 249.089 249.012 248.999 249.126 249.024 249.368 249.618 250.317 250.986	256.591 256.483 256.272 256.170 256.163 256.352 256.395 256.509 256.823 257.202 257.452	211.381 210.819 212.295 211.726 212.773 217.820 219.614 219.602 217.695 213.031 210.978 212.505	187.330 186.345 187.864 187.054 188.017 193.678 195.268 194.865 192.635 187.271 184.764 186.338	190.439 189.549 191.280 190.284 191.628 198.207 200.177 199.632 197.049 190.603 187.335 188.443
2011: Jan	223.160 224.039 225.479 226.248 227.082 227.451 228.323 229.490 230.448 230.885 230.656 231.130	222.912 223.799 225.350 226.150 226.976 227.360 228.316 229.554 230.573 231.017 230.790 231.301	220.016 221.241 223.430 224.233 225.356 225.588 226.891 228.354 229.739 230.196 229.380 229.982	228.181 228.606 229.282 230.082 230.501 231.097 231.580 232.513 233.032 233.459 234.046 234.435	216.739 217.259 217.707 217.901 218.484 219.553 220.230 220.506 220.540 220.138 219.969 220.193	249.462 249.886 250.310 250.447 251.422 252.155 252.546 252.647 253.101 253.312 253.716	251.555 251.829 252.145 252.221 252.393 252.592 253.085 254.003 254.628 255.651 256.367 257.189	257.775 258.073 258.263 258.400 258.587 259.010 259.573 260.178 260.459 261.034 261.503 261.982	214.045 215.587 216.672 217.254 219.956 225.022 226.643 226.493 226.409 220.450 218.199 217.674	187.704 189.006 190.071 190.622 193.498 199.122 200.587 200.144 199.814 193.058 190.444 189.711	189.088 189.837 190.213 190.459 193.698 200.191 202.002 201.564 201.270 193.843 190.572 189.891

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, 1968-2011-Continued

[For all urban consumers; 1982-84=100, except as noted]

				Transportation			Medical care			
			Priva	ate transporta	tion		Dublio		Modical	
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
1968 1969	34.3 35.7	34.8 36.0	50.7 51.5	50.7 51.5	30.9	26.8 27.6	28.7 30.9	29.9 31.9	45.0 45.4	27.9 30.2
1970 1971 1972	37.5 39.5 39.9	37.5 39.4 39.7	53.1 55.3 54.8	53.0 55.2 54.7	31.2 33.0 33.1	27.9 28.1 28.4	35.2 37.8 39.3	34.0 36.1 37.3	46.5 47.3 47.4	32.3 34.7 35.9
1973 1974 1975 1976 1977 1978	41.2 45.8 50.1 55.1 59.0	41.0 46.2 50.6 55.6 59.7	54.8 58.0 63.0 67.0 70.5	54.8 57.9 62.9 66.9 70.4	35.2 36.7 43.8 50.3 54.7	31.2 42.2 45.1 47.0 49.7	39.7 40.6 43.5 47.8 50.0	38.8 42.4 47.5 52.0 57.0	47.5 49.2 53.3 56.5 60.2	37.5 41.4 46.6 51.3 56.4 61.2
1978 1979 1980	61.7 70.5 83.1	62.5 71.7 84.2	75.9 81.9 88.5	75.8 81.8 88.4	55.8 60.2 62.3	51.8 70.1 97.4	51.5 54.9 69.0	61.8 67.5 74.9	64.4 69.0 75.4	67.2 74.8
1981 1982 1983 1984	93.2 97.0 99.3 103.7 106.4 102.3	93.8 97.1 99.3 103.6 106.2 101.2	93.9 97.5 99.9 102.6 106.1 110.6	93.7 97.4 99.9 102.8 106.1 110.6	76.9 88.8 98.7 112.5 113.7 108.8	108.5 102.8 99.4 97.9 98.7 77.1	85.6 94.9 99.5 105.7 110.5 117.0	82.9 92.5 100.6 106.8 113.5 122.0	83.7 92.3 100.2 107.5 115.2 122.8	82.8 92.6 100.7 106.7 113.2 121.9
1986 1987 1988 1989	105.4 108.7 114.1	104.2 107.6 112.9	114.4 116.5 119.2	114.6 116.9 119.2	113.1 118.0 120.4	80.2 80.9 88.5	121.1 123.3 129.5	130.1 138.6 149.3	131.0 139.9 150.8	130.0 138.3 148.9
1990 1991 1992 1993 1994 1995 1996 1997	120.5 123.8 126.5 130.4 134.3 139.1 143.0 144.3	118.8 121.9 124.6 127.5 131.4 136.3 140.0 141.0	121.4 126.0 129.2 132.7 137.6 141.0 143.7	121.0 125.3 128.4 131.5 136.0 139.0 141.4 141.7	117.6 118.1 123.2 133.9 141.7 156.5 157.0 151.1	101.2 99.4 99.0 98.0 98.5 100.0 106.3 106.2	142.6 148.9 151.4 167.0 172.0 175.9 181.9 186.7	162.8 177.0 190.1 201.4 211.0 220.5 228.2 234.6	163.4 176.8 188.1 195.0 200.7 204.5 210.4 215.3	162.7 177.1 190.5 202.9 213.4 224.2 232.4 239.1
1998 1999	141.6 144.4	137.9 140.5	143.4 142.9	140.7 139.6	150.6 152.0	92.2 100.7	190.3 197.7	242.1 250.6	221.8	246.8 255.1
2000 2001 2002 2003 2004 2005 2006 2007 2008 2009	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	142.8 142.1 140.0 137.9 137.1 137.6 136.254 134.194 135.623	139.6 138.9 137.3 134.7 133.9 135.9 136.4 135.865 135.401 136.685	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	193.396 212.366	188.747 207.641	138.005 141.883	138.094 142.226	143.128 149.011	239.178 302.619	251.351 269.403	388.436 400.258	314.717 324.089	411.208 423.810
2010: Jan Feb Feb Mar Apr Apr June July Aug Sept Oct Nov Dec	190.512 189.577 192.130 193.994 194.761 192.651 193.038 193.454 192.412 194.283 195.659 198.280	186.308 185.274 187.796 189.503 190.071 187.593 188.028 188.616 187.646 189.674 190.915	138.743 138.850 138.600 138.174 137.750 137.503 137.323 137.119 137.365 137.849 138.222 138.567	139.290 139.198 138.712 138.170 137.896 137.759 137.462 137.180 137.423 137.880 138.015	139.174 140.218 140.797 141.315 142.537 144.399 146.379 147.909 146.065 144.040 142.250	234.106 227.674 237.671 244.801 246.671 234.868 234.642 235.690 232.518 240.303 245.165 256.025	241.058 241.967 244.766 249.135 253.275 257.825 257.337 254.717 252.525 251.435 254.995 257.172	382.688 385.907 387.142 387.703 387.762 388.199 387.898 388.467 390.616 391.240 391.660 391.946	310.494 312.864 314.023 314.535 314.923 314.888 314.113 315.804 316.082 316.794 317.199	404.937 408.447 409.687 410.256 410.173 410.802 410.710 411.182 413.807 414.564 414.850 415.079
2011: Jan Feb	200.835 203.037 211.014 216.867 220.270 216.880 216.164 216.057 215.198 212.127 211.358 208.585	196.087 198.073 206.165 212.210 215.829 212.216 211.432 211.315 210.513 207.404 206.635 203.809	138.925 140.158 140.860 141.462 142.494 143.054 142.763 142.327 142.334 142.535 142.736 142.953	138.203 139.584 140.311 141.154 142.717 143.812 143.707 143.283 143.414 143.419 143.489 143.619	142.555 142.937 144.072 145.968 148.361 151.776 154.184 155.823 153.586 151.494 149.230 148.140	265.703 271.843 303.565 326.024 337.359 318.242 313.488 311.962 309.745 296.944 294.049 282.501	259.634 265.327 270.366 272.187 271.417 272.297 272.868 272.949 271.199 269.158 268.478 266.958	393.858 397.726 398.813 399.375 399.552 400.874 401.605 403.430 404.858 405.629	318.929 321.186 322.691 324.241 324.399 324.102 324.159 325.130 325.962 326.624 327.254	417.025 420.567 420.852 421.716 422.438 422.813 423.847 424.546 425.258 427.467 429.191 430.005

TABLE B-62. Consumer price indexes for commodities, services, and special groups, 1968-2011

[For all urban consumers; 1982-84=100, except as noted]

	Commodities					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
1968	34.8 36.7 38.8 40.5 41.8 44.3 53.8 56.9 65.2 72.6 82.4 90.9 96.5 99.6 103.9 107.6 118.3 118.3 113.6	38.1 39.9 41.7 43.5 44.5 53.5 58.2 60.7 64.2 68.8 76.6 86.0 93.2 97.0 97.0 99.8 103.2 105.4 101.4 101.7 111.5 116.7	40.0 41.7 43.4 45.1 46.1 47.7 52.8 57.6 60.5 63.8 67.5 75.3 85.7 93.1 96.9 100.0 103.1 101.7 101.7	30.3 32.4 35.0 37.0 38.4 40.1 43.8 48.0 52.0 60.8 67.5 77.9 88.1 99.4 104.6 109.9 111.9 120.2 125.7 131.9	34.9 36.8 39.0 40.8 42.0 43.7 48.0 52.5 56.0 63.9 71.2 81.5 90.4 99.7 104.0 108.0 118.3 113.6 118.3 123.7	35.9 38.0 42.0 43.4 46.1 50.6 55.1 58.2 61.9 66.7 73.4 81.9 90.1 96.1 96.1 96.1 104.3 108.4 112.6 112.	36.3 38.4 40.8 42.7 44.0 45.6 49.4 45.3 61.0 65.5 71.9 80.8 89.2 95.8 104.6 109.1 113.5 113.5 123.4 129.0	35.1 37.0 39.2 40.8 42.1 44.8 49.8 54.3 57.2 60.8 91.4 99.6 103.7 107.8 112.6 112.6 112.4	37.7 39.4 41.3 43.1 44.4 47.2 51.9 56.2 59.4 63.2 67.5 77.0 82.3 90.1 95.6 99.6 103.9 107.6 109.6 1113.3 1113.3 1124.0	104.4 114.4 127.1 139.2 147.6 153.9 160.2 165.7 174.4 188.8	
1990 1991 1992 1993 1994 1995 1996 1997 1998	130.7 136.2 140.3 144.5 148.2 152.4 156.9 160.5 163.0 166.6	122.8 126.6 129.1 131.5 133.8 136.4 139.9 141.8 141.9	117.4 121.3 124.2 126.3 127.9 129.8 132.6 133.4 132.0 134.0	139.2 146.3 152.0 157.9 163.1 168.7 174.1 179.4 184.2 188.8	130.3 136.1 140.8 145.1 149.0 153.1 157.5 161.1 163.4 167.0	134.7 140.9 145.4 150.0 154.1 158.7 163.1 167.1 170.9	135.5 142.1 147.3 152.2 156.5 161.2 165.6 169.5 173.4	128.8 133.8 137.5 141.2 144.7 148.6 152.8 156.3 158.6 162.0	130.7 136.2 140.3 144.5 148.2 152.4 156.9 160.5 163.0 166.6	198.0 205.1 210.3 215.5 220.1 225.4 231.4 236.4 239.7 244.7	
2000 2001 2002 2003 2004 2005 2006 2007 2008 2009	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	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	172.2 177.1 179.9 184.0 188.9 195.3 201.6 207.342 215.303 214.533	252.9 260.0 264.2 270.1 277.4 286.7 296.1 304.5 316.2	102.0 104.3 105.6 107.8 110.5 113.7 117.0 119.957 124.433 123.850
2010	218.056 224.939 216.687 216.741 217.631 218.009 218.178 217.965 218.011 218.312 218.439 218.711 218.803 219.179	174.566 183.862 173.646 173.419 174.798 175.333 175.333 173.899 173.503 173.925 174.282 175.225 175.415 176.015	152.990 162.409 152.035 151.767 153.516 154.106 152.247 151.754 152.182 152.395 153.508 153.761 154.443	261.274 265.762 259.459 259.792 260.196 260.420 260.756 261.756 262.241 262.320 261.927 261.927 261.921 262.074	217.828 224.503 216.362 216.440 217.430 217.839 218.010 217.788 217.857 218.147 218.179 218.1838 218.538 218.921	220.458 224.806 219.287 219.708 220.133 220.252 220.298 220.316 220.619 221.030 221.236 221.235 221.235	221.337 225.008 220.086 220.602 221.059 221.166 221.193 221.265 221.551 221.907 222.079 222.077 221.795	209.689 216.325 208.499 208.432 209.301 209.669 209.841 209.605 209.664 209.952 210.001 210.257 210.336 210.712	218.056 224.939 216.687 216.741 217.631 218.009 218.178 217.965 218.011 218.312 218.439 218.711 218.803 219.179	320.2 330.3 318.2 318.3 319.6 320.1 320.4 320.1 320.6 320.8 321.2 321.3 321.3	125.663 124.997 124.973 125.528 125.740 125.815 125.613 125.568 125.718 125.782 125.973 126.073 126.028
2011: Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec	220.223 221.309 223.467 224.906 225.964 225.722 225.922 226.545 226.889 226.421 226.230 225.672	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	221.666 222.506 223.315 223.798 224.275 224.635 225.797 226.303 226.754 226.818 226.795	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	220,223 221,309 223,467 224,906 225,964 225,722 225,922 226,545 226,889 226,421 226,230 225,672	323.4 325.0 328.2 330.3 331.8 331.5 331.8 332.7 332.2 331.4	126.811 127.429 128.618 129.408 129.943 129.841 129.930 130.258 130.449 130.204 130.204

¹ Consumer price index, all urban consumers.

² CPPL-VX 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-XX 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. Data prior to 1967 estimated by moving the series at the same rate as the CPI-U for each year.

³ Consumer price index research series (CPI-U-RS) using current methods introduced in June 1999. Data for 2011 are preliminary. All data are subject to

revision annually.

⁴ Chained consumer price index (C-CPI-U) introduced in August 2002. Data for 2010 and 2011 are subject to revision.

Table B-63. Changes in special consumer price indexes, 1968-2011

[For all urban consumers; percent change]

All items less

All items less

All items less

All items less

All items

	All if	tems	fo	od	ene	ergy	food and	d energy	medic	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
1968	4.7 6.2 5.6 3.3 8.7 12.3 6.9 4.9 6.7 9.0 13.3 12.5 8.9 3.8 3.8 3.9 3.9 3.9 3.9 3.9 1.1 4.4 4.6 6.1 1.2 2.9 2.7 2.7 2.5 3.3 3.4 1.7 1.7 1.7 2.7 2.7 3.3 3.4 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4.9 4	4.2 5.5 5.7 4.4 4.2 11.0 19.1 5.8 6.5 7.6 11.3 13.5 10.3 6.2 4.3 3.6 4.1 4.8 5.4 4.2 3.0 2.6 2.8 3.0 2.3 2.3 1.0 2.3 2.3 2.3 3.4 2.3 3.4 2.3 3.4 2.3 3.4 3.6 2.3 3.6 2.2 3.6 2.3 3.6 2.3 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3	5.0 6.6 3.0 5.6 12.2 7.3 6.1 8.3 14.0 13.0 9.8 4.1 1.5 4.6 4.2 4.5 6.3 3.3 3.2 2.7 2.6 6.1 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1	4.5 4.6 6.0 4.0 9.8 9.4 6.7 10.9 6.5 10.9 6.5 4.3 3.5 4.3 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3	4.9 6.5 5.4 3.4 3.4 3.6 6.6 4.8 6.7 9.1 11.1 11.7 8.5 4.2 4.5 4.4 4.0 3.8 4.1 4.7 4.6 6.2 9.9 2.9 2.9 2.1 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	4.4 4.8 6.1 4.2 9.8 9.8 9.5 6.4 7.8 10.0 6.7 3.6 4.7 3.7 3.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4	5.1 6.2 6.6 6.3 3.0 4.7 6.1 6.5 8.5 8.5 11.3 12.2 9.5 4.8 4.8 4.7 4.3 3.8 4.2 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7 4.7	4.6 5.8 6.3 4.7 3.0 3.6 8.3 7.4 9.8 12.4 10.4 7.4 4.0 5.0 6.5 3.7 4.9 4.0 4.1 4.5 5.0 2.7 2.4 2.4 2.4 2.4 2.2 2.3 2.3 2.3 2.3 1.7	4.7 6.1 5.2 3.2 3.2 3.2 4.5 6.7 9.1 13.4 4.5 8.8 3.6 3.9 3.9 3.7 4.3 4.5 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.5 2.5 3.3 3.3 3.3 3.3 3.1 4.5 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7	4.2 5.4 5.4 1.2 6.4 11.2 5.3 7.6 11.5 13.6 10.4 5.2 9 4.1 1.5 3.5 2.8 2.7 2.5 2.8 2.3 2.8 2.3 2.1 2.1 3.2 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2.8 2
	Unad-	Seasonally	Unad-	Seasonally	Unad-	m preceding r Seasonally	Unad-	Seasonally	Unad-	Seasonally
2010: Jan Feb Mar Apr May June July Aug Sept Mar Apr May June July Jan Feb Mar Apr Heb Mar Apr May June July Aug Sept Oct Sept Mar Apr May June July Aug Sept Oct Mar Apr May June July Aug Sept Oct Nov Dec Sept Oct Mar Apr May June July Aug Sept Oct Nov Dec	0.3	0.1	0.3	0.1 0.0 0.0 -2.2 -4.4 2.1 1.5 5.5 5.5 4.4 1.1 -3.3 -1.1 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.1 2 2 2 1 1 0 0 0 0 0 0 1 1 2 2 1 1 1 0 0 0 0	-0.1	0.0 2 2 2 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0	-0.1	0.3 0.0 4.4 2.2 1.1 1.0 0.1 1.0 0.1 1.1 1.0 0.2 2.5 5.5 1.0 0.7 7.5 5.1 1.1 1.3 1.1 1.3 1.1 1.3 1.3 1.3 1.3 1	0.1 0.0 0.0 0.0 -2.2 .4 2.1 3.3 1.1 .4 .6 6.6 6.6 6.4 .2 2.3 .3 .3 .1 .4

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, 1940-2011 [For all urban consumers: percent change]

	All it	tems		Comm		ii consun	iers: perc	Serv			Medica	I care ²	Ene	rgy ³
			Tot	tal	Fo	od	Tot	tal	Medica	al care				
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
1940 1941 1942 1943 1943 1944 1945 1946 1947 1948 1949 1950	0.7 9.9 9.0 3.0 2.3 2.2 18.1 8.8 3.0 -2.1 5.9 6.0	0.7 5.0 10.9 6.1 1.7 2.3 8.3 14.4 8.1 -1.2 1.3 7.9	1.4 13.3 12.9 4.2 2.0 2.9 24.8 10.3 1.7 -4.1 7.8 5.9	0.7 6.7 14.5 9.3 1.0 3.0 10.6 20.5 7.2 -2.7 .7 9.0	2.5 15.7 17.9 3.0 .0 3.5 31.3 8 -3.9 9.8 7.1	1.7 9.2 17.6 11.0 -1.2 2.4 14.5 21.7 8.3 -4.2 1.6 11.0	0.8 2.4 2.3 2.2 .7 3.6 5.6 5.9 3.7 3.6 5.2	0.8 3.1 2.3 2.2 1.5 1.4 4.3 6.1 5.1 3.0 5.3	0.0 1.2 3.5 5.6 3.2 3.1 9.0 6.4 6.9 1.6 4.0 5.3	0.0 .0 3.5 4.5 4.3 3.1 5.1 8.7 7.1 3.3 2.4 4.7	0.0 1.0 3.8 4.6 2.6 2.6 8.3 6.9 5.8 1.4 3.4	1.0 2.9 4.7 3.6 2.6 5.0 6.7 2.8 2.0 5.3		
1952 1953 1954 1955 1956 1957 1958 1959	.8 .7 7 .4 3.0 2.9 1.8 1.7	1.9 .8 .7 4 1.5 3.3 2.8 .7	9 3 -1.6 3 2.6 2.8 1.2 .6	1.3 9 9 1.0 3.2 2.1 .0	-1.0 -1.1 -1.8 7 2.9 2.8 2.4 -1.0	1.8 -1.4 4 -1.4 .7 3.2 4.5 -1.7	4.4 4.2 2.0 2.0 3.4 4.2 2.7 3.9 2.5	4.5 4.3 3.1 2.0 2.5 4.3 3.7 3.1 3.4	5.8 3.4 2.6 3.2 3.8 4.8 4.6 4.9	6.7 3.5 3.4 2.6 3.8 4.3 5.3 4.5	4.3 3.5 2.3 3.3 3.2 4.7 4.5 3.8 3.2	5.0 3.6 2.9 2.2 3.8 4.2 4.6 4.4	-0.9 4.7	0.0
1961 1962 1963 1964 1965 1965 1967 1968 1967	.7 1.3 1.6 1.0 1.9 3.5 3.0 4.7 6.2	1.0 1.3 1.3 1.6 2.9 3.1 4.2 5.5	.0 .9 1.5 .9 1.4 2.5 2.5 4.0 5.4 3.9	.6 .9 .9 1.2 1.1 2.6 1.9 3.5 4.7	7 1.3 2.0 1.3 3.5 4.0 1.2 4.4 7.0 2.3	1.3 .7 1.6 1.3 2.2 5.0 .9 3.5 5.1	2.1 1.6 2.4 1.6 2.7 4.8 4.3 5.8 7.7 8.1	1.7 2.0 2.0 2.3 3.8 4.3 5.2 6.9 8.0	3.5 2.9 2.8 2.3 3.6 8.0 7.1 7.3 8.1	3.6 3.5 2.9 2.3 3.2 5.3 8.8 7.3 8.2 7.0	3.1 2.2 2.5 2.1 2.8 6.7 6.3 6.2 6.2 7.4	2.7 2.6 2.6 2.1 2.4 4.4 7.2 6.0 6.7	-1.3 2.2 9 .0 1.8 1.7 1.7 1.7 2.9 4.8	.4 .4 .0 4 1.8 1.7 2.1 1.7 2.5 2.8
1971 1972 1973 1974 1975 1976 1977 1978	3.3 3.4 8.7 12.3 6.9 4.9 6.7 9.0 13.3	4.4 3.2 6.2 11.0 9.1 5.8 6.5 7.6 11.3	2.8 3.4 10.4 12.8 6.2 3.3 6.1 8.8 13.0	3.6 3.0 7.4 11.9 8.8 4.3 5.8 7.2 11.3	4.3 4.6 20.3 12.0 6.6 .5 8.1 11.8 10.2	3.1 4.2 14.5 14.3 8.5 3.0 6.3 9.9 11.0	4.1 3.4 6.2 11.4 8.2 7.2 8.0 9.3 13.6	5.7 3.8 4.4 9.2 9.6 8.3 7.7 8.6 11.0	5.4 3.7 6.0 13.2 10.3 10.8 9.0 9.3 10.5	7.4 3.5 4.5 10.4 12.6 10.1 9.9 8.5 9.8	4.6 3.3 5.3 12.6 9.8 10.0 8.9 8.8 10.1	6.2 3.3 4.0 9.3 12.0 9.5 9.6 8.4 9.2	3.1 2.6 17.0 21.6 11.4 7.1 7.2 7.9 37.5	3.9 2.6 8.1 29.6 10.5 7.1 9.5 6.3 25.1
1980 1981 1982 1983 1984 1985 1986 1987 1988 1989	12.5 8.9 3.8 3.8 3.9 3.8 1.1 4.4 4.4 4.6	13.5 10.3 6.2 3.2 4.3 3.6 1.9 3.6 4.1 4.8	11.0 6.0 3.6 2.9 2.7 2.5 -2.0 4.6 3.8 4.1	12.3 8.4 4.1 2.9 3.4 2.1 9 3.2 3.5 4.7	10.2 4.3 3.1 2.7 3.8 2.6 3.8 3.5 5.2 5.6	8.6 7.8 4.1 2.1 3.8 2.3 3.2 4.1 4.1 5.8	14.2 13.0 4.3 4.8 5.4 5.1 4.5 4.3 4.8 5.1	15.4 13.1 9.0 3.5 5.2 5.1 5.0 4.2 4.6 4.9	10.1 12.6 11.2 6.2 5.8 6.8 7.9 5.6 6.9 8.6	11.3 10.7 11.8 8.7 6.0 6.1 7.7 6.6 6.4 7.7	9.9 12.5 11.0 6.4 6.1 6.8 7.7 5.8 6.9 8.5	11.0 10.7 11.6 8.8 6.2 6.3 7.5 6.6 6.5 7.7	18.0 11.9 1.3 5 2 1.8 -19.7 8.2 .5 5.1	30.9 13.6 1.5 .7 1.0 .7 -13.2 .5 .8 5.6
1990 1991 1992 1993 1994 1995 1996 1997 1998	6.1 3.1 2.9 2.7 2.7 2.5 3.3 1.7 1.6 2.7	5.4 4.2 3.0 3.0 2.6 2.8 3.0 2.3 1.6 2.2	6.6 1.2 2.0 1.5 2.3 1.4 3.2 .2 .4 2.7	5.2 3.1 2.0 1.9 1.7 1.9 2.6 1.4 .1	5.3 1.9 1.5 2.9 2.1 4.3 1.5 2.3	5.8 2.9 1.2 2.2 2.4 2.8 3.3 2.6 2.2 2.1	5.7 4.6 3.6 3.8 2.9 3.5 3.3 2.8 2.6	5.5 5.1 3.9 3.9 3.4 3.2 2.7 2.5	9.9 8.0 7.0 5.9 5.4 4.4 3.2 2.9 3.6	9.3 8.9 7.6 6.5 5.2 5.1 3.7 2.9 3.2 3.4	9.6 7.9 6.6 5.4 4.9 3.0 2.8 3.4 3.7	9.0 8.7 7.4 5.9 4.5 3.5 2.8 3.5 3.5	18.1 -7.4 2.0 -1.4 2.2 -1.3 8.6 -3.4 -8.8 13.4	8.3 .4 .5 1.2 .4 .6 4.7 1.3 -7.7 3.6
2000 2001 2002 2003 2004 2005 2006 2007 2008 2009	3.4 1.6 2.4 1.9 3.3 3.4 2.5 4.1 2.7	3.4 2.8 1.6 2.3 2.7 3.4 3.2 2.8 3.8 4	2.7 -1.4 1.2 .5 3.6 2.7 1.3 5.2 -4.1 5.5	3.3 1.0 7 1.0 2.3 3.6 2.4 2.1 4.3 -2.9	2.8 2.8 1.5 3.6 2.7 2.3 2.1 4.9 5.9 5	2.3 3.2 1.8 2.2 3.4 2.4 4.0 5.5 1.8	3.9 3.7 3.2 2.8 3.1 3.8 3.4 3.3 3.0	3.4 4.1 3.1 3.2 2.9 3.3 3.8 3.3 3.5 1.4	4.6 4.8 5.6 4.2 4.9 4.5 4.1 5.9 3.0 3.4	4.3 4.8 5.1 4.5 5.0 4.8 4.1 5.3 4.2 3.2	4.2 4.7 5.0 3.7 4.2 4.3 3.6 5.2 2.6 3.4	4.1 4.6 4.7 4.0 4.4 4.2 4.0 4.4 3.7 3.2	14.2 -13.0 10.7 6.9 16.6 17.1 2.9 17.4 -21.3	16.9 3.8 -5.9 12.2 10.9 17.0 11.2 5.5 13.9 -18.4
2010	1.5 3.0	1.6 3.2	2.0 4.2	2.9 5.3	1.5 4.7	.8 3.7	1.2 2.2	.8 1.7	3.4 3.6	3.5 3.1	3.3 3.5	3.4 3.0	7.7 6.6	9.5 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, 1965-2011 [1982=100]

					Finish	J J-				
					Finisne	d goods				I
Year or month	Total	C	onsumer food	ls		Finished good	s excluding co	onsumer foods		Total
	finished goods	Total	Crude	Processed	Total	C	onsumer good	ls	Capital	finished consumer
	goods	IUldi	Gruue	riocesseu	iulai	Total	Durable	Nondurable	equipment	goods
1965	34.1	36.8	39.0	36.8		33.6	43.2	28.8	33.8	34.2
1966	35.2 35.6	39.2 38.5	41.5 39.6	39.2 38.8	35.0	34.1 34.7	43.4 44.1	29.3 30.0	34.6 35.8	35.4 35.6
1967 1968	36.6	30.5 40.0	42.5	40.0	35.9	35.5	45.1	30.6	37.0	36.5
1969	38.0	42.4	45.9	42.3	36.9	36.3	45.9	31.5	38.3	37.9
1970	39.3	43.8	46.0	43.9	38.2	37.4	47.2	32.5	40.1	39 1
1971 l	40.5	44.5	45.8	44.7	39.6	38.7	48.9	33.5	41.7	40.2 41.5
1972	41.8	46.9	48.0	47.2	40.4	39.4	50.0	34.1	42.8	41.5
1973	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
1974	58.2	69.8	71.0	70.3	54.7	53.2	61.0	48.9	58.2	58.2
1975 1976	60.8	69.6	76.7	69.0	58.1	56.5	63.7	52.4	62.1	60.4
1977 1978	64.7	73.3	79.5	72.7	62.2	60.6	67.4	56.8	66.1	64.3
1979	69.8 77.6	79.9 87.3	85.8 92.3	79.4 86.8	66.7 74.6	64.9 73.5	73.6 80.8	60.0 69.3	71.3 77.5	69.4 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	97.8	104.4	97.2	95.6	96.1	96.4	95.8	94.6	96.6
1982	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1983 l	101.6	101.0	102.4	100.9	101.8	101.2	102.8	100.5	102.8	101.3 103.3
1984 1985	103.7 104.7	105.4 104.6	111.4 102.9	104.9 104.8	103.2 104.6	102.2 103.3	104.5 106.5	101.1 101.7	105.2 107.5	103.3
1986 1	103.2	107.3	105.6	107.4	101.9	1 98.5	108.9	93.3	109.7	101.4
1987 l	105.4	109.5	107.1	109.6	104.0	100.7	111.5	94.9	111.7	103.6
1988	108.0	112.6	109.8	112.7	106.5	103.1	113.8	97.3	114.3	106.2
1989	113.6	118.7	119.6	118.6	111.8	108.9	117.6	103.8	118.8	112.1
1990	119.2 121.7	124.4 124.1	123.0 119.3	124.4 124.4	117.4 120.9	115.3 118.7	120.4 123.9	111.5 115.0	122.9 126.7	118.2 120.5
1991 1992	123.2	123.3	107.6	124.4	123 1	120.8	125.7	117.3	129.1	1217
1993	124.7 125.5	125.7 126.8	114.4	126.5	124.4 125.1 127.5	121.7 121.6	128.0 130.9	117.6 116.2	131.4	123.0 123.3 125.6
1994	125.5 127.9	126.8 129.0	111.3 118.8	127.9 129.8	125.1	121.6 124.0	130.9 132.7	116.2 118.8	134.1 136.7	123.3
1995 1996	131.3	133.6	129.2	133.8	130.5	124.0	134.2	123.3	138.3	129.5
1997 l	131.8	134.5	126.6	135.1	130.9	128.2	133.7 132.9	124.3 122.2	138.2	130.2
1998 1999	130.7	134.3	127.2	134.8	129.5	126.4	132.9	122.2	137.6	128.9
	133.0	135.1	125.5	135.9	132.3	130.5	133.0	127.9	137.6	132.0
2000	138.0 140.7	137.2 141.3	123.5 127.7	138.3 142.4	138.1 140.4	138.4 141.4	133.9 134.0	138.7 142.8	138.8 139.7	138.2 141.5
2002	138.9	140.1	128.5	141.0	138.3	138.8	133.0	139.8	139.1	139.4
2002	143.3	145.9	130.0	147.2	142.4	144.7	133.1	148.4	139.5	145.3
2004	148.5 155.7	152.7	138.2	153.9	147.2	150.9	135.0	156.6	141.4	151.7
2005 2006	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
2007 I	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	141.2	210.5	153.8	186.3
2009	172.5	175.5	157.8	177.3	171.1	179.4	144.3	194.1	156.7	179.1
2010 2011 ^p	179.8 190.6	182.4 193.9	172.6 182.3	183.3 195.0	178.3 188.9	190.4 205.6	144.9 147.4	210.1 231.7	157.3 159.7	189.1 203.4
2010: Jan	178.0	180.1	178.3	180.1	176.7	187.7	145.4	205.9	157.5	186.5
Feb	177.0	180.9	180./	180.7	175.3	185.6	145.2	202.8	157.3	185.1
Mar	179.1	185.6	223.6	181.0	176.9	188.2	145.0	206.8	157.1	188.3
Apr	179.5 179.8	184.2 184.1	196.8 176.0	182.6 184.8	177.6 178.1	189.4 190.0	144.8 145.0	208.7 209.6	157.1 157.2	188.8
May June	179.0	179.5	146.0	183.2	178.1	190.0	145.0	209.0	157.2	189.2 188.2
July	179.5	180.5	157.8	182.9	178.5	190.8	144.2	211.2	156.9	188.9
Aug	179.9 l	180.1	151.9	183.2	179.1 178.7	191.6	144.3	212.3 211.5	157.1	189.4
Sept Oct	180.0 181.2	181.9 182.1	152.2 149.9	185.2 185.6	178.7	191.1 192.7	144.2 145.8	211.5	157.0 158.0	189.5 190.8
Nov	181.6	183.9	168.8	185.5	180.2	193.0	145.6	213.7	157.8	191.4
Dec	182.6	186.0	189.4	185.4	181.0	194.2	145.3	215.7	157.8	192.9
2011: Jan	184.4	186.9	190.5	186.3	183.0	197.0	145.7	219.7	158.4	195.2
Feb	186.6	193.4	230.7	188.9	184.2	198.7	146.0	222.1	158.7	198.2
Mar Apr	189.1 191.4	192.9 193.0	198.9 182.6	191.9 194.0	187.4 190.1	203.7 207.8	146.2 146.8	229.5 235.2	158.8 159.2	201.8 204.8
Арг Мау	192.5	193.0	160.0	194.0	191.9	210.5	146.6	239.4	159.2	204.0
June	191.4	192.4	170.8	194.7	190.3	207.8	146.9	235.2	159.5	204.7
July	192.2 191.7	193.5	165.8	196.5	191.0	208.8 207.0	147.2 147.3	236.6	159.7	205.7 204.9
Aug Sept ¹	191./ 192.5	195.7 196.5	169.1 175.9	198.5 198.6	189.8 190.7	207.0	147.3	233.8 236.0	159.7 159.6	204.9
Oct 1	192.5 191.9	195.8	174.9	197.9	190.2	206.8	149.5	232.3	161.2	204.7
Nov 1	192.0	198.2	187.1	199.2	189.7	206.0	149.5	231.1	161.2	204.8
Dec ¹	191.3	197.3	180.9	199.0	189.1	204.9	149.4	229.5	161.4	203.8

¹ Data have been revised through August 2011; 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, 1965-2011—*Continued* [1982=100]

		Inte	rmediate r	materials, s	upplies, an	d compone	ents		Cri	ude materi	als for furth	ner process	ing
V				Materia compo		Proc- essed				Food-		Other	
Year or month	Total	Foods and feeds ²	Other	For manu- factur- ing	For con- struc- tion	fuels and lubri- cants	Con- tainers	Supplies	Total	stuffs and feed- stuffs	Total	Fuel	Other
1965	31.2 32.0 32.2 33.0 34.1	41.8 41.5 42.9	30.7 31.3 31.7 32.5 33.6	33.6 34.3 34.5 35.3 36.5	32.8 33.6 34.0 35.7 37.7	16.5 16.8 16.9 16.5 16.6	33.5 34.5 35.0 35.9 37.2	35.0 36.5 36.8 37.1 37.8	31.1 33.1 31.3 31.8 33.9	39.2 42.7 40.3 40.9 44.1	21.1 21.6 22.5	10.6 10.9 11.3 11.5 12.0	27.7 28.3 26.5 27.1 28.4
1970	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	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	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 84.6	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 91.1
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	128.1 127.4 126.1 129.7 137.9 146.0 155.9 162.4 177.2 162.7	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	151.6 153.1 152.1 153.7 159.3 167.1 175.0 180.3 191.8 195.8	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 ^p 2010: Jan Feb Mar Apr	183.4 200.0 179.4 179.2 181.2 183.2	171.7 192.3 168.7 168.3 167.7 168.5	184.4 200.6 180.2 180.1 182.3 184.4	174.0 190.0 169.4 171.0 172.6 175.0	205.7 212.8 202.3 203.5 204.6 206.1	185.2 215.5 180.2 174.9 180.0 183.1	201.2 205.5 194.2 196.1 198.8 200.1	175.0 184.2 172.9 173.1 173.3 173.8	212.2 249.6 212.8 208.5 212.7 211.0	152.4 188.4 142.0 142.3 146.9 148.6	249.3 284.5 260.3 252.2 255.5 250.7	188.0 181.6 232.3 222.3 201.8 174.8	280.8 342.7 269.0 262.4 281.6 292.1
May June July Aug Sept Oct Nov Dec	184.3 183.3 183.1 183.9 184.1 185.3 186.4 187.8	170.8 169.7 170.0 171.2 173.5 175.5 178.3 178.3	185.4 184.4 184.2 184.9 184.9 186.1 187.0 188.6	175.4 173.6 172.6 173.1 174.0 175.5 177.0 178.4	207.4 206.6 206.3 206.2 205.9 205.9 206.3 207.0	185.9 185.2 186.3 188.4 187.5 188.9 189.5 192.2	201.6 204.1 204.4 205.0 202.3 202.4 202.5 202.7	174.7 174.5 174.8 175.1 175.5 176.4 177.5 178.1	208.3 203.7 208.7 211.8 209.2 215.3 217.2 227.0	153.0 146.3 150.7 152.5 158.6 160.8 162.3 164.6	241.5 239.3 244.4 248.5 237.7 247.0 249.1 265.2	180.3 182.1 195.6 195.3 166.4 168.0 155.8 181.3	273.2 268.4 267.6 274.6 276.4 290.6 302.2 311.3
2011: Jan Feb	190.6 193.7 197.6 201.0 203.2 203.3 204.1 202.8 203.5 200.7 200.7	180.2 185.0 189.1 192.5 192.9 194.1 195.3 197.6 194.1 194.8 193.1	191.4 194.4 198.2 201.7 204.0 204.8 203.1 203.8 201.1 201.1 199.7	181.5 185.2 187.7 191.1 192.6 192.4 193.3 192.7 193.4 191.4 190.2	208.3 209.5 210.9 212.1 212.8 213.7 214.6 213.9 214.2 214.1	196.2 200.9 212.0 218.6 224.3 224.2 225.1 219.5 221.6 213.3 216.1 213.7	203.4 203.9 204.4 204.9 206.4 207.1 205.9 206.5 206.0 205.9 205.9	179.6 180.9 182.3 183.9 184.5 185.2 185.7 186.1 185.4 185.4	235.9 242.8 248.2 261.3 255.5 256.8 256.9 251.2 253.0 242.5 250.0 241.6	171.6 184.4 185.7 193.1 190.3 195.3 192.6 196.3 196.1 186.4 188.0	274.9 275.5 284.4 301.7 293.6 291.3 293.9 279.7 287.2 273.2 285.5 273.0	186.5 190.0 176.9 187.3 189.7 190.8 191.0 190.1 180.2 172.3 165.0 159.3	323.8 322.2 345.7 367.0 352.1 347.5 351.7 329.2 348.1 355.6 339.0

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, 1974-2011 [1982=100]

				shed ods			Interm		iterials, su	pplies,	Сги		als for fur essing	her
				Excluding	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 1979 1980 1981 1982	52.6 58.2 60.8 64.7 69.8 77.6 88.0 96.1 100.0	64.4 69.8 69.6 73.3 79.9 87.3 92.4 97.8 100.0	26.2 30.7 34.3 39.7 42.3 57.1 85.2 101.5 100.0 95.2	53.6 59.7 63.1 66.9 71.9 78.3 87.1 94.6 100.0 103.0	50.5 58.2 62.1 66.1 71.3 77.5 85.8 94.6 100.0 102.8	55.5 60.6 63.7 67.3 72.2 78.8 87.8 94.6 100.0 103.1	52.5 58.0 60.9 64.9 69.5 78.4 90.3 98.6 100.0	83.6 81.6 77.4 79.6 84.8 94.5 105.5 104.6 100.0	33.1 38.7 41.5 46.8 49.1 61.1 84.9 100.5 100.0 95.3	54.0 60.2 63.8 67.6 72.5 80.7 90.3 97.7 100.0 101.6	61.4 61.6 63.4 65.5 73.4 85.9 95.3 103.0 100.0	76.4 77.4 76.8 77.5 87.3 100.0 104.6 103.9 100.0 101.8	27.8 33.3 35.3 40.4 45.2 54.9 73.1 97.7 100.0 98.7	83.3 69.3 80.2 79.8 87.8 106.2 113.1 111.7 100.0 105.3
1984 1985 1986 1987 1988	103.7 104.7 103.2 105.4 108.0 113.6	105.4 104.6 107.3 109.5 112.6 118.7	91.2 87.6 63.0 61.8 59.8 65.7	105.5 108.1 110.6 113.3 117.0 122.1	105.2 107.5 109.7 111.7 114.3 118.8	105.7 108.4 111.1 114.2 118.5 124.0	103.1 102.7 99.1 101.5 107.1 112.0	105.7 97.3 96.2 99.2 109.5 113.8	95.5 92.6 72.6 73.0 70.9 76.1	104.7 105.2 104.9 107.8 115.2 120.2	103.5 95.8 87.7 93.7 96.0 103.1	104.7 94.8 93.2 96.2 106.1 111.2	98.0 93.3 71.8 75.0 67.7 75.9	111.7 104.9 103.1 115.7 133.0 137.9
1990 1991 1992 1993 1994 1995 1996 1997 1998	119.2 121.7 123.2 124.7 125.5 127.9 131.3 131.8 130.7 133.0	124.4 124.1 123.3 125.7 126.8 129.0 133.6 134.5 134.3 135.1	75.0 78.1 77.8 78.0 77.0 78.1 83.2 83.4 75.1 78.8	126.6 131.1 134.2 135.8 137.1 140.0 142.0 142.4 143.7 146.1	122.9 126.7 129.1 131.4 134.1 136.7 138.3 138.2 137.6 137.6	128.8 133.7 137.3 138.5 139.0 141.9 144.3 145.1 147.7 151.7	114.5 114.4 114.7 116.2 118.5 124.9 125.7 125.6 123.0 123.2	113.3 111.1 110.7 112.7 114.8 114.8 128.1 125.4 116.2 111.1	85.5 85.1 84.3 84.6 83.0 84.1 89.8 89.0 80.8 84.3	120.9 121.4 122.0 123.8 127.1 135.2 134.0 134.2 133.5 133.1	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	85.9 80.4 78.8 76.7 72.1 69.4 85.0 87.3 68.6 78.5	136.3 128.2 128.4 140.2 156.2 173.6 155.8 156.5 142.1 135.2
2000	138.0 140.7 138.9 143.3 148.5 155.7 160.4 166.6 177.1	137.2 141.3 140.1 145.9 152.7 155.7 156.7 167.0 178.3 175.5	94.1 96.7 88.8 102.0 113.0 132.6 145.9 156.3 178.7 146.9	148.0 150.0 150.2 150.5 152.7 156.4 158.7 161.7 167.2 171.5	138.8 139.7 139.1 139.5 141.4 144.6 146.9 149.5 153.8 156.7	154.0 156.9 157.6 157.9 160.3 164.3 166.7 170.0 176.4 181.6	129.2 129.7 127.8 133.7 142.6 154.0 164.0 170.7 188.3 172.5	111.7 115.9 115.5 125.9 137.1 133.8 135.2 154.4 181.6 166.0	101.7 104.1 95.9 111.9 123.2 149.2 162.8 174.6 208.1 162.5	136.6 136.4 135.8 138.5 146.5 154.6 163.8 168.4 180.9 173.4	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	122.1 122.3 102.0 147.2 174.6 234.0 226.9 232.8 309.4 176.8	145.2 130.7 135.7 152.5 193.0 202.4 244.5 282.6 324.4 248.4
2010 2011 ^p	179.8 190.6	182.4 193.9	166.9 193.4	173.6 177.7	157.3 159.7	185.1 190.7	183.4 200.0	171.7 192.3	187.8 220.2	180.8 192.1	212.2 249.6	152.4 188.4	216.7 240.6	329.1 391.4
2010: Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec	178.0 177.0 179.1 179.5 179.8 179.0 179.5 179.9 180.0 181.2 181.6 182.6	180.1 180.9 185.6 184.2 184.1 179.5 180.5 180.1 181.9 182.1 183.9 186.0	162.7 157.7 163.3 165.9 166.7 166.8 168.0 169.6 168.1 170.0 170.5	173.0 173.0 173.0 173.0 173.3 173.2 173.3 173.5 174.7 174.7	157.5 157.3 157.1 157.1 157.2 157.0 156.9 157.1 157.0 158.0 157.8	183.9 184.0 184.2 184.2 184.6 184.7 184.9 185.1 185.3 186.6 186.9	179.4 179.2 181.2 183.2 184.3 183.3 183.1 183.9 184.1 185.3 186.4 187.8	168.7 168.3 167.7 168.5 170.8 169.7 170.0 171.2 173.5 175.5 178.3	183.2 177.4 182.9 185.8 188.5 187.3 188.4 190.8 189.8 191.5 192.4 195.7	176.8 178.3 179.6 181.5 181.9 181.0 180.4 180.5 180.9 181.9 182.9 183.9	212.8 208.5 212.7 211.0 208.3 203.7 208.7 211.8 209.2 215.3 217.2 227.0	142.0 142.3 146.9 148.6 153.0 146.3 150.7 152.5 158.6 160.8 162.3 164.6	241.5 229.8 226.8 216.0 205.9 207.7 216.1 217.7 199.0 207.9 207.3 225.1	304.0 306.0 324.6 335.3 330.0 317.1 313.2 324.1 334.5 344.0 352.5 364.0
2011: Jan Feb Mar Apr May June July Aug Sept 2 Oct 2 Nov 2 Dec 2	184.4 186.6 189.1 191.4 192.5 191.4 192.2 191.7 192.5 191.9 192.0	186.9 193.4 192.9 193.0 191.0 192.4 193.5 195.7 196.5 195.8 198.2 197.3	177.4 180.6 191.6 200.0 206.1 199.5 200.3 195.6 199.1 192.9 190.7 187.5	175.8 176.1 176.4 176.9 176.9 177.2 177.9 178.1 177.9 179.6 179.7	158.4 158.7 158.8 159.2 159.2 159.5 159.7 159.7 159.6 161.2 161.4	188.2 188.7 189.0 189.5 189.7 189.9 191.0 191.4 191.1 192.9 193.1 193.6	190.6 193.7 197.6 201.0 203.2 203.3 204.1 202.8 203.5 200.7 200.7 199.3	180.2 185.0 189.1 192.5 192.9 194.1 195.3 197.9 198.6 194.1 194.8	199.5 204.7 216.6 223.6 229.4 229.1 230.8 224.1 226.6 218.5 221.2 218.7	186.4 188.7 190.2 192.5 193.8 193.9 194.4 194.2 194.4 193.3 192.4 191.4	235.9 242.8 248.2 261.3 255.5 256.8 256.9 251.2 253.0 242.5 250.0 241.6	171.6 184.4 185.7 193.1 190.3 195.3 192.6 196.3 192.1 186.4 188.0 184.6	232.0 229.1 241.5 260.6 251.9 246.9 231.0 239.8 228.0 246.8 230.0	381.1 391.6 387.8 399.1 393.8 399.6 401.0 402.2 403.7 384.3 375.7 376.6

Source: Department of Labor (Bureau of Labor Statistics).

Intermediate materials for food manufacturing and feeds.
 Data have been revised through August 2011; data are subject to revision four months after date of original publication.

TABLE B-67. Producer price indexes for major commodity groups, 1965-2011 [1982=100]

				[1302-100]				
	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
1965	39.0 41.6 40.2 41.1 43.4	40.7 43.7 41.3 42.3 45.0	38.0 40.2 39.8 40.6 42.7	30.9 31.5 32.0 32.8 33.9	48.8 48.9 48.9 50.7 51.8	35.9 39.4 38.1 39.3 41.5	13.8 14.1 14.4 14.3 14.6	33.9 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 83.0 92.3	45.8 46.6 51.6 72.7 77.4 77.0 78.8 79.4 87.7 99.6	44.6 45.5 48.0 58.9 68.0 72.6 70.8 74.0 80.6 88.5	35.2 36.5 37.8 40.3 49.2 54.9 58.4 62.5 67.0 75.7	52.4 53.3 55.5 60.5 68.0 67.4 72.4 75.3 78.1 82.5	42.0 43.4 50.0 54.5 55.2 56.5 63.9 68.3 76.1 96.1	15.3 16.6 17.1 19.4 30.1 35.4 38.3 43.6 46.5 58.9	35.0 35.6 37.6 50.2 62.0 64.0 65.9 68.0 76.0
1980	98.3 101.1 100.0 102.0 105.5 100.7 101.2 103.7 110.0 115.4	102.9 105.2 100.0 102.4 105.5 95.1 92.9 95.5 104.9 110.9	95.9 98.9 100.0 101.8 105.4 105.4 107.4 112.7 117.8	88.0 97.4 100.0 101.1 103.3 103.7 100.0 102.6 106.3 111.6	89.7 97.6 100.0 100.3 102.7 102.9 103.2 105.1 109.2 112.3	94.7 99.3 100.0 103.2 109.0 108.9 113.0 120.4 131.4 136.3	82.8 100.2 100.0 95.9 94.8 91.4 69.8 70.2 66.7 72.9	89.0 98.4 100.0 100.3 102.9 103.7 102.6 106.4 116.3 123.0
1990	118.6 116.4 115.9 118.4 119.1 120.5 129.7 127.0 122.7 120.3	112.2 105.7 103.6 107.1 106.3 107.4 122.4 112.9 104.6 98.4	121.9 122.1 122.1 124.0 125.5 127.0 133.3 134.0 131.6	115.8 116.5 117.4 119.0 120.7 125.5 127.3 127.7 124.8 126.5	115.0 116.3 117.8 118.0 118.3 120.8 122.4 122.9 121.1	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 80.5	123.6 125.6 125.9 128.2 132.1 142.5 142.1 143.9 144.2
2000	122.0 126.2 123.9 132.8 142.0 141.3 141.2 157.8 173.8 161.4	99.5 103.8 99.0 111.5 123.3 118.5 117.0 143.4 161.3 134.6	133.1 137.3 136.2 143.4 151.2 153.1 153.8 165.1 180.5 176.2	134.8 135.7 132.4 139.1 147.6 160.2 168.8 175.1 192.3 174.8	121.4 121.3 119.9 119.8 121.0 122.8 124.5 125.8 128.9 129.5	151.5 158.4 157.6 162.3 164.5 165.4 173.6 173.1	103.5 105.3 93.2 112.9 126.9 156.4 166.7 177.6 214.6 158.7	151.0 151.8 151.9 161.9 174.4 192.0 205.8 214.8 245.5 229.4
2010	171.2 193.8 166.0 166.2 169.2 169.3 171.2	151.0 186.7 142.5 142.3 150.3 149.1 150.0	182.3 197.5 178.9 179.3 179.5 180.4 182.8	187.0 202.2 184.6 183.6 185.6 187.0 187.2	131.7 141.8 130.1 130.3 131.0 131.1 131.5	181.4 200.0 165.9 173.3 176.1 176.3 182.7	185.8 216.4 185.6 178.9 183.4 184.4 184.6	246.6 275.6 239.9 244.2 246.1 248.9 246.9
July	169.0 170.0 173.4 175.5 177.8 179.7	146.8 148.4 154.1 157.4 162.1 166.8 173.3	181.2 181.8 183.9 185.3 186.4 186.6	186.7 187.5 186.8 188.4 189.2 191.3	131.5 131.8 131.9 132.3 133.3 134.0	184.2 185.1 184.9 187.6 187.8 189.6	186.3 188.4 184.5 187.6 188.4 193.6	243.3 244.3 245.8 248.8 252.1 254.7 262.2
Feb	191.0 191.4 195.2 193.5 196.2 195.7 198.4 198.0 194.2 195.8 193.7	189.8 185.1 191.1 186.0 192.6 188.4 192.2 190.1 183.6 186.3	191.3 194.5 197.1 197.3 197.8 199.4 201.6 202.0 199.9 200.8	196.4 200.4 204.2 205.7 205.0 205.9 203.7 204.8 202.3 202.8 201.1	137.7 139.7 141.1 143.0 143.3 143.3 143.6 143.8 143.4 143.4	196.3 198.3 202.9 203.6 203.0 203.4 202.9 203.2 200.9 196.7 195.4	201.9 214.2 223.9 227.6 224.0 225.5 217.4 221.2 213.2 217.2 211.7	262.2 267.3 270.3 276.4 280.6 279.7 280.5 280.1 281.8 278.7 276.8

¹ Data have been revised through August 2011; 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, 1965-2011—Continued [1982=100]

					ustrial commo	dities—Contir	nued			
			Dulo						ortation	
Year or month	Rubber and plastic products	Lumber and wood products	Pulp, 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
1965 1966 1967	39.7 40.5 41.4	33.7 35.2 35.1	33.3 34.2 34.6	32.0 32.8 33.2	33.7 34.7 35.9	46.8 47.4 48.3	30.4 30.7 31.2		39.2 39.2 39.8	34.7 35.3 36.2
1968 1969	42.8 43.6	39.8 44.0	35.0 36.0	34.0 36.0	37.0 38.2	49.7 50.7	32.4 33.6	40.4	40.9 41.7	37.0 38.1
1970	44.9 45.2 45.3 46.6 56.4 62.2 66.0	39.9 44.7 50.7 62.2 64.5 62.1 72.2 83.0	37.5 38.1 39.3 42.3 52.5 59.0 62.1 64.7	38.7 39.4 40.9 44.0 57.0 61.5 65.0	40.0 41.4 42.3 43.7 50.0 57.9 61.3 65.2	51.9 53.1 53.8 55.7 61.8 67.5 70.3 73.2	35.3 38.2 39.4 40.7 47.8 54.4 58.2 62.6	41.9 44.2 45.5 46.1 50.3 56.7 60.5	43.3 45.7 47.0 47.4 51.4 57.6 61.2	39.8 40.8 41.5 43.3 48.1 53.4 55.6
1978 1979	72.4 80.5	96.9 105.5	67.7 75.9	75.3 86.0	70.3 76.7	77.5 82.8	69.6 77.6	69.5 75.3	70.0 75.8	66.7 75.5
1980 1981 1982 1983 1984 1984 1985 1986 1987 1988	90.1 96.4 100.0 100.8 102.3 101.9 101.9 103.0 109.3 112.6	101.5 102.8 100.0 107.9 108.0 106.6 107.2 112.8 118.9 126.7	86.3 94.8 100.0 103.3 110.3 116.1 121.8 130.4 137.8	95.0 99.6 100.0 101.8 104.8 104.4 103.2 107.1 118.7	86.0 94.4 100.0 102.7 105.1 107.2 108.8 110.4 113.2 117.4	90.7 95.9 100.0 103.4 105.7 107.1 108.2 109.9 113.1 116.9	88.4 96.7 100.0 101.6 105.4 108.6 110.0 111.2 112.6	82.9 94.3 100.0 102.8 105.2 107.9 110.5 112.5 114.3 117.7	83.1 94.6 100.0 102.2 104.1 106.4 109.1 111.7 113.1	93.6 96.1 100.0 104.8 107.0 109.4 111.6 114.9 120.2 126.5
1990	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	120.7 123.0 123.4 124.0 125.1 126.6 126.5 125.9	119.2 121.2 122.2 123.7 126.1 128.2 130.4 130.8 131.3	114.7 117.2 117.3 120.0 124.2 129.0 131.0 133.2 135.4	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	134.2 140.8 145.3 145.4 141.9 145.4 147.7 150.9 156.0
1999	122.5 125.5 127.2 126.8 130.1 133.8 143.8 153.8 155.0 165.9	183.6 178.2 174.4 173.3 177.4 195.6 196.5 194.4 192.4 191.3 182.8	174.1 183.7 184.8 185.9 190.0 195.7 202.6 209.8 216.9 226.8 225.6	124.6 128.1 125.4 125.9 129.2 149.6 160.8 181.6 193.5 213.0 186.8	124.3 124.0 123.7 122.9 121.9 122.1 123.7 126.2 127.3 129.7 131.3	131.7 132.6 133.2 133.5 133.9 135.1 139.4 142.6 144.7 148.9	138.9 142.5 144.3 146.2 153.2 164.2 179.9 186.2 197.1 202.4	141.8 143.8 145.2 144.6 145.7 148.6 151.0 152.6 155.0 158.6 162.2	131.7 132.3 131.5 129.9 129.6 131.0 131.5 131.0 132.2 134.1 137.0	166.6 170.8 181.3 182.4 179.6 183.2 195.1 205.6 210.3 216.6 217.5
2010 2011 P	170.7 182.7	192.7 194.4	236.9 245.4	207.6 226.1	131.1 132.8	153.2 156.4	201.8 205.1	163.4 166.1	137.6 139.4	221.5 229.0
2010: Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec Mar Sept Sept Dec Mar Apr Dec Mar Apr Sept Sept Sept Sept Sept Sept Sept Sept	166.8 167.4 168.5 169.9 170.6 171.7 171.9 171.8 171.8 171.9	185.8 190.2 193.2 197.2 200.6 195.7 194.0 192.1 191.4 190.5 190.3	227.2 229.7 233.1 234.6 237.3 237.5 238.7 238.5 240.3 241.1 242.2 242.8	200.5 200.8 205.0 210.3 210.1 207.4 205.0 206.5 208.2 210.4 212.2 214.8	131.1 131.2 131.1 131.2 131.1 131.2 131.1 131.1 131.0 130.9	153.0 152.5 152.6 152.8 153.0 153.5 153.7 153.6 153.7 153.6	200.7 201.4 201.6 201.9 202.3 202.3 202.3 201.9 201.6 201.6	163.7 163.6 163.1 163.4 163.4 162.9 162.5 162.9 162.8 164.4 164.2	138.4 138.3 137.7 137.9 137.9 137.0 136.4 136.6 138.5 138.1	218.4 218.7 219.6 219.8 220.9 221.6 222.3 222.7 222.6 223.1 223.6 225.0
2011: Jan Feb Mar Apr Apr June July Aug Sept 1 Oct 1 Nov 1 Dec 1	175.2 176.5 178.2 180.3 182.5 185.2 186.2 186.2 186.3 184.8 184.8	193.4 194.7 195.8 195.6 194.3 193.4 193.6 194.7 194.5 194.1	243.0 243.2 244.3 245.0 245.6 246.2 247.1 247.2 248.0 247.1 244.3 244.1	219.8 224.2 225.7 229.2 228.3 228.4 230.0 229.0 228.2 224.4 222.7	131.6 132.0 132.2 132.5 132.6 132.9 133.0 133.1 133.3 133.3 133.2	153.7 154.4 155.1 155.5 155.7 156.2 157.0 157.1 157.4 158.1 158.3	202.3 202.6 202.9 203.5 204.9 205.7 206.6 206.6 205.9 206.4 206.2	164.7 164.9 165.0 165.5 165.3 165.6 165.8 166.1 166.5 168.2 168.1	138.4 138.5 138.5 139.0 138.7 138.9 139.0 139.1 138.4 141.3 141.2	225.7 226.6 227.1 227.4 227.5 228.0 229.9 230.0 230.6 230.7 232.0 232.0

Source: Department of Labor (Bureau of Labor Statistics).

Table B-68. Changes in producer price indexes for finished goods, 1972-2011 [Percent change]

	finis	tal shed ods	cons	shed umer ods		Finished g	oods exclu	ıding consı	umer foods		ene	shed ergy ods	Finishe exclu foods an	d goods Iding d energy
Year or month	Dec.	Year	Dec.	Year	To	tal	Cons goo	umer ods	Car equip	ital ment	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
1972	3.9 11.7 18.3 6.6 3.8 6.7 9.3 12.8 11.8 7.1 3.6 6.6 1.7 1.8 2.2 4.0 4.9 2.9 3.6 -1.6 1.7 2.3 2.4 4.0 4.9 4.3 3.8 4.8	3,2 9,1 15,4 10,6 4,5 6,4 7,9 11,2 13,4 9,2 4,1 1,0 2,1 2,1 2,1 2,1 2,1 2,1 2,1 2,1 2,1 2,1	7.9 22.7 12.8 5.6 -2.5 6.9 11.7 7.4 7.5 2.0 2.3 3.5 5.2 2.6 -1.5 2.4 1.1 1.9 3.4 8 1.7 1.8 -2.7 1.8 1.7 1.8 1.7 1.7 1.8 1.7 1.7 1.8 1.7 1.7 1.7 1.8 1.7 1.7 1.8 1.7 1.7 1.8 1.7 1.7 1.8 1.7 1.7 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8	5.4 20.5 14.0 8.4 -3 5.3 5.8 5.8 2.2 1.0 4.4 8 2.1 2.8 5.4 4.8 2 1.9 1.7 3.6 6.3 -1.6 6.8 -1.6 6.3	2.3 6.6 21.1 7.2 6.2 6.8 8.3 14.8 13.4 4.2 -4.0 3.2 3.2 4.8 6.9 2.3 2.6 -1.4 1.9 2.3 2.6 -1.1 3.5 4.1 -2.6 6.5 4.1 -2.6 6.5 4.1 -2.6 6.5 4.1 -2.6 6.5 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1 4.1	2.0 4.0 16.2 12.1 1.2 11.8 16.2 11.8 16.3 4.6 1.8 1.4 1.4 5.0 5.0 3.0 3.0 1.8 1.1 1.1 2.4 4.3 3.1 1.7 -1.5 3.0 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5	2.1 7.5 20.3 6.8 6.0 6.7 8.5 17.6 4.2 -9.8 2.1 15.3 8.7 -1.6 4.1 3.1 5.3 8.7 -1.4 2.0 2.3 3.7 5.5 -1.5 -1.5 5.5 8.8 4.7 7.7 4.8 7.4 7.4 8.8 8.8 8.9 8.9 8.9 8.9 8.9 8.9 8.9 8.9	1.8 4.6 17.0 10.4 6.2 7.3 7.1 13.3 18.5 10.3 4.1 1.2 1.0 1.1 4.6 2.2 2.4 5.6 5.9 2.9 1.8 7.7 -1.4 3.2 2.1 6.1 2.2 2.1 8.3 8.3 8.5 7.7 -1.4 8.3 8.5 8.5 8.7 -1.4 8.3 8.5 8.7 -1.4 8.3 8.5 8.7 -1.4 8.7 -1.5 8.7 -1.4 8.7 -1.5 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7	2.1 5.1 22.7 8.0 8.8 8.8 19.4 9.2 3.9 2.0 1.8 2.7 1.3 3.6 3.8 2.7 1.8 2.0 2.2 2.2 4.6 0.0 8.8 2.7 1.8 2.0 2.1 2.1 2.1 2.1 3.9 2.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4	2.6 3.3 14.3 15.7 6.7 6.7 8.7 10.3 5.7 2.2 2.3 3.5 1.9 1.2 1.1 1.1 1.2 1.4 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6		17.2 11.7 6.5 35.0 49.2 19.1 -1.5 -4.8 -4.2 -3.9 -28.1 -1.9 -3.2 -3.2 -1.3 1.4 6.5 5.2 -10.0 4.1 19.4 19.4 19.4 19.4 19.4 19.4 19.4	7.7 6.2 8.4 9.4 10.8 10.8 10.8 10.8 10.8 10.8 10.8 10.8	11.4 11.4 5.7 6.0 7.5 8.9 11.2 2.4 2.5 2.4 3.3 4.4 3.7 3.6 2.4 1.2 1.0 2.1 1.4 1.2 1.2 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5
	Unad-	Season-	Unad-	Season-	Unad-	Season-	Unad-	Season-	Unad-	Season-	Unad-	Season-	Unad-	Season-
	justed	ally ad- justed	justed	ally ad- justed	justed	ally ad- justed	justed	ally ad- justed	justed	ally ad- justed	justed	ally ad- justed	justed	ally ad- justed
2010: Jan Feb Mar Apr May July Aug Sept Oct Nov Dec 2011: Jan Apr May July Aug Sept Quy Sept Quy Aug Sept Quy Get Quy Aug Sept Quy Get Quy Qu	1.1 6 1.2 2 2 4 .3 .2 .1 .7 .2 .6 .4 3 .1 .4 4	1.1 -44 -7 -1 -2 -3 -3 -6 -6 -5 -9 1.0 1.5 -7 -8 -8 -3 -3 -3 -3 -3 -3 -3 -3 -4 -6 -6 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7	0.2 .4 2.6 8 1 -2.5 .6 .2 1.0 1.1 1.5 3.5 3.5 3.5 1.1 -1.0 .7 .6 1.1 -4 1.4 -2 -2 -3	-0.1 -5.5 -2.5 -2.4 -2.4,7 -1.1 -5.5 -8.8 -4.3.5 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2 -1.2	1.4 8 9.9 9.9 3.3 2 3.3 2 8.1 1.1 7.7 1.4 6 6.5 3 3 3 3	1.4 6 3.3 0 1 .1 .1 .7 .1 .6 .4 .4 .5 .2 .1 .1 .2 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	1.9 -1.1 1.46 3.3 1.4 4.4 -3.8 2.6 1.4 9.9 2.5 2.0 1.33 -1.3 -1.3 -7.7 -8 -8 -4 -7.5	2.0 9 5 1 2 2 1.0 .7 1.2 1.3 1.3 1.3 1.1 6 8 0 1 1.1 5 1	0.31111111111	0.1 1 .2 .0 .2 .1 4 1 .3 .3 .3 .3 .4 .4 .4 .0 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	4.3 -3.1 3.6 1.6 5.5 1.1 7 1.0 9 1.1 3 1.4 2.6 6.1 4.4 3.1 -2.3 1.8 -3.1 -1.1 -1.7	4.5 -2.3 7.7 -2.2 -1.0 2.5 0 3.0 1.6 2.5 2.8 2.9 2.8 2.2 1.1 -2.3 -1.0 -7.7 2.8 -1.0 -7.2 -7.	0.3 .0 .0 .0 .2 -11 .1 .1 .0 .7 .0 .1 .6 .2 .2 .2 .3 .3 .2 .4 .1 .1 .1 .1 .1 .2 .2 .2 .2 .2 .2 .2 .2 .2 .2	0.3 .0 .2 .1 .2 .1 .2 .3 .0 .0 .2 .5 .2 .3 .3 .3 .6 .2 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0

Changes from December to December are based on unadjusted indexes.
 Data have been revised through August 2011; 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, 1972-2011

[Averages of daily figures, except debt end-of-period basis; billions of dollars, seasonally adjusted]

		M1	M2	Debt ¹	'	ercent 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
Decem		249.2	002.2	1 711 0	0.2	12.0	10.0
19	72 73	262.9	802.3 855.5	1,711.2 1,895.5	9.2 5.5	13.0 6.6	10.0 10.7
19 19	74 75	274.2 287.1	902.1 1,016.2	2,069.9 2,261.8	4.3 4.7	5.4 12.6	9.2 9.3
19	76 77	306.2 330.9	1,152.0 1,270.3	2,505.3 2,826.6	6.7 8.1	13.4 10.3	10.8 12.8
19	78	357.3	1,366.0	3,211.2	8.0	7.5	13.8
	79	381.8	1,473.7	3,603.0	6.9	7.9	12.2
19	80 81	408.5 436.7	1,599.8 1,755.5	3,953.5 4,361.7	7.0 6.9	8.6 9.7	9.5 10.4
19	82 83	474.8 521.4	1,909.3 2.125.7	4,783.4 5,359.2	8.7 9.8	8.8 11.3	10.4 12.0
19	84	551.6	2,308.8	6,146.2	5.8	8.6	14.8
	85 86	619.8 724.7	2,494.6 2,731.6	7,123.1 7,966.3	12.4 16.9	8.0 9.5	15.6 11.9
19	87 88	750.2 786.7	2,831.0 2,992.8	8,670.1 9,450.7	3.5 4.9	3.6 5.7	9.1 9.0
19	89	792.9	3,156.7	10,152.1	.8	5.5	7.2
	90	824.7 897.0	3,274.9	10,834.9	4.0	3.7	6.5
19	91 92	1,024.9	3,374.8 3,427.1	11,301.4 11,816.5	8.8 14.3	3.1 1.5	4.3 4.5
19 10	93 94	1,129.8 1,150.8	3,477.4 3,491.5	12,391.4 12,973.6	10.2 1.9	1.5 .4	4.7 4.6
19	95	1.127.5	3,634.2	13,667.5	-2.0	4.1	5.2
19 19	96 97	1,081.4 1,072.5	3,814.3 4,028.5	14,399.8 15,210.8	-4.1 8	5.0 5.6	5.4 5.6
19	98 99	1,095.7 1,122.4	4,369.6 4.628.9	16,216.4 17,291.3	2.2	8.5 5.9	6.6 6.4
	00	1,087.8	4,911.6	18,165.4	-3.1	6.1	5.0
20	01	1,182.8 1,220.6	5,424.9	19,297.5 20,716.1	8.7 3.2	10.5	6.3 7.4
20	02	1,307.0	5,768.7 6,058.6	22,443.8	7.1	6.3 5.0	8.1
20 20	04 05	1,376.7 1,375.0	6,404.4 6,667.9	25,264.5 27,588.5	5.3 1	5.7 4.1	9.2 9.2
20	06	1,367.2	7,059.7	29,979.4	6	5.9	8.7
20	07 08	1,375.4 1,606.9	7,484.5 8,231.7	32,525.7 34,463.7	.6 16.8	6.0 10.0	8.5 6.0
20	09	1,697.8	8,514.2	35,430.4	5.7	3.4	3.0
	10 11	1,840.3 2,173.9	8,796.4 9,640.1	36,931.6	8.4 18.1	3.3 9.6	4.1
2010:	Jan	1,684.3	8,479.9		2.7 6.0	.5 2.5	
	Feb Mar	1,705.0 1,712.5	8,531.0 8,524.4	35,798.6	6.2	2.1	3.5
	Apr May	1,701.7 1,706.0	8,549.5 8,596.3		3.2 3.1	2.0 2.3	
	June	1,722.4	8,616.4	36,145.9	2.9	2.4	3.9
	July Aug	1,724.6 1,743.7	8,613.1 8,639.2		4.8 4.5	3.1 2.5	
	Sept Oct	1,762.1 1,777.0	8,673.7 8,726.2	36,484.6	5.8 8.8	3.5 4.1	3.7
	Nov	1,822.6	8,756.0	36,931.6	13.7	3.7	
	Dec	1,840.3	8,796.4		13.7	4.2	4.9
	Jan Feb	1,868.4 1,878.9	8,860.4 8,903.5		16.7 15.5	5.7 6.1	
	Mar Apr	1,891.2 1,903.8	8,949.9 8,996.9	37,147.2	14.7 14.3	6.4 6.2	2.3
	May	1,931.6	9,046.1		12.0	6.6	
	June July	1,945.2 2,004.7	9,120.8 9,293.2	37,438.5	11.4 14.6	7.4 9.8	3.1
	Aug Sept	2,106.3 2,122.7	9,483.1 9,502.6	37,844.2	24.2 24.5	13.0 12.4	4.3
	Oct	2,138.9	9,549.8		24.7	12.3	4.3
	Nov Dec	2,158.3 2,173.9	9,596.1 9,640.1		23.5 23.5	12.2 11.4	

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.

the M3 monetary aggregate and most of its components. Institutional money market mutual funds is published as a memorandum item in the H6 release, and the component on large-denomination time deposits is published in other Federal Reserve Board releases. For details, see H.6 release of March 23, 2006.

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. 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

Table B-70. Components of money stock measures, 1972-2011

[Averages of daily figures; billions of dollars, seasonally adjusted]

		iy ilgures, billions			checkable deposits (OCDs)
Year and month	Currency	Nonbank travelers checks	Demand deposits	Total	At commercial banks	At thrift institutions
December: 1972 1973 1974	56.2 60.8 67.0	1.2 1.4 1.7	191.6 200.3 205.1	0.2 .3 .4 .9	0.0 .0 .2 .4	0.2 .3 .4 .5
1975 1976 1977 1978 1979	72.8 79.5 87.4 96.0 104.8	2.1 2.6 2.9 3.3 3.5	211.3 221.5 236.4 249.5 256.6	2.7 4.2 8.5 16.8	1.3 1.8 5.3 12.7	1.4 2.3 3.1 4.2
1980	115.3 122.5 132.5 146.2 156.1 167.7 180.4 196.7 212.0	3.9 4.1 4.1 4.7 5.0 5.6 6.1 6.6 7.0	261.2 231.4 234.1 238.5 243.4 266.9 302.9 287.7 287.1	28.1 78.7 104.1 132.1 147.1 179.5 235.2 259.2 280.6 285.1	20.8 63.0 80.5 97.3 104.7 124.7 161.0 178.2 192.5	7.3 15.6 23.6 34.8 42.4 54.9 74.2 81.0 88.1 87.7
1989 1990 1991 1992 1993 1994 1995 1996 1997 1998	222.3 246.5 267.1 292.1 321.7 354.7 372.8 394.6 425.2 460.4 517.9	7.7 7.7 8.2 8.0 8.6 9.0 8.8 8.4 8.5	278.6 276.8 289.6 340.0 385.4 383.6 389.0 402.2 393.7 376.8 352.8	293.7 332.5 384.6 414.6 404.0 356.6 275.8 245.2 250.0	197.4 208.7 241.6 280.8 302.6 297.4 249.0 172.1 148.3 143.9 139.7	85.0 90.9 103.8 112.0 106.6 107.6 103.7 96.9 106.1
2000	531.4 581.3 626.3 662.5 697.6 724.0 749.5 760.0 816.1 863.3	8.3 8.0 7.8 7.7 7.6 7.2 6.7 6.3 5.5	309.9 335.9 307.1 326.6 343.6 325.1 306.0 303.8 474.9	238.3 257.6 279.4 310.2 328.0 318.7 304.9 305.3 310.4 382.0	133.2 142.0 154.3 175.2 186.9 180.6 176.3 172.0 177.3	105.2 115.6 125.1 134.9 141.0 138.1 128.6 133.3 133.1
2010 2011	918.0 1,000.0	4.7 4.3	519.4 759.2	398.3 410.5	236.7 235.2	161.6 175.3
2010: Jan	863.8 868.0 871.4 875.6 879.4 882.5 887.0 892.6 899.1 907.1 914.0 918.0	5.1 5.0 5.0 4.9 4.8 4.8 4.7 4.7 4.7 4.7	439.3 447.8 447.7 449.8 446.8 456.7 455.2 466.1 474.0 477.4 506.8 519.4	376.1 384.1 388.3 371.3 374.8 378.4 377.6 380.2 384.3 387.7 397.1	223.7 230.6 235.7 217.1 218.7 224.1 223.1 224.5 228.9 229.4 237.5 236.7	152.4 153.5 152.6 154.3 156.1 154.3 154.5 155.7 155.4 158.3 159.5
2011: Jan	922.6 930.2 938.6 947.6 956.2 963.0 969.2 975.8 981.7 986.2 993.1	4.7 4.6 4.6 4.6 4.5 4.5 4.4 4.4 4.4 4.3	539.1 539.7 542.8 552.4 567.4 575.7 627.3 713.6 727.1 738.5 750.0 759.2	402.0 404.5 405.1 399.3 403.4 401.9 403.8 412.5 409.9 410.8 410.5	237.0 237.8 237.6 231.2 235.5 235.8 236.2 239.7 237.5 235.8 235.6 235.2	165.1 166.7 167.6 168.1 168.0 166.2 167.6 172.8 172.1 174.1 175.3

See next page for continuation of table.

Table B-70. Components of money stock measures, 1972-2011—Continued

[Averages of daily figures; billions of dollars, seasonally adjusted]

		avings deposits			omination time			
Year and month	Total	At commercial banks	At thrift institutions	Total	At commercial banks	At thrift institutions	Retail money funds	Institutional money funds ³
December: 1972 1973 1974 1975 1976 1977 1978 1979	321.4 326.8 338.6 388.9 453.2 492.2 481.9 423.8	124.8 128.0 136.8 161.2 201.8 218.8 216.5	196.6 198.7 201.8 227.6 251.4 273.4 265.4 228.8	231.6 265.8 287.9 337.9 390.7 445.5 521.0 634.3	108.2 116.8 123.1 142.3 155.5 187.5 185.1 235.5	123.5 149.0 164.8 195.5 235.2 278.0 335.8 398.7	0.1 1.4 2.4 1.8 1.8 5.8 33.9	0.2 .5 .6 1.0 3.5
1980 1981 1982 1983 1983 1984 1985 1986 1987 1988	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	62.5 151.7 183.4 135.3 163.8 207.6 222.3 242.6 318.8	16.0 38.2 48.8 40.9 63.7 66.7 87.3 94.4 95.8 114.1
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 1,274.9 1,401.6 1,605.2 1,739.7	581.3 664.8 754.2 785.3 752.8 774.8 906.1 1,022.8 1,188.6	341.6 379.6 433.1 434.0 398.5 361.0 368.8 378.8 416.6 451.1	1,173.3 1,065.3 867.7 781.5 817.5 932.4 947.9 967.6 951.3 955.2	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	354.0 368.1 347.3 346.8 371.9 438.5 510.2 586.7 717.4 811.6	143.3 192.9 218.4 223.7 219.6 273.8 334.7 408.6 563.4 667.9
2000 2001 2002 2003 2004 2005 2006 2007 2008	1,878.3 2,309.7 2,771.8 3,160.9 3,506.7 3,601.0 3,688.8 4,086.2 4,813.1	1,424.3 1,738.8 2,058.5 2,336.5 2,631.1 2,772.7 2,906.6 3,035.7 3,318.2 3,977.6	454.0 570.9 713.3 824.4 875.6 828.3 782.3 825.9 768.0 835.5	1,046.0 974.5 894.5 817.8 827.9 993.2 1,205.6 1,275.8 1,457.4 1,182.6	700.8 636.0 591.2 541.8 551.7 646.5 780.4 858.7 1,078.2 862.7	345.2 338.5 303.4 276.0 276.2 346.8 425.1 417.1 379.3 319.9	899.4 957.9 881.8 772.9 693.1 698.6 798.1 971.7 1,081.2 820.7	822.7 1,231.1 1,287.4 1,143.0 1,092.1 1,161.3 1,371.3 1,922.7 2,404.4 2,218.0
2010 2011	5,324.7 6,023.2	4,409.4 5,024.3	915.3 998.9	927.6 759.7	656.6 530.5	271.0 229.1	703.9 683.3	1,868.5 1,738.5
2010: Jan Feb Mar Apr Apr May June July Aug Sept Oct Nov Dec State Mar Apr And Aug Sept Oct S	4,840.6 4,902.5 4,933.9 5,003.7 5,068.5 5,090.6 5,109.3 5,145.8 5,191.7 5,261.0 5,275.5 5,324.7	3,996.1 4,042.2 4,062.0 4,130.1 4,184.1 4,199.9 4,216.8 4,248.9 4,293.0 4,354.4 4,365.6 4,409.4	844.5 860.3 871.8 873.6 884.4 890.7 892.5 896.8 906.6 909.9 915.3	1,154.2 1,134.3 1,112.8 1,092.6 1,072.4 1,053.1 1,035.9 1,018.4 995.7 972.3 948.5	838.4 822.9 805.5 790.4 774.7 759.9 746.5 732.1 713.3 693.5 673.9 656.6	315.8 311.4 307.2 302.2 297.7 293.2 289.5 286.4 282.5 278.8 274.5	800.9 789.3 765.3 751.5 749.4 750.2 743.3 731.3 724.2 715.9 709.5	2,178.4 2,115.1 2,042.6 1,957.5 1,910.2 1,883.0 1,901.9 1,909.3 1,894.4 1,888.5
2011: Jan Feb Mar Apr Apr May June July Aug Sept Oct Nov Dec	5,379.6 5,432.1 5,483.2 5,533.8 5,571.1 5,647.2 5,777.1 5,868.9 5,935.4 5,935.4 5,933.1 6,023.2	4,453.7 4,492.9 4,527.8 4,573.7 4,597.9 4,674.5 4,800.0 4,889.4 4,913.8 4,948.6 4,988.4 5,024.3	925.9 939.2 955.4 960.1 973.2 972.7 977.1 979.5 979.2 986.9 994.7	910.0 897.7 884.3 872.0 858.3 843.4 828.2 811.8 796.9 782.7 768.7 759.7	644.1 634.9 624.0 614.7 604.0 592.7 581.3 569.1 558.1 547.8 537.3 530.5	265.8 262.8 260.3 257.3 254.3 250.7 246.9 242.6 238.8 234.9 231.3 229.1	702.4 694.8 691.2 687.3 685.0 683.3 696.1 690.0 692.8 686.1 683.3	1,821.2 1,797.4 1,820.0 1,846.7 1,866.9 1,841.6 1,808.8 1,720.1 1,744.8 1,739.3 1,730.6

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, 1982-2011

[Averages of daily figures 1; millions of dollars; seasonally adjusted, except as noted]

	Adjus	ted for chan	iges in rese	rve requiren	nents ²		E	Borrowings	from the Fe	deral Reserve (N	ISA)3	
	Rese	ves of depo	sitory instit	utions				С	ther borrow	ings from the Fe	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 1988	23,600 25,367 26,913 31,569 38,840 38,913 40,453 40,486	22,966 24,593 23,727 30,250 38,014 38,135 38,738 40,221	23,100 24,806 26,078 30,505 37,667 37,893 39,392 39,545	500 561 835 1,063 1,173 1,019 1,061 941	160,127 175,467 187,252 203,555 223,416 239,829 256,897 267,761	634 774 3,186 1,318 827 777 1,716 265						
1990	41,766 45,516 54,421 60,566 59,466 56,483 50,185 46,875 45,170 42,108	41,440 45,324 54,298 60,484 59,257 56,226 50,030 46,551 45,053 41,787	40,101 44,526 53,267 59,497 58,295 55,193 48,766 45,189 43,658 40,814	1,665 990 1,154 1,069 1,171 1,290 1,418 1,687 1,512 1,294	293,340 317,521 350,884 386,715 418,468 434,648 451,941 479,825 513,826 593,506	326 192 124 82 209 257 155 324 117 9320						
2000	38,675 41,404 40,287 42,565 46,462 45,002 43,132 43,156 820,217 1,138,685	38,465 41,338 40,207 42,519 46,400 44,833 42,941 27,726 166,651 968,758	37,349 39,761 38,279 41,519 44,555 43,102 41,270 41,372 52,899 63,486	1,234 1,325 1,643 2,008 1,046 1,900 1,862 1,784 767,318 1,075,199	584,997 635,642 681,540 720,182 759,106 787,340 812,342 824,753 1,654,873 2,018,795	210 67 80 46 63 169 191 15,430 653,565 169,927	11,613 438,327 82,014	17 11 97 111 3,787 88,245 19,025	47,631	32,102	47,206 22,023	46,310
2010 2011	1,077,351 1,597,185	1,031,863 1,587,659	70,716 94,868	1,006,636 1,502,317	2,010,240 2,610,864	45,488 9,526	0	41 103			20,394	25,025 9,400
2010: Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec Mar Feb May Dec Move Dec Mare Feb Mar	1,109,019 1,224,805 1,185,953 1,116,551 1,109,769 1,099,619 1,085,946 1,047,969 1,040,101 1,038,835 1,077,351	966,876 1,113,578 1,094,309 1,036,326 1,034,144 1,029,721 1,022,077 1,025,862 995,448 991,528 992,146 1,031,863	63,219 62,954 65,584 66,336 64,991 64,693 66,278 66,387 67,138 66,510 67,270 70,716	1,045,800 1,161,851 1,120,369 1,050,215 1,044,779 1,034,926 1,021,646 1,019,559 980,831 973,590 971,565 1,006,636	1,989,485 2,110,262 2,074,581 2,008,764 2,005,681 1,998,540 1,991,401 1,994,517 1,962,566 1,962,813 1,968,357 2,010,240	142,142 111,227 91,644 80,225 75,626 69,897 65,847 60,083 52,521 48,573 46,689 45,488	54,209 23,677 7,286 796 0 0 0 0 0	16,407 14,258 11,136 6,468 4,198 288 39 22 32 37 89 41	0 0		23,213 25,544 25,252 25,739 26,397 25,937 24,185 22,064 19,791 19,478 19,912 20,394	47,342 46,874 47,306 46,617 44,565 43,401 41,548 37,913 32,620 29,012 26,665 25,025
2011: Jan	1,106,507 1,262,697 1,436,146 1,526,480 1,587,576 1,666,349 1,696,473 1,666,949 1,642,710 1,638,605 1,591,978 1,597,185	1,074,261 1,240,764 1,416,264 1,508,637 1,572,431 1,653,106 1,684,077 1,655,115 1,631,135 1,627,394 1,581,637 1,587,659	70,040 72,686 73,985 74,514 75,072 77,615 78,344 83,584 91,718 93,287 94,059 94,868	1,036,467 1,190,012 1,362,161 1,451,966 1,512,505 1,588,734 1,618,129 1,583,365 1,550,992 1,545,318 1,497,919 1,502,317	2,044,170 2,207,724 2,389,892 2,489,298 2,559,321 2,644,620 2,680,642 2,657,378 2,638,581 2,639,137 2,598,949 2,610,864	32,246 21,933 19,882 17,842 15,146 13,243 12,395 11,834 11,575 11,210 10,341 9,526	0 0 0 0 0 0 0 0	51 28 11 14 10 24 7 5 19 19 20			8,368	23,818 21,902 19,864 17,820 15,115 13,178 12,315 11,737 11,474 11,140 10,301 9,400

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, 1974-2011

[Monthly average; billions of dollars, seasonally adjusted 1]

			tilly averag ties in bank o			,		d leases in b	ank credit		
	Total		_ U.S.			Com-	Re	al estate loa	ans		
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: 1974 1975 1976 1977 1978 1979	707.5 737.8 798.6 885.6 1,003.8 1,118.2	172.1 204.9 226.7 234.3 240.3 258.0	88.2 118.1 137.5 137.5 138.4 146.1	83.9 86.8 89.1 96.8 101.9 111.9	535.4 532.9 571.9 651.3 763.6 860.2	191.3 183.4 185.2 204.7 237.2 279.7	129.8 134.1 148.5 175.1 210.5 241.7			102.1 104.3 115.8 138.0 164.4 183.8	112.2 111.1 122.3 133.5 151.4 155.0
1980 1981 1982 1983 1984 1985 1986 1987 1988	1,216.9 1,297.7 1,397.6 1,549.6 1,715.6 1,877.4 2,072.8 2,222.3 2,396.2 2,560.2	293.5 306.9 333.8 398.2 401.1 440.3 498.9 526.1 549.6 570.9	171.5 179.8 202.4 260.3 259.9 263.7 310.0 336.1 360.4 401.5	122.0 127.1 131.4 137.8 141.1 176.5 188.9 190.0 189.2 169.4	923.4 990.8 1,063.8 1,151.4 1,314.5 1,437.2 1,573.9 1,696.2 1,846.6 1,989.3	312.0 350.4 392.2 414.0 473.4 499.2 539.3 565.1 604.4 636.5	262.3 283.6 299.6 330.3 376.1 421.9 490.4 585.5 663.1 760.6	30.4 41.1 51.4		178.7 182.1 187.9 212.9 253.8 291.1 314.8 327.1 355.3 373.5	170.4 174.7 184.1 194.2 211.1 225.0 229.3 218.5 223.8 218.6
1990 1991 1992 1993 1994 1995 1996 1997 1998	2,698.4 2,810.0 2,910.1 3,064.8 3,236.7 3,465.3 3,638.5 3,963.4 4,368.6 4,629.6	619.3 728.7 825.4 897.4 894.2 896.1 895.9 990.2 1,096.3 1,145.0	460.0 565.0 664.8 731.3 721.9 703.3 698.6 751.7 795.3 811.1	159.3 163.8 160.7 166.2 172.3 192.8 197.3 238.5 301.0 333.9	2,079.1 2,081.2 2,084.7 2,167.4 2,342.5 2,569.2 2,742.6 2,973.2 3,272.3 3,484.6	639.4 617.8 597.5 584.5 643.8 715.2 778.7 845.7 939.1 1,001.8	842.5 869.3 888.4 929.4 987.8 1,062.1 1,122.6 1,220.6 1,311.4 1,461.0	63.5 72.0 75.1 74.2 76.0 79.9 86.3 98.8 97.3 101.3		375.4 363.4 354.7 386.2 443.7 484.5 507.3 500.3 497.8 506.8	221.8 230.6 244.1 267.3 267.1 307.4 334.0 406.5 524.0 515.0
2000	5,024.9 5,209.2 5,640.2 6,000.1 6,582.6 7,301.0 8,085.6 8,889.9 9,370.9 9,005.5	1,175.4 1,308.7 1,490.0 1,622.4 1,741.6 1,853.0 1,983.6 2,101.8 2,105.9 2,336.2	787.7 838.8 1,004.1 1,088.6 1,145.6 1,135.2 1,187.2 1,108.8 1,240.6 1,443.3	387.7 469.9 485.9 533.8 596.0 717.8 796.4 993.0 865.3 892.9	3,849.6 3,900.6 4,150.2 4,377.6 4,841.0 5,448.0 6,102.0 6,788.1 7,265.0 6,669.3	1,087.1 1,023.9 962.3 889.5 913.3 1,043.7 1,191.7 1,431.3 1,579.9 1,283.7	1,639.4 1,758.8 2,009.6 2,207.0 2,552.4 2,922.3 3,364.1 3,590.0 3,814.1 3,772.7	129.5 154.0 212.5 278.6 395.1 443.1 467.9 484.6 588.8 602.5	1,075.6 1,207.3 1,436.6 1,521.9 1,498.5 1,529.1	556.1 574.3 610.5 665.0 691.1 702.8 736.8 798.4 875.5 835.9	567.1 543.5 567.7 616.1 684.1 779.1 809.4 968.5 995.4 777.0
2010 2011	9,205.1 9,416.5	2,438.3 2,510.5	1,632.9 1,695.7	805.5 814.8	6,766.8 6,906.0	1,215.5 1,339.0	3,607.3 3,476.2	581.2 547.4	1,527.4 1,515.4	1,117.8 1,096.9	826.1 993.9
2010: Jan Feb Mar Apr Apr June July Aug Sept Oct Nov Dec	8,937.2 8,880.0 8,938.7 9,260.7 9,206.1 9,175.5 9,208.2 9,227.4 9,214.3 9,232.6 9,225.7 9,205.1	2,335.7 2,338.3 2,326.2 2,329.6 2,312.5 2,304.3 2,361.9 2,392.6 2,412.5 2,441.3 2,456.6 2,438.3	1,448.0 1,462.0 1,470.6 1,510.2 1,509.4 1,503.5 1,556.3 1,583.5 1,601.3 1,629.7 1,645.3 1,632.9	887.8 876.3 855.7 819.4 803.1 800.8 805.6 809.1 811.3 811.6 811.3	6,601.4 6,541.6 6,612.5 6,931.1 6,893.6 6,871.2 6,846.2 6,834.8 6,801.8 6,769.1 6,766.8	1,259.6 1,244.4 1,231.2 1,227.2 1,216.6 1,212.2 1,212.6 1,205.3 1,202.9 1,205.8	3,754.1 3,720.9 3,705.5 3,716.0 3,701.4 3,683.5 3,658.0 3,653.3 3,642.2 3,623.3 3,615.1 3,607.3	600.0 599.0 599.4 602.1 599.3 597.1 596.2 594.5 591.7 588.4 585.3 581.2	1,527.2 1,502.7 1,496.7 1,513.6 1,514.6 1,511.4 1,500.5 1,507.7 1,512.2 1,511.9 1,527.4	818.7 810.9 886.6 1,162.6 1,154.1 1,147.8 1,142.7 1,128.6 1,120.8 1,117.0 1,117.8	769.0 765.4 789.2 825.3 821.6 827.6 828.7 825.6 844.3 831.1 826.1
2011: Jan Feb Mar Apr Apr May June July Aug Sept Oct Nov Dec	9,181.8 9,145.3 9,140.2 9,178.9 9,183.5 9,224.7 9,269.2 9,276.9 9,338.6 9,389.9 9,416.5	2,438.8 2,432.1 2,441.9 2,463.3 2,451.5 2,445.1 2,445.9 2,458.5 2,465.0 2,474.5 2,487.8 2,510.5	1,638.6 1,633.6 1,644.5 1,678.3 1,676.2 1,663.5 1,655.4 1,660.8 1,664.9 1,676.0 1,685.6 1,695.7	800.1 798.5 797.4 785.0 775.3 781.5 790.4 797.8 800.1 798.5 802.2 814.8	6,743.0 6,713.2 6,698.3 6,715.2 6,724.3 6,738.5 6,778.8 6,810.7 6,811.9 6,864.1 6,902.1 6,906.0	1,220.3 1,223.5 1,234.2 1,244.2 1,257.8 1,265.8 1,277.1 1,297.6 1,302.2 1,316.9 1,325.0	3,597.4 3,568.3 3,537.5 3,516.4 3,597.2 3,490.4 3,485.4 3,485.2 3,487.1 3,476.2	577.4 574.5 571.8 569.0 566.2 563.6 560.0 557.7 555.8 552.3 550.3	1,532.7 1,514.1 1,496.6 1,487.2 1,485.2 1,490.9 1,497.3 1,500.9 1,515.8 1,520.5	1,080.0 1,074.3 1,073.7 1,079.0 1,079.3 1,085.7 1,090.8 1,089.0 1,086.6 1,089.5 1,091.3 1,096.9	845.4 847.2 853.0 875.6 883.4 889.8 920.6 938.7 941.0 972.4 998.7

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 20, 2012. Source: Board of Governors of the Federal Reserve System.

positive fair value or loans held in trading accounts.

3 Excludes unearmed 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, 1940-2011

[Percent per annum]

1970							i Groont pi	J. G	,					
Verst and month Second S			U.S. Ti	reasury sec	urities							Discount	window	
	Year and	Bi (at au	lls ction) ¹		Constant maturities	2			muni- cipal	home	rate	of New	York) ^{5, 6}	
1944	month	3-month	6-month	3-year	10-year	30-year	Aaa ³	Baa	(Stand- ard &		l by		ment	rate 7
1942	1940								2.50					
1944									2.10				1.00	
1944		373							2.30				81.00	
1946	1944	.375					2.72	3.61	1.86		1.50		8 1.00	
1949	1945	.375					2.62						81.00	
1949	1946	.3/5					2.53 2.61		1.b4 2.01				1 00	
1956	1948	1.040		I			2.82	3.47	2.40		1.75-2.00		1.34	
195 1,552	1949	1.102					2.66	3.42	2.21		2.00		1.50	
1952	1950								1.98		2.07		1.59	
1953	1951	1.552					2.8b		2.00		2.5b			
1956	1953	1.931			2.85		3.20	3.74	2.72		3.17			
1956	1954	.953	l .	1.63	2.40				2.37		3.05			1.70
1959	1955		1						2.53					1.79
1989	1957	3.267		3.98	3.65		3.89	4.71	3.60		4.20		3.12	3.11
1660									3.56					1.5/
1962													l	
1962	1960	2.93	3.25 2.61						3.73				3.53	3.21 1.95
1986	1962	2./8	2.91	3.47	3.95		4.33	5.02	3.18		4.50		3.00	2./1
1986	1963		3.25	3.67					3.23	5.89			3.23	3.18
1960	1965	3.95	4.05					4.03	3.22	5.81			4.04	3.50 4.07
1868	1966	4.88	5.08	5.23	4.93		5.13	5.67	3.82	6.25	5.63		4.50	5.11
1969	1967	4.32						6.23			5.63			4.22
1971	1969	6.68		7.02	6.67		7.03	7.81	5.81	7.81	7.96			8.21
1972	1970				7.35			9.11						7.17
1973	1971			5.66	6.16		7.39							4.67
1974 7.88 7.93 7.84 7.56 8.57 9.50 6.09 8.92 10.81 7.83 10.51 1975 5.84 6.12 7.50 7.99 8.83 10.61 6.89 9.00 7.66 6.25 5.82 1976 4.99 5.27 6.77 7.61 8.43 9.75 6.49 9.00 6.84 5.50 5.05 1977 5.27 5.52 6.68 7.42 7.75 8.02 8.97 5.50 9.00 6.83 5.46 5.54 5.50 1979 10.05 10.02 9.70 9.43 3.92 9.63 10.69 6.83 10.78 12.67 10.29 11.20 1880 11.51 11.43 11.21 11.43 11.21 11.44 11.02 11.87 13.42 11.23 1881 14.03 13.78 14.46 13.92 13.45 14.17 16.04 11.23 14.70 18.87 13.42 <td>1973</td> <td></td> <td></td> <td></td> <td>6.85</td> <td></td> <td>7.44</td> <td></td> <td>5.18</td> <td></td> <td>8.03</td> <td></td> <td></td> <td></td>	1973				6.85		7.44		5.18		8.03			
1976 4.99 527 6.77 7.61 8.43 9.75 6.49 9.00 6.84 5.50 5.05 1978 7.22 7.58 6.68 7.42 7.75 8.02 8.97 5.50 9.06 9.06 7.46 5.54 1979 10.05 10.02 9.70 9.43 9.28 9.63 10.69 6.51 12.67 10.29 10.29 11.51 11.43 11.51 11.43 11.51 11.43 11.77 13.35 1881 14.03 13.78 14.46 13.92 13.45 14.17 16.04 11.23 14.70 18.87 13.42 16.39 1982 10.689 11.08 12.93 13.01 12.76 13.79 16.11 11.57 15.14 14.85 11.01 12.24 18.25 9.47 12.57 10.79 8.50 9.99 1984 9.53 9.77 11.92 12.46 12.41 12.71 14.19 10.15 12.51 <td>1974</td> <td>7.89</td> <td>7.93</td> <td>7.84</td> <td>7.56</td> <td></td> <td>8.57</td> <td>9.50</td> <td>6.09</td> <td>8.92</td> <td>10.81</td> <td></td> <td>7.83</td> <td>10.51</td>	1974	7.89	7.93	7.84	7.56		8.57	9.50	6.09	8.92	10.81		7.83	10.51
1977		5.84												5.82
1880										9.02	6.83			5.54
1880	1978	7.22												7.94
1881											l			
1982 10.69 11.08 12.93 13.01 12.76 13.79 16.11 11.57 15.14 14.85 11.01 12.24 1983 8.63 8.75 10.45 11.10 11.18 12.04 13.55 9.47 10.79 8.50 9.09 1984 9.53 9.77 11.92 12.46 12.41 12.71 14.19 10.15 12.38 12.04 8.80 10.23 1985 7.47 7.64 9.64 10.62 10.79 11.37 12.72 9.18 11.55 9.93 7.769 8.10 1986 5.98 6.03 7.06 7.67 7.78 9.02 10.39 7.38 10.17 8.33 6.23 6.80 8.80 10.23 1987 5.82 6.05 7.68 8.39 8.59 9.38 10.58 7.73 9.31 8.21 5.66 6.66 1988 8.12 8.04 8.55 8.99 9.26 10														
1984 9.53 9.77 11.92 12.46 12.41 12.71 14.19 10.15 12.38 12.04 8.80 10.23 1985 7.47 7.64 9.64 10.62 10.79 11.37 12.72 9.18 11.55 9.93 7.69 8.10 1987 5.82 6.05 7.68 8.39 8.89 9.38 10.58 7.73 9.31 8.21 5.66 6.68 1988 6.69 6.92 8.26 8.85 8.89 9.89 10.58 7.73 9.31 8.21 5.66 6.60 1990 7.51 7.47 8.26 8.55 8.69 9.71 10.18 7.24 10.13 10.87 6.93 9.21 1990 7.51 7.47 8.26 8.55 8.61 9.32 10.05 10.05 10.01 6.93 9.21 1990 7.51 7.47 8.26 8.55 8.61 9.32 10.05 10.05	1982	10.69	11.08	12.93	13.01	12.76	13.79	16.11	11.57	15.14	14.85		11.01	12.24
1985 7,47 7,64 9,64 10,62 10,79 11,37 12,72 9,18 11,55 9,93 7,69 8,10 1986 5,98 6,03 7,06 7,67 7,78 9,02 10,39 7,33 10,17 8,33 6,32 6,80 1987 5,82 6,05 7,68 8,85 8,85 9,38 10,58 7,73 9,31 8,21 5,66 6,66 1988 6,69 6,82 8,26 8,85 8,86 9,71 10,83 7,76 9,19 9,32 6,620 7,55 1989 8,12 8,04 8,45 8,46 8,46 8,46 8,56 8,61 9,32 10,36 7,25 10,05 10,01 6,98 8,11 1991 5,42 5,49 6,82 7,86 8,14 8,77 9,80 6,89 9,32 8,46 5,545 5,69 1992 3,45 3,57 5,30 7,01 7,6	1983													9.09
1986 5.98 6.03 7.06 7.67 7.78 9.02 10.39 7.38 10.17 8.33 6.32 6.88 1987 5.82 6.05 7.68 8.39 8.59 9.38 10.58 7.73 9.31 8.21 5.66 6.66 1988 6.69 6.92 8.26 8.85 8.96 9.71 10.83 7.76 9.19 9.32 6.20 7.57 1899 8.12 8.04 8.55 8.49 8.61 9.32 10.36 7.22 10.13 10.87 6.63 9.21 1990 7.51 7.47 8.26 8.55 8.61 9.32 10.36 7.25 10.05 10.01 6.98 8.10 1991 5.42 5.49 6.82 7.86 8.14 8.77 9.80 6.89 9.32 8.46 5.45 5.89 1992 3.45 3.57 5.30 7.01 7.67 8.14 8.98 6.41 <td>1985</td> <td>7.47</td> <td>7.64</td> <td></td> <td></td> <td>10.79</td> <td></td> <td></td> <td></td> <td>11.55</td> <td></td> <td></td> <td></td> <td>8.10</td>	1985	7.47	7.64			10.79				11.55				8.10
1988 6.69 6.92 8.26 8.85 8.96 9.71 10.83 7.76 9.19 9.32 6.20 7.57 1989 8.12 8.04 8.55 8.49 8.45 9.26 10.18 7.24 10.13 10.87 6.93 9.21 1990 7.51 7.47 8.26 8.55 8.61 9.32 10.05 10.01 6.98 8.10 1991 5.42 5.49 6.82 7.86 8.14 8.77 9.80 6.89 9.32 8.46 5.45 5.45 5.69 1992 3.45 3.57 5.30 7.01 7.67 8.14 8.98 6.41 8.24 6.25 3.35 3.52<	1986		6.03	7.06	7.67	7.78	9.02	10.39	7.38	10.17	8.33		6.32	6.80
1989 8.12 8.04 8.55 8.49 8.45 9.26 10.18 7.24 10.13 10.87 6.93 9.21 1990 7.51 7.47 8.26 8.55 8.61 9.32 10.36 7.25 10.05 10.01 6.98 8.10 1991 5.42 5.49 6.82 7.86 8.14 8.77 9.80 6.89 9.32 8.46 5.45 5.69 1992 3.45 3.357 5.30 7.01 7.67 8.14 8.98 6.41 8.24 6.25 3.25 3.52 3.35 3.02 3.14 4.44 5.87 6.59 7.22 7.93 5.63 7.20 6.00 3.00 3.02 3.14 4.44 5.87 6.59 7.22 7.93 5.63 7.20 6.00 3.00 3.02 3.02 3.14 4.44 5.87 6.59 7.22 7.93 5.63 7.20 6.00 3.00 3.02 3.02 3	198/		6.05				9.38			9.31			5.66	6.66
1991 5.42 5.49 6.82 7.86 8.14 8.77 9.80 6.89 9.32 8.46 5.55 5.65 5.89 1992 3.45 3.57 5.30 7.01 7.67 8.14 8.98 6.41 8.24 6.25 3.25 3.52 3.52 1993 3.02 3.14 4.44 5.87 6.59 7.22 7.93 5.63 7.20 6.00 3.00 3.00 3.02 1994 4.29 4.66 6.27 7.09 7.37 7.96 8.62 6.19 7.49 7.15 3.60 4.21 1995 5.51 5.59 6.25 6.57 6.88 7.59 8.20 5.95 7.87 7.83 3.60 4.21 5.02 5.91 5.91 5.91 6.61 7.80 5.55 7.87 8.83 5.21 5.83 1997 5.07 5.08 6.61 7.80 5.55 7.71 8.44 5.00 5.93 1999 <td>1989</td> <td>8.12</td> <td>8.04</td> <td>8.55</td> <td>8.49</td> <td>8.45</td> <td></td> <td></td> <td></td> <td>10.13</td> <td></td> <td></td> <td>6.93</td> <td>9.21</td>	1989	8.12	8.04	8.55	8.49	8.45				10.13			6.93	9.21
1991 5.42 5.49 6.82 7.86 8.14 8.77 9.80 6.89 9.32 8.46 5.55 5.65 5.89 1992 3.45 3.57 5.30 7.01 7.67 8.14 8.98 6.41 8.24 6.25 3.25 3.52 3.52 1993 3.02 3.14 4.44 5.87 6.59 7.22 7.93 5.63 7.20 6.00 3.00 3.00 3.02 1994 4.29 4.66 6.27 7.09 7.37 7.96 8.62 6.19 7.49 7.15 3.60 4.21 1995 5.51 5.59 6.25 6.57 6.88 7.59 8.20 5.95 7.87 7.83 3.60 4.21 5.02 5.91 5.91 5.91 6.61 7.80 5.55 7.87 8.83 5.21 5.83 1997 5.07 5.08 6.61 7.80 5.55 7.71 8.44 5.00 5.93 1999 <td>1990</td> <td>7.51</td> <td>7.47</td> <td>8.26</td> <td>8.55</td> <td></td> <td>9.32</td> <td>10.36</td> <td></td> <td>10.05</td> <td>10.01</td> <td></td> <td>6.98</td> <td>8.10</td>	1990	7.51	7.47	8.26	8.55		9.32	10.36		10.05	10.01		6.98	8.10
1993 3 02 3 14 4.44 5.87 6.59 7.22 7.93 5.63 7.20 6.00 3.00 4.00 3.00 4.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 3.00 <td< td=""><td>1991</td><td>5.42</td><td></td><td></td><td></td><td></td><td>8.77</td><td>9.80</td><td>6.89</td><td>9.32</td><td>8.46</td><td></td><td>5.45</td><td>5.69</td></td<>	1991	5.42					8.77	9.80	6.89	9.32	8.46		5.45	5.69
1994 4 29 4 66 6 27 7.09 7.37 7.96 8 62 6.19 7.49 7.15 3.60 4.21 1995 5.51 5.59 6.25 6.57 6.88 7.59 8.20 5.95 7.87 8.83 5.21 5.83 1996 5.02 5.09 5.99 6.44 6.71 7.37 8.00 5.75 7.80 8.27 5.02 5.30 1997 5.07 5.18 6.10 6.35 6.56 6.53 7.22 5.12 7.07 8.35 4.92 5.53 1999 4.66 4.76 5.49 5.65 5.87 7.04 7.87 5.43 7.04 8.00 4.62 4.97 2000 5.85 5.92 6.22 6.03 5.94 7.62 8.36 5.77 7.02 8.23 5.73 6.24 2001 3.44 3.39 4.09 5.02 5.94 7.62 8.36 5.77	1992	3.45	3.5/		7.U1 5.87			8.98 7.93	b.41 5.63	8.24 7.20	6.25 6.00		3.25 3.00	3.52
1996 5.02 5.09 5.99 6.44 6.71 7.37 8.05 5.75 7.80 8.27 5.02 5.20 5.03 1997 5.07 5.18 6.10 6.35 6.61 7.26 7.86 5.55 7.71 8.44 5.00 5.46 1998 4.81 4.85 5.14 5.26 5.58 6.53 7.22 5.12 7.07 8.35 4.92 5.35 4.92 5.35 4.92 5.35 4.92 5.35 4.92 5.35 5.94 7.02 8.36 5.77 7.71 8.44 5.02 5.28 6.22 6.03 7.70 7.87 5.43 7.04 8.00 4.62 4.99 5.65 5.87 7.04 7.87 5.43 7.04 8.00 4.62 4.99 5.02 5.49 7.08 7.95 5.19 7.00 6.91 3.40 3.88 2.002 1.62 1.69 3.10 4.61 5.43 6.49 7.80 5.05 <t< td=""><td>1994</td><td>4.29</td><td>4.66</td><td>6.27</td><td>7.09</td><td>7.37</td><td>7.96</td><td>8.62</td><td>6.19</td><td>7.49</td><td>7.15</td><td></td><td>3.60</td><td>4.21</td></t<>	1994	4.29	4.66	6.27	7.09	7.37	7.96	8.62	6.19	7.49	7.15		3.60	4.21
1997 5.07 5.18 6.10 6.35 6.61 7.26 7.86 5.55 7.71 8.44 5.00 5.49 1998 4.81 4.85 5.14 5.26 5.58 6.53 7.22 5.12 7.07 8.35 4.92 5.35 1999 4.66 4.76 5.49 5.65 5.87 7.04 7.87 5.43 7.04 8.00 4.62 4.97 2000 5.85 5.92 6.22 6.03 5.94 7.62 8.36 5.77 7.52 9.23 5.73 6.24 2001 3.44 3.39 4.09 5.02 5.49 7.08 7.95 5.19 7.00 6.91 3.30 3.40 3.38 3.88 3.88 3.40 3.34 3.39 4.09 5.02 5.49 7.08 7.95 5.19 7.00 6.91 3.340 3.88 2002 1.62 1.69 3.10 4.61 5.49 7.08	1995						7.59		5.95		8.83			5.83
1998 4,81 4,85 5,14 5,26 5,58 6,53 7,22 5,12 7,07 8,35 4,92 5,32 1999 4,66 4,76 5,49 5,65 5,87 7,04 7,87 5,43 7,04 8,00 4,62 4,97 2000 5,85 5,92 6,22 6,03 5,94 7,62 8,36 5,77 7,52 9,23 5,73 6,24 2001 3,44 3,39 4,09 5,02 5,49 7,08 7,95 5,19 7,00 6,91 3,40 3,88 3,20 1,11 1,17 1,62 1,69 3,10 4,61 5,43 6,49 7,80 5,05 6,43 4,67 1,17 1,67 2,11 1,17 1,62 1,11 1,17 1,62 1,11 1,17 1,62 1,11 1,11 1,11 1,11 1,11 1,11 1,11 1,11 1,11 1,11 1,11 1,11 1,11 1,11 1,11 1,														5.46
2000 5.85 5.92 6.22 6.03 5.94 7.62 8.36 5.77 7.52 9.23 5.73 6.24 2001 3.44 3.39 4.09 5.02 5.49 7.08 7.95 5.19 7.00 6.91 3.40 3.88 2002 1.62 1.69 3.10 4.61 5.43 6.49 7.80 5.05 6.43 4.67 1.17 1.67 2003 1.01 1.06 2.10 4.01 5.67 6.77 4.73 5.80 4.12 2.12 1.13 2004 1.38 1.57 2.78 4.27 5.63 6.39 4.63 5.77 4.34 2.34 1.35 2005 3.16 3.40 3.93 4.29 5.24 6.06 4.29 5.94 6.19 4.19 3.22 2006 4.73 4.80 4.77 4.80 4.91 5.59 6.48 4.42 6.61 9.96 4.99 <td>1998</td> <td></td> <td></td> <td>5.14</td> <td>5.26</td> <td>5.58</td> <td>6.53</td> <td>7.22</td> <td>5.12</td> <td></td> <td></td> <td></td> <td></td> <td>5.35</td>	1998			5.14	5.26	5.58	6.53	7.22	5.12					5.35
2004 1.38 1.57 2.78 4.27 5.53 6.39 4.03 5.77 4.34 2.34 1.35 2005 3.16 3.40 3.93 4.29 5.24 6.06 4.29 5.94 6.19 4.19 3.22 2006 4.73 4.80 4.97 4.80 4.91 5.59 6.48 4.42 6.63 7.96 5.96 4.97 2007 4.41 4.48 4.35 4.63 4.84 5.56 6.48 4.42 6.41 8.05 5.86 5.02 2008 1.48 1.71 2.24 3.66 4.28 5.63 7.45 4.80 6.05 5.09 2.39 1.92 2009 1.6 29 1.43 3.26 4.08 5.31 7.30 4.64 5.14 3.25 5.01 .16 2010 1.4 20 1.11 3.22 4.25 4.94 6.04 4.16 4.80 3.25 .7											l		l	
2004 1.38 1.57 2.78 4.27 5.53 6.39 4.03 5.77 4.34 2.34 1.35 2005 3.16 3.40 3.93 4.29 5.24 6.06 4.29 5.94 6.19 4.19 3.22 2006 4.73 4.80 4.97 4.80 4.91 5.59 6.48 4.42 6.63 7.96 5.96 4.97 2007 4.41 4.48 4.35 4.63 4.84 5.56 6.48 4.42 6.41 8.05 5.86 5.02 2008 1.48 1.71 2.24 3.66 4.28 5.63 7.45 4.80 6.05 5.09 2.39 1.92 2009 1.6 29 1.43 3.26 4.08 5.31 7.30 4.64 5.14 3.25 5.01 .16 2010 1.4 20 1.11 3.22 4.25 4.94 6.04 4.16 4.80 3.25 .7		5.85			5.03				5./7	/.52 7 nn				6.24 3.80
2004 1.38 1.57 2.78 4.27 5.53 6.39 4.03 5.77 4.34 2.34 1.35 2005 3.16 3.40 3.93 4.29 5.24 6.06 4.29 5.94 6.19 4.19 3.22 2006 4.73 4.80 4.97 4.80 4.91 5.59 6.48 4.42 6.63 7.96 5.96 4.97 2007 4.41 4.48 4.35 4.63 4.84 5.56 6.48 4.42 6.41 8.05 5.86 5.02 2008 1.48 1.71 2.24 3.66 4.28 5.63 7.45 4.80 6.05 5.09 2.39 1.92 2009 1.6 29 1.43 3.26 4.08 5.31 7.30 4.64 5.14 3.25 5.01 .16 2010 1.4 20 1.11 3.22 4.25 4.94 6.04 4.16 4.80 3.25 .7	2002	1.62	1.69	3.10	4.61		6.49	7.80	5.05	6.43	4.67			1.67
2004 1.38 1.57 2.78 4.27 5.53 6.39 4.03 5.77 4.34 2.34 1.35 2005 3.16 3.40 3.93 4.29 5.24 6.06 4.29 5.94 6.19 4.19 3.22 2006 4.73 4.80 4.97 4.80 4.91 5.59 6.48 4.42 6.63 7.96 5.96 4.97 2007 4.41 4.48 4.35 4.63 4.84 5.56 6.48 4.42 6.41 8.05 5.86 5.02 2008 1.48 1.71 2.24 3.66 4.28 5.63 7.45 4.80 6.05 5.09 2.39 1.92 2009 1.6 29 1.43 3.26 4.08 5.31 7.30 4.64 5.14 3.25 5.01 .16 2010 1.4 20 1.11 3.22 4.25 4.94 6.04 4.16 4.80 3.25 .7	2003	1.01	1.06	2.10			5.67	6.77	4.73	5.80		2.12		1.13
2005 4,73 4,80 4,77 4,80 4,91 5,59 6,48 4,42 6,63 7,90 5,90 4,91 2007 4,41 4,48 4,35 4,63 4,64 5,56 6,48 4,42 6,63 6,41 8,05 5,86 5,02 2008 1,48 1,71 2,24 3,66 4,28 5,63 7,45 4,80 6,05 5,09 2,39 1,92 2009 1,6 2,9 1,43 3,26 4,08 5,31 7,30 4,64 5,14 3,25 5,50 1,68 2010 1,4 20 1,11 3,22 4,25 4,94 6,04 4,16 4,80 3,25 7,72	2004 2005	1.38 3.16	1.5/ 3.40	2./8	4.27		5.63	6.39 6.06	4.63	5.// 5.94		2.34 4.19		1.35
2007 4.41 4.48 4.35 4.63 4.84 5.56 6.48 4.42 6.41 8.05 5.86 5.02 2008 1.48 1.71 2.24 3.66 4.28 5.63 7.45 4.80 6.05 5.09 2.39 1.92 2009 1.6 29 1.43 3.26 4.08 5.31 7.30 4.64 5.14 3.25 .50 .51 2010 1.4 20 1.11 3.22 4.25 4.94 6.04 4.16 4.80 3.25 .72 .18	2006	4.73	4.80	4.//	4.80		5.59	6.48	4.42	6.63	7.96	5.96		4.97
2010 14 .20 1.11 3.22 4.25 4.94 6.04 4.16 4.80 3.25 .72 18	2007				4.63	4.84	5.56	6.48			8.05	5.86		5.02
2010 14 .20 1.11 3.22 4.25 4.94 6.04 4.16 4.80 3.25 .72 18				1.43			5.31	7.40	4.64	5.14	3.25	.50		.16
			l .			I					l			.18
	2011												1	.10

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, 1940-2011—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	nds	grade muni- cipal bonds	New- home mort-	Prime rate charged	(Federal Re of New	serve Bank	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	
2007: Jan Feb Mar Apr June July Aug Sept Oct Nov Dec	4.96 5.02 4.96 4.87 4.77 4.63 4.83 4.34 4.01 3.96 3.49 3.08	4.93 4.96 4.90 4.87 4.80 4.77 4.85 4.56 4.13 4.08 3.63 3.29	4.79 4.75 4.51 4.60 4.69 5.00 4.82 4.34 4.06 4.01 3.35 3.13	4.76 4.72 4.56 4.69 4.75 5.10 5.00 4.67 4.52 4.53 4.15	4.85 4.82 4.72 4.87 4.90 5.20 5.11 4.93 4.79 4.77 4.52 4.53	5.40 5.39 5.30 5.47 5.79 5.73 5.79 5.74 5.66 5.44 5.49	6.34 6.28 6.27 6.39 6.70 6.65 6.65 6.59 6.48 6.40 6.65	4.29 4.21 4.18 4.32 4.37 4.64 4.73 4.57 4.41 4.45 4.22	6.35 6.31 6.22 6.21 6.22 6.54 6.70 6.73 6.58 6.55 6.42 6.21	8.25-8.25 8.25-8.25 8.25-8.25 8.25-8.25 8.25-8.25 8.25-8.25 8.25-8.25 8.25-8.25 8.25-7.75 7.75-7.50 7.50-7.50	6.25-6.25 6.25-6.25 6.25-6.25 6.25-6.25 6.25-6.25 6.25-6.25 6.25-5.75 5.75-5.25 5.25-5.00 5.00-5.00		5.25 5.26 5.25 5.25 5.25 5.26 5.02 4.76 4.49 4.24
2008: Jan Feb Mar Apr May July Aug Sept Oct Nov Dec	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 5.51 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 3.50–2.50 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 May 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	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 4.31 4.49	5.05 5.27 5.50 5.39 5.54 5.61 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 .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	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 4.22 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 4.44	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 0.75-0.50 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 .19
Per 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 5.36 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	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		.17 .16 .14 .10 .09 .09 .07 .10 .08 .07

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, 2003-2011

Item	2003	2004	2005	2006	2007	2008	2009	2010
NONFINANCIAL SECTORS								
Domestic	1,683.5	2,068.7	2,324.1	2,392.5	2,539.8	1,938.0	1,050.9	1,445.1
By instrument	1,683.5	2,068.7	2,324.1	2,392.5	2,539.8	1,938.0	1,050.9	1,445.1
Commercial paper Treasury securities	-37.3 398.4	15.3 362.5	-7.7 307.3	22.4 183.7	11.3 237.5	7.7 1,239.0	-73.1 1,443.7	24.5 1,579.6
Agency- and GSE-backed securities 1	-2.4 137.6	6	4	3	4	.2	.1 154.5	.7
Municipal securities	151.9	212.9 75.5	193.6 56.7	168.3 215.6	235.9 311.2	95.3 204.6	377.2	97.7 420.6
Bank loans n.e.c.	-76.3	5.2	134.5	175.3	240.2	192.5	-296.0	-33.0
Other loans and advances Mortgages	10.3 995.3	58.6 1,222.1	119.3 1,420.4	159.8 1,372.3	311.0 1,053.8	74.9 85.0	-154.2 -286.2	-85.3 -515.5
Home	817.1 71.6	1,016.5 43.7	1,116.8 60.8	1,065.3	714.3 84.4	-110.3 46.2	-200.4 7.5	-342.4 -10.2
Multifamily residential Commercial	118.8	149.5	233.7	37.0 266.7	250.4	127.1	-90.0	-167.8
Farm Consumer credit	-12.2 105.9	12.5 117.2	9.1 100.4	3.3 95.4	4.6 139.3	22.0 38.8	-3.4 -115.3	4.9 -44.2
By sector	1.683.5	2.068.7	2.324.1	2.392.5	2.539.8	1.938.0	1.050.9	1.445.1
Household sector	1,011.5	1,044.3	1,174.3	1,167.2	867.3	14.7	-232.0	-278.4
Nonfinancial business	155.4 76.5	475.7 214.8	705.6 356.8	943.7 520.9	1,288.5 819.2	664.1 337.3	-272.5 -133.4	77.0 279.1
Nonfarm noncorporate	91.6	245.2	331.6	408.6	454.8	321.8	-132.7	-213.2
FarmState and local governments	-12.6 120.5	15.8 186.8	17.3 137.2	14.2 98.3	14.6 146.9	5.1 20.0	-6.3 111.5	11.1 66.2
Federal Government	396.0	361.9	306.9	183.4	237.1	1,239.2	1,443.9	1,580.2
Foreign borrowing in the United States	43.0 18.9	155.3 69.2	113.0 38.6	332.6 98.4	170.3 -69.3	-226.2 -71.0	211.7 59.4	88.2 -2.7
Commercial paper	28.7	85.8	50.0 64.5	227.8	218.7	-71.0 -158.8	163.2	72.8
Bank loans n.e.c	-2.5 -2.1	3.8 -3.6	14.5 -4.6	13.8 -7.4	24.1 -3.2	5.1 -1.5	-11.2 .3	17.9 .2
Nonfinancial domestic and foreign borrowing	1.726.5	2,224.0	2,437.1	2,725.1	2.710.1	1,711.8	1,262.6	1,533.2
FINANCIAL SECTORS	1,720.0	2,221.0	2,107.1	2,720.1	2,710.1	1,711.0	1,202.0	1,000.2
By instrument	1,071.6	971.3	1,116.5	1,300.0	1,793.9	901.9	-1,844.0	-968.5
Open market paperGSE issues 1	-63.5 250.9	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
Agency- and GSE-backed mortgage pool securities 1	335.4	40.8	164.5	292.6	623.3	497.0	415.3	186.9
Corporate bonds	487.3 21.4	668.2 66.0	744.6 18.8	810.0 -62.3	698.3 70.9	-277.4 496.1	-589.1 -467.5	-591.8 -90.2
Other loans and advances	31.2	74.1	44.4	21.2	225.8	33.3	-282.6	-144.7
Mortgages	8.9 1,071.6	25.5 971.3	14.1 1,116.5	6.6 1,300.0	4.7 1,793.9	6.8 901.9	3.4 -1.844.0	6.9 -968.5
U.Schartered commercial banks	13.2	18.7	36.9	107.5	131.8	79.1	-152.6	-133.5
Foreign banking offices in the United States Bank holding companies	-0.1 35.4	.1 59.5	.0 48.2	3 68.7	.0 129.4	2 84.0	.0 –10.3	.0 –42.6
Savings institutions	35.3	91.4	22.5	-108.2	104.1	-67.1	-169.6	-29.0
Credit unions Life insurance companies	2.2 2.9	2.3 3.0	3.3	4.2 2.7	13.4 14.5	8.3 26.2	-14.1 -6.6	4 -3.2
Government-sponsored enterprises	250.9	75.0	-84.0	35.6	282.4	271.7	-475.3	-233.8
Agency- and GSE-backed mortgage pools 1 Asset-backed securities issuers	335.4 249.8	40.8 439.3	164.5 731.1	292.6 811.2	623.3 339.4	497.0 -408.0	415.3 -740.1	186.9 -515.2
Finance companies	111.1	134.3	33.5	34.8	34.9	-79.4	-156.2	-173.9
REITs ² Brokers and dealers	32.3 6.4	94.6 15.2	55.4 .1	15.5 6.4	10.2 -4.0	-53.8 77.7	-50.0 -49.7	4.6 36.9
Funding corporations	-3.2	-2.9	104.7	29.1	114.5	466.4	-434.8	-65.3
ALL SECTORS, BY INSTRUMENT	0.700.0	0.405.0	0.550.0	4.005.4	45044	0.040.7	F04 F	504.0
Total	2,798.0 -82.0	3,195.3 106.2	3,553.6 245.1	4,025.1 317.1	4,504.1 -169.4	2,613.7 -189.0	-581.5 -461.9	564.8 -79.9
Treasury securities	398.4	362.5	307.3	183.7	237.5	1,239.0	1,443.7	1,579.6
Agency' and GSE-backed securities ¹ Municipal securities	583.8 137.6	115.2 212.9	80.0 193.6	327.9 168.3	905.3 235.9	768.9 95.3	-59.9 154.5	-46.2 97.7
Corporate and foreign bonds	668.0	829.5	865.8	1,253.4	1,228.2	-231.6	-48.6	-98.4
Bank loans n.e.c. Other loans and advances	-57.4 39.4	75.1 129.2	167.8 159.1	126.9 173.6	335.1 533.6	693.7 106.7	-774.6 -436.5	-105.4 -229.8
Mortgages	1,004.2	1,247.6	1,434.5	1,378.8	1,058.5	91.7	-282.8	-508.6
Consumer credit	105.9	117.2	100.4	95.4	139.3	38.8	-115.3	-44.2

 $^{^{\}rm 1}$ Government-sponsored enterprises (GSE). $^{\rm 2}$ Real estate investment trusts (REITs).

See next page for continuation of table.

TABLE B-74. Credit market borrowing, 2003-2011—Continued

		20	110			2011	
ltem	1	II	III	IV	I	II	III
NONFINANCIAL SECTORS							
Domestic	1,247.9	1,389.3	1,354.7	1,788.4	862.1	1,143.6	1,622.9
By instrument	1.247.9	1,389.3	1.354.7	1,788.4	862.1	1.143.6	1.622.9
Commercial paper		62.7	43.8	-58.7	31.7	55.4	35.6
Treasury securities	. 1,604.8	1,848.7	1,390.4	1,474.4	740.4	826.2	1,380.7
Agency- and GSE-backed securities 1	. 0.3	1.1	.5	.8	1.2	.2	1.9
Municipal securities	. 126.3 . 432.4	-4.8 231.6	76.9 510.6	192.4 507.7	-74.3 392.0	-110.3 447.1	-9.6 294.0
Bank loans n.e.c.	54.7	-55.0	-84.3	62.0	110.9	212.0	141.8
Other loans and advances	. -122.4	-96.7	-50.3	-71.9	-8.3	15.5	60.7
Mortgages	691.5	-516.2	-479.4	-374.9	-383.9	-386.6	-311.7
Home Multifamily residential	–557.7 –19.9	-313.4 -14.5	-292.1 .8	-206.4 -7.4	-296.4 7.1	-271.4 2.9	-203.4 3.8
Commercial		-193.3	-193.1	-166.1	-90.6	-113.9	-108.0
Farm		4.9	5.0	5.0	-4.1	-4.1	-4.2
Consumer credit	97.6	-82.1	-53.5	56.5	52.5	84.1	29.5
By sector	1,247.9	1,389.3	1,354.7	1,788.4	862.1	1,143.6	1,622.9
Household sector	419.2	-296.9	-298.8	-98.7	-243.7	-85.0	-158.8
Nonfinancial business		-147.6	200.6	265.4	464.2	508.8	398.0
Corporate		119.7 -271.4	353.3 -176.0	277.0 -29.0	475.7 -17.8	515.3 10.8	343. 71.
Nonfarm noncorporate Farm		4.1	23.3	17.5	6.3	-17.3	-16.8
State and local governments		-15.9	62.0	146.6	-99.9	-106.5	1.0
Federal Government	. 1,605.1	1,849.8	1,390.9	1,475.1	741.5	826.4	1,382.6
Foreign borrowing in the United States	119.1	-43.5	132.0	145.1	221.4	-17.4	-191.8
Commercial paper	-24.9	-55.6	13.9	55.8	128.9	-43.2	-248.2
Bonds		6	89.8	58.9	44.2	13.4	15.0
Bank loans n.e.c. Other loans and advances		13.8 -1.1	28.2	29.9	47.9 .5	13.7 -1.4	41.3
Nonfinancial domestic and foreign borrowing		1,345.8	1,486.6	1,933.4	1,083.6	1,126.2	1,431.0
	1,307.1	1,343.0	1,400.0	1,955.4	1,000.0	1,120.2	1,431.0
FINANCIAL SECTORS							
By instrument		-1,107.8	-703.5	-805.3	-151.5	-994.2	-499.2
Open market paperGSE issues ¹		-189.0 -248.6	189.6 -372.1	-206.0 -254.3	92.2 11.1	-99.8 -479.9	31.0 -138.3
Agency- and GSE-backed mortgage pool securities 1		228.6	159.7	189.6	263.7	146.5	124.0
Corporate bonds	–932.7	-640.9	-336.5	-457.1	-438.5	-366.2	-339.4
Bank loans n.e.c.		-108.8	-103.4	-62.1	-46.7	-115.8	-39.7
Other loans and advances		-151.1 1.9	-244.0 3.1	-37.3 21.8	-40.4 7.1	-97.4 18.4	-141.2 4.2
	1	l		-805.3	-151.5	-994.2	-499.2
By sector	-1,257.2 -118.7	-1,107.8 -127.7	-703.5 -175.6	-005.5	-151.5	-994.2 -67.1	-499.2 -94.9
Foreign banking offices in the United States		.0.	.0	0.	.0	0,.1)
Bank holding companies	-75.4	-118.4	204.4	-180.9	44.3	-186.9	-107.7
Savings institutions		-41.6	-61.9	47.9	-39.9	-33.3	-63.1 3.1
Credit unions Life insurance companies		-1.6 .0	.8 -1.2	3.6 8	-9.6 1.8	-3.5 2.4	3.4
Government-sponsored enterprises		-248.6	-372.1	-254.3	11.1	-479.9	-138.3
Agency- and GSE-backed mortgage pools 1	169.7	228.6	159.7	189.6	263.7	146.5	124.0
Asset-backed securities issuers		-551.2	-465.7	-411.2	-369.0	-242.0	-252.7
Finance companies REITs ²		-176.2 -8.6	-143.0 35.7	-66.5 -13.4	-9.7 44.5	-169.8 75.9	35.6 25.9
Brokers and dealers	2.4	34.6	-19.2	134.4	-5.9	-72.7	-43.5
Funding corporations		-97.1	134.5	-141.8	-67.1	36.3	10.9
ALL SECTORS, BY INSTRUMENT							
Total	109.9	238.0	783.1	1.128.1	932.0	132.0	931.8
Open market paper	176.3	-181.9	247.3	-208.8	252.7	-87.5	-181.6
Treasury securities	1,604.8	1,848.7	1,390.4	1,474.4	740.4	826.2	1,380.7
Agency- and GSE-backed securities 1	109.9	-18.9	-211.8	-64.0	276.0	-333.3	-12.4
Municipal securities	126.3 –357.3	-4.8 -409.8	76.9 263.8	192.4 109.6	-74.3 -2.3	-110.3 94.3	-9.6 -30.4
Bank loans n.e.c.		-403.6 -150.1	-159.5	29.8	112.1	109.9	143.4
Other loans and advances	-267.5	-248.8	-294.2	-108.7	-48.2	-83.3	-80.3
Mortgages	-690.7	-514.3	-476.3	-353.1	-376.8	-368.1	-307.5
Consumer credit	-97.6	-82.1	-53.5	56.5	52.5	84.1	29.5

Source: Board of Governors of the Federal Reserve System.

TABLE B-75. Mortgage debt outstanding by type of property and of financing, 1954-2011 [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-	Farm proper-	Takal	1- to 4-	Multi- family	Com- mercial		1- to	4-family ho	uses		4 . 4
·	ties	ties	Total	family houses	proper- ties	proper- ties	Total ¹	Total	FHA- insured	VA- guar- anteed	Total	1- to 4- family houses
1954 1955 1956 1957 1958 1959	113.6 129.9 144.5 156.5 171.8 191.6	8.2 9.0 9.8 10.4 11.1 12.1	105.4 120.9 134.6 146.1 160.7 179.5	75.7 88.2 99.0 107.6 117.7 131.6	13.5 14.3 14.9 15.3 16.8 18.7	16.3 18.3 20.7 23.2 26.1 29.2	36.2 42.9 47.8 51.6 55.2 59.3	32.1 38.9 43.9 47.2 50.1 53.8	12.8 14.3 15.5 16.5 19.7 23.8	19.3 24.6 28.4 30.7 30.4 30.0	69.3 78.0 86.8 94.6 105.5 120.2	43.6 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 66.5 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	141.1 139.2 141.1 154.3 177.4 205.9 239.3 262.1 279.0 289.9	259.3 298.6 332.6 388.6 471.9 541.5 601.7 697.4 768.6 798.6	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
1990	3,788.2 3,929.8 4,043.4 4,174.8 4,339.0 4,524.8 4,792.4 5,104.4 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 5,025.9 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	288.3 284.1 270.9 267.7 268.2 273.9 286.1 297.9 332.0 372.8	818.8 806.4 762.6 737.8 722.7 733.8 763.5 825.5 915.4 1,052.0	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 4,369.2 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 2001 2002 2003 2004 2005 2006 2007 2008 2009	6,752.6 7,460.4 8,361.2 9,377.5 10,639.5 12,074.1 13,449.5 14,512.9 14,604.6 14,321.8	84.7 88.5 95.4 83.2 95.7 104.8 108.0 112.7 133.0 132.1	6,667.9 7,371.9 8,265.8 9,294.3 10,543.9 11,969.3 13,341.4 14,400.2 14,471.6 14,189.8	5,106.6 5,658.5 6,413.3 7,240.5 8,271.4 9,388.2 10,453.4 11,167.8 11,067.4 10,864.7	402.1 444.3 483.3 557.3 604.5 665.2 701.6 784.6 837.7 847.0	1,159.2 1,269.0 1,369.2 1,496.5 1,667.9 1,915.9 2,186.3 2,447.9 2,566.4 2,478.1	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 8,585.1 9,882.4 11,362.7 12,741.3 13,791.1 13,664.3 13,184.7	4,386.6 4,940.0 5,709.3 6,587.2 7,666.0 8,837.8 9,910.0 10,615.2 10,316.7 9,920.4
2010	13,813.2 14,148.0 14,032.6 13,910.3 13,813.2	136.2 133.4 133.7 135.0 136.2	13,677.0 14,014.6 13,898.9 13,775.3 13,677.0	10,522.0 10,726.4 10,660.3 10,581.4 10,522.0	837.7 842.4 838.8 839.6 837.7	2,317.3 2,445.9 2,399.8 2,354.4 2,317.3	1,227.7 1,069.5 1,129.9 1,182.4 1,227.7	1,156.2 1,006.1 1,063.0 1,113.4 1,156.2	934.4 806.9 856.7 898.5 934.4	221.8 199.1 206.3 214.9 221.8	12,449.2 12,945.1 12,769.0 12,592.9 12,449.2	9,365.8 9,720.3 9,597.3 9,468.0 9,365.8
2011: P	13,718.7 13,641.3 13,559.1	135.2 134.2 133.1	13,583.5 13,507.1 13,426.0	10,450.4 10,395.5 10,336.1	838.9 839.7 840.9	2,294.2 2,271.9 2,249.0	1,269.2 1,307.7 1,360.0	1,196.6 1,233.3 1,283.5	966.4 994.6 1,035.2	230.2 238.7 248.2	12,314.3 12,199.4 12,066.0	9,253.8 9,162.2 9,052.6

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, 1954-2011

[Billions of dollars]

			Major financi	al institutions		Other holders			
End of year or quarter	Total	Total	Savings institutions ¹	Commercial banks ²	Life insurance companies	Federal and related agencies ³	Individuals and others ⁴		
1954	129.9 144.5 156.5 171.8	85.7 99.3 111.2 119.7 131.5	41.1 48.9 55.5 61.2 68.9	18.6 21.0 22.7 23.3 25.5	26.0 29.4 33.0 35.2 37.1	4.7 5.3 6.2 7.7 8.0	23.2 25.3 27.1 29.1 32.3		
1959 1960 1961 1962 1963 1964 1965 1965 1967 1968	208.3 229.1 252.7 280.0 307.4 334.7 357.9 382.5 412.1	145.5 157.5 172.6 192.5 217.1 241.0 264.6 280.7 298.7 319.7 338.9	78.1 86.9 98.0 111.1 127.2 141.9 154.9 161.8 172.3 184.3	28.1 28.8 30.4 34.5 39.4 44.0 49.7 54.4 58.9 65.5 70.5	39.2 41.8 44.2 46.9 50.5 55.2 60.0 64.6 67.5 70.0 72.0	10.2 11.5 12.2 12.6 11.8 12.2 13.5 17.5 20.9 25.1 31.1	35.9 39.3 44.2 47.6 51.0 54.1 56.6 59.7 62.8 67.3 72.4		
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	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 91.6 96.8 106.2 118.4	38.3 46.3 54.5 64.7 82.2 101.1 116.7 140.5 170.6 216.0	80.2 84.5 93.8 103.9 109.2 111.5 116.9 127.3 146.8 177.3		
1980 1981 1982 1983 1984 1985 1985 1986 1987	1,591.5 1,676.1 1,871.7 2,120.6 2,370.3 2,657.9 2,996.2 3,313.1	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	256.8 289.4 355.4 490.6 580.9 733.7 857.9 937.8 1,067.3	214.0 261.6 299.4 330.2 382.3 425.8 447.7 470.7 541.1 582.9		
1990 1991 1992 1993 1994 1995 1996 1997 1988	3,929.8 4,043.4 4,174.8 4,339.0 4,524.8 4,792.4 5,104.4	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 1,495.4	267.9 259.5 242.0 223.9 215.8 213.1 208.2 206.8 213.6 230.8	1,258.9 1,422.5 1,558.1 1,682.8 1,788.0 1,878.7 2,006.1 2,111.4 2,310.9 2,613.3	610.5 661.2 714.9 721.8 726.4 746.0 804.5 909.0 1,084.1 1,187.5		
2000 2001 2002 2003 2004 2005 2006 2007 2008 2009	7,460.4 8,361.2 9,377.5 10,639.5 12,074.1 13,449.5 14,512.9 14,604.6 14,321.8	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	2,833.2 3,203.8 3,590.9 4,037.4 4,087.2 4,213.9 4,528.6 5,189.9 5,762.6 6,192.8	1,300.5 1,465.8 1,681.0 1,952.8 2,626.0 3,464.0 4,137.3 4,258.5 3,797.6 3,351.0		
2010	14,148.0 14,032.6 13,910.3 13,813.2 13,718.7	4,583.5 4,711.9 4,644.0 4,610.3 4,583.5 4,469.6 4,436.0	614.8 629.3 619.3 617.8 614.8 600.2 590.9	3,651.2 3,761.2 3,706.8 3,674.4 3,651.2 3,550.9 3,521.9	317.5 321.4 317.9 318.2 317.5 318.4 323.1	6,267.0 6,191.7 6,239.3 6,238.3 6,267.0 6,349.3 6,363.8	2,962.6 3,244.4 3,149.4 3,061.6 2,962.6 2,899.8 2,841.6		

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 (through 1995), and in earlier years Reconstruction Finance Corporation, Homeowners Loan Corporation, Federal Farm Mortgage Corporation, and Public Housing Administration. Also includes U.S. sponsored agencies such as Federal National Mortgage Association (FMMA or Fannie Mae), Federal Land Banks, Federal Home Loan Mortgage Corporation (FHLMC or Freddie Mac), Federal Agricultural Mortgage Corporation (Farmer Mac, beginning 1994), 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, 1960-2011

[Amount outstanding (end of month); millions of dollars, seasonally adjusted]

Year and month	Total consumer credit ¹	Revolving	Nonrevolving ²
December:			
1960 1961	60,025.31 62,248.53		60,025.31 62,248.53
1962			68,126.72
1963	76.581.45		76 581 45
1964	85,959.57		85,959.57
1965 1966	00,001.72		95,954.72 101,788.22
1967	106.842.64		106.842.64
1968	106,842.64 117,399.09	2,041.54	106,842.64 115,357.55
1969	127,156.18	3,604.84	123,551.35
1970	131,551.55	4,961.46	126,590.09
1971 1972	146,930.18 166,189.10	8,245.33 9,379.24	138,684.84 156,809.86
1973	190,086.31	11,342.22	178,744.09
1974	198.917.84	13,241.26	185 676 58
1975 1976	204,002.00	14,495.27 16,489.05	189,506.73 209,232.54 223,147.88
1977	225,721.59 260,562.70	37,414.82	203,232.34
1978	306,100.39	45,690.95	260,409.43
1979	348,589.11	53,596.43	294,992.67
1980	351,920.05	54,970.05	296,950.00
1981 1982	371,301.44 389,848.74	60,928.00 66,348.30	310,373.44 323,500.44
1983	437.068.86	79.027.25	358,041.61
1984	437,068.86 517,278.98 599,711.23	79,027.25 100,385.63	416.893.35
1985	599,711.23	124,465.80	475,245.43
1986 1987	686 318 77	141,068.15 160,853,91	513,682.08 525,464.86
1987 1988 ³	654,750.24 686,318.77 731,917.76	160,853.91 184,593.12	525,464.86 547,324.64
1989	794,612.18	211,229.83	583,382.34
1990	808,230.57 798,028.97 806,118.69	238,642.62	569,587.95 534,260.42 527,669.02
1991	798,028.97	263,768.55 278,449.67	534,260.42
1992 1993	865,650.58	309,908.02	527,009.02 555,742.56
1994	997,301.74	365,569.56	631,732.19
1995	1,140,744.36	443,920.09	696,824.27
1996 1997	1,253,437.09 1,324,757.33	507,516.57 540,005.56	745,920.52 784,751.77
1998	1,420,996.44	581,414.78	839,581.66
1999	1,531,105.96	610,696.47	920,409.49
2000	1,716,969.72	682,646.37	1,034,323.35
2001 2002	1,867,852.87 1,972,112.21	714,840.73 750,947.45	1,153,012.14 1,221,164.76
2003	1,972,112.21 2,077,360,69	750,947.45 768 258 31	1,221,104.70
2004	2,077,360.69 2,192,246.17 2,290,928.13	768,258.31 799,552.18 829,518.36	1,309,102.38 1,392,693.99 1,461,409.78
2005	2,290,928.13	829,518.36	1,461,409.78
2006 2007	2,384,905.42 2,522,548.77	871,024.51 941,852.88	1,513,880.91 1,580,695.89
2008	2,561,810.03	957,484.09	1,604,325.94
2009	2,450,146.97	865,497.83	1,584,649.14
2010	2,408,335.19	800,226.54	1,608,108.65
2010: Jan	2,445,629.19	856,247.67	1,589,381.52
Feb Mar	2,435,717.83 2,426,343.06	848,732.38 842,563.18	1,586,985.45 1,583,779.88
Apr	2,415,822.44	832,580.37	1,583,242.07
May	2,411,110.86 2,406,399.97	831,131.00 826,306.08	1,579,979.86
June	2,406,399.97	826,306.08	1,580,093.89
July Aug	2,399,442.23 2,394,941.35	819,347.78 813,209.33	1,580,094.45 1,581,732.01
Sept	2,393,620.01	805,398.86 801,545.69 798,048.77	1 588 221 15
Oct	2.399.504.10	801,545.69	1,597,958.41 1,603,978.20
Nov	2,402,026.97 2,408,335.19	/98,048.7/ 800.226.54	1,603,978.20 1,608,108.65
Dec		,	
2011: Jan Feb	2,408,942.15 2,417,131.18	794,655.72 792,785.39	1,614,286.43 1,624,345.79
Mar	2,421,459.15 2,425,173.67	792,837.73	1,628,621.42
Apr	2,425,173.67	790.302.10	1,634,871.57
May	2,431,166.37 2,442,872.56	793,318.77 795,896.81	1,637,847.60
July	2,454,261.23	793,160.98	1,646,975.75 1,661,100.25
Aug	2 ///2 77// 05	791.556.20	1.652.217.85
Sept	2,451,280.62 2,457,303.07	791,985.20	1,659,295.42
Oct	2,457,303.07 2,477,676.79	792,671.13 798,267.21	1,664,631.94 1,679,409.58
Nov P	2,4/7,0/0./9	/30,20/.21	1,079,409.58

Source: Board of Governors of the Federal Reserve System.

Covers most short- and intermediate-term credit extended to individuals. Credit secured by real estate is excluded.
 Covers most short- and intermediate-term credit extended to intervolving credit, such as loans for mobile homes, education, boats, trailers, or vacations. These loans may be secured or unsecured. Beginning with 1977, includes student loans extended by the Federal Government and by SLM Holding Corporation.
 Data newly available in January 1989 result in breaks in these series between December 1988 and subsequent months.

GOVERNMENT FINANCE

TABLE B-78. Federal receipts, outlays, surplus or deficit, and debt, fiscal years, 1945-2013 [Billions of dollars; fiscal years]

		Total		ĮDIII	On-budget	1013, 113001	ycaraj	Off-budget		Federa (end of		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
1945	45.2 39.3 38.5 41.6 39.4	92.7 55.2 34.5 29.8 38.8	-47.6 -15.9 4.0 11.8	43.8 38.1 37.1 39.9 37.7	92.6 55.0 34.2 29.4 38.4	-48.7 -17.0 2.9 10.5 7	1.3 1.2 1.5 1.6 1.7	0.1 .2 .3 .4	1.2 1.0 1.2 1.2 1.3	260.1 271.0 257.1 252.0 252.6	235.2 241.9 224.3 216.3 214.3	221.4 222.6 233.2 256.6 271.3
1950 1951 1952 1953 1954 1955 1956 1957 1958	39.4 51.6 66.2 69.6 69.7 65.5 74.6 80.0 79.6	42.6 45.5 67.7 76.1 70.9 68.4 70.6 76.6 82.4 92.1	-3.1 6.1 -1.5 -6.5 -1.2 -3.0 3.9 3.4 -2.8 -12.8	37.3 48.5 62.6 65.5 65.1 60.4 68.2 73.2 71.6 71.0	42.0 44.2 66.0 73.8 67.9 64.5 65.7 70.6 74.9 83.1	-4.7 4.3 -3.4 -8.3 -2.8 -4.1 2.5 2.6 -3.3 -12.1	2.1 3.1 3.6 4.1 4.6 5.1 6.4 6.8 8.0 8.3	.5 1.3 1.7 2.3 2.9 4.0 5.0 6.0 7.5 9.0	1.6 1.8 1.9 1.8 1.7 1.1 1.5 .8 .5 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 1968	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 1975 1976 Transition quarter 1977 1979	192.8 187.1 207.3 230.8 263.2 279.1 298.1 81.2 355.6 399.6 463.3	195.6 210.2 230.7 245.7 269.4 332.3 371.8 96.0 409.2 458.7 504.0	-2.8 -23.0 -23.4 -14.9 -6.1 -53.2 -73.7 -14.7 -53.7 -59.2 -40.7	159.3 151.3 167.4 184.7 209.3 216.6 231.7 63.2 278.7 314.2 365.3	168.0 177.3 193.5 200.0 216.5 270.8 301.1 77.3 328.7 369.6 404.9	-8.7 -26.1 -26.1 -15.2 -7.2 -54.1 -69.4 -14.1 -49.9 -55.4 -39.6	33.5 35.8 39.9 46.1 53.9 62.5 66.4 18.0 76.8 85.4 98.0	27.6 32.8 37.2 45.7 52.9 61.6 70.7 18.7 80.5 89.2	5.9 3.0 2.7 .3 1.1 .9 -4.3 7 -3.7 -3.8 -1.1	380.9 408.2 435.9 466.3 483.9 541.9 629.0 643.6 706.4 776.6 829.5	283.2 303.0 322.4 340.9 343.7 394.7 477.4 495.5 549.1 607.1 640.3	1,012.7 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 1981 1982 1983 1984 1985 1986 1986 1988	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	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	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	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 13,937.5
2010 2011 2012 (estimates) 2013 (estimates)	2,162.7 2,303.5 2,468.6 2,902.0	3,456.2 3,603.1 3,795.5 3,803.4	-1,293.5 -1,299.6 -1,326.9 -901.4	1,531.0 1,737.7 1,896.5 2,224.5	2,901.5 3,104.5 3,290.4 3,169.3	-1,370.5 -1,366.8 -1,393.9 -944.7	631.7 565.8 572.1 677.4	554.7 498.6 505.2 634.1	77.0 67.2 67.0 43.3	13,528.8 14,764.2 16,350.9 17,547.9	9,018.9 10,128.2 11,578.1 12,636.7	14,359.7 14,958.6 15,601.5 16,335.0

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.

Sources: Department of Commerce (Bureau of Economic Analysis), Department of the Treasury, and Office of Management and Budget.

Table B–79. Federal receipts, outlays, surplus or deficit, and debt, as percent of gross domestic product, fiscal years 1939-2013

[Percent; fiscal years]

		Out	ays	Surplus	Federal debt (end of period)
Fiscal year or period	Receipts	Total	National defense	or deficit (–)	Gross Federal	Held by public
1939	7.1	10.3		-3.2	54.0	46.5
1940	6.8	9.8	1.7	-3.0	52.4	44.2
1941 1942	7.6 10.1	12.0 24.3	5.6 17.8	-4.3 -14.2	50.4 54.9	42.3 47.0
1943	13.3	43.6	37.0	-30.3	79.1	70.9
1944 1945	20.9 20.4	43.6 41.9	37.8 37.5	-22.7 -21.5	97.6 117.5	88.3 106.2
1946	17.7	24.8	19.2	-7.2	121.7	108.7
1947 1948	16.5 16.2	14.8 11.6	5.5 3.5	1.7 4.6	110.3 98.2	96.2 84.3
1949	14.5	14.3	4.8	.2	93.1	79.0
1950	14.4	15.6	5.0	-1.1	94.1	80.2
1951 1952	16.1 19.0	14.2 19.4	7.4 13.2	1.9 4	79.7 74.3	66.9 61.6
1953	18.7	20.4	14.2	-1.7	71.4	58.6
1954 1955	18.5 16.5	18.8 17.3	13.1 10.8	3 8	71.8 69.3	59.5 57.2
1956	17.5	16.5	10.0	.9	63.9	52.0
1957	17.7	17.0	10.1	.8	60.4	48.6
1958 1959	17.3 16.2	17.9 18.8	10.2 10.0	6 -2.6	60.8 58.6	49.2 47.9
1960	17.8	17.8	9.3	.1	56.0	45.6
1961	17.8 17.6	18.4 18.8	9.4 9.2	6	55.2 53.4	45.0 43.7
1962 1963	17.8	18.6	9.2 8.9	-1.3 8	51.8	43.7 42.4
1964	17.6	18.5	8.5	9	49.3	40.0
1965 1966	17.0 17.3	17.2 17.8	7.4 7.7	2 5	46.9 43.5	37.9 34.9
1967	18.4	19.4	8.8	-1.1	42.0	32.9
1968 1969	17.6 19.7	20.5 19.4	9.4 8.7	-2.9 .3	42.5 38.6	33.3 29.3
1970	19.0	19.3	8.1	3	37.6	28.0
1971	17.3	19.5	7.3	-2.1	37.8	28.1
1972 1973	17.6 17.6	19.6 18.7	6.7 5.9	-2.0 -1.1	37.1 35.6	27.4 26.0
1974	18.3	18.7	5.5	4	33.6	23.9
1975 1976	17.9 17.1	21.3 21.4	5.5 5.2	-3.4 -4.2	34.7 36.2	25.3 27.5
Transition quarter	17.7	20.9	4.8	-3.2	35.0	27.0
1977 1978	18.0 18.0	20.7 20.7	4.9 4.7	-2.7 -2.7	35.8 35.0	27.8 27.4
1979	18.5	20.7	4.7	-2.7 -1.6	33.2	25.6
1980	19.0	21.7	4.9	-2.7	33.4	26.1
1981	19.6 19.2	22.2	5.2 5.7	-2.6 -4.0	32.5 35.3	25.8
1982 1983	17.5	23.1 23.5	6.1	-4.0 -6.0	39.9	28.7 33.1
1984	17.3	22.2	5.9	-4.8	40.7	34.0
1985 1986	17.7 17.5	22.8 22.5	6.1 6.2	-5.1 -5.0	43.8 48.2	36.4 39.5
1987	18.4	21.6	6.1	-3.2	50.4	40.6
1988 1989	18.2 18.4	21.3 21.2	5.8 5.6	-3.1 -2.8	51.9 53.1	41.0 40.6
1990	18.0	21.9	5.2	-3.9	55.9	42.1 45.3
1991	17.8	22.3	4.6	-4.5	60.7	45.3
1992 1993	17.5 17.5	22.1 21.4	4.8 4.4	-4.7 -3.9	64.1 66.1	48.1 49.3
1994	18.0	21.0	4.0	-2.9	66.6	49.2
1995 1996	18.4 18.8	20.6 20.2	3.7 3.4	-2.2 -1.4	67.0 67.1	49.1 48.4
1997	19.2	19.5	3.3	3	65.4	45.9
1998 1999	19.9 19.8	19.1 18.5	3.1 3.0	.8 1.4	63.2 60.9	43.0 39.4
2000	20.6	18.2	3.0	2.4	57.3	34.7
2001	19.5	18.2	3.0	1.3	56.4	32.5
2002	17.6 16.2	19.1 19.7	3.3 3.7	-1.5 -3.4	58.8 61.6	33.6 35.6 36.8
2004	16.1	19.6	3.9	-3.5	63.0	36.8
2005	17.3	19.9	4.0	-2.6	63.6	36.9
2006 2007	18.2 18.5	20.1 19.7	4.0 4.0	-1.9 -1.2	64.0 64.6	36.6 36.3
2008	17.6	20.8	4.3	-3.2	69.7	40.5
2009	15.1	25.2	4.7	-10.1	85.2	54.1
2010 2011	15.1 15.4	24.1 24.1	4.8 4.7	-9.0 -8.7	94.2 98.7	62.8 67.7
2012 (estimates)	15.8	24.3	4.6	-8.5	104.8	74.2
2013 (estimates)	17.8	23.3	4.3	-5.5	107.4	77.4

Note: See 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 $1945\hbox{--}2013$

[Billions of dollars; fiscal years]

	Rece	eipts (on-l	oudget ar	nd off-buo				Oı	utlays (or	n-budget	and off-	-budget)				Surplus
Fiscal year or period	Total	Indi- vidual income taxes	Corpo- ration income taxes	Social insur- ance and retire- ment receipts	Other	Total		Depart- ment of Defense, military	Inter- na- tional affairs	Health	Medi- care	In- come secu- rity	Social secu- rity	Net inter- est	Other	or deficit (-) (on- budget and off- budget)
1945 1946 1947 1948	45.2 39.3 38.5 41.6 39.4	18.4 16.1 17.9 19.3 15.6	16.0 11.9 8.6 9.7 11.2	3.5 3.1 3.4 3.8 3.8	7.3 8.2 8.5 8.8 8.9	92.7 55.2 34.5 29.8 38.8	83.0 42.7 12.8 9.1 13.2		1.9 1.9 5.8 4.6 6.1	0.2 .2 .2 .2 .2		1.1 2.4 2.8 2.5 3.2	0.3 .4 .5 .6	3.1 4.1 4.2 4.3 4.5	3.1 3.6 8.2 8.5 11.1	-47.6 -15.9 4.0 11.8
1950 1951 1952 1953 1954 1955 1956 1957 1958	39.4 51.6 66.2 69.6 69.7 65.5 74.6 80.0 79.6 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 11.7	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 1967	92.5 94.4 99.7 106.6 112.6 116.8 130.8 148.8 153.0 186.9	40.7 41.3 45.6 47.6 48.7 48.8 55.4 61.5 68.7 87.2	21.5 21.0 20.5 21.6 23.5 25.5 30.1 34.0 28.7 36.7	14.7 16.4 17.0 19.8 22.0 22.2 25.5 32.6 33.9 39.0	15.6 15.7 16.5 17.6 18.5 20.3 19.8 20.7 21.7 23.9	92.2 97.7 106.8 111.3 118.5 118.2 134.5 157.5 178.1 183.6	48.1 49.6 52.3 53.4 54.8 50.6 58.1 71.4 81.9 82.5	50.1 51.1 52.6 48.8 56.6 70.1 80.4 80.8	3.0 3.2 5.6 5.3 4.9 5.6 5.6 5.6 5.3 4.6	.8 .9 1.2 1.5 1.8 2.5 3.4 4.4 5.2	0.1 2.7 4.6 5.7	7.4 9.7 9.2 9.3 9.7 9.5 9.7 10.3 11.8 13.1	11.6 12.5 14.4 15.8 16.6 17.5 20.7 21.7 23.9 27.3	6.9 6.7 6.9 7.7 8.2 8.6 9.4 10.3 11.1 12.7	14.4 15.2 17.2 18.3 22.6 25.0 28.5 32.1 35.1 32.6	.3 -3.3 -7.1 -4.8 -5.9 -1.4 -3.7 -8.6 -25.2 3.2
1970 1971 1972 1973 1974 1975 1976 <i>Transition quarter</i> 1977 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 1983 1985 1986 1987 1987	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 2002 2002 2003 2004 2005 2006 2007 2008	1,991.1 1,853.1 1,782.3 1,880.1 2,153.6 2,406.9 2,568.0 2,524.0	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	143.9		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) 2013 (estimates)	2,162.7 2,303.5 2,468.6 2,902.0	898.5 1,091.5 1,164.7 1,359.3	191.4 181.1 236.8 347.7	864.8 818.8 840.7 959.1	207.9 212.1 226.5	3,456.2 3,603.1 3,795.5 3,803.4	693.6 705.6 716.3 701.8	666.7 678.1 688.3 672.9	45.2 45.7 56.3 59.6	369.1 372.5 361.6	451.6 485.7 484.5 530.2	622.2 597.4 579.6 559.4	706.7 730.8 778.6 825.9	196.2 230.0 224.8 247.7	371.6 435.5 593.9 492.9	-1,293.5 -1,299.6 -1,326.9 -901.4

Note: See Note, Table B-78.

Sources: Department of the Treasury and Office of Management and Budget.

Description		Act	ual		Estir	nates
Description	2008	2009	2010	2011	2012	2013
RECEIPTS, OUTLAYS, AND SURPLUS OR DEFICIT						
Total:	0.500.004	0.404.000	0.400.704	0.000.400	0.400.500	0.004.050
Receipts Outlays	2,523,991 2.982.544	2,104,989 3,517,677	2,162,724 3,456,213	2,303,466 3,603,061	2,468,599 3,795,547	2,901,956 3,803,364
Surplus or deficit (–)	-458,553	-1,412,688	-1,293,489	-1,299,595	-1,326,948	-901,408
On-budget:	1 005 045	1.450.980	1 521 027	1.737.678	1 000 450	2.224.545
Receipts	1,865,945 2,507,793	3,000,661	1,531,037 2,901,531	3,104,455	1,896,459 3,290,381	3,169,287
Surplus or deficit (–)	-641,848	-1,549,681	-1,370,494	-1,366,777	-1,393,922	-944,742
Off-budget: Receipts	658,046	654.009	631,687	565,788	572,140	677,411
Outlays	474,751	517,016	554,682	498,606	505,166	634,077
Surplús or deficit (–)	183,295	136,993	77,005	67,182	66,974	43,334
OUTSTANDING DEBT, END OF PERIOD	0.000.000	44 075 054	40 500 007	44704000	40.050.005	47.547.000
Gross Federal debtHeld by Federal Government accounts	9,986,082 4.183.032	11,875,851 4.331,144	13,528,807 4.509.926	14,764,222 4.636.016	16,350,885 4,772,802	17,547,936 4.911.247
Held by the public	5,803,050	7,544,707	9,018,882	10,128,206	11,578,083	12,636,689
Federal Reserve System Other	491,127 5,311,923	769,160 6,775,547	811,669 8,207,213	1,664,660 8,463,546		
Otilei	3,311,323	0,773,347	0,207,213	0,403,340		
RECEIPTS BY SOURCE						
Total: On-budget and off-budget	2,523,991	2,104,989	2,162,724	2,303,466	2,468,599	2,901,956
Individual income taxes	1,145,747 304.346	915,308 138,229	898,549 191,437	1,091,473 181,085	1,164,650 236.801	1,359,260 347,741
Corporation income taxes Social insurance and retirement receipts	900.155	890.917	864.814	818.792	840.650	959,057
On-budget	242,109	236,908	233,127	253,004	268,510	281,646
Off-budget Excise taxes	658,046	654,009	631,687	565,788	572,140 79.415	677,411
Estate and gift taxes	67,334 28,844	62,483 23,482	66,909 18,885	72,381 7,399	11,377	88,055 12,738
Customs duties and fees	27,568	22,453	25,298	29,519	30,817	33,488
Miscellaneous receipts Deposits of earnings by Federal Reserve System	49,997 33,598	52,117 34,318	96,832 75,845	102,817 82,546	104,889 81,339	101,617 80.409
All other	16,399	17,799	20,987	20,271	23,550	21,208
OUTLAYS BY FUNCTION						
Total: On-budget and off-budget	2,982,544	3,517,677	3,456,213	3,603,061	3,795,547	3,803,364
National defense	616,073	661,049	693,586	705,625	716,300	701,767
International affairs	28,857 26,772	37,529 28,417	45,195 30,098	45,685 29,466	56,252 30,991	59,556 31,265
Energy	628	4,749	11,613	12,174	23,270	13,914
Natural resources and environment Agriculture	31,817 18.387	35,568 22,237	43,662 21,356	45,470 20.661	42,829 19.173	41,312 25.624
Commerce and housing credit	27,870	291,535	-82,298	-12,575	79,624	-25,001
On-budget Off-budget	25,453 2,417	291,231 304	-86,998 4,700	-13,383 808	84,744 -5,120	-20,381 -4,620
Transportation	77.616	84.289	91.972	92.965	102.552	114.228
Community and regional development	23,952	27,650	23,804	23,816	31,685	34,983
Education, training, employment, and social services Health	91,287 280,599	79,749 334,335	127,710 369,054	101,233 372,500	139,212 361,625	122,135 385,868
Medicare	390,758	430,093	451,636	485,653	484,486	530,246
Income security	431,313 617.027	533,224 682,963	622,210 706,737	597,352 730.811	579,578 778.574	559,413 825.872
Social security On-budget	17,830	34,071	23,317	101,933	140,065	61,840
Off-budget	599,197	648,892	683,420	628,878	638,509	764,032
Veterans benefits and services	84,653	95,429	108,384	127,189	129,605 62.016	140,117 62,792
Administration of justice	48,097 20,323	52,581 22,017	54,385 23,031	56,055 25,507	31,763	26,266
Net interest	252,757	186,902	196,194	229,968	224,784	247,715
On-budget Off-budget	366,475 -113.718	304,856 -117,954	314,696 -118.502	345,949 -115.981	337,380 -112,596	356,552 -108.837
Allowances		,301			125	1,575
Undistributed offsetting receipts	-86,242	-92,639	-82,116	-86,494 71,205	-98,897	-96,283
On-budget Off-budget	-73,097 -13,145	-78,413 -14,226	-67,180 -14,936	-71,395 -15.099	-83,270 -15.627	-79,785 -16,498
On budyot	10,140	17,440	17,000	10,000	10,027	10,+30

Note: See Note, Table B-78.

Sources: Department of the Treasury and Office of Management and Budget.

 $\begin{array}{c} \text{Table B-82. Federal and State and local government current receipts and expenditures,} \\ \text{national income and product accounts (NIPA), } 1963-2011 \end{array}$

	To	otal governmen		· ,	deral Governm		State a	ind 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
1963 1964 1965 1966 1967 1968	162.2 166.6 180.3 202.8 217.7 252.1 283.5	151.2 159.3 170.6 192.8 220.0 247.0 267.0	11.0 7.3 9.8 10.0 –2.3 5.1 16.5	111.8 111.8 121.0 138.0 146.9 171.3 192.7	106.5 110.9 117.7 135.7 156.2 173.7 184.1	5.3 .9 3.2 2.3 -9.3 -2.4 8.6	56.0 61.3 66.5 74.9 82.5 93.5 105.5	50.3 54.9 60.0 67.2 75.5 86.0 97.5	5.7 6.4 6.5 7.8 7.0 7.5 8.0	5.6 6.5 7.2 10.1 11.7 12.7 14.6
1970 1971 1972 1973 1974 1975 1976 1977 1978	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 -33.0 -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 -194.6 -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 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	1,879.5 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 1,895.0	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 3,2657 3,659.3 3,995.2 4,197.0 4,051.6 3,703.7	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 4,999.7	226.5 24.6 -306.9 -415.2 -387.8 -257.1 -152.7 -233.0 -685.7 -1,296.0	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 2,232.5	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 3,450.4	185.2 40.5 -252.8 -376.4 -379.5 -283.0 -203.8 -245.2 -613.5 -1,217.9	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 1,953.6	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 2,031.7	41.3 -15.9 -54.1 -38.8 -8.4 25.9 51.0 12.2 -72.2 -78.0	247.3 276.1 304.2 338.0 349.2 361.2 359.0 380.8 395.5 482.4
2010 2011 <i>P</i> 2008:	3,962.8 4,196.2	5,261.8 5,409.8 4,627.5	-1,299.0 -431.3	2,429.6 2,640.1	3,703.3 3,753.6 3,028.9	-1,273.7 -388.8	2,064.7 1,942.9	2,090.0 2,148.7 1,985.4	-25.3 -42.5	531.5 492.5 386.8 396.3
II	4,006.7 4,052.9 3,950.4 3,680.8 3,663.4 3,704.4 3,766.2	4,800.9 4,793.7 4,727.0 4,792.8 5,041.7 5,083.8 5,080.4	-794.2 -740.9 -776.6 -1,112.1 -1,378.3 -1,379.4 -1,314.2	2,409.8 2,501.4 2,457.7 2,225.9 2,214.0 2,221.6 2,268.5	3,174.2 3,140.4 3,119.4 3,219.8 3,516.9 3,527.0 3,537.9	-764.4 -639.1 -661.7 -993.9 -1,303.0 -1,305.4 -1,269.4	1,993.2 1,945.6 1,897.5 1,893.3 1,952.8 1,969.2 1,999.2	2,023.0 2,047.4 2,012.4 2,011.4 2,028.2 2,043.2 2,044.0	-29.8 -101.8 -114.9 -118.1 -75.3 -74.0 -44.8	396.3 394.1 404.8 438.4 503.4 486.4 501.4
2010: I	3,883.9 3,927.0 4,015.4 4,025.0	5,188.0 5,233.2 5,278.4 5,347.8	-1,304.0 -1,306.2 -1,262.9 -1,322.8	2,266.5 2,364.8 2,407.8 2,475.4 2,470.5	3,636.6 3,685.8 3,733.1 3,757.8	-1,269.4 -1,271.8 -1,278.0 -1,257.7 -1,287.3	2,034.0 2,043.3 2,082.1 2,099.3	2,044.0 2,066.2 2,071.6 2,087.4 2,134.8	-44.6 -32.3 -28.2 -5.2 -35.5	514.8 524.2 542.1 544.9
2011: I	4,106.0 4,154.4 4.163.3	5,364.3 5,470.0 5,418.9 5,386.2	-1,258.3 -1,315.6 -1,255.6	2,527.9 2,554.1 2,571.8	3,729.0 3,829.5 3,744.2 3,711.8	-1,201.1 -1,275.4 -1,172.4	2,092.5 2,128.0 2,062.1	2,149.7 2,168.2 2,145.3 2,131.5	-57.2 -40.2 -83.2	514.5 527.7 470.6 457.1

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, 1963-2011

				Cui	rrent recei	pts					Curre	nt expend	litures		
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
1963 1964 1965 1966 1967 1968	162.2 166.6 180.3 202.8 217.7 252.1 283.5	134.4 137.5 149.5 163.5 173.8 203.1 228.4	54.6 52.1 57.7 66.4 73.0 87.0 104.5	53.4 57.3 60.7 63.2 67.9 76.4 83.9	26.2 28.0 30.9 33.7 32.7 39.4 39.7	21.7 22.5 23.5 31.4 35.0 38.8 44.3	3.4 3.7 4.1 4.7 5.5 6.4 7.0	1.3 1.6 1.9 2.2 2.5 2.6 2.7	1.4 1.3 1.3 1.0 .9 1.2	151.2 159.3 170.6 192.8 220.0 247.0 267.0	102.7 108.6 115.9 131.8 149.5 165.7 178.2	34.3 35.1 38.0 42.0 50.3 58.4 64.1	12.0 12.9 13.7 15.1 16.4 18.8 20.2	2.2 2.7 3.0 3.9 3.8 4.2 4.5	11.0 7.3 9.8 10.0 -2.3 5.1 16.5
1970 1971 1972 1973 1974 1975 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	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	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	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 99.9 103.6 102.7 106.4	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	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 3,703.7	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 2,423.0	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	708.6 727.7 762.8 806.8 863.4 930.2 986.8 1,027.2 1,038.6 1,017.9	254.7 193.5 181.3 231.8 292.0 395.9 454.2 420.6 281.0 249.1	709.4 736.9 755.2 782.8 831.7 877.4 926.4 964.2 992.1	118.8 114.6 99.9 96.8 100.3 111.9 129.6 144.2 137.5 141.4	92.3 98.9 104.3 108.9 119.3 126.7 136.0 149.2 163.9 185.2	9.1 4.0 6.3 7.0 1.2 -3.5 -4.2 -11.8 -16.0 -14.9	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 4,999.7	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 2,412.2	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 2,169.3	362.0 341.5 312.6 298.0 306.6 342.7 372.2 414.3 400.2 358.6	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 -1,296.0
2010 2011 ^p 2008: I II	3,962.8 4,196.2 4,006.7 4,052.9	2,648.7 2,914.6 2,730.7 2,781.0	1,193.9 1,404.8 1,536.0 1,351.8 1,432.1	1,054.0 1,098.3 1,035.0 1,047.3 1,046.7	387.4 327.1 315.4 284.9	991.7 924.6 994.7 991.3 993.5	144.0 145.2 143.8 141.7 135.2	194.1 197.2 158.4 158.8 159.3	-15.7 -14.6 -15.2 -15.9 -16.1	5,261.8 5,409.8 4,627.5 4,800.9 4,793.7	2,497.5 2,547.5 2,337.0 2,373.8 2,421.8	2,316.8 2,370.8 1,826.2 1,959.7 1,893.2	390.2 428.5 412.3 415.6 426.2	57.3 63.1 51.9 51.9 52.5	-1,299.0 -431.3 -794.2 -740.9
IV 2009: I II IV	3,950.4 3,680.8 3,663.4 3,704.4 3,766.2	2,670.1 2,407.1 2,369.6 2,433.1 2,482.3	1,422.8 1,198.0 1,120.3 1,120.6 1,126.4	1,025.5 1,008.0 1,011.8 1,020.4 1,031.3	196.8 185.4 221.8 279.0 310.2	989.0 970.9 971.8 967.0 966.4	129.1 135.9 143.0 140.4 146.1	178.9 183.5 194.4 177.9 185.0	-16.8 -16.8 -15.3 -14.0 -13.6	4,727.0 4,792.8 5,041.7 5,083.8 5,080.4	2,391.3 2,372.3 2,405.7 2,425.4 2,445.1	1,933.5 2,052.0 2,203.7 2,211.1 2,210.3	346.9 312.1 375.5 378.8 368.0	55.4 56.4 56.8 68.4 57.1	-776.6 -1,112.1 -1,378.3 -1,379.4 -1,314.2
2010: I II IV	3,883.9 3,927.0 4,015.4 4,025.0	2,587.0 2,615.4 2,691.7 2,700.6	1,146.4 1,175.4 1,212.8 1,240.9	1,040.9 1,050.6 1,059.0 1,065.5	386.4 376.3 406.8 380.2	980.8 990.6 996.3 999.0	141.2 143.8 145.8 145.4	189.6 192.7 197.6 196.6	-14.7 -15.5 -16.0 -16.5	5,188.0 5,233.2 5,278.4 5,347.8	2,477.0 2,497.7 2,505.6 2,509.7	2,282.1 2,283.3 2,325.3 2,376.4	372.5 395.4 390.5 402.6	56.4 56.8 57.0 59.1	-1,304.0 -1,306.2 -1,262.9 -1,322.8
2011: I II IV P	4,106.0 4,154.4 4,163.3	2,864.7 2,907.0 2,909.9	1,365.9 1,396.2 1,408.5 1,448.5		397.2 394.4 384.3	915.9 921.9 925.7 934.7	145.2 144.0 145.1 146.3	195.7 196.1 197.1 199.9	-15.6 -14.6 -14.5 -13.9	5,364.3 5,470.0 5,418.9 5,386.2	2,530.7 2,560.4 2,561.0 2,537.7	2,361.8 2,389.6 2,370.0 2,361.7	411.7 457.4 423.7 421.2	60.0 62.7 64.2 65.6	-1,258.3 -1,315.6 -1,255.6

 $^{^{\}rm 1}$ 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), 1963-2011

				Cui	rrent recei	pts					Curre	nt expend	itures		
Year or quarter	Total	Total ¹	Per- sonal current taxes	Taxes on produc- tion and imports	Taxes on corpo- rate income	Contri- butions for govern- ment social insur- ance	Income re- ceipts on assets	Current trans- fer re- ceipts	Current surplus of govern- ment enter- prises	Total ²	Con- sump- tion expen- ditures	Current trans- fer pay- ments ³	Interest pay- ments	Sub- si- dies	Net Federal Govern- ment saving
1963 1964 1965 1966 1967 1968	111.8 111.8 121.0 138.0 146.9 171.3 192.7	88.6 87.7 95.6 104.7 109.8 129.7 146.0	49.1 46.0 51.1 58.6 64.4 76.4 91.7	14.7 15.4 15.4 14.4 15.2 16.9 17.8	24.6 26.1 28.9 31.4 30.0 36.1 36.1	21.1 21.8 22.7 30.6 34.1 37.9 43.3	1.8 1.8 1.9 2.1 2.5 2.9 2.7	0.6 .7 1.1 1.2 1.1 1.1	-0.3 3 6 6 3 4	106.5 110.9 117.7 135.7 156.2 173.7 184.1	60.8 62.8 65.7 75.7 87.0 95.3 98.3	34.2 35.4 38.5 44.4 52.8 59.7 65.5	9.3 10.0 10.6 11.6 12.7 14.6 15.8	2.2 2.7 3.0 3.9 3.8 4.1 4.5	5.3 .9 3.2 2.3 -9.3 -2.4 8.6
1970 1971 1972 1973 1974 1975 1976 1977 1978 1979	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 3.6 3.8 4.2 4.9 5.9 6.7 8.5 10.7	1.1 1.3 1.3 1.4 1.5 1.6 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	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 1991 1992 1993 1994 1995 1996 1997 1998	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 .8	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 2,232.5	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 1,170.2	995.6 991.8 828.6 774.2 799.2 931.9 1,049.9 1,165.6 1,101.3 856.6	87.3 85.3 86.8 89.3 94.3 98.8 99.4 94.5 94.0 97.3	219.4 164.7 150.5 197.8 250.3 341.0 395.0 362.8 233.7 201.7	698.6 723.3 739.3 762.8 807.6 852.6 904.6 945.3 973.1 948.9	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 69.8	-1.2 -4.0 .2 3.7 .3 -3.5 -2.9 -2.7 -3.7 -4.4	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 3,450.4	496.0 530.2 590.5 660.3 721.4 765.8 811.0 848.9 931.7 986.6	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 2,153.6	283.3 258.6 229.1 212.9 221.0 255.4 279.2 313.2 292.1 251.9	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 -1,217.9
2010 2011 ^p 2008: I	2,429.6 2,640.1 2,409.8	1,340.7 1,586.2 1,358.4	896.4 1,075.9 1,200.2 982.6	101.5 110.9 92.6 95.7	329.6 276.9 263.8	970.9 902.9 975.9 972.5	53.1 55.5 31.5 32.6	69.7 67.6 49.6 49.8	-4.8 -1.4 -3.0 -3.6	3,703.3 3,753.6 3,028.9 3,174.2 3,140.4	1,054.0 1,072.5 908.6 918.7	2,313.7 2,306.1 1,766.7 1,899.8	279.9 312.4 305.7 306.8	55.8 62.6 47.9 48.9	-1,273.7 -388.8 -764.4
III IV 2009: I II IV	2,501.4 2,457.7 2,225.9 2,214.0 2,221.6 2,268.5	1,450.2 1,396.1 1,169.7 1,137.1 1,168.7 1,205.4	1,106.3 1,116.0 915.7 844.6 830.8 835.2	94.5 93.2 90.5 100.0 99.0 99.6	232.1 161.7 147.7 176.7 225.9 256.3	974.4 969.7 951.2 951.7 946.6 945.9	30.6 27.9 39.0 49.6 48.7 54.9	49.7 68.4 71.1 80.2 61.6 66.1	-3.7 -4.4 -5.1 -4.7 -4.0 -3.9	3,140.4 3,119.4 3,219.8 3,516.9 3,527.0 3,537.9	946.2 953.5 955.2 981.2 997.8 1,012.4	1,826.2 1,874.9 2,006.2 2,210.4 2,189.9 2,207.9	317.6 238.4 204.1 269.8 272.1 261.8	50.4 52.6 54.4 55.6 67.2 55.9	-639.1 -661.7 -993.9 -1,303.0 -1,305.4 -1,269.4
2010: I II IV	2,364.8 2,407.8 2,475.4 2,470.5	1,290.3 1,322.0 1,377.8 1,372.8	856.5 888.7 912.3 927.8	98.3 102.0 103.6 101.9	322.3 318.1 348.9 329.1	960.3 969.9 975.5 977.9	49.8 52.3 55.3 55.0	69.1 68.6 71.6 69.7	-4.7 -4.9 -4.8 -4.9	3,636.6 3,685.8 3,733.1 3,757.8	1,033.9 1,056.0 1,066.6 1,059.6	2,283.0 2,289.0 2,331.9 2,350.7	264.9 286.2 279.1 289.4	54.8 54.7 55.4 58.2	-1,271.8 -1,278.0 -1,257.7 -1,287.3
2011: I II IV P	2,527.9 2,554.1 2,571.8	1,513.3 1,532.7 1,546.5	1,046.8 1,065.4 1,082.7 1,108.6	106.7 112.0 112.3 112.5	345.4 340.0 334.5	894.6 900.3 904.0 912.9	54.6 54.9 55.5 56.9	68.1 67.4 66.9 67.9	-2.7 -1.2 -1.1 8	3,729.0 3,829.5 3,744.2 3,711.8	1,059.1 1,077.5 1,084.9 1,068.5	2,312.7 2,346.9 2,289.0 2,275.9	298.0 342.8 306.6 302.3	59.2 62.2 63.8 65.1	-1,201.1 -1,275.4 -1,172.4

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), 1963-2011

				Cu	rrent recei	pts			<u> </u>		Curre	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
1963 1964 1965 1966 1967 1968	56.0 61.3 66.5 74.9 82.5 93.5 105.5	45.8 49.8 53.9 58.8 64.0 73.4 82.5	5.4 6.1 6.6 7.8 8.6 10.6 12.8	38.7 41.8 45.3 48.8 52.8 59.5 66.0	1.7 1.8 2.0 2.2 2.6 3.3 3.6	0.6 .7 .8 .8 .9	1.6 1.9 2.2 2.6 3.0 3.5 4.3	6.4 7.3 8.0 11.1 13.1 14.2 16.2	1.6 1.6 1.7 1.6 1.5 1.5	50.3 54.9 60.0 67.2 75.5 86.0 97.5	41.9 45.8 50.2 56.1 62.6 70.4 79.8	5.7 6.2 6.7 7.6 9.2 11.4 13.2	2.7 2.9 3.1 3.4 3.7 4.2 4.4	0.0 .0 .0 .0 .0	5.7 6.4 6.5 7.8 7.0 7.5 8.0
1970 1971 1972 1973 1974 1975 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	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	7.1 6.5 15.6 15.7 9.3 2.5 7.4 13.1 18.7
1980	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 .3 .3 .3 .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 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 1,953.6	893.2 914.3 928.7 977.7 1,059.4 1,163.1 1,249.0 1,313.6 1,326.4 1,252.8	236.7 243.0 221.8 226.2 248.6 276.7 302.5 323.1 334.4 284.8	621.3 642.4 676.0 717.5 769.1 831.4 887.4 932.7 944.6 920.6	35.2 28.9 30.9 34.0 41.7 54.9 59.2 57.8 47.4 47.4	10.8 13.7 15.9 20.1 24.1 24.8 21.8 18.9 19.0 20.2	94.3 90.0 79.6 74.0 77.1 88.3 103.5 114.5 106.8 93.3	313.9 348.0 382.3 421.3 439.4 454.3 456.7 485.1 505.0 597.8	10.4 8.0 6.1 3.3 1.0 .1 -1.3 -9.1 -12.3 -10.5	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 2,031.7	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 1,425.5	271.4 305.1 333.0 353.4 384.3 404.8 402.9 433.7 456.7 498.1	78.8 83.0 83.5 85.1 85.6 87.3 93.0 101.1 108.1 106.7	.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 -78.0
2010 2011 ^p 2008:	2,064.7 1,942.9	1,307.9 1,328.4	297.5 328.9 335.9	952.6 987.4 942.4	57.9 50.1	20.8 21.6 18.7	90.9 89.7 112.4	655.9 622.1 495.6	-10.8 -13.2 -12.2 -12.3	2,090.0 2,148.7 1,985.4	1,443.5 1,475.0 1,428.4	534.6 557.1 446.3	110.4 116.1 106.6	1.6 .5 4.0	-25.3 -42.5
 V	1,993.2 1,945.6 1,897.5	1,372.3 1,330.7 1,274.0	369.2 325.7 306.8	951.6 952.2 932.2	51.5 52.8 35.0	18.8 19.0 19.4	109.1 104.6 101.2	505.3 503.7 515.3	-12.4 -12.4	2,023.0 2,047.4 2,012.4	1,455.1 1,475.6 1,437.8	456.1 461.0 463.4	108.8 108.6 108.4	2.9 2.2 2.8	-29.8 -101.8 -114.9
2009: I II IV	1,893.3 1,952.8 1,969.2 1,999.2	1,237.4 1,232.5 1,264.4 1,276.8	282.3 275.7 289.9 291.3	917.5 911.8 921.4 931.7	37.6 45.0 53.1 53.9	19.7 20.1 20.3 20.5	96.9 93.4 91.7 91.2	550.9 617.5 602.7 620.3	-11.7 -10.6 -9.9 -9.7	2,011.4 2,028.2 2,043.2 2,044.0	1,417.1 1,424.6 1,427.6 1,432.7	484.2 496.6 507.7 503.8	108.1 105.8 106.7 106.2	2.0 1.2 1.2 1.2	-118.1 -75.3 -74.0 -44.8
2010: I II IV	2,034.0 2,043.3 2,082.1 2,099.3	1,296.7 1,293.4 1,313.8 1,327.8	289.9 286.6 300.5 313.1	942.6 948.6 955.4 963.6	64.2 58.2 57.9 51.1	20.6 20.7 20.9 21.1	91.4 91.5 90.5 90.3	635.4 648.3 668.1 671.8	-10.0 -10.6 -11.1 -11.6	2,066.2 2,071.6 2,087.4 2,134.8	1,443.1 1,441.8 1,438.9 1,450.1	513.9 518.5 535.5 570.6	107.6 109.2 111.4 113.2	1.6 2.1 1.6 1.0	-32.3 -28.2 -5.2 -35.5
2011: 	2,092.5 2,128.0 2,062.1	1,351.4 1,374.2 1,363.4	319.0 330.8 325.8 339.9	980.7 989.1 987.8 992.1	51.7 54.4 49.8	21.3 21.6 21.7 21.8	90.6 89.1 89.6 89.5	642.1 656.4 600.8 589.1	-12.9 -13.3 -13.4 -13.2	2,149.7 2,168.2 2,145.3 2,131.5	1,471.7 1,482.9 1,476.1 1,469.2	563.6 570.4 551.6 542.9	113.7 114.5 117.1 118.9	.9 .4 .4 .5	-57.2 -40.2 -83.2

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, 1946-2009

[Millions of dollars]

			General	revenues by	source 2		<u> </u>		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}
1946	12,356	4,986	2,986	422	447	855	2,660	11,028	3,356	1,672	1,409	4,591
1948	17,250	6,126	4,442	543	592	1,861	3,686	17,684	5,379	3,036	2,099	7,170
1950	20,911	7,349	5,154	788	593	2,486	4,541	22,787	7,177	3,803	2,940	8,867
1952	25,181	8,652	6,357	998	846	2,566	5,762	26,098	8,318	4,650	2,386	10,744
1953	27,307	9,375	6,927	1,065	817	2,870	6,253	27,910	9,390	4,987	2,914	10,619
1954	29,012	9,967	7,276	1,127	778	2,966	6,898	30,701	10,557	5,527	3,060	11,557
1955	31,073	10,735	7,643	1,237	744	3,131	7,583	33,724	11,907	6,452	3,168	12,197
1956	34,670	11,749	8,691	1,538	890	3,335	8,467	36,715	13,224	6,953	3,139	13,399
1957	38,164	12,864	9,467	1,754	984	3,843	9,252	40,375	14,134	7,816	3,485	14,940
1958	41,219	14,047	9,829	1,759	1,018	4,865	9,701	44,851	15,919	8,567	3,818	16,547
1959	45,306	14,983	10,437	1,994	1,001	6,377	10,514	48,887	17,283	9,592	4,136	17,876
1960	50,505	16,405	11,849	2,463	1,180	6,974	11,634	51,876	18,719	9,428	4,404	19,325
1961	54,037	18,002	12,463	2,613	1,266	7,131	12,562	56,201	20,574	9,844	4,720	21,063
1962	58,252	19,054	13,494	3,037	1,308	7,871	13,488	60,206	22,216	10,357	5,084	22,549
1963	62,891	20,089	14,456	3,269	1,505	8,722	14,850	64,815	23,776	11,135	5,481	24,423
1963–64 1964–65 1965–66 1966–67 1967–68 1968–69	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 1978–79	144,927 167,535 190,222 207,670 228,171 256,176 285,157 315,960 343,236 382,322	37,852 42,877 45,283 47,705 51,491 57,001 62,527 66,422 64,944 68,499	33,233 37,518 42,047 46,098 49,815 54,547 60,641 67,596 74,247 79,927	11,900 15,227 17,994 19,491 21,454 24,575 29,246 33,176 36,932 42,080	3,424 4,416 5,425 6,015 6,642 7,273 9,174 10,738 12,128 13,321	26,146 31,342 39,264 41,820 47,034 55,589 62,444 69,592 75,164 83,029	32,372 36,156 40,210 46,542 51,735 57,191 61,125 68,435 79,822 95,467	150,674 168,549 181,357 199,222 230,722 256,731 274,215 296,984 327,517 369,086	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	423,404	74,969	85,971	46,426	14,143	90,294	111,599	407,449	145,784	34,603	54,105	172,957
1981-82	457,654	82,067	93,613	50,738	15,028	87,282	128,925	436,733	154,282	34,520	57,996	189,935
1982-83	486,753	89,105	100,247	55,129	14,258	90,007	138,008	466,516	163,876	36,655	60,906	205,080
1983-84	542,730	96,457	114,097	64,871	16,798	96,935	153,571	505,008	176,108	39,419	66,414	223,068
1984-85	598,121	103,757	126,376	70,361	19,152	106,158	172,317	553,899	192,686	44,989	71,479	244,745
1985-86	641,486	111,709	135,005	74,365	19,994	113,099	187,314	605,623	210,819	49,368	75,868	269,568
1986-87	686,860	121,203	144,091	83,935	22,425	114,857	200,350	657,134	226,619	52,355	82,650	295,510
1987-88	726,762	132,212	156,452	88,350	23,663	117,602	208,482	704,921	242,683	55,621	89,090	317,527
1988-89	786,129	142,400	166,336	97,806	25,926	125,824	227,838	762,360	263,898	58,105	97,879	342,479
1988-90	849,502	155,613	177,885	105,640	23,566	136,802	249,996	834,818	288,148	61,057	110,518	375,094
1990-91	902,207	167,999	185,570	109,341	22,242	154,099	262,955	908,108	309,302	64,937	130,402	403,467
1991-92	979,137	180,337	197,731	115,638	23,880	179,174	282,376	981,253	324,652	67,351	158,723	430,526
1992-93	1,041,643	189,744	209,649	123,235	26,417	198,663	293,935	1,030,434	342,287	68,370	170,705	449,072
1993-94	1,100,490	197,141	223,628	128,810	28,320	215,492	307,099	1,077,665	353,287	72,067	183,394	468,916
1994-95	1,169,505	203,451	237,268	137,931	31,406	228,771	330,677	1,149,863	378,273	77,109	196,703	497,779
1995-96	1,222,821	209,440	248,993	146,844	32,009	234,891	350,645	1,193,276	398,859	79,092	197,354	517,971
1996-97	1,289,237	218,877	261,418	159,042	33,820	244,847	371,233	1,249,984	418,416	82,062	203,779	545,727
1997-98	1,365,762	230,150	274,883	175,630	34,412	255,048	395,639	1,318,042	450,365	87,214	208,120	572,343
1998-99	1,434,029	239,672	290,993	189,309	33,922	270,628	409,505	1,402,369	483,259	93,018	218,957	607,134
1999-2000	1,541,322	249,178	309,290	211,661	36,059	291,950	443,186	1,506,797	521,612	101,336	237,336	646,512
2000-01	1,647,161	263,689	320,217	226,334	35,296	324,033	477,592	1,626,066	563,575	107,235	261,622	693,634
	1,684,879	279,191	324,123	202,832	28,152	360,546	490,035	1,736,866	594,694	115,295	285,464	741,413
	1,763,212	296,683	337,787	199,407	31,369	389,264	508,702	1,821,917	621,335	117,696	310,783	772,102
	1,887,397	317,941	361,027	215,215	33,716	423,112	536,386	1,908,543	655,182	117,215	340,523	795,622
	2,026,034	335,779	384,266	242,273	43,256	438,558	581,902	2,012,110	688,314	126,350	365,295	832,151
	2,197,475	364,559	417,735	268,667	53,081	452,975	640,458	2,123,663	728,917	136,502	373,846	884,398
	2,329,356	388,701	440,331	290,278	60,626	464,585	684,834	2,259,899	773,676	144,714	388,277	953,232
	2,423,024	408,972	451,776	304,901	56,932	477,983	722,460	2,404,549	825,486	153,734	408,419	1,016,911
	2,413,384	424,014	433,556	270,518	45,980	536,760	702,556	2,479,895	850,674	152,067	435,854	1,041,301

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 2008-09 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, 1973-2011 [Billions of dollars]

	Total				Marketable	9				N	onmarketal	ole	
End of year or month	Treasury secu- rities out- stand-	Total ²	Treasury bills	Treasury notes	Treasury bonds	infla	Treasury ation-protei 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: 1973 1974 1975 1976 1977 1978 1979	456.4 473.2 532.1 619.3 697.6 767.0 819.0	263.0 266.6 315.6 392.6 443.5 485.2 506.7	100.1 105.0 128.6 161.2 156.1 160.9 161.4	117.8 128.4 150.3 191.8 241.7 267.9 274.2	45.1 33.1 36.8 39.6 45.7 56.4 71.1				193.4 206.7 216.5 226.7 254.1 281.8 312.3	59.4 61.9 65.5 69.7 75.4 79.8 80.4	28.5 25.0 23.2 21.5 21.8 21.7 28.1	101.7 115.4 124.2 130.6 140.1 153.3 176.4	3.7 4.3 3.6 4.9 16.8 27.1 27.4
1980 1981 1982 1983 1984 1985 1986 1987 1988	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	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 1 2001 1 2002 2003 2004 2005 2006 2007 2008 2009 2	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	13,561.6 14,790.3	8,498.3 9,624.5	1,788.5 1,477.5	5,255.9 6,412.5	849.9 1,020.4	593.8 705.7			5,063.3 5,165.8	188.8 185.2	4.2 3.0	4,645.3 4,793.9	225.0 183.7
2010: Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec	12,278.6 12,440.1 12,773.1 12,948.7 12,992.5 13,201.8 13,237.7 13,449.7 13,561.6 13,668.8 13,860.8 14,025.2	7,226.6 7,406.4 7,757.0 7,901.3 7,958.4 8,102.4 8,178.9 8,404.5 8,498.3 8,542.7 8,748.3 8,863.3	1,689.5 1,736.5 1,843.5 1,847.5 1,855.5 1,782.5 1,790.5 1,825.5 1,788.5 1,768.5 1,775.5	4,229.5 4,337.3 4,566.1 4,704.3 4,734.0 4,938.4 4,981.4 5,148.3 5,255.9 5,296.3 5,467.8 5,571.7	731.4 749.2 762.4 776.3 793.7 806.8 819.8 836.8 849.9 863.0 879.5 892.6	564.3 571.4 573.2 561.2 563.2 564.5 576.9 583.6 593.8 604.7 615.4 616.1			5,052.1 5,033.7 5,016.1 5,047.5 5,034.2 5,099.4 5,045.2 5,063.3 5,126.1 5,112.5 5,162.0	190.9 190.7 190.3 190.1 189.9 189.7 189.4 189.0 188.8 188.7 188.4 188.0	5.4 5.4 4.9 4.5 4.4 4.0 3.4 4.2 4.2 4.2 4.2	4,616.2 4,601.8 4,580.6 4,611.7 4,598.7 4,669.9 4,638.6 4,627.5 4,645.3 4,706.4 4,693.9 4,745.2	239.6 235.8 240.3 241.2 241.1 235.8 227.4 224.5 225.0 226.9 226.0 224.7
2011: Jan Feb Mar Apr 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 9,377.6 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 6,579.0 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	187.5 187.3 186.9 186.6 186.4 186.1 185.8 185.4 185.2 185.6 185.5 185.3	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 4,733.0 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

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 2011 include Federal Financing Bank securities, not shown separately.
 Through 1996, series is U.S. savings bonds. Beginning 1997, includes U.S. retirement plan bonds, U.S. individual retirement bonds, and U.S. savings notes previously included in "other" normarketable securities.

⁴ Non/marketable certificates of indebtedness, notes, bonds, and bills in the Treasury foreign series of dollar-denominated and foreign-currency-denominated

issues.

5 Includes depository bonds; retirement plan bonds; Bural Electrification Administration bonds; State and local bonds; special issues held only by U.S.

6 Government agencies and trust funds and the Federal home loan banks; for the period July 2003 through February 2004, depositary compensation securities; and beginning August 2008, Hope bonds for the HOPE For Homeowners Program.

Note: Through fiscal year 1976, the fiscal year was on a July 1-June 30 basis; beginning with October 1976 (fiscal year 1977), the fiscal year is on an October 1—September 30 basis.

 $\begin{array}{c} \text{Table B-88. Maturity distribution and average length of marketable interest-bearing public debt securities held by private investors, 1973–2011} \end{array}$

	Amount		7.1	Maturity class			Ι.
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: 1973 1974 1975 1976 1977 1978 1978	167,869 164,862 210,382 279,782 326,674 356,501 380,530	84,041 87,150 115,677 150,296 161,329 163,819 181,883	54,139 50,103 65,852 90,578 113,319 132,993 127,574	16,385 14,197 15,385 24,169 33,067 33,500 32,279	8,741 9,930 8,857 8,087 8,428 11,383 18,489	4,564 3,481 4,611 6,652 10,531 14,805 20,304	37 35 32 31 35 39 43
1980 1981 1982 1983 1984 1985 1986 1997 1988	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	156,244 182,237 221,783 294,955 332,808 402,766 467,348 526,744 552,993 578,333	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	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 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	355,382 329,247 311,176 351,552 414,728 499,386 589,748 677,905 719,347 994,688	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	7,676,335 7,951,366	2,479,518 2,503,926	2,955,561 3,084,882	1,529,283 1,543,847	340,861 309,151	371,112 509,559	57 60
2010: Jan	6,412,960 6,591,769 6,968,331 7,112,555 7,139,816 7,315,100 7,360,528 7,607,853 7,676,335 7,659,482 7,831,450	2,324,877 2,372,965 2,492,450 2,496,967 2,493,411 2,432,122 2,453,077 2,504,906 2,479,518 2,470,906 2,510,845 2,544,760	2,334,184 2,420,971 2,579,109 2,644,691 2,659,209 2,800,261 2,797,309 2,922,651 2,955,561 2,930,452 3,012,545 2,981,135	1,147,170 1,173,496 1,258,977 1,320,051 1,324,688 1,406,962 1,421,267 1,481,051 1,529,283 1,537,902 1,572,551 1,568,471	349,376 342,995 343,413 343,461 353,276 353,499 353,608 341,136 340,861 338,278 334,655 330,178	257, 353 281, 343 294, 381 307, 386 309, 233 322, 256 335, 267 358, 109 371, 112 381, 945 396, 733 406, 906	54 54 54 55 55 56 56 57 57 57
2011: Jan Feb	7,825,784 7,810,240 7,781,983 7,653,649 7,721,626 7,706,588 7,674,300 7,861,156 7,951,366 8,074,439 8,196,987 8,205,749	2,559,917 2,568,072 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 2,870,226 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	328,998 329,050 329,019 324,243 317,188 315,369 315,618 310,042 309,151 307,001 292,136 289,711	415,954 423,183 431,311 440,152 452,090 468,382 481,063 496,863 509,559 516,584 517,978	57 57 58 58 59 59 60 60 60 59

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 20, 2012.

TABLE B-89. Estimated ownership of U.S. Treasury securities, 1998-2011

[Billions of dollars]

			Federal				ŀ	Held by priv	ate investo	rs			
		Total	Reserve and				Pensio	n funds			0		
Er	nd of month	Total public debt ¹	Intragov- ernmen- tal hold- ings ²	Total privately held	De- pository institu- tions ³	U.S. savings bonds ⁴	Private ⁵	State and local govern- ments	Insur- ance compa- nies	Mutual funds ⁶	State and local govern- ments	Foreign and inter- national ⁷	Other inves- tors ⁸
	Mar	5,542.4	2,104.9	3,437.5	308.3	181.2	141.3	212.1	169.5	234.6	238.1	1,250.5	701.9
	June	5,547.9	2,198.6	3,349.3	290.9	180.7	139.0	213.2	160.6	230.8	258.5	1,256.0	619.8
	Sept	5,526.2	2,213.0	3,313.2	244.5	180.8	135.5	207.8	151.4	231.7	271.8	1,224.2	665.4
	Dec	5,614.2	2,280.2	3,334.0	237.4	180.3	133.2	212.6	141.7	257.6	280.8	1,278.7	611.7
	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	2,924.8	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	467.6	1,929.6	344.3
	Dec	8,170.4	4,199.8	3,970.6	117.1	205.2	184.9	153.8	202.3	251.3	481.4	2,033.9	340.6
	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	192.1	150.9	196.1	244.2	484.2	1,977.8	460.9
	Sept	8,507.0	4,432.8	4,074.2	113.6	203.7	201.9	154.7	196.8	235.7	484.9	2,025.3	457.5
	Dec	8,680.2	4,558.1	4,122.1	114.8	202.4	207.5	156.2	197.9	250.7	506.8	2,103.1	382.7
	Mar	8,849.7	4,576.6	4,273.1	119.8	200.3	221.7	158.3	185.4	264.5	546.2	2,194.8	382.0
	June	8,867.7	4,715.1	4,152.6	110.4	198.6	232.5	159.3	168.9	267.7	569.3	2,192.0	253.7
	Sept	9,007.7	4,738.0	4,269.7	119.7	197.1	246.7	138.9	155.1	306.3	526.8	2,235.3	343.7
	Dec	9,229.2	4,833.5	4,395.7	129.8	196.5	257.6	141.6	141.9	362.9	525.1	2,353.2	287.2
	Mar	9,437.6	4,694.7	4,742.9	125.0	195.4	270.5	142.0	152.1	484.4	524.9	2,506.3	342.2
	June	9,492.0	4,685.8	4,806.2	112.7	195.0	276.7	141.8	159.4	477.2	513.4	2,587.4	342.5
	Sept	10,024.7	4,692.7	5,332.0	130.0	194.3	292.5	143.9	163.4	656.1	493.9	2,802.4	455.5
	Dec	10,699.8	4,806.4	5,893.4	105.0	194.1	297.2	146.4	171.4	768.8	475.1	3,077.2	658.3
	Mar	11,126.9	4,785.2	6,341.7	125.6	194.0	330.9	150.2	191.0	715.9	508.0	3,265.7	860.4
	June	11,545.3	5,026.8	6,518.5	140.8	193.6	353.4	159.9	200.0	695.6	504.7	3,460.8	809.7
	Sept	11,909.8	5,127.1	6,782.7	198.1	192.5	398.1	167.3	210.2	644.9	492.3	3,570.6	908.7
	Dec	12,311.3	5,276.9	7,034.4	202.4	191.3	429.8	174.5	222.0	666.2	493.9	3,685.1	969.1
2010:	Mar	12,773.1	5,259.8	7,513.3	269.4	190.3	462.2	179.1	225.7	646.4	499.9	3,877.9	1,162.5
	June	13,201.8	5,345.1	7,856.7	266.1	189.7	531.9	182.0	231.8	632.1	504.8	4,070.0	1,248.4
	Sept	13,561.6	5,350.5	8,211.1	322.9	188.8	595.2	185.5	240.6	607.4	498.1	4,324.2	1,248.5
	Dec	14,025.2	5,656.2	8,368.9	319.1	188.0	615.9	185.6	248.4	637.9	503.6	4,435.6	1,234.9
2011:	Mar June Sept Dec	14,270.0 14,343.1 14,790.3 15,222.8	5,958.9 6,220.4 6,328.0 6,439.6	8,311.1 8,122.7 8,462.4 8,783.3	321.2 279.3 292.2	186.9 186.1 185.2 185.3	632.9 658.7 689.6	187.9 186.9 188.7	246.9 246.1 253.7	641.1 653.1 699.0	496.8 479.3 460.8	4,473.6 4,511.1 4,667.0	1,123.8 922.1 1,026.2

Note: Data shown in this table are as of January 20, 2012.

Source: Department of the Treasury.

² Federal Reserve holdings exclude Treasury securities held under repurchase agreements.

³ Includes commercial banks, savings institutions, and credit unions.

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

Table B–90. Corporate profits with inventory valuation and capital consumption adjustments, 1963-2011

[Billions of dollars; quarterly data at seasonally adjusted annual rates]

		Corporate profits		Corporate pr and ca	ofits after tax with inveni pital 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 1969 1971 1972 1973		68.3 75.5 86.5 92.5 90.2 97.3 94.5 82.5 96.1 111.4 124.5	26.4 28.2. 31.1 33.9 32.9 39.6 40.0 34.8 38.2 42.3 50.0 52.8	42.0 47.4 55.5 58.7 57.3 57.6 54.5 47.7 57.9 69.1 74.5	16.2 18.2 20.2 20.7 21.5 23.5 24.2 24.3 25.0 26.8 29.9 33.2	25.7 29.2 35.3 38.0 35.8 34.1 30.3 23.4 32.9 42.2 44.6 29.1
1975 1976 1977 1978 1979		133.3 161.6 191.8 218.4 225.4	51.6 65.3 74.4 84.9 90.0	81.7 96.3 117.4 133.6 135.3	33.0 39.0 44.8 50.8 57.5	48.7 57.3 72.6 82.8 77.8
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	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	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	169.1 180.7 188.0 202.9 235.7 254.4 297.7 331.2 351.5 337.4	120.0 138.0 159.5 169.7 199.4 243.9 272.3 308.2 212.6 260.1
2001 2002 2003 2004 2005 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 1,362.0	265.1 203.3 192.3 243.8 306.1 412.4 473.3 445.5 309.0 272.4 411.1	554.1 580.9 679.9 734.0 940.8 1,047.7 1,135.0 1,065.2 939.4 1,089.6	377.9 370.9 399.3 424.9 550.3 557.3 704.8 794.5 786.9 620.0	176.3 210.0 280.6 309.2 390.5 486.4 430.3 270.7 152.5 469.6 651.7
2008:	 	1,360.0 1,333.7 1,328.6 971.2	355.2 344.1 312.5 224.3	1,004.8 989.7 1,016.1 746.9	814.6 835.9 803.4 780.5 727.6	168.9 186.3 235.5 19.2
	 	1,175.2 1,262.3 1,438.8 1,571.6	208.8 244.8 301.6 334.4	966.4 1,017.5 1,137.3 1,237.2	671.9 600.9 584.1 623.0	294.5 416.6 553.1 614.2
	 	1,724.2 1,785.8 1,833.1 1,857.4	409.7 399.6 430.3 404.7	1,314.5 1,386.3 1,402.8 1,452.7	684.8 729.3 760.5 774.8	629.7 657.0 642.3 677.9
	 V P	1,876.4 1,937.6 1,970.1	422.3 420.5 411.4	1,454.1 1,517.1 1,558.7	793.8 807.4 821.4 835.6	660.3 709.6 737.3

TABLE B-91. Corporate profits by industry, 1963-2011

[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 consi	umption a	djustment		
							Domestic	industries						
Year or quarter	Total			Financial					Nonfir	nancial				Rest
	Total	Total	Total	Federal Reserve banks	Other	Total	Manu- factur- ing ¹	Trans- porta- tion ²	Utilities	Whole- sale trade	Retail trade	Infor- mation	Other	the world
SIC: 3 1963 1964 1965 1966 1966 1967 1968 1970 1971 1972 1973 1974 1975 1976 1977 1977 1978 1978 1979 1979	62.1 68.6 78.9 84.6 82.0 88.8 85.5 74.4 88.3 101.6 115.4 109.6 135.0 165.6 194.8 222.4 232.0 211.4 219.1	58.1 64.1 77.2 80.1 77.2 83.2 78.9 67.3 80.4 92.1 100.5 92.1 120.4 149.1 175.7 199.6 197.4 175.9	8.3 8.8 9.3 10.7 11.2 12.8 13.6 15.4 17.6 19.2 20.5 20.2 20.2 25.0 31.9 39.5 40.4 34.0 29.1	1.0 1.1 1.7 2.0 2.5 3.1 3.5 3.3 4.5 5.7 5.6 5.9 9.4 11.8	7.3 7.6 8.0 9.1 9.2 10.3 10.5 11.9 14.3 15.8 16.1 14.5 14.6 19.1 25.8 31.9 30.9 22.2 14.7	49.8 55.4 64.9 69.3 66.0 70.4 65.3 52.0 62.8 72.9 80.0 71.9 100.2 124.1 143.8 160.0 157.0	29.7 32.6 39.8 42.6 39.2 41.9 37.3 35.1 42.2 47.2 41.4 55.2 71.4 90.5 89.8 78.3 91.1	9.5 10.2 11.0 12.0 10.9 11.0 10.7 8.3 8.9 9.5 9.1 7.6 11.0 15.3 18.6 21.8 17.0 18.4 20.3		2.8 3.4 3.8 4.0 4.1 4.6 4.9 5.2 11.5 13.8 12.9 15.6 18.8 17.2 22.4	3.6 4.5 4.9 5.7 6.4 6.0 7.2 7.4 6.7 2.3 8.2 10.5 12.4 12.3 9.9 6.9		4.1 4.7 5.9 6.1 6.6 6.1 5.8 6.4 7.0 8.8 9.1 12.0 14.0 17.8 19.8 21.6 21.6 7	4.1 4.5 4.5 4.8 5.6 6.6 7.1 7.9 9.5 14.6 16.5 19.1 22.9 34.6 35.5 29.7
1981 1982 1983 1984 1985 1986 1987 1988	213.1 191.1 226.6 264.6 257.5 253.0 306.9 367.7 374.1	158.5 191.5 228.1 219.4 213.5 258.8 310.8 307.0	26.0 35.5 34.4 45.9 56.8 61.6 68.8 80.2	14.4 15.2 14.6 16.4 16.3 15.5 16.2 18.1 20.6	14.7 10.8 21.0 18.0 29.5 41.2 45.3 50.7 59.5	132.5 156.0 193.7 173.5 156.8 197.3 242.0 226.8	91.1 76.2 91.8 84.3 57.9 87.5 122.5 112.1	20.3 23.1 29.5 40.1 33.8 35.8 42.4 48.9 43.8		22.4 19.6 21.0 29.5 23.9 24.1 19.0 20.4 22.1	13.5 18.8 21.1 22.2 23.5 24.0 21.0 22.1		9.3 10.4 11.1 9.2 15.5 24.4 29.3 26.7	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</i> : ³	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 1999	738.6 776.6	635.9 655.0	159.5 189.3	25.6 26.7	133.9 162.6	476.4 465.7	155.8 148.8	21.3 16.5	33.5 33.7	52.8 54.8	67.3 65.7	21.9 12.5	123.7 133.6	102.8 121.5
2000 2001 2002 2002 2003 2004 2005 2006 2007 2008 2009	755.7 720.8 762.8 892.2 1,195.1 1,609.5 1,784.7 1,691.1 1,315.5 1,456.3	610.0 551.1 604.9 726.4 990.1 1,370.0 1,527.8 1,340.2 908.9 1,095.9	189.6 228.0 265.2 311.8 362.3 443.6 448.0 345.5 122.2 401.8	31.2 28.9 23.5 20.1 20.0 26.6 33.8 36.0 35.1 47.3	158.4 199.1 241.7 291.8 342.3 417.0 414.1 309.5 87.1 354.5	420.4 323.1 339.7 414.6 627.8 926.4 1,079.9 994.7 786.7 694.1	143.9 49.7 47.7 69.4 154.1 247.2 304.5 271.3 195.5 125.2	15.2 1.2 1 7.4 14.4 29.0 42.1 27.7 31.9 23.5	25.6 25.2 12.3 12.4 19.4 29.8 54.4 50.3 30.7 22.2	58.7 51.3 49.1 54.8 75.6 92.2 103.7 99.9 86.3 83.3	60.7 72.6 81.6 88.9 93.4 122.6 133.2 117.8 81.6 106.0	-15.5 -24.4 -3.8 4.9 45.6 81.3 92.4 93.6 75.1 81.2	131.8 147.4 153.0 176.7 225.2 324.3 349.6 334.2 285.7 252.8	145.6 169.7 157.9 165.8 205.0 239.4 256.8 350.9 406.6 360.4
2010 2009: I II IV	1,780.4 1,285.7 1,359.7 1,525.0 1,654.6	1,398.5 925.7 1,015.1 1,162.5 1,280.3	494.7 241.3 395.0 481.2 489.6	71.6 27.1 43.3 54.2 64.7	423.2 214.2 351.7 427.0 425.0	903.7 684.4 620.1 681.2 790.6	217.1 109.2 107.4 130.8 153.4	34.4 24.4 13.6 27.0 29.2	25.0 18.2 21.6 15.5 33.4	85.8 102.7 77.4 73.0 79.9	122.6 101.6 103.8 107.7 110.9	87.7 75.7 70.8 80.2 97.9	331.2 252.5 225.6 247.1 285.8	381.9 360.1 344.6 362.6 374.3
2010: 	1,797.0 1,859.9 1,812.6 1,652.2	1,428.0 1,469.3 1,417.3 1,279.3	479.8 490.6 487.8 520.8	71.5 73.9 71.4 69.5	408.3 416.7 416.4 451.3	948.2 978.7 929.5 758.5	216.2 237.3 227.2 187.7	32.5 37.7 39.3 28.2	46.5 18.2 28.0 7.1	93.4 111.0 89.4 49.5	128.6 125.4 119.0 117.3	91.4 93.5 86.6 79.1	339.6 355.6 340.0 289.6	368.9 390.6 395.3 372.9
2011: I II	1,761.1 1,830.2 1,867.4	1,350.3 1,384.9 1,416.6	491.5 438.9 448.7	72.7 80.7 77.6	418.8 358.3 371.0	858.8 945.9 967.9	217.6 249.9 268.2	23.5 26.8 33.5	14.9 15.2 10.7	71.6 90.8 85.6	120.2 112.7 110.6	98.9 103.6 97.1	312.0 346.9 362.2	410.8 445.4 450.8

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 for 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, 1963-2011

			Corporate	profits with	n inventory	valuation a	djustment a	and without	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 equipment, appliances, and components	Motor vehi- cles, bodies and trailers, and parts	Other	Total	Food and bever- age and tobacco products	Chem- ical products	Petro- leum and coal products	Other
SIC: 3 1963 1964 1965 1966 1966 1966 1966 1969 1970 1971 1971 1972 1973 1974 1975 1976 1978 1979 1979 1979 1978 1978 1978 1978	29.7 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 79.5 89.8 78.3 91.1 76.2 91.8 84.3 57.9	16.4 18.1 23.3 24.1 21.3 22.5 19.2 10.5 16.6 22.9 25.2 25.3 20.6 31.4 38.0 45.4 37.2 18.3 19.5 5.0 19.5 5.0 19.5 29.7 20.7 20.7 20.7 20.7 20.7 20.7 20.7 20	1.3 1.5 2.4 2.5 2.3 2.0 1.1 1.5 2.2 2.7 1.8 3.3 4.5 5.3 4.4 4.5 2.7 3.4 4.9	2,6 3,3 4,6 4,6 4,2 4,2 3,8 3,1 4,6 9,5 8,6 9,5 8,0 9,0 9,0 9,0 9,0 9,0 9,0 9,0 9,0 9,0 9		1.6 1.7 2.7 3.0 2.9 2.3 1.3 2.0 2.9 3.6 2.6 2.6 5.9 5.9 5.2 5.2 5.2 5.2 5.2	4.96 4.62 5.22 4.00 5.55 4.83 6.09 5.77 2.34 9.40 4.77 -4.33 3.00 5.32 7.46	4.0 4.2 5.2 4.9 5.6 4.9 2.9 4.1 5.6 4.0 4.7 7.3 8.5 10.5 2.7 -2.6 2.1 8.4 14.6 10.1	13.3 14.5 16.5 18.6 18.0 19.4 18.1 17.0 18.5 19.3 22.1 26.1 34.5 45.1 52.6 62.1 52.6 54.6 53.7 52.6 53.6	2.7 2.7 2.9 3.3 3.3 3.1 3.2 2.6 8.6 6.9 6.9 9.2 5.8 6.1 9.2 6.3 6.8 6.8 8.8 7.5 7.3	3.7 4.16 4.9 4.3 5.3 4.6 5.3 5.2 5.3 6.4 5.3 6.4 5.3 7.2 5.7 8.2 5.7 8.2 6.6 6.6 6.7 5.6	2,2 2,4 4,0 3,8 3,4 3,4 3,4 10,9 10,1 113,5 13,1 15,8 24,8 34,7 40,0 34,7 23,9 17,6 18,7 -4,7	4.7 5.3 6.1 6.9 6.4 7.1 7.0 6.1 6.6 7.7 7.9 9.5 11.1 13.6 14.8 14.7 13.1 14.5 15.0 19.1 20.1 20.1 20.5
1987 1988 1989 1990 1991 1991 1992 1993 1994 1995 1996 1997 1998 1998 2000 <i>MalCS:3</i>	87.5 122.5 112.1 114.4 99.4 100.8 150.1 176.7 192.0 212.2 173.4 174.6 166.5	20.3 41.3 54.8 51.8 44.5 35.1 41.2 56.5 75.8 82.3 92.0 104.8 86.7 77.9 64.6	5.2 5.5 6.6 6.4 6.1 5.3 6.3 7.4 11.9 14.6 17.1 16.1 15.5	.0 5.6 11.3 12.4 12.0 5.8 7.6 9.3 14.9 17.0 16.9 12.0 16.2		2.7 6.1 7.8 9.5 8.7 10.2 10.6 15.4 23.2 22.0 20.7 26.0 9.1 5.3 5.1	4.0 3.8 6.3 2.8 -1.8 -5.3 9 6.1 8.0 2 4.5 5.9 7.5 -1.4	17.7 16.7 14.3 16.1 17.5 17.6 19.6 21.7 26.1 29.5 33.3 29.8 34.8 28.1	69.9 64.3 59.6 60.4 74.3 99.9 107.4 86.6 96.6 101.9	7.5 11.2 9.7 11.2 14.4 18.3 18.4 16.5 20.4 27.7 25.2 22.0 28.1 26.0	14.6 18.8 18.3 17.0 16.3 16.1 16.0 23.6 22.6 32.4 26.2 24.8 15.3	-1.4 12.9 6.6 16.5 7.4 8 2.8 1.5 7.4 15.3 17.6 7.1 4.6 29.7	21.3 21.9 26.4 24.2 22.0 22.3 25.9 25.0 28.9 31.2 32.3 31.4 39.2 30.9
1998 1999 2000 2001 2002 2003 2004 2005 2006 2006 2007 2008 2009	155.8 148.8 143.9 49.7 47.7 69.4 154.1 247.2 304.5 271.3 195.5 125.2 217.1 109.2	82.7 71.2 60.0 -26.9 -7.7 -4.3 40.7 95.1 118.9 96.1 56.8 20.5	16.4 16.4 15.8 9.8 9.1 8.0 12.2 18.1 18.7 20.5 15.8 10.5 11.7	15.3 11.7 7.7 2.0 1.4 1.0 7.1 14.5 22.1 16.6 7.8 15.3	4.2 -6.8 4.2 -48.6 -34.4 -14.7 -4.3 9.0 17.4 11.0 12.2 15.4 39.5 7.0	6.2 6.4 5.9 1.9 .0 2.2 .6 -1.4 11.5 -1.2 4.6 8.4 7.0 8.8	6.4 7.7 7 -8.9 -4.5 -11.7 -6.8 1.1 -16.4 -33.1 -45.1 -12.7 -64.1	34.2 35.9 27.1 16.8 20.7 10.8 31.9 54.2 58.9 60.2 40.7 23.6 34.1	73.1 77.6 83.9 76.6 55.4 73.8 113.4 151.7 175.2 138.6 104.7 122.1	22.1 30.9 26.0 28.2 25.3 24.0 24.3 32.5 30.7 29.9 41.5 37.8	25.0 22.8 13.8 11.6 17.8 18.9 24.7 25.7 52.5 48.3 23.9 38.3 34.7	5.3 2.2 27.6 29.7 1.3 23.5 49.1 79.4 76.6 73.5 77.8 9.4 36.0 29.5	20.7 21.7 16.5 7.1 11.0 7.4 15.3 19.3 24.0 22.7 7.1 15.5 13.7
2009:	109.2 107.4 130.8 153.4 216.2 237.3 227.2 187.7 217.6 249.9 268.2	7.9 22.2 51.7 99.8 100.4 95.2 84.5 90.8 97.1 113.6	16.2 11.4 8.6 5.9 11.4 9.3 12.5 13.5 14.6 15.6	10.1 6.7 5.9 8.3 13.3 16.8 16.9 20.0 20.3 24.5	7.0 15.2 17.0 22.3 39.5 37.4 39.0 41.9 29.0 34.5 35.4	8.8 7.7 7.9 9.0 8.8 9.3 7.6 2.4 4.3 2.0 1.9	-64.1 -53.6 -37.1 -25.5 -14.9 -6.9 -9.9 -19.1 -12.0 -12.2 -10.9	22.2 20.4 19.9 31.7 41.7 36.9 29.2 28.8 34.8 36.8 45.1	109.1 99.5 108.6 101.7 116.5 136.9 132.0 103.2 126.9 152.9	39.2 44.1 43.6 39.1 41.1 40.8 39.6 29.6 33.5 34.7 28.5	29.6 43.2 44.6 35.6 28.8 29.4 45.5 35.0 36.1 32.4 38.0	29.5 -4.5 3.3 9.5 31.3 52.8 31.7 28.4 37.9 71.3 72.2	10.8 16.6 17.1 17.5 15.3 13.9 15.2 10.2 19.3 14.4

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, 1970-2011

[Billions of dollars]

	All r	manufacturi	ng corporati	ions	ı	Ourable goo	ds industrie	S	No	ondurable go	ods industr	ies
		Pro	fits	0		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
1970 1971 1972 1973 1973: IV	708.8 751.1 849.5 1,017.2 275.1	48.1 52.9 63.2 81.4 21.4	28.6 31.0 36.5 48.1 13.0	306.8 320.8 343.4 374.1 386.4	363.1 381.8 435.8 527.3 140.1	23.0 26.5 33.6 43.6 10.8	12.9 14.5 18.4 24.8 6.3	155.1 160.4 171.4 188.7 194.7	345.7 369.3 413.7 489.9 135.0	25.2 26.5 29.6 37.8 10.6	15.7 16.5 18.0 23.3 6.7	151.7 160.5 172.0 185.4 191.7
New series:												
1973: IV	236.6	20.6	13.2	368.0	122.7	10.1	6.2	185.8	113.9	10.5	7.0	182.1
1974 1975 1976 1977 1978 1979	1,060.6 1,065.2 1,203.2 1,328.1 1,496.4 1,741.8	92.1 79.9 104.9 115.1 132.5 154.2	58.7 49.1 64.5 70.4 81.1 98.7	395.0 423.4 462.7 496.7 540.5 600.5	529.0 521.1 589.6 657.3 760.7 865.7	41.1 35.3 50.7 57.9 69.6 72.4	24.7 21.4 30.8 34.8 41.8 45.2	196.0 208.1 224.3 239.9 262.6 292.5	531.6 544.1 613.7 670.8 735.7 876.1	51.0 44.6 54.3 57.2 62.9 81.8	34.1 27.7 33.7 35.5 39.3 53.5	199.0 215.3 238.4 256.8 277.9 308.0
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	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	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 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	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 1993 1994 1995 1996 1997 1998 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 1,598.2 1,720.6 1,816.0 1,844.2 1,780.7 1,834.6 2,090.8	100.8 84.8 65.1 79.0 122.5 143.9 160.0 164.4 139.6 156.5	69.4 59.3 46.0 55.7 87.8 103.9 118.8 123.1 106.5 117.5	528.9 557.4 560.8 557.1 576.8 627.0 674.2 719.3 703.0 699.7 768.7
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
<i>NAICS:</i> 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 2008 2009	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	5,759.5	584.2	477.7	3,175.3	2,710.7	287.1	232.3	1,558.4	3,048.8	297.1	245.4	1,616.9
2009: I II III IV	1,196.7 1,253.8 1,305.9 1,353.4	48.5 80.8 120.5 110.8	33.8 60.0 98.1 94.6	2,598.4 2,647.9 2,870.6 3,007.4	584.1 592.3 613.2 637.3	-6.4 11.7 40.6 38.5	-10.2 3.4 32.6 29.1	1,239.7 1,250.1 1,412.1 1,468.3	612.6 661.5 692.6 716.2	54.9 69.1 79.9 72.3	44.0 56.6 65.5 65.5	1,358.7 1,397.8 1,458.5 1,539.1
2010: I II IV	1,349.2 1,461.7 1,463.5 1,485.1	138.7 141.8 155.6 148.1	108.3 117.2 127.5 124.8	3,043.5 3,117.5 3,219.3 3,320.9	625.2 688.8 696.3 700.4	59.3 81.5 74.9 71.4	45.7 65.8 60.6 60.3	1,489.4 1,528.1 1,578.2 1,637.8	724.0 772.9 767.2 784.7	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 1,683.1
2011: I II	1,537.8 1,664.2 1,658.0	179.1 203.3 186.7	143.9 164.6 152.0	3,435.9 3,560.2 3,552.0	698.5 738.0 748.9	82.8 92.2 87.2	65.9 75.8 71.7	1,694.3 1,758.8 1,758.0	839.3 926.2 909.1	96.4 111.1 99.5	78.0 88.8 80.3	1,741.6 1,801.5 1,794.0

¹ In the old series, "income taxes" refers to Federal income taxes only, as State and local income taxes had already been deducted. In the new series, no income taxes have been deducted.

Source: Department of Commerce (Bureau of the Census).

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).

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.

Table B–94. Relation of profits after taxes to stockholders' equity and to sales, all manufacturing corporations, 1962-2011

	Ratio of profits to stock	after income taxes (a holders' equity—pero	annual rate) cent ¹	Pr pe	ofits after income taxe r 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
1962	9.8	9.6	9.9	4.5	4.4	4.7
1963	10.3	10.1	10.4	4.7	4.5	4.9
1964 1965	11.6 13.0	11.7 13.8	11.5 12.2	5.2 5.6	5.1 5.7	5.4 5.5
1966	13.4	14.2	12.7	5.6	5.6	5.6
1967	11.7	11.7	11.8	5.0	4.8	5.3 5.2
1968	12.1	12.2	11.9	5.1	4.9	
1969	11.5	11.4	11.5	4.8	4.6	5.0
1970	9.3 9.7	8.3 9.0	10.3 10.3	4.0 4.1	3.5 3.8	4.5 4.5
1971 1972	10.6	10.8	10.5	4.1	3.0 4.2	4.5 4.4
1973	12.8	13.1	12.6	4.7	4.7	4.8
1973: IV	13.4	12.9	14.0	4.7	4.5	5.0
New series:						
1973: IV	14.3	13.3	15.3	5.6	5.0	6.1
1974	14.9	12.6	17.1	5.5	4.7	6.4
1975	11.6	10.3	12.9	4.6	4.1	5.1
19/6	13.9	13.7	14.2	5.4	5.2	5.5
1977	14.2 15.0	14.5 16.0	13.8 14.2	5.3	5.3	5.3 5.3
1978 1979	16.4	15.4	17.4	5.4 5.7	5.5 5.2	5.3 6.1
1980	13.9	11.2	16.3	4.8	4.0	5.6
1981	13.6	11.9	15.2	4.7	4.2	5.1
1982	9.2	6.1	11.9	3.5	2.4	4.4
1983 1984	10.6 12.5	8.1 12.4	12.7 12.5	4.1 4.6	3.1 4.4	4.9 4.8
1985	10.1	9.2	11.0	3.8	3.4	4.0
1986	9.5	7.5	11.5	3.7	2.9	4.6
1987 1988 ²	12.8	11.9	13.7	4.9	4.5	5.2
1989	16.1 13.5	14.3 11.1	17.8 16.0	5.9 4.9	5.2 4.1	6.6 5.7
1990	10.6	7.9	13.1	3.9	3.0	4.8
1991	6.2	1.4	10.6	2.4		4.0
1991 1992 ³	2.1	-5.1	8.2	.8	.5 -1.7	3.1
1993	8.0	5.7	10.0	2.8	1.8	3.7
1994 1995	15.8 16.0	16.3 15.4	15.2 16.6	5.4 5.6	5.3 5.2	5.5 6.0
1996	16.7	15.7	17.6	6.0	5.5	6.5
1997	16.7	16.3	17.1	6.2	5.8	6.7
1998 1999	15.8 16.4	16.4 16.1	15.2 16.8	5.9 6.2	5.9 6.1	6.0 6.4
2000	15.1	12.5	18.7	6.1	5.4	6.9
2000: IV	9.9	7.0	13.9	4.0	3.1	5.1
NAICS: 4						
2000: IV	9.1	5.6	14.3	3.7	2.5	5.2
2001	2.0	-7.0	14.7	.8	-3.3	5.7
2002	7.5	2.1	14.5	3.2	1.0	5.8
2003 2004	12.1 15.8	8.5 12.9	16.3 19.3	5.4 7.1	3.9 6.2	7.0 8.0
2005	16.7	12.4	21.7	7.4	5.9	9.0
2006	17.6	13.9	21.4	8.1	6.6	9.7
2007	15.2 8.9	10.7 2.9	19.8 14.9	7.3 4.2	5.3 1.5	9.3 6.6
2008	10.3	4.1	16.1	5.6	2.3	8.6
2010	15.0	14.9	15.2	8.3	8.6	8.0
2009: 1	5.2	-3.3	13.0	2.8	-1.7	7.2
II	9.1	-3.3 1.1	16.2	4.8	-1.7	7.2 8.6
	13.7	9.2	18.0	7.5	5.3	9.5
IV	12.6	7.9	17.0	7.0	4.6	9.1
2010:	14.2	12.3	16.1	8.0	7.3	8.6
 	15.0 15.8	17.2 15.3	12.9 16.3	8.0 8.7	9.6 8.7	6.6 8.7
IV	15.0	14.7	15.3	8.4	8.6	8.2
2011:	16.8	15.6	17.9	9.4	9.4	9.3
II	18.5	17.2	19.7	9.9	10.3	9.6
	17.1	16.3	17.9	9.2	9.6	8.8

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				(Standard	stock yields 1 & Poor's) eent) 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		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
1954 1955 1956 1957 1958		21.54 24.40 23.67 24.56					442.72 493.01 475.71 491.66	40.49 46.62 44.38 46.24		4.08 4.09 4.35 3.97	7.95 7.55 7.89 6.23
1959 1960 1961 1962		30.73 30.01 35.37 33.49					632.12 618.04 691.55 639.76	57.38 55.85 66.27 62.38		3.23 3.47 2.98 3.37	5.78 5.90 4.62 5.82
1963 1964		37.51 43.76 47.39					714.81 834.05 910.88	69.87 81.37 88.17		3.17 3.01 3.00	5.50 5.32 5.59
1966 1967 1968 1969	487.92 536.84 585.47 578.01	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	873.60 879.12 906.00 876.72	85.26 91.93 98.70 97.84		3.40 3.20 3.07 3.24	6.63 5.73 5.67 6.08
1970 1971 1972 1973 1974	483.39 573.33 637.52 607.11 463.54	45.72 54.22 60.29 57.42 43.84	48.03 57.92 65.73 63.08 48.08	32.14 44.35 50.17 37.74 31.89	74.47 79.05 76.95 75.38 59.58	60.00 70.38 78.35 70.12 49.67	753.19 884.76 950.71 923.88 759.37	83.22 98.29 109.20 107.43 82.85	107.44 128.52 109.90 76.29	3.83 3.14 2.84 3.06 4.47	6.45 5.41 5.50 7.12 11.59
1975 1976 1977 1978 1979	483.55 575.85 567.66 567.81 616.68	45.73 54.46 53.69 53.70 58.32	50.52 60.44 57.86 58.23 64.76	31.10 39.57 41.09 43.50 47.34	63.00 73.94 81.84 78.44 76.41	47.14 52.94 55.25 56.65 61.42	802.49 974.92 894.63 820.23 844.40	86.16 102.01 98.20 96.02 103.01	77.20 89.90 98.71 117.53 136.57	4.31 3.77 4.62 5.28 5.47	9.15 8.90 10.79 12.03 13.46
1980 1981 1982 1983 1984	720.15 782.62 728.84 979.52 977.33	68.10 74.02 68.93 92.63 92.46	78.70 85.44 78.18 107.45 108.01	60.61 72.61 60.41 89.36 85.63	74.69 77.81 79.49 93.99 92.89	64.25 73.52 71.99 95.34 89.28	891.41 932.92 884.36 1,190.34 1,178.48	118.78 128.05 119.71 160.41 160.46	168.61 203.18 188.97 285.43 248.88	5.26 5.20 5.81 4.40 4.64	12.66 11.96 11.60 8.03 10.02
1985 1986 1987 1988 1989	1,142.97 1,438.02 1,709.79 1,585.14 1,903.36	108.09 136.00 161.70 149.91 180.02	123.79 155.85 195.31 180.95 216.23	104.11 119.87 140.39 134.12 175.28	113.49 142.72 148.59 143.53 174.87	114.21 147.20 146.48 127.26 151.88	1,328.23 1,792.76 2,275.99 2,060.82 2,508.91	186.84 236.34 286.83 265.79 322.84	290.19 366.96 402.57 374.43 437.81	4.25 3.49 3.08 3.64 3.45	8.12 6.09 5.48 8.01 7.42
1990 1991 1992 1993 1994	1,939.47 2,181.72 2,421.51 2,638.96 2,687.02	183.46 206.33 229.01 249.58 254.12	225.78 258.14 284.62 299.99 315.25	158.62 173.99 201.09 242.49 247.29	181.20 185.32 198.91 228.90 209.06	133.26 150.82 179.26 216.42 209.73	2,678.94 2,929.33 3,284.29 3,522.06 3,793.77	334.59 376.18 415.74 451.41 460.42	409.17 491.69 599.26 715.16 751.65	3.61 3.24 2.99 2.78 2.82	6.47 4.79 4.22 4.46 5.83
1995 1996 1997 1998	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, 2000-2011

			Co	mmon stock pric	es ¹			Common s (Standard (perd	stock yields 1 & Poor's) ent) ⁴
Year or month	New	York Stock Excha (December 31, 2	ange (NYSE) ind (002=5,000) ^{2, 3}		Dow Jones industrial	Standard & Poor's composite	Nasdaq composite index	Dividend- price	Earnings- price
	Composite	Financial	Energy	Health care	average 2	index (1941–43=10) ²	(Feb. 5, 1971=100) ²	ratio ⁵	ratio ⁶
2000 2001 2002	6,805.89 6,397.85 5,578.89				10,734.90 10,189.13 9,226.43	1,427.22 1,194.18 993.94	3,783.67 2,035.00 1,539.73	1.15 1.32 1.61	3.63 2.95 2.92
2003 2004	5,447.46 6,612.62	5,583.00 6,822.18	5,273.90 6,952.36	5,288.67 5,924.80	8,993.59 10,317.39	965.23 1,130.65	1,647.17 1,986.53	1.77 1.72	3.84 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	7,230.43 7,871.41	4,744.05 4,641.01	10,943.85 12,880.35	6,230.62 6,847.80	10,662.80 11,966.36	1,139.97 1,268.89	2,349.89 2,680.42	1.98 2.05	6.04
2008: Jan Feb Mar	9,165.10 9,041.52 8,776.21 9,174.10	7,776.77 7,577.54 7,155.51	14,222.14 13,931.92 14,000.91	7,068.98 6,674.75 6,318.44	12,538.12 12,419.57 12,193.88	1,378.76 1,354.87 1,316.94	2,418.09 2,325.83 2,254.82	2.06 2.10 2.17	4.57
Apr May June July	9,429.04 8,996.98 8,427.37	7,579.73 7,593.63 6,798.20 6,207.89	15,159.35 16,365.23 16,272.67 14,899.86	6,381.98 6,405.40 6,243.42 6,412.48	12,656.63 12,812.48 12,056.67 11,322.38	1,370.47 1,403.22 1,341.25 1,257.33	2,368.10 2,483.24 2,427.45 2,278.14	2.09 2.07 2.15 2.27	4.01
Aug Sept Oct Nov Dec	8,362.20 7,886.29 6,130.39 5,527.63 5,525.70	6,304.58 6,159.18 4,733.74 3,779.86 3,673.95	13,772.04 12,562.82 9,515.71 9,262.07 9,136.33	6,618.92 6,316.05 5,434.03 5,088.99 5,090.83	11,530.75 11,114.08 9,176.71 8,614.55 8,595.56	1,281.47 1,217.01 968.80 883.04 877.56	2,389.27 2,205.20 1,730.32 1,542.70 1,525.89	2.23 2.36 2.83 3.11 3.00	3.94
2009: Jan Feb Mar Apr	5,477.14 5,051.42 4,739.72 5.338.39	3,337.14 2,823.74 2,633.65 3,313.47	9,295.97 8,785.04 8,266.81 8,839.95	5,256.13 5,106.78 4,596.81 4,771.71	8,396.20 7,690.50 7,235.47	865.58 805.23 757.13 848.15	1,537.20 1,485.98 1,432.23 1,641.15	3.01 3.07 2.92 2.60	.86
May June July Aug Sept Oct	5,823.10 5,985.64 6,026.55 6,577.18 6,839.88 6,986.35	3,819.95 3,924.19 4,000.66 4,646.60 4,844.93 4,918.07	9,848.66 10,189.64 9,765.09 10,295.91 10,791.73 11,342.57	5,051.78 5,224.16 5,410.22 5,706.96 5,838.22 5,931.28	7,992.12 8,398.37 8,593.00 8,679.75 9,375.06 9,634.97 9,857.34	902.41 926.12 935.82 1,009.72 1,044.55 1,067.66	1,726.08 1,826.99 1,873.84 1,997.16 2,084.75 2,122.85	2.41 2.35 2.31 2.12 2.06 2.02	.82
Nov Dec	7,079.38 7,167.51	4,848.04 4,734.07	11,486.95 11,335.23	6,155.21 6,430.25	10,227.55 10,433.44	1,088.07 1,110.38	2,143.53 2,220.60	1.99 1.95	4.57
2010: Jan Feb Mar Apr	7,257.37 6,958.36 7,349.86 7,607.49	4,795.75 4,567.29 4,942.17 5,187.03	11,548.08 10,840.96 11,194.52 11,690.25	6,523.83 6,320.43 6,453.81 6,391.99	10,471.24 10,214.51 10,677.52 11,052.15	1,123.58 1,089.16 1,152.05 1,197.32	2,267.77 2,194.44 2,362.24 2,475.72	1.92 2.00 1.90 1.84	5.21
May June July Aug	7,010.08 6,767.75 6,814.61 6,922.30	4,689.81 4,484.05 4,553.76 4,588.87	10,491.24 9,960.54 10,007.16 10,186.03	5,929.68 5,838.56 5,867.77 5,939.69	10,500.19 10,159.27 10,222.24 10,350.40	1,125.06 1,083.36 1,079.80 1,087.28	2,319.24 2,235.23 2,210.27 2,205.28	1.98 2.09 2.10 2.10	6.51
Sept Oct Nov Dec	7,149.32 7,482.15 7,608.40 7,837.43	4,694.66 4,778.71 4,770.65 4,875.84	10,423.43 11,164.11 11,639.37 12,180.49	6,208.29 6,456.56 6,389.44 6,447.34	10,598.07 11,044.49 11,198.31 11,465.26	1,122.08 1,171.58 1,198.89 1,241.53	2,298.35 2,441.30 2,530.99 2,631.56	2.06 1.97 1.94 1.90	6.30 6.15
2011: Jan Feb Mar Apr	8,093.40 8,361.70 8,274.78 8.470.07	5,097.71 5,292.98 5,157.33 5,177.21	12,861.65 13,680.69 13,896.16 14,197.31	6,570.59 6,658.62 6,696.08 6,989.18	11,802.37 12,190.00 12,081.48 12,434.88	1,282.62 1,321.12 1,304.49 1,331.51	2,717.21 2,783.54 2,722.29 2,797.07	1.84 1.80 1.90 1.92	6.13
May June July	8,414.33 8,108.71 8,286.83 7,342.37	5,067.79 4,814.06 4,846.73	13,534.36 13,118.75 13,678.27 11,964.10	7,345.34 7,214.22 7,290.81	12,579.99 12,097.31 12,512.33 11,326.62	1,338.31 1,287.29 1,325.18	2,815.08 2,687.76 2,810.58	1.95 2.04 1.99 2.20	6.35
Aug Sept Oct Nov Dec	7,342.37 7,099.58 7,255.05 7,348.85 7.401.26	4,215.95 3,958.64 4,048.81 3,991.61 4,023.34	11,364.10 11,370.24 11,760.87 12,243.52 12,258.25	6,587.04 6,578.35 6,666.64 6,696.20 6,880.58	11,326.62 11,175.45 11,515.93 11,804.33 12,075.68	1,185.31 1,173.88 1,207.22 1,226.41 1,243.32	2,504.62 2,524.14 2,594.78 2,606.29 2,601.67	2.20 2.25 2.28 2.22 2.24	7.69

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 (in 2011, over 1,800); for Dow Jones industrial average, 30 stocks; for Standard & Poor's (S&P) composite index, 500 stocks; and for Nasdaq composite index, in 2011, over 2,500.
3 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.
4 Based on 500 stocks in the S&P composite index.
5 Aggregate cash dividends (based on latest known annual rate) divided by aggregate market value based on Wednesday closing prices. Monthly data are averages of weekly figures, annual data are averages of monthly figures.
6 Quarterly data are ratio of earnings (after taxes) for four quarters ending with particular quarter-to-price index for last day of that quarter. Annual data are averages of quarterly ratios. averages of quarterly ratios.

AGRICULTURE

TABLE B-97. Farm income, 1950-2011

[Billions of dollars]

			In	come of farm ope	rators from farmir	ng		
			Gross far	m income				
Year		Cas	h marketing recei	pts			Draduation	Net
	Total ¹	Total	Livestock, dairy, and poultry	Crops ²	Value of inventory changes ³	Direct Government payments ⁴	Production expenses	farm income
1950	33.1 38.3 37.8 34.4 34.2 33.5 34.0 37.9 38.6 40.5 42.3 43.4 44.3 44.5 50.5 50.5 50.5 50.5 50.5 50.5 50.8 62.1 77.1 98.9 98.2 100.6 102.9 108.8 128.4 156.1 156.1 156.1 156.1 156.1 156.1 156.1 156.1 166.3 167.9 168.4 177.9 191.6	28.5 32.9 32.5 31.0 29.8 29.5 30.4 29.7 33.6 34.0 35.2 36.5 37.5 37.5 37.5 37.5 37.5 37.5 37.5 37		12.4 13.2 14.3 14.1 13.6 13.5 14.0 12.3 14.2 14.7 15.0 15.7 16.3 17.4 17.5 18.4 17.4 17.5 18.4 18.7 19.6 21.0 22.3 25.5 41.1 45.8 49.0 49.0 49.0 63.8 65.8 71.6 76.9 77.9 67.9 67.9 67.9 67.9 67.9 67	0.8 1.2 9.9 -5.5 -5.5 -6.8 8.0 0.4 4.3 6.6 -8.8 1.0 1.1 1.1 9 3.4 -1.5 -1.1 1.1 9 6.0 6.0 6.0 6.0 6.0 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1	0.3 .3 .3 .2 .3 .6 1.0 1.1 .7 .7 .7 .7 .1,7 .1,7 .1,7 .2,2 .2,5 .3,3 .3,1 .3,5 .3,8 .3,7 .3,1 .4,0 .5,8 .8,8 .7,8 .8,9 .8,	19.5 22.3 22.8 21.5 21.8 22.2 22.7 23.7 25.8 27.2 27.4 42.6 30.3 31.6 33.6 36.5 38.2 39.5 47.1 51.7 64.6 71.0 75.0 82.7 88.9 103.2 123.3 133.1 133.4 140.3 132.6 142.0 132.6 125.0 130.4 133.3 136.1 125.6 125.0 130.4 133.3 135.1	13.6 15.9 15.0 13.0 12.4 11.3 11.1 13.2 10.7 11.2 12.0 12.1 11.8 10.5 12.9 14.0 12.3 12.3 12.3 12.3 12.3 12.3 12.3 12.3
1991 1992 1993 1994 1995 1995 1997 1998 2000 2001	192.0 200.6 205.0 216.1 210.8 235.8 238.0 232.6 234.9 241.7 249.9 230.6	168.0 171.5 178.3 181.4 188.2 199.4 207.8 196.5 187.8 192.1 200.0 194.6	95.8 85.8 90.5 88.3 87.2 92.9 96.5 94.2 95.7 99.6 106.7 93.9	802.2 85.7 87.8 93.1 101.0 106.5 111.3 102.2 92.1 92.5 93.4 100.7	-2 42 -4.2 8.3 -5.0 7.9 6 6 2 1.6 1.1	3.2 9.2 13.4 7.9 7.3 7.5 12.4 21.5 23.2 22.4	151.8 150.4 158.3 163.5 171.1 176.9 186.7 185.5 187.2 191.0 195.0	46.3 40.2 50.2 46.7 52.6 39.8 58.9 51.3 47.1 47.7 50.7 54.9 39.1
2002 2003 2004 2005 2006 2007 2008 2009 2010	230.6 258.7 294.9 298.5 290.2 339.6 377.9 342.7 364.7 420.8	194.6 216.0 237.9 240.9 240.6 288.5 316.7 288.6 314.4 365.9	93.9 105.7 123.5 124.9 118.5 138.5 141.6 120.3 141.4 165.4	100.7 110.3 114.4 116.0 122.1 150.1 175.0 168.3 172.9 200.6	-3.5 -2.7 11.2 4 -3.1 .6 6.6 -1.1 -2.0 1.5	12.4 16.5 13.0 24.4 15.8 11.9 12.2 12.2 12.4 10.6	191.4 197.7 207.5 219.7 232.7 269.5 293.2 281.1 285.6 320.0	39.1 61.0 87.4 78.8 57.4 70.0 84.7 61.6 79.1 100.9

¹ Cash marketing receipts, Government payments, value of changes in inventories, other farm-related cash income, and nonmoney income produced by farms including imputed rent of operator dwellings.
2 Crop receipts include proceeds received from commodities placed under Commodity Credit Corporation loans.
3 Physical changes in beginning and ending year inventories of crop and livestock commodities valued at weighted average market prices during the year.
4 Includes only Government payments made directly to farmers.

Note: Data for 2011 are forecasts.

TABLE B-98. Farm business balance sheet, 1952-2011

[Billions of dollars]

					Assets	10110 01 00					Cla	ims	
			Ph	ysical asse	ets		Fir	nancial ass	ets				
End of year	Total assets	Real estate	Live- stock and poultry ¹	Ma- chinery and motor vehi- cles	Crops stored ²	Pur- chased inputs ³	Total ⁴	Invest- ments in coopera- tives	Other ⁴	Total claims	Real estate debt ⁵	Non– real estate debt ⁶	Farm equity
1952 1953 1954 1955 1956 1956 1957 1958	133.1 128.7 132.6 137.0 145.7 154.5 168.7 172.9	85.1 84.3 87.8 93.0 100.3 106.4 114.6 121.2	14.8 11.7 11.2 10.6 11.0 13.9 17.7	15.0 15.6 15.7 16.3 16.9 17.0 18.1 19.3	7.9 6.8 7.5 6.5 6.8 6.4 6.9 6.2		10.3 10.3 10.4 10.6 10.7 10.8 11.4 11.0	3.2 3.3 3.5 3.7 4.0 4.2 4.5 4.8	7.1 7.0 6.9 6.7 6.6 6.9 6.2	133.1 128.7 132.6 137.0 145.7 154.5 168.7 172.9	6.2 6.6 7.1 7.8 8.5 9.0 9.7 10.6	7.1 6.3 6.7 7.3 7.4 8.2 9.4 10.7	119.8 115.8 118.8 121.9 129.8 137.3 149.6 151.6
1960 1961 1962 1963 1964 1965 1966 1967 1968	174.4 181.6 188.9 196.7 204.2 220.8 234.0 246.1 257.2 267.8	123.3 129.1 134.6 142.4 150.5 161.5 171.2 180.9 189.4 195.3	15.6 16.4 17.3 15.9 14.5 17.6 19.0 18.8 20.2 22.8	19.1 19.3 19.9 20.4 21.2 22.4 24.1 26.3 27.7 28.6	6.4 6.5 6.5 7.4 7.0 7.9 8.1 8.0 7.4 8.3		10.0 10.4 10.5 10.7 11.0 11.4 11.6 12.0 12.4	4.2 4.5 4.6 5.0 5.2 5.4 5.7 5.8 6.1	5.8 5.9 5.9 5.7 5.8 6.0 6.0 6.1 6.3 6.4	174.4 181.6 188.9 196.7 204.2 220.8 234.0 246.1 257.2 267.8	11.3 12.3 13.5 15.0 16.9 18.9 20.7 22.6 24.7 26.4	11.1 11.8 13.2 14.6 15.3 16.9 18.5 19.6 19.2 20.0	151.9 157.5 162.2 167.1 172.1 185.0 194.8 203.9 213.2 221.4
1970	278.8 301.8 339.9 418.5 449.2 510.8 590.7 651.5 777.7 914.7	202.4 217.6 243.0 298.3 335.6 383.6 456.5 509.3 601.8 706.1	23.7 27.3 33.7 42.4 24.6 29.4 29.0 31.9 50.1 61.4	30.4 32.4 34.6 39.7 48.5 57.4 63.3 69.3 78.8 91.9	8.7 10.0 12.9 21.4 22.5 20.5 20.6 20.4 23.8 29.9		13.6 14.5 15.7 16.8 18.1 19.9 21.3 20.5 23.2	7.2 7.9 8.7 9.7 11.2 13.0 14.3 13.5 16.1	6.5 6.7 6.9 7.1 6.9 6.9 7.0 7.1 7.3	278.8 301.8 339.9 418.5 449.2 510.8 590.7 651.5 777.7 914.7	27.2 28.8 31.4 35.2 39.6 43.8 48.5 55.8 63.4 75.8	21.3 24.0 26.7 31.6 35.1 39.8 45.7 52.6 60.4 71.7	230.3 248.9 281.8 351.7 374.5 427.3 496.6 543.1 653.9 767.2
1980	1,000.4 997.9 962.5 959.3 897.8 775.9 722.0 756.5 788.5 813.7	782.8 785.6 750.0 753.4 661.8 586.2 542.4 563.7 582.3 600.1	60.6 53.5 53.0 49.5 49.5 46.3 47.8 58.0 62.2 66.2	97.5 101.1 103.9 101.7 125.8 86.1 79.0 78.7 81.0 84.1	32.8 29.5 25.9 23.7 26.1 22.9 16.3 17.8 23.7 23.9	2.0 1.2 2.1 3.2 3.5 2.6	26.7 28.2 29.7 30.9 32.6 33.3 34.4 35.2 35.9 36.8	19.3 20.6 21.9 22.8 24.3 24.4 25.3 25.6 26.3	7.4 7.6 7.8 8.1 8.3 9.0 10.0 9.9 10.4	1,000.4 997.9 962.5 959.3 897.8 775.9 722.0 756.5 788.5 813.7	85.3 93.9 96.8 98.1 101.4 94.1 84.1 75.8 70.8 68.8	77.2 83.8 87.2 88.1 87.4 78.1 67.2 62.7 62.3 62.3	838.0 820.2 778.5 773.1 709.0 603.8 570.7 618.0 655.4 682.7
1990 1991 1992 1993 1994 1995 1996 1997 1998	840.6 844.2 867.8 909.2 934.7 965.7 1,002.9 1,051.3 1,083.4 1,138.8	619.1 624.8 640.8 677.6 704.1 740.5 769.5 808.2 840.4 887.0	70.9 68.1 71.0 72.8 67.9 57.8 60.3 67.1 63.4 73.2	86.3 85.9 84.8 85.4 86.8 87.6 88.0 88.7 89.8	23.2 22.2 24.2 23.3 23.3 27.4 31.7 32.7 29.9 28.3	2.8 2.6 3.9 3.8 5.0 3.4 4.4 4.9 5.0 4.0	38.3 40.5 43.0 46.3 47.6 49.1 49.0 49.7 54.7 56.5	27.5 28.7 29.4 31.0 32.1 34.1 34.9 35.7 40.5 41.9	10.9 11.8 13.6 15.3 15.5 15.0 14.1 13.9 14.2	840.6 844.2 867.8 909.2 934.7 965.7 1,002.9 1,051.3 1,083.4 1,138.8	67.6 67.4 67.9 68.4 69.9 71.7 74.4 78.5 83.1	63.5 64.4 63.7 65.9 69.0 71.3 74.2 78.4 81.5 80.5	709.5 712.3 736.2 774.9 795.8 822.8 854.3 894.4 918.7 971.1
2000	1,203.2 1,255.9 1,259.7 1,383.4 1,588.0 1,779.4 1,923.6 2,055.3 2,023.3 2,054.4	946.4 996.2 998.7 1,112.1 1,305.2 1,487.0 1,625.8 1,751.4 1,703.0 1,724.4	76.8 78.5 75.6 78.5 79.4 81.1 80.7 80.6 80.6 79.8	90.1 92.8 96.2 100.3 107.8 113.1 114.2 114.7 123.4 126.0	27.9 25.2 23.1 24.4 24.4 24.3 22.7 22.7 27.6 32.9	4.9 4.2 5.6 5.6 5.7 6.5 6.5 7.0 7.2 7.2	57.1 58.9 60.4 62.4 65.5 67.5 73.7 78.8 81.6 84.1	43.0 43.6 44.7 45.6	14.1 15.3 15.8 16.9	1,203.2 1,255.9 1,259.7 1,383.4 1,588.0 1,779.4 1,923.6 2,055.3 2,023.3 2,054.4	84.7 88.5 95.4 83.2 95.7 104.8 108.0 112.7 134.7 131.3	79.2 82.1 81.8 81.0 86.3 91.6 95.5 101.4 106.9 110.6	1,039.3 1,085.3 1,082.5 1,219.2 1,406.1 1,583.0 1,720.0 1,841.2 1,781.7 1,812.5
2010 2011 ^p	2,190.9 2,339.8	1,853.7 1,987.2	81.4 80.2	127.9 133.5	35.6 39.6	7.3 7.6	84.9 91.8			2,190.9 2,339.8	136.3 132.1	110.6 110.3	1,944.0 2,097.3

Note: Data exclude operator households.

Data for 2011 are forecasts.

¹ Excludes commercial broilers; excludes horses and mules beginning with 1959 data; excludes turkeys beginning with 1986 data.
2 Non-Commodity Credit Corporation (CCC) crops held on farms plus value above loan rate for crops held under CCC.
3 Includes fertilizer, chemicals, fuels, parts, feed, seed, and other supplies.
4 Beginning with 2004, data available only for total financial assets. Data through 2003 for other financial assets are currency and demand deposits.
5 Includes CCC storage and drying facilities loans.
6 Does not include CCC crop loans.

⁷ 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		Productivit	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 1952 1953 1954 1955 1955 1956 1957 1956 1957 1958 1959 1960 19	39 40 411 422 43 444 43 446 47 49 550 552 551 533 544 555 60 60 62 62 637 68 67 71 75 75 77 77 77 77 77 77 77 77 77 77 77	47 49 50 50 55 56 56 58 59 62 62 64 65 67 67 67 67 67 67 72 72 72 72 72 72 73 75 75 75 75 75 75 77 78 88 88 88 89 89 89 89 89 89 89 89 89 89	35 36 38 38 38 38 38 41 42 44 45 46 49 50 52 49 55 55 59 61 66 68 68 74 77 77 77 78 60 79 74 66 79 79 74 66 79 79 79 79 79 79 79 79 79 79 79 79 79	25 24 24 23 23 25 27 30 37 38 38 34 33 30 29 27 24 25 27 27 24 25 27 27 28 29 28 28 30 31 31 31 27 56 66 64 67 67 67 67 67 67 67 78 78 78 78 78 78 78 78 78 78 78 78 78	39 40 41 42 43 43 43 43 43 45 46 48 49 49 50 51 51 51 52 51 53 54 58 60 61 60 67 74 75 77 78 81 82 88 88 83 89 99 99 99	10 11 11 12 12 12 13 14 15 17 17 17 19 20 20 21 22 23 25 28 28 28 29 30 33 33 34 43 55 55 55 55 55 57 64 69 69 69 69 69 69 69 69 69 69 69 69 69
2000 2001 2002 2003 2004 2004 2005 2006 2007 2008 2009	97 97 95 97 101 100 99 102 103	98 97 99 100 98 100 102 103 103	95 95 91 95 104 100 95 102 104	103 110 106 99 104 100 106 92 88	94 95 94 97 102 100 101 101 104	90 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, 1950-2011

		m employr thousands						Select	ed indexe	es of inpu	t 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 1954 1956 1957 1956 1957 1958 1959 1960 1960 1961 1962 1963 1964 1965 1965 1966 1967 1970 1970 1971 1972 1973 1974 1977 1978 1977 1978 1979 1980 1970 1977 1978 1978 1979 1980 1988 1988 1988 1989 1980 1988 1989 1980 1990 1991 1992 1993 1993 1994 1995 1996 1997 1998 1999 2000 2001 2000 2001 2006 2007 2008 2006 2007 2008	9,283 8,653 7,7904 7,7893 7,7367 6,566 6,565 5,540 4,504 4,050 3,351 3,368 3,368 3,368 3,368 3,368 3,368 3,368 2,263 3,368 2,263 3,368 2,263 2,2	6,965 6,464 6,301 5,817 5,782 5,675 4,621 4,260 4,621 4,260 3,397 3,790 3,585 3,465 2,974 2,843 2,727 2,664 2,702 2,302 2,347 2,410 2,302 2,347 2,410 2,302 2,241 2,191 1,703 1,704 1,705	2,318 2,189 2,140 2,087 2,111 2,044 1,916 1,962 1,944 1,859 1,844 1,800 1,621 1,459 1,267 1,235 1,267 1,235 1,267 1,235 1,267 1,235 1,267 1,235 1,267 1,235 1,267 1,235 1,267 1,235 1,267 1,235 1,267 1,235 1,267 1,235 1,267 1,235 1,267 1,241 1,337 1,272 1,272 1,272 1,273 1,274 1,274 1,275	345 344 349 348 346 340 324 324 324 322 325 295 298 298 298 298 299 293 306 300 290 293 3355 294 321 321 326 337 345 338 348 345 338 348 345 337 345 338 348 342 325 327 327 325 327 327 325 327 327 327 327 327 327 327 327	99 100 100 100 100 100 100 100 100 100 1	120 122 124 125 126 126 126 126 126 127 123 123 123 123 124 124 124 125 125 127 129 130 131 131 132 123 124 124 125 127 129 130 130 130 130 130 130 130 130 130 130	84 94 102 107 113 115 116 115 117 111 111 111 111 111 111 111 113 114 115 118 118 119 119 119 119 119 119 119 119	388 373 365 343 343 335 276 260 2254 225 224 229 224 195 195 197 178 179 177 174 171 167 162 162 162 177 178 179 179 179 179 179 179 179 179 179 179	310 299 292 284 268 263 240 230 227 227 227 226 225 225 225 225 225 225 225	435 417 408 389 388 378 305 220 270 272 255 245 243 212 216 218 219 216 218 319 310 310 310 310 310 310 310 310 310 310	50 522 520 520 524 636 636 656 666 666 666 666 667 771 772 74 4 755 78 89 99 22 87 78 87 88 88 88 88 88 88 88 88 88 88	524 533 544 533 545 542 557 570 663 688 687 670 6777 676 6777 766 6777 766 6777 766 6777 767 677 6	811 844 888 89 92 92 92 92 93 94 95 97 97 98 99 90 100 101 101 132 132 132 132 132 132 132 133 133 102 103 104 104 105 105 105 105 105 105 105 105 105 105	30 28 28 28 26 26 27 29 27 28 22 29 27 28 22 29 27 28 29 29 27 28 29 29 29 29 29 29 29 29 29 29 29 29 29	56 56 57 56 57 61 63 74 71 70 69 67 68 68 69 72 69 67 64 68 68 68 68 69 70 73 73 87 87 81 82 78 83 81 95 100 95 100 100 100 100 100 100 100 100 100 10
2009 2010 2011 <i>P</i>	1,757	1,018	739	319 322 311	100	101	107	89	98	84	103	98	119	106	101

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

austics.

3 Data from national income and product accounts from Department of Commerce, Bureau of Economic Analysis.

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, 1975-2011

[1990-92=100, except as noted]

	Pric	es receive farmers	d by					Prices p	aid by fa	rmers					Adden-
				All				Prod	duction it	ems					dum: Average
Year or month	All farm prod- ucts	Crops	Live- stock and prod- ucts	com- 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	73 75 73 75 73 83 94 98 100 94 97 104 104 100 98 101 100 102 112 107 102 96 96 103 104 115 137 137 137 137 137 137 137 137 138 138 138 138 138 138 138 138 138 138	88 87 83 89 98 107 111 198 87 86 104 109 103 101 101 102 105 115 115 115 115 115 115 115	62 64 644 788 90 89 89 90 90 105 888 911 866 888 911 933 100 105 995 995 995 995 995 111 130 1300 1122 121 1222 127 128 1314 1344 1344 1344 1344	wage	555 59 67 766 85 92 94 86 87 90 95 100 101 104 106 115 119 113 113 111 115 120 124 132 140 188 180 186 186 186 186 186 186 186 186 186 186	83 83 83 89 98 99 99 99 107 112 95 88 88 83 104 1100 103 129 125 51 111 100 102 112 114 121 117 174 186 180 175 177 172 174 180 188 188	Try 3 39 47 48 655 88 88 80 78 88 76 73 39 102 96 104 94 88 95 1100 121 126 131 140 131 140 131 141 135 133 130 132	87 74 72 72 72 72 72 72 72 72 72 72 72 72 72		40 43 43 48 61 86 98 97 76 76 76 76 77 83 93 100 104 93 102 106 89 121 115 216 229 229 221 241 229 227 227 227 227 227 227 227 227 227	ery 38 843 437 451 566 633 700 766 881 885 883 889 94 100 104 107 113 1125 1288 1322 1355 1399 144 1488 1481 1162 173 182 191 1162 222 2300 2222 2300 2241 2266 2277 2288 2300 231 231 231 231 231 232	455666888888888888888888888888888888888	9 6 2 6 5 3 4 5	444 48 48 555 600 744 76 67 77 78 81 81 85 87 95 5 100 105 100	(dollars) 4 340 397 474 531 628 737 819 823 823 838 801 713 640 599 632 668 683 703 713 736 688 844 887 926 1,150 1,210 1,210 1,210 1,210 1,210 1,210 1,210 1,210 2,250
Nov Dec	154 153 166 171 173 176 175 179 180 184 179 184 176	172 170 189 200 198 200 203 208 206 210 203 203 206 191	134 137 144 152 156 152 153 155 158 158 157 157	187 189 196 198 201 204 204 205 205 205 206 205	194 197 204 207 212 215 215 216 216 217 216 218 217	195 200 204 212 212 223 228 229 229 235 237 225 223 221	134 142 151 155 159 149 146 151 147 146 155 164	276 286 305 304 318 326 327 329 333 331 330 343 346 350	144 144 145 145 145 144 144 145 145 148 149 147	299 309 320 335 363 379 382 371 369 366 365 357 366	235 235 237 238 239 240 241 241 241 242 244 245 246	161 161 165 165 166 166 167 168 168 168 167 167	191 191 203 203 203 203 203 203 203 203 203 203	192 192 195 195 195 189 189 189 189 193 193 193	

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 2010-2011.

TABLE B-102. U.S. exports and imports of agricultural commodities, 1950-2011

[Billions of dollars] Exports Imports Fruits. Cocoa cultural Oilseeds Animals Animals Year nuts beans Food trade Feed and and and Total 1 Total 1 and Coffee Cotton Tobacco and grains 2 balance prodprodgrains prodveg-etables ³ products ucts ucts 0.2 0.3 1950 0.2 .3 .3 .2 .3 .4 0.6 1.0 0.3 .2 .3 4.0 5.2 0.2 0.2 .2 .2 .2 1951 4.0 1.1 1952 3.4 .9 4.5 1.4 1953 2.8 .7 .5 .2 .5 .4 42 .2 .6 1.5 1.5 -1.3 -.9 1954 3 1 4 N 5 1955 3.2 6 .4 .5 .6 .7 .7 4.0 .5 .4 .2 .2 .2 .2 .2 -.8 .4 .3 .4 1.0 4.0 1957 1.0 .5 4 1959 39 .5 .8 .7 .4 .4 .5 .6 3.9 .2 .7 1.2 4 1 - 1 1959 4 0 1960 1.2 1.0 .4 .6 .6 3.8 1.0 1.0 4.8 .5 6. 6. .2 .6 .2 .2 .2 .2 .1 1.4 1961 .8 1.3 .5 .6 1.0 1.2 1962 5.0 .4 .4 .5 .5 .5 3.9 .2 1.5 1963 5.6 .8 8. .6.7.5.4.5.5.3 4 0 .9 1.0 1.6 .8 2.3 2.1 2.4 6.3 1.0 8 1964 41 .9 1.2 1.1 1.4 1.8 1.5 1.2 1.2 1.3 .3 1965 .8 .7 .7 6.9 1.3 4.5 1966 1.9 1967 4.4 .2 1968 6.2 .9 1.4 1.3 5.0 .6 1.3 1.2 12 q 8 1 0 1969 59 12 13 14 7.2 7.7 1.9 5.7 5.8 1.6 1.6 1.2 1.2 1.5 1.9 1970 1.4 .4 9 1.1 .5 .5 .7 .3 .2 .2 1.0 1971 .5 9. 2.9 1972 9.4 1.5 1.8 6.4 1.9 1.3 17.6 3.6 4.7 4 4 1.6 8.4 1.0 2.6 9.3 21.9 21.9 23.0 23.6 .5 .5 .6 1.0 197/ 47 5.4 5.8 1.8 10.2 1 0 22 1.6 117 .8 .9 .9 5.2 6.1 4.6 5.2 1.0 9.3 1.0 1.8 12.6 12.0 10.2 1975 2.4 2.4 2.9 1976 4.9 3.6 6.8 1.5 4.3 29.4 5.9 8.4 1.7 14.8 4 1 1.4 14.6 1979 34.7 7.7 6.3 9.4 2.2 1.2 3.8 16.7 3.9 42 1.2 18.0 1.3 1.5 1.5 7.9 9.6 2.9 3.8 3.5 3.7 23.9 26.6 1980 41.2 43.3 9.8 9.4 10.0 3.8 4.3 17.4 2.0 4.2 2.9 .9 .9 .7 1981 16.8 1982 36.6 6.4 7.9 9.8 2.0 4.0 15.2 2.8 2.9 21.4 9.4 1.5 2.8 3.8 1984 37.8 8 1 7.5 91 2.4 4.3 193 37 4 0 3.3 1.1 18.5 1.5 1.2 1.1 29.0 26.2 28.7 4.5 6.4 7.3 7.2 1.6 .8 1.6 4.1 3.3 4.6 2.9 9.1 1985 6.0 20.0 4.2 4.6 4.4 1986 3.8 3.8 20.4 4.8 1.2 8.3 1987 5.9 7.1 2.0 20.9 1.3 21.9 2.4 19894 40 N 77 64 22 64 48 5.1 1 0 18 2 39.5 39.4 43.2 1.4 1.4 1.6 6.6 7.0 7.9 5.5 5.4 5.5 1.9 1.9 1.7 1990 7.0 5.7 5.8 2.8 2.5 2.0 22.9 22.9 24.8 16.6 4.8 1991 6.4 16.5 18.5 1992 5.4 43.0 5.7 1.3 25.1 27.0 17.9 5.0 1.6 8.0 5.9 1.0 1994 46.2 47 5.3 2.6 1.3 6.0 1995 56.2 81 89 3.7 2.7 2.7 1.4 1.5 1.5 10.9 30.3 6.5 60 3.3 2.8 3.9 1 1 26.0 6.7 7.4 5.3 5.0 60.4 57.1 51.8 26.9 21.0 10.8 12.1 9.5 33.5 36.1 1996 94 6.0 7.8 6.5 2.6 1998 3.4 1.3 1999 48.4 5.5 4.7 8.1 1.0 10.4 37.7 9.3 7.3 2.9 1.5 10.7 51.3 53.7 53.1 1.2 1.3 1.0 12.3 2000 4.3 8.6 1.9 11.6 39.0 9.3 9.7 8.4 1.4 2001 2002 4.2 12.4 11.1 1.5 14.3 11.2 9.2 39.4 4.5 9.6 41.9 10.4 9.0 2003 59.4 5.4 5.0 3.4 1.0 12.2 47.4 8.9 2.0 2.4 12.0 11.6 61.4 6.4 4.2 1.0 10.4 54.0 10.6 2.3 2.5 2005 63.2 5.4 5.7 10.2 3.9 1.0 12.2 593 144 11.5 3 0 2.8 39 2006 2007 70.9 90.0 11.3 15.6 23.7 1.1 1.2 1.2 5.6 18.1 5.5 9.9 4.5 13.5 17.2 65.3 71.9 15.8 18.1 11.5 12.4 3.3 10.9 4.6 114.8 14.9 4.8 19.5 2009 9.4 24.1 3.3 1.2 18.0 71.7 18.9 10.1 4.1 3.5 98.5 2010 115.8 10.6 9.2 27.2 5.7 1.2 22.3 81.9 21.3 11.2 4.9 4.3 34.0 Jan-Nov:

2010

2011

103.3

124.6

95

13.4

8.3

12.5

23.7

23.6

48

11

1.0

20.2

746

90.5

193

21.9

10.2

11.2

44

39

28 7

34.0

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.

Less than \$50 million.

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, 1953-2011

[Millions of dollars; quarterly data seasonally adjusted. Credits (+), debits (-)]

-	Goods ¹			Services				Income re	eceipts and	payments	11.21.4	
Year or quarter	Exports	Imports	Balance on goods	Net military trans- actions ²	Net travel and trans- por- tation	Other services, net	Balance on goods and services	Receipts	Payments	Balance on income	Unilat- eral current trans- fers, net ²	Balance on current account
1953	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 1967	19,650 20,108 20,781 22,272 25,501 26,461 29,310 30,666 33,626 36,414	-14,758 -14,537 -16,260 -17,048 -18,700 -21,510 -25,493 -26,866 -32,991 -35,807	4,892 5,571 4,521 5,224 6,801 4,951 3,817 3,800 635 607	-1,057 -1,131 -912 -742 -794 -487 -1,043 -1,187 -596 -718	-964 -978 -1,152 -1,309 -1,146 -1,280 -1,331 -1,750 -1,548 -1,763	639 732 912 1,036 1,161 1,480 1,497 1,742 1,759 1,964	3,508 4,195 3,370 4,210 6,022 4,664 2,940 2,604 250 91	4,616 4,999 5,618 6,157 6,824 7,437 7,528 8,021 9,367 10,913	-1,238 -1,245 -1,324 -1,560 -1,783 -2,088 -2,481 -2,747 -3,378 -4,869	3,379 3,755 4,294 4,596 5,041 5,350 5,047 5,274 5,990 6,044	-4,062 -4,127 -4,277 -4,392 -4,240 -4,583 -4,955 -5,294 -5,629 -5,735	2,824 3,822 3,387 4,414 6,823 5,431 3,031 2,583 611 399
1970	42,469 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
1980 1981 1982 1983 1984 1985 1986 1987 1987	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 -338,088 -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 1998	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	784,781 731,189 697,439 729,816 821,986 911,686 1,039,406 1,163,957 1,307,499 1,069,491	-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 -1,575,400 -1,934,555	-445,787 -421,276 -474,491 -540,409 -663,507 -780,730 -835,689 -818,886 -830,109 -505,910 -645,857	-6,488 -8,324 -12,719 -17,060 -17,359 -15,594 -11,743 -10,826 -13,600 -13,863 -12,908	2,462 -3,389 -4,465 -12,451 -16,225 -14,549 -11,276 2,599 16,365 13,981 20,384	73,065 71,219 74,242 78,934 91,734 102,249 105,420 130,386 129,006 124,521 138,355	-376,749 -361,771 -417,432 -490,984 -605,356 -708,624 -753,288 -696,728 -698,338 -381,272 -500,027	352,478 292,430 282,701 322,411 415,793 537,339 684,620 833,834 813,903 599,495 663,240	-333,300 -262,702 -257,526 -278,721 -350,712 -468,748 -640,438 -732,349 -666,814 -471,494 -498,016	19,178 29,728 25,175 43,691 65,081 68,591 44,182 101,485 147,089 128,001 165,224	-58,767 -64,561 -64,990 -71,796 -88,243 -105,741 -91,515 -115,061 -125,885 -123,280 -136,095	-416,338 -396,603 -457,248 -519,089 -628,519 -745,774 -800,621 -710,303 -677,135 -376,551 -470,898
2010: 	304,572 315,954 325,514 342,659 361,544	-457,404 -481,912 -493,336 -501,904 -543,767	-043,637 -152,832 -165,958 -167,822 -159,245 -182,222	-3,409 -3,092 -3,077 -3,330 -3,339	4,834 5,039 4,678 5,831 5,844	31,765 33,486 35,109 37,996 39,746	-500,027 -119,642 -130,523 -131,113 -118,749 -139,972	158,857 165,030 167,115 172,239 180,258	-122,473 -121,859 -121,375 -132,309 -127,600	36,384 43,170 45,740 39,930 52,658	-35,034 -32,947 -34,754 -33,360 -32,277	-470,696 -118,292 -120,300 -120,127 -112,179 -119,591
	373,045 382,718	-563,609 -564,469	-190,564 -181,750	-3,071 -2,805	7,422 8,629	40,008 40,345	-146,205 -135,580	191,212 188,373	-134,276 -130,068	56,936 58,305	-35,449 -33,006	-124,719 -110,281

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, 1953-2011—Continued

[Millions of dollars; quarterly data seasonally adjusted. Credits (+), debits (-)]

					Financial			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	*	Statistical	discrepancy
Voor or quarter	Capital account	ex	J.Sowned a cluding finan crease/finan	cial derivativ	es	excluding	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 1954 1955 1956			1,256 480 182 –869								
1957 1958 1959			-1,165 2,292 1,035								
1960 1961 1962 1963		-4,099 -5,538 -4,174 -7,270	2,145 607 1,535 378	-1,100 -910 -1,085 -1,662	-5,144 -5,235 -4,623 -5,986	2,294 2,705 1,911 3,217	1,473 765 1,270 1,986	821 1,939 641 1,231		-1,019 -989 -1,124 -360	
1964 1965 1966		-9,560 -5,716 -7,321 -9,757	171 1,225 570 53	-1,680 -1,605 -1.543	-8,050 -5,336 -6,347	3,643 742 3,661	1,660 134 -672	1,983 607 4,333 3,928		-907 -457 629 -205	
1967 1968 1969 1970		-9,757 -10,977 -11,585 -9,337	-870 -1,179 2,481	-2,423 -2,274 -2,200 -1,589	-7,386 -7,833 -8,206 -10,229	7,379 9,928 12,702 7,226	3,451 -774 -1,301 7,775	10,703 14,002 -550		438 -1,516 -219	
1971 1972 1973		-12,475 -14,497 -22,874 -34,745	2,349 -4 158 -1,467	-1,884 -1,568 -2,644 366	-12,940 -12,925 -20,388 -33,643	23,687 22,171 18,388 35,227	27,596 11,185 6,026 10,546	-3,909 10,986 12,362 24,682		-9,779 -1,879 -2,654 -2,444	
1974 1975 1976 1977		-39,703 -51,269 -34,785	-849 -2,558 -375	-3,474 -4,214 -3,693	-35,380 -44,498 -30,717	16,870 37,839 52,770 66,275	7,027 17,693 36,816	9,843 20,147 15.954		4,717 9,134 –3,650	
1978 1979 1980		-61,130 -66,054 -86,967	732 -1,133 -8,155	-4,660 -3,746 -5,162	-57,202 -61,176 -73,651	40,693 62,037	33,678 -12,526 16,649	32,597 53,218 45,388		9,997 25,647 22,613	
1981 1982 1983 1984		-114,147 -127,882 -66,373 -40,376	-5,175 -4,965 -1,196 -3,131	-5,097 -6,131 -5,006 -5,489	-103,875 -116,786 -60,172 -31,757	85,684 95,056 87,399 116,048	6,053 3,593 5,845 3,140	79,631 91,464 81,554 112,908		23,433 38,362 17,666 18,672	
1985 1986 1987 1988 1989	-207	-44,752 -111,723 -79,296 -106,573 -175,383	-3,858 312 9,149 -3,912 -25,293	-2,821 -2,022 1,006 2,967 1,233	-38,074 -110,014 -89,450 -105,628 -151,323	144,231 228,330 247,100 244,833 222,777	-1,119 35,648 45,387 39,758 8,503	145,349 192,681 201,713 205,075 214,274		18,677 30,570 -7,149 -17,107 52,299	
1990 1991 1992	-7,220 -5,130 1,449	-81,234 -64,388 -74,410	-2,158 5,763 3,901	2,317 2,924 –1,667	-81,393 -73,075 -76,644	139,357 108,221 168,349	33,910 17,389 40,477	105,447 90,833 127,872		28,066 -41,601 -43,775	
1993 1994 1995 1996	-714 -1,111 -222 -7	-200,552 -178,937 -352,264 -413,409	-1,379 5,346 -9,742 6,668	-351 -390 -984 -989	-198,822 -183,893 -341,538 -419,088	279,758 303,174 435,102 547,885	71,753 39,583 109,880 126,724	208,005 263,591 325,222 421,161		6,314 -1,514 30,951 -9,705	
1997 1998 1999	-256 -8 -4,176	-485,475 -353,829 -504,062	-1,010 -6,783 8,747	68 -422 2,750	-484,533 -346,624 -515,559	704,452 420,794 742,210	19,036 -19,903 43,543	685,416 440,697 698,667		-77,995 148,105 67,684	
2000 2001 2002 2003	-1 13,198 -141 -1,821	-560,523 -382,616 -294,646 -325,424	-290 -4,911 -3,681 1,523	-941 -486 345 537	-559,292 -377,219 -291,310 -327,484	1,038,224 782,870 795,161 858,303	42,758 28,059 115,945 278,069	995,466 754,811 679,216 580,234		-61,361 -16,849 -43,126 -11,969	
2004	3,049 13,116 -1,788 384 6,010 -140	-1,000,870 -546,631 -1,285,729 -1,453,604 332,109 -139,330	2,805 14,096 2,374 -122 -4,848 -52,256	1,710 5,539 5,346 –22,273 –529,615 541,342	-1,005,385 -566,266 -1,293,449 -1,431,209 866,571 -628,417	1,533,201 1,247,347 2,065,169 2,064,642 431,406 335,793	397,755 259,268 487,939 481,043 554,634 480,237	1,135,446 988,079 1,577,230 1,583,599 –123,228 –144,444	29,710 6,222 –32,947 49,456	93,138 31,942 -6,742 92,660 -59,443 130,773	
2010: I	-140 -152 -3 -2 -146	-139,330 -1,005,182 -313,010 -168,537 -286,834	-52,256 -1,834 -773 -165 -1,096	7,540 9,433 –2,441 788	-026,417 -1,010,888 -321,669 -165,931 -286,526	1,245,736 329,340 186,636 463,115	349,754 89,751 66,736 135,477	895,982 239,589 119,900 327,638	13,735 16,152 9,980 –11,893	216,761 85,813 92,223 -44,116	13,688 -6,531 -21,959
2011: 	-140 -2 -29 -829 0	-236,802 -334,359 25,115 -70,833	-1,030 200 -3,619 -6,267 -4,079	-240 -547 -1,358 -1,265	-236,762 -236,762 -330,193 32,740 -65,490	266,646 487,194 2,767 254,742	57,790 48,764 95,143 24,371	208,856 438,430 -92,376 230,371	7,504 3,220 7,504	-36,436 -36,436 90,161 -73,627	14,802 14,497 -5,740 -24,678

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.

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

Table B–104. U.S. international trade in goods by principal end-use category, 1965–2011 [Billions of dollars; quarterly data seasonally adjusted]

				Exports						-	Imports			
				Nonagr	icultural p	roducts					Nonpe	troleum pro	oducts	
Year or quarter	Total	Agri- cultural prod- ucts	Total	Indus- trial sup- plies and materi- als	Capital goods except auto- motive	Auto- motive	Other	Total	Petro- leum and prod- ucts	Total	Indus- trial sup- plies and materi- als	Capital goods except auto- motive	Auto- motive	Other
1965 1966 1967 1968 1969	26.5 29.3 30.7 33.6 36.4	6.3 6.9 6.5 6.3 6.1	20.2 22.4 24.2 27.3 30.3	7.6 8.2 8.5 9.6 10.3	8.1 8.9 9.9 11.1 12.4	1.9 2.4 2.8 3.5 3.9	2.6 2.9 3.0 3.2 3.7	21.5 25.5 26.9 33.0 35.8	2.0 2.1 2.1 2.4 2.6	19.5 23.4 24.8 30.6 33.2	9.1 10.2 10.0 12.0 11.8	1.5 2.2 2.5 2.8 3.4	0.9 1.8 2.4 4.0 4.9	8.0 9.2 9.9 11.8 13.0
1970 1971 1972 1973 1974 1975 1976 1977 1977 1978	42.5 43.3 49.4 71.4 98.3 107.1 114.7 120.8 142.1 184.4	7.4 7.8 9.5 18.0 22.4 22.2 23.4 24.3 29.9 35.5	35.1 35.5 39.9 53.4 75.9 84.8 91.4 96.5 112.2 149.0	12.3 10.9 11.9 17.0 26.3 26.8 28.4 29.8 34.2 52.2	14.7 15.4 16.9 22.0 30.9 36.6 39.1 39.8 47.5 60.2	3.9 4.7 5.5 6.9 8.6 10.6 12.1 13.4 15.2 17.9	4.3 4.5 5.6 7.6 10.0 10.8 11.7 13.5 15.3 18.7	39.9 45.6 55.8 70.5 103.8 98.2 124.2 151.9 176.0 212.0	2.9 3.7 4.7 8.4 26.6 27.0 34.6 45.0 42.6 60.4	36.9 41.9 51.1 62.1 77.2 71.2 89.7 106.9 133.4 151.6	12.4 13.8 16.3 19.6 27.8 24.0 29.8 35.7 40.7 47.5	4.0 4.3 5.9 8.3 9.8 10.2 12.3 14.0 19.3 24.6	5.5 7.4 8.7 10.3 12.0 11.7 16.2 18.6 25.0 26.6	15.0 16.4 20.2 23.9 27.5 25.3 31.4 38.6 48.4 52.8
1980	224.3 237.0 211.2 201.8 219.9 215.9 223.3 250.2 320.2 359.9	42.0 44.1 37.3 37.1 38.4 29.6 27.2 29.8 38.8 41.1	182.2 193.0 173.9 164.7 181.5 186.3 196.2 220.4 281.4 318.8	65.1 63.6 57.7 52.7 56.8 54.8 59.4 63.7 82.6 90.5	76.3 84.2 76.5 71.7 77.0 79.3 82.8 92.7 119.1 136.9	17.4 19.7 17.2 18.5 22.4 24.9 25.1 27.6 33.4 35.1	23.4 25.5 22.4 21.8 25.3 27.2 28.9 36.4 46.3 56.3	249.8 265.1 247.6 268.9 332.4 338.1 368.4 409.8 447.2 477.7	79.5 78.4 62.0 55.1 58.1 51.4 34.3 42.9 39.6 50.9	170.2 186.7 185.7 213.8 274.4 286.7 334.1 366.8 407.6 426.8	53.0 56.1 48.6 53.7 66.1 62.6 69.9 70.8 83.1 84.6	31.6 37.1 38.4 43.7 60.4 61.3 72.0 85.1 102.2 112.3	28.3 31.0 34.3 43.0 56.5 64.9 78.1 85.2 87.9	57.4 62.4 64.3 73.3 91.4 97.9 114.2 125.7 134.4 142.5
1990 1991 1992 1993 1994 1995 1996 1997 1998	387.4 414.1 439.6 456.9 502.9 575.2 612.1 678.4 670.4 698.2	40.2 40.1 44.1 43.6 47.1 57.2 61.5 58.5 53.2 49.7	347.2 374.0 395.6 413.3 455.8 518.0 550.6 619.9 617.3 648.6	97.0 101.6 101.7 105.1 112.7 135.6 138.7 148.6 139.4 143.7	153.0 166.6 176.4 182.7 205.7 234.4 254.0 295.8 299.8 311.2	36.2 39.9 46.9 51.6 57.5 61.4 64.4 73.4 72.5 75.3	61.0 65.9 70.6 74.0 79.9 86.5 93.6 102.0 105.5 118.4	498.4 491.0 536.5 589.4 668.7 749.4 803.1 876.8 918.6 1,034.4	62.3 51.7 51.6 51.5 51.3 56.0 72.7 71.8 50.9 72.1	436.1 439.3 484.9 537.9 617.4 693.3 730.4 805.0 867.7 962.3	83.0 81.3 89.1 100.8 113.6 128.5 136.1 144.9 151.6	116.4 121.1 134.8 153.2 185.0 222.1 228.4 253.6 269.8 296.1	88.2 85.5 91.5 102.1 118.1 123.7 128.7 139.4 148.6 178.2	148.5 151.4 169.6 182.0 200.6 219.0 237.1 267.1 297.7 330.1
2000 2001 2002 2003 2004 2005 2006 2007 2008 2009	784.8 731.2 697.4 729.8 822.0 911.7 1,039.4 1,164.0 1,307.5 1,069.5	52.8 54.9 54.5 60.9 62.9 64.9 72.9 92.1 118.0	732.0 676.3 642.9 668.9 759.0 846.8 966.5 1,071.8 1,189.5 968.5	168.4 154.6 151.4 167.5 199.1 230.8 275.0 315.5 389.5 294.5	357.0 321.7 290.4 293.7 327.5 358.4 404.0 433.0 457.7 390.5	80.4 75.4 78.9 80.6 89.2 98.4 107.3 121.3 121.5 81.7	126.3 124.5 122.1 127.1 143.2 159.2 180.2 202.1 220.9 201.9	1,230.6 1,152.5 1,171.9 1,270.2 1,485.5 1,692.4 1,875.1 1,982.8 2,137.6 1,575.4	126.1 109.4 109.3 140.4 189.9 263.2 316.7 346.7 476.1 267.7	1,104.4 1,043.0 1,062.7 1,129.8 1,295.6 1,429.2 1,558.4 1,636.2 1,661.5	183.5 174.1 166.3 183.2 234.5 274.9 302.5 310.8 335.5 211.1	347.7 299.2 284.9 297.6 346.1 382.8 422.6 449.1 458.7 372.7	195.0 188.7 202.8 209.2 227.3 238.7 256.0 258.5 233.2 159.2	378.3 381.1 408.6 439.8 487.6 532.8 577.3 617.8 634.1 564.8
2010 2008: I II IV	1,288.7 323.4 342.6 346.9 294.6	119.0 29.2 31.6 31.5 25.6	1,169.7 294.1 311.0 315.4 269.0	388.0 95.2 105.2 107.9 81.3	446.6 113.6 117.7 118.3 108.0	30.6 31.6 32.6 26.7	223.1 54.8 56.5 56.7 52.9	1,934.6 539.4 562.6 565.9 469.8	353.7 117.3 130.0 138.6 90.3	1,580.8 422.2 432.5 427.3 379.5	270.1 82.8 87.8 91.1 73.7	450.0 116.2 119.1 116.6 106.7	225.6 64.5 63.1 57.3 48.3	635.2 158.6 162.4 162.3 150.7
2009: 	254.4 253.9 270.3 290.9	23.4 25.6 25.1 27.0	231.0 228.3 245.2 263.9	66.2 68.3 77.3 82.6	98.2 93.9 95.9 102.4	17.2 17.0 22.1 25.4	49.4 49.1 49.9 53.5	376.7 365.8 399.8 433.1	55.0 60.1 73.1 79.6	321.7 305.7 326.7 353.5	55.5 47.4 50.7 57.5	92.8 87.9 92.4 99.6	32.8 32.2 43.7 50.4	140.6 138.3 139.9 146.0
2010: 	304.6 316.0 325.5 342.7	28.8 27.1 29.0 34.0	275.8 288.8 296.5 308.7	89.6 96.3 97.7 104.5	105.6 110.4 114.1 116.6	26.8 27.8 28.4 29.0	53.9 54.3 56.3 58.6	457.4 481.9 493.3 501.9	88.2 89.1 86.9 89.5	369.2 392.8 406.4 412.4	64.1 67.6 68.2 70.3	102.4 111.5 116.2 119.9	51.7 56.2 59.1 58.6	151.0 157.5 163.0 163.7
2011: <i>P</i>	361.5 373.0 382.7	37.1 35.8 33.1	324.4 337.2 349.6	117.1 123.2 129.5	117.6 122.2 125.6	32.0 32.2 34.5	57.6 59.6 60.1	543.8 563.6 564.5	111.3 120.0 114.4	432.4 443.6 450.0	76.6 82.5 83.3	123.4 128.6 129.2	64.0 58.2 66.8	168.4 174.3 170.8

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.

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

TABLE B-105. U.S. international trade in goods by area, 2003-2011

[Millions of dollars]

		[IVIIIIIon	s of dollar	S]					
ltem	2003	2004	2005	2006	2007	2008	2009	2010	2011 first 3 quarters at annual rate 1
EXPORTS									
Total, all countries	729,816	821,986	911,686	1,039,406	1,163,957	1,307,499	1,069,491	1,288,699	1,489,743
Éurope Euro area ²	175,033 114,263	194,296 127,373	213,452 138,294	247,642 156,150	288,916 180,691	331,868 203,542	263,849 164,895	289,463 178,055	334,845 197,749
France	17,257	21,157	22,612	24,009	27,217	29,681	26,987	27,365	28,959
Germany	29,018 10.569	31,782 10,903	34,874 11.627	41,919 12,750	50,115 14,372	55,322 15,755	43,943 12,427	48,523 14,387	49,191 16,397
Italy United Kingdom	33,979	36,158	38,870	45,673	51,104	54,873	46,823	49,027	57,497
Canada Latin America and Other Western Hemisphere	169,992	190,042	212,340	231,346	249,819	262,282	205,457	250,132	283,775
Brazil	149,699 11,224	172,629 13,870	193,679 15,343	223,288 19,008	243,863 24,304	289,785 32,435	239,204 26,085	302,768 35,341	364,011 42,736
Mexico	97,467	110,837	120,444	133,998	136,166	151,610	129,078	163,398	196,323
Venezuela	2,842 203,880	4,788 226,576	6,439 244,220	9,017 280,513	10,218 312,005	12,638 339,342	9,337	10,648 369,034	11,985 414,037
China	28,646	34,833	41,874	54,813	64,313	71,346	70,631	93,014	101,069
India	5,040 51,805	6,170 53,458	8,014 54,817	9,775 59,276	15,048 62,796	17,845 67,178	16,479 52,937	19,334 61,537	21,537 67,129
Korea, Republic of	24,851	26,835	28,639	33,515	35,874	36,746	29,703	39,795	45,472
Japan Korea, Republic of Singapore Taiwan	16,569 17,847	19,606 22,264	20,755 22,794	24,172 23,817	25,932 26,854	28,576 26,177	22,648 19,387	29,108 26,762	31,852 27.817
Middle East	19,913	24.357	32,151	37.754	45.533	55.755	44.921	48.899	58.237
Africa	11,299	14,086	15,844	18,863	23,817	28,468	24,577	28,402	34,837
Memorandum: Members of OPEC ³	17,463	22,570	31,781	39,265	48,757	65,386	50,419	54,533	63,051
IMPORTS									
Total, all countries	1,270,225 287,020	1,485,492 323,567	1,692,416 358,581	1,875,095 386.870	1,982,843 414,509	2,137,608 446,750	1,575,400 333.052	1,934,555 385,293	2,229,127 450,079
Éurope Euro area ²	189,121	211,259	231,450	248,580	270,765	281,395	213,846	244,296	287,083
France Germany	29,394	31,830	34,210 85,321	37,431 89,613	41,865 94,792	44,556 98,299	34,382 71,678	38,703 82,852	39,583 97,697
Italy	68,311 25,501	77,556 28,239	31,226	32,869	35,268	36,567	26,686	28,768	34,231
United Kingdom	42,984	46,418	51,469	54,087	57,215	59,418	47,776	50,699	51,264
Canada Latin America and Other Western Hemisphere	224,336 219.280	259,377 257,925	293,960 297,364	305,822 337,128	319,498 351,251	341,640 382,247	227,175 288.626	281,851 365.031	323,237 441.493
Brazil	17,989	21,250	24,571	337,128 26,547	25,831	30,719	20,208	24,201	30,039
Mexico Venezuela	140,005 17,152	158,598 24,946	173,771 34,006	202,434 37,206	215,350 39,997	220,856 51,531	179,788 28,149	232,719 32,825	267,053 44,521
Asia and Pacific	465,210	546,224	614,121	691,217	725,995	738,752	603,545	740,863	812,872
ChinaIndia	152,974 13,091	197,456 15,625	244,699 18,896	289,246 21,969	322,975 24,233	339,580 25,888	297,795 21,335	366,052 29,680	394,377 37,000
Japan	119,335	131,500	140.380	150.847	148,271	142,393	97,754	122,876	127.501
Korea, Republic ofSingapore	37,671 15,426	46,757 15,713	44,142 15,556	46,386 18,381	48,648 18,919	49,312 16,873	39,918 16,317	49,533 18,451	58,175 20,561
Taiwan	32,292	35,193	35,350	38,699	38,814	36,857	28,723	35,966	42,377
Middle East	42,315	52,721	63,112	73,523	79,473	114,613	60,502	76,270	104,620
Africa Memorandum: Members of OPEC 3	32,062 69,007	45,678 95,215	65,278 125,501	80,535 146,507	92,116 176,145	113,605 245,143	62,501 113,100	85,248 151,466	96,828 195,463
BALANCE (excess of exports +)									
Total all countries	-540,409	-663,507	-780,730	-835,689	-818,886	-830,109	-505,910	-645,857	-739,381
Europe Euro area ²	-111,987	-129,271 -83,887	-145,129 -93,156	-139,228 -92,430	-125,593 -90,074	-114,882	-69,203 -48,951	-95,829	-115,233
France	-74,857 -12,137	-10.674	-11.598	-13,422	-14,649	-77,853 -14,875	-7.394	-66,240 -11,338 -34,328	-89,333 -10,624
Germany	-39,293 -14,932	-45,774 -17,336	-50,447 -19,599	-47,694 -20,119	-44,677 -20.896	-42,977 -20.812	-27,736 -14,259	-34,328 -14.382	-48,507 -17.833
Italy United Kingdom	-9,005	-10,260	-12,599	-8,414	-20,636 -6,110	-20,612 -4,545	-14,255 -954	-1,672	6,232
Canada Latin America and Other Western Hemisphere	-54,344	-69,335	-81,620	-74,476	-69,679	-79,359	-21,718	-31,719	-39,464
Latin America and Uther Western Hemisphere Brazil	-69,581 -6,765	-85,297 -7,380	-103,685 -9,228	-113,839 -7,539	-107,388 -1,528	-92,462 1,716	-49,422 5,877	-62,263 11,140	-77,480 12,699
Mexico	-42,538	-47,761	-53,327	-68,436	-79,184	-69,246	-50,711	-69,322	-70,731
Venezuela Asia and Pacific	-14,310 -261.331	-20,157 -319,648	-27,567 -369,901	-28,189 -410,705	-29,779 -413.990	-38,893 -399,410	-18,812 -312,062	-22,178 -371.829	-32,537 -398.833
China	-124,328	-162,623	-202,825	-234,433	-258,662	-268,234	-227,164	-273.038	-293,308
India	-8,052 -67,531	-9,455 79,042	-10,882	-12,194	-9,185 -85,475	-8,043 -75,214	-4,856 -44,817	-10,346 -61,339	-15,463
Japan Korea, Republic of	-12,821	-78,042 -19,922	-85,562 -15,503	-91,571 -12,872	-12,774	-12,566	-10,215	-9,739	-60,372 -12,703
Singapore Taiwan	1,143 -14,445	3,893 -12,928	5,199 -12,555	5,791 -14,883	7,013 -11,959	11,703 -10,680	6,331 -9,335	10,657 -9,204	11,291 -14,560
Middle East	-22,402	-12,926	-30,961	-35,769	-33,940	-58,859	-15,581	-27,371	-14,360 -46,383
Δfrica	-20,763	-31,593	-49,434	-61,672	-68,298	-85,137	-37,923	-56,846	-61,989
Memorandum: Members of OPEC 3	-51,544	-72,645	-93,720	-107,242	-127,389	-179,757	-62,680	-96,933	-132,411

Note: Data are on a balance of payments basis. For further details, and additional data by country, see Survey of Current Business, January 2012. 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), Netherlands, Portugal, Slovakia (beginning in 2009), Slovenia (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, 1983-2011

[Billions of dollars; monthly data seasonally adjusted]

	Goods: Exports (f.a.s. value) 1, 2							Goods: Imports (customs value) ⁶					Sen (BOP	vices basis)		
		C	ensus ba	sis (by e	nd-use c	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
1983 1984 1985 1986 1987 1988	201.8 219.9 215.9 223.3 250.2 320.2 359.9	205.6 224.0 8218.8 8277.2 254.1 322.4 363.8	30.9 31.5 24.0 22.3 24.3 32.3 37.2	56.7 61.7 58.5 57.3 66.7 85.1 99.3	67.2 72.0 73.9 75.8 86.2 109.2 138.8	16.8 20.6 22.9 21.7 24.6 29.3 34.8	13.4 13.3 12.6 14.2 17.7 23.1 36.4	268.9 332.4 338.1 368.4 409.8 447.2 477.7	258.0 7330.7 7336.5 365.4 406.2 441.0 473.2	18.2 21.0 21.9 24.4 24.8 24.8 25.1	107.0 123.7 113.9 101.3 111.0 118.3 132.3	40.9 59.8 65.1 71.8 84.5 101.4 113.3	40.8 53.5 66.8 78.2 85.2 87.7 86.1	44.9 60.0 68.3 79.4 88.7 95.9 102.9	64.3 71.2 73.2 86.7 98.7 110.9 127.1	55.0 67.7 72.9 80.1 90.8 98.5 102.5
1990	387.4 414.1 439.6 456.9 502.9 575.2 612.1 678.4 670.4 698.2	393.6 421.7 448.2 465.1 512.6 584.7 625.1 689.2 682.1 695.8	35.1 35.7 40.3 40.6 42.0 50.5 55.5 51.5 46.4 46.0	104.4 109.7 109.1 111.8 121.4 146.2 147.7 158.2 148.3 147.5	152.7 166.7 175.9 181.7 205.0 233.0 253.0 294.5 299.4 310.8	37.4 40.0 47.0 52.4 57.8 61.8 65.0 74.0 72.4 75.3	43.3 45.9 51.4 54.7 60.0 64.4 70.1 77.4 80.3 80.9	498.4 491.0 536.5 589.4 668.7 749.4 803.1 876.8 918.6 1,034.4	495.3 488.5 532.7 580.7 663.3 743.5 795.3 869.7 911.9 1,024.6	26.6 26.5 27.6 27.9 31.0 33.2 35.7 39.7 41.2 43.6	143.2 131.6 138.6 145.6 162.0 181.8 204.5 213.8 200.1 221.4	116.4 120.7 134.3 152.4 184.4 221.4 228.1 253.3 269.5 295.7	87.3 85.7 91.8 102.4 118.3 123.8 128.9 139.8 148.7 179.0	105.7 108.0 122.7 134.0 146.3 159.9 172.0 193.8 217.0 241.9	147.8 164.3 177.3 185.9 200.4 219.2 239.5 256.1 262.8 268.8	117.7 118.5 119.6 123.8 133.1 141.4 152.6 165.9 180.7
2000 2001 2002 2003 2004 2005 2006 2007 2008	784.8 731.2 697.4 729.8 822.0 911.7 1,039.4 1,164.0 1,307.5	781.9 729.1 693.1 724.8 814.9 901.1 1,026.0 1,148.2 1,287.4	47.9 49.4 49.6 55.0 56.6 59.0 66.0 84.3 108.3 93.9	172.6 160.1 156.8 173.0 203.9 233.0 276.0 316.4 388.0 296.7	356.9 321.7 290.4 293.7 327.5 358.4 404.0 433.0 457.7 390.5	80.4 75.4 78.9 80.6 89.2 98.4 107.3 121.3 121.5 81.7	89.4 88.3 84.4 89.9 103.2 115.3 129.1 146.0 161.3	1,230.6 1,152.5 1,171.9 1,270.2 1,485.5 1,692.4 1,875.1 1,982.8 2,137.6 1,575.4	1,218.0 1,141.0 1,161.4 1,257.1 1,469.7 1,673.5 1,853.9 1,957.0 2,103.6 1,559.6	46.0 46.6 49.7 55.8 62.1 68.1 74.9 81.7 89.0 81.6	299.0 273.9 267.7 313.8 412.8 523.8 602.0 634.7 779.5 462.5	347.0 298.0 283.3 295.9 343.6 379.3 418.3 444.5 453.7 369.3	195.9 189.8 203.7 210.1 228.2 239.4 256.6 256.7 231.2	281.8 284.3 307.8 333.9 372.9 407.2 442.6 474.6 481.6 428.4	288.0 276.5 283.4 293.7 341.2 375.8 420.4 490.6 535.2 505.5	219.0 217.0 226.4 244.3 283.0 303.6 338.0 368.4 403.4 380.9
2010	1,288.7 99.6 100.3 104.7 103.9 106.7 105.3 108.3 108.5 108.8 112.6 113.8	1,278.3 98.6 99.3 104.0 103.0 105.7 104.5 107.5 107.6 108.1 112.0 112.7	107.7 8.8 8.7 8.7 8.3 8.2 8.0 8.1 9.0 9.4 10.1 10.2 10.3	391.7 29.1 29.5 31.6 32.2 32.8 32.0 32.7 33.3 32.6 34.5 35.1 36.3	446.6 34.5 35.1 35.9 36.0 37.6 36.8 38.7 37.5 37.9 38.5 39.6	112.0 8.8 9.0 9.0 9.2 9.2 9.4 9.5 9.5 9.8 9.4 9.8	165.9 13.6 13.1 13.9 13.1 13.6 13.6 13.8 13.9 14.1 15.0 14.6	1,934.6 148.5 151.7 157.1 156.6 161.0 164.3 162.0 166.1 165.2 164.9 166.3 170.7	1,913.2 146.8 150.0 155.4 155.0 159.3 162.4 160.3 164.3 163.4 163.0 164.4 168.7	91.7 7.2 7.2 7.4 7.5 7.6 7.7 7.7 7.8 7.9 7.8 7.9 8.1	602.7 47.2 48.9 51.2 51.4 50.3 49.6 49.5 50.2 50.1 49.1 50.7 54.5	449.2 33.6 34.0 34.6 36.1 37.5 37.8 37.6 38.6 39.8 39.2 40.3 40.0	225.0 17.1 16.4 18.1 17.5 19.1 19.5 19.4 20.2 19.3 19.5 19.4 19.6	483.3 36.7 38.4 39.0 37.8 40.0 42.6 41.1 42.2 41.3 42.2 40.8 41.2	548.9 44.0 43.7 44.2 43.8 45.4 46.0 46.4 46.9 46.9 47.4 47.7	403.0 32.6 33.2 32.9 32.6 33.9 34.3 34.3 34.3 34.4 34.1 33.8 33.7
2011: Jan Feb Apr Apr June July Aug Sept Oct Nov P	119.5 117.4 124.6 126.6 125.3 121.2 126.8 126.7 129.3 128.1 126.6	118.1 115.7 122.9 125.1 123.8 119.7 125.4 127.7 126.7 125.1	10.4 10.5 11.2 11.0 11.0 10.1 10.3 10.3 10.2 10.1	39.6 38.7 41.3 43.4 41.5 39.5 42.2 43.0 44.4 43.1 41.4	38.9 39.8 41.0 41.4 39.9 42.1 41.7 41.8 42.3	10.8 9.9 11.3 10.6 10.8 10.8 12.1 11.1 11.3 11.2 11.0	14.1 13.8 14.5 14.7 14.3 15.1 14.4 14.7 15.4 14.9	181.1 177.1 185.6 184.7 190.7 188.3 188.0 187.6 188.8 186.6 189.7	179.0 174.8 183.3 182.4 188.1 185.7 185.7 185.2 186.2 184.1 187.5	8.4 8.6 9.0 9.1 9.2 8.9 9.2 9.4 9.3	59.8 57.6 64.4 63.0 67.6 65.0 62.7 63.5 64.6 61.0 63.8	42.0 39.8 41.2 41.9 43.2 43.0 43.2 42.9 42.5 43.7 43.8	22.0 20.0 21.9 19.1 19.6 19.4 22.7 21.7 22.3 21.5 22.3	42.0 44.0 41.9 44.0 43.3 43.3 43.3 42.4 42.4 43.2 42.5	48.3 48.3 49.4 49.7 50.5 50.6 51.0 51.4 51.3	34.6 34.3 34.8 35.2 35.6 35.6 35.7 36.0 36.0 35.9

¹ 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.

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).

through 1985 and included beginning 1986.

2 F.a.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 arrivals of imported nonds other than in-transit shipments.

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, 2004-2010 [Millions of dollars]

	[IVIIIIIVI]	dollaroj					
Type of investment	2004	2005	2006	2007	2008	2009	2010 P
NET INTERNATIONAL INVESTMENT POSITION OF THE UNITED STATES	-2,253,026	-1.932.149	-2.191.653	-1.796.005	-3.260.158	-2.396.426	-2.470.989
Financial derivatives, net ¹		57,915	59,836	71,472	159,635	134,749	110,421
Net international investment position, excluding financial		07,010	00,000	, , , , , ,	100,000	10 1,7 10	110,121
derivatives	-2,253,026	-1,990,064	-2,251,489	-1,867,477	-3,419,793	-2,531,175	-2,581,410
U.SOWNED ASSETS ABROAD	9,340,634	11,961,552	14,428,137	18,399,676	19,464,717	18,487,042	20,315,359
Financial derivatives, gross positive fair value 1		1,190,029	1,238,995	2,559,332	6,127,450	3,500,786	3,652,909
U.Sowned assets abroad, excluding financial derivatives	9,340,634	10,771,523	13,189,142	15,840,344	13,337,267	14,986,256	16,662,450
U.S. official reserve assets	189,591	188,043	219,853	277,211	293,732	403,804	488,673
Gold ²	113,947	134,175	165,267	218,025	227,439	284,380	367,537
Special drawing rights Reserve position in the International Monetary Fund	13,628 19,544	8,210 8,036	8,870 5,040	9,476 4,244	9,340 7,683	57,814 11,385	56,824 12,492
Foreign currencies	42,472	37,622	40,676	45,466	49,270	50,225	51,820
	83.062	77.523			624.099	82,774	75.235
U.S. Government assets, other than official reserve assets U.S. credits and other long-term assets ³	80,308	76,960	72,189 71,635	94,471 70,015	69,877	71,830	75,235
Repayable in dollars	80.035	76,687	71,033	69,742	69,604	71,650	74,333
Other 4	273	273	273	273	273	273	273
U.S. foreign currency holdings and U.S. short-term							
assets ⁵	2,754	563	554	24,456	554,222	10,944	836
U.S. private assets	9,067,981	10,505,957	12,897,100	15,468,662	12,419,436	14,499,678	16,098,542
Direct investment at current cost	2,498,494	2,651,721	2,948,172	3,553,095	3,748,512	4,067,501	4,429,426
Foreign securities	3,545,396	4,329,259	5,604,475	6,835,079	3,985,712	5,565,636	6,222,864
Bonds Corporate stocks	984,978 2,560,418	1,011,554 3,317,705	1,275,515 4,328,960	1,587,089 5,247,990	1,237,284 2,748,428	1,570,341 3,995,295	1,737,271 4,485,593
U.S. claims on unaffiliated foreigners reported by U.S.	2,300,410	3,317,703	4,320,300	3,247,330	2,740,420	3,333,233	4,400,000
nonbanking concerns ⁶ U.S. claims reported by U.S. banks and securities	793,556	1,018,462	1,184,073	1,233,341	930,909	861,914	873,667
U.S. claims reported by U.S. banks and securities brokers, not included elsewhere	2,230,535	2,506,515	3,160,380	3,847,147	3,754,303	4,004,627	4,572,585
brokers, not included disconners	2,200,000	2,000,010	0,100,000	0,017,117	0,701,000	1,001,027	1,072,000
FOREIGN-OWNED ASSETS IN THE UNITED STATES	11,593,660	13,893,701	16,619,790	20,195,681	22,724,875	20,883,468	22,786,348
Financial derivatives, gross negative fair value ¹ Foreign-owned assets in the United States, excluding		1,132,114	1,179,159	2,487,860	5,967,815	3,366,037	3,542,488
financial derivatives	11,593,660	12,761,587	15,440,631	17,707,821	16,757,060	17,517,431	19,243,860
Foreign official assets in the United States	2,019,508 1,509,986	2,313,295 1.725,193	2,832,999 2,167,112	3,411,831 2,540,062	3,943,862 3,264,139	4,402,762 3,588,574	4,863,623 3.957.204
U.S. Treasury securities	1,251,943	1,725,193	1.558.317	1.736.687	2.400.516	2.879.611	3,320,694
Other	258.043	384,595	608,795	803,375	863,623	708,963	636.510
Other U.S. Government liabilities 7	23,896	22,869	26,053	31,860	40,694	99,095	110,243
U.S. liabilities reported by U.S. banks and securities							
brokers, not included elsewhere	270,387	296,647	297,012	406,031	256,355	187,482	178,107
Other foreign official assets	215,239	268,586	342,822	433,878	382,674	527,611	618,069
Other foreign assets	9,574,152	10,448,292	12,607,632	14,295,990	12,813,198	13,114,669	14,380,237
Direct investment at current cost	1,742,716	1,905,979	2,154,062	2,345,923	2,397,396	2,441,705	2,658,932
U.S. Treasury securities	561,610	643,793	567,861	639,755	852,458	791,765	1,064,594
U.S. securities other than U.S. Treasury securities	3,995,506	4,352,998	5,372,339	6,190,018	4,620,661	5,319,867	5,860,093
Corporate and other bonds	2,035,149 1,960,357	2,243,135 2,109,863	2,824,871 2,547,468	3,289,070 2,900,948	2,770,606 1,850,055	2,825,591 2.494.276	2,868,460 2.991.633
U.S. currency	271,953	280,400	282,627	2,900,946	301,139	313,771	342,090
U.S. liabilities to unaffiliated foreigners reported by U.S.	271,000	200,400	202,021	271,002	301,133	313,771	342,030
nonbanking concerns	600,161	658,177	799,471	863,140	740,553	707,401	747,795
U.S. liabilities reported by U.S. banks and securities brokers, not included elsewhere	2,402,206	2,606,945	3,431,272	3,985,202	3,900,991	3,540,160	3,706,733
Memoranda:	_, .52,250	_,,_,	-, , ,	-,0,202	-,0,001	-,0,.00	-,. 30,, 00
Direct investment abroad at market value	3,362,796	3,637,996	4,470,343	5,274,991	3,102,418	4,330,914	4,843,325
Direct investment in the United States at market value	2,717,383	2,817,970	3,293,053	3,551,307	2,486,446	3,026,781	3,451,405

¹ A break in series in 2005 reflects the introduction of U.S. Department of the Treasury data on financial derivatives.

Note: For details regarding these data, see Survey of Current Business, July 2011.

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

² U.S. official gold stock is valued at market prices.

 ^{3.} Unicial goin stock is varied at maker prices.
 3 Also includes paid-in capitale 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.
 4 Includes indebtedness that the borrower may contractually, or at its option, repay with its currency, with a third country's currency, or by delivery of

materials or transfer of services.

materials or transfer of services.

5 Beginning in 2007, includes foreign-currency-denominated assets obtained through temporary reciprocal currency arrangements between the Federal Reserve System and foreign central banks.

6 A break in services in 2005 reflects the addition of previously unreported claims of U.S. financial intermediaries on their foreign parents associated with the issuance of asset-backed commercial paper in the United States.

7 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, 1985-2011

Year or quarter	United States ¹	Canada	Japan	France	Germany ²	Italy	United Kingdom			
			Industrial	production (Index, 2	(007=100) ³					
1985 1986 1987 1988 1988	54.6 55.2 58.0 61.0 61.5	64.8 64.3 67.0 71.5 71.2	74.1 73.9 76.5 83.8 88.7	73.4 74.3 75.8 78.8 81.7	62.8 64.0 64.3 66.5 69.7	72.1 75.0 77.3 82.2 85.2	79.0 81.0 84.2 88.3 90.1			
1990 1991 1992 1993 1994 1995 1996 1997 1998	62.1 61.2 62.9 65.0 68.4 71.6 74.8 80.2 84.9 88.5	69.3 66.8 67.7 70.9 75.4 78.8 79.7 84.3 87.2 92.3	92.3 93.9 88.2 84.9 85.7 88.3 90.1 93.8 87.2 87.6	86.6 86.2 84.6 81.1 84.6 86.8 86.6 90.0 93.2 94.7	73.3 78.2 76.5 70.7 72.8 73.6 73.6 75.8 78.6 79.5	85.4 84.6 83.7 81.7 86.6 91.8 90.2 93.7 94.9	89.8 86.8 87.1 89.0 93.8 95.5 96.8 98.1 99.1			
2000	92.1 88.9 89.1 90.2 92.3 95.3 97.4 100.0 96.3 85.5	100.3 96.3 97.8 97.9 99.5 101.4 100.8 95.5 84.5	92.2 86.2 85.1 87.6 91.8 93.2 97.1 100.0 96.6 75.5	98.1 98.9 97.5 96.5 97.7 97.9 98.8 100.0 97.1 84.9	83.9 84.2 83.3 83.7 86.3 89.2 94.3 100.0 100.0 83.7	98.7 97.5 96.0 95.5 95.2 94.7 98.2 100.0 96.3 78.3	102.9 101.3 99.8 99.5 100.3 99.5 100.0 97.2 88.5			
2011 P	93.8 88.0 89.5 91.0 91.7 92.8 92.9 94.4	87.7 89.7 90.4 90.8 93.0 92.2 93.5	88.1 88.7 87.8 87.7 85.9 82.5 86.0	87.4 89.1 88.8 90.0 91.8 90.8 91.3	87.7 92.3 94.0 96.6 98.3 99.9 101.6	81.9 83.1 84.0 84.5 83.8 84.3 83.9	89.2 90.2 90.4 90.6 90.4 89.1 89.2			
IV P	95.1									
4005	407.0	100.0			,	1010				
1985	107.6 109.6 113.6 118.3 124.0	108.9 113.5 118.4 123.2 129.3	104.2 104.8 105.0 105.7 108.1	114.3 117.2 121.1 124.3 128.7	104.9 104.7 105.0 106.3 109.2	121.8 128.9 135.0 141.9 150.8	111.1 114.9 119.7 125.6 135.4			
1990 1991 1992 1993 1993 1995 1995 1996 1997	130.7 136.2 140.3 144.5 148.2 152.4 156.9 160.5 163.0 166.6	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	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 2001 2002 2003 2003 2004 2005 2006 2007 2008	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	121.0 120.1 119.0 118.7 118.7 118.4 118.6 118.7 120.3 118.7	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	218.056 224.939 217.020 218.051 218.254	201.4 207.2 199.6 200.9 202.0	117.9 117.5 118.0 118.2 117.5	186.9 190.9 185.7 187.3 187.0	166.3 170.2 165.3 166.0 166.6	286.5 294.5 284.3 286.2 287.4	262.7 276.3 257.6 262.6 263.7			
2011:	218.898 221.666 225.531 226.452 226.108	203.1 204.8 207.6 208.0 208.6	117.7 117.4 117.7 117.7 117.4	187.8 189.1 191.2 191.1 192.3	167.3 168.8 169.9 170.7 171.2	288.1 291.0 293.8 295.5 297.7	266.7 271.3 276.0 277.5 280.4			

See Note, Table B-51 for information on U.S. industrial production series.
 Prior to 1991 data are for West Germany only.
 All data exclude construction. Quarterly data are seasonally adjusted.

Note: National sources data have been rebased for industrial production and consumer prices.

Sources: 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, 1985-2011

[Quarterly data seasonally adjusted]

		[2001	terry uata seasur	nany adjusticaj			
Year or quarter	United States	Canada	Japan	France	Germany ¹	Italy	United Kingdom
			Civilian u	inemployment rate	(Percent) ²		
1985	7.2 7.0 6.2 5.5 5.3 ³ 5.6 6.8 7.5	10.1 9.2 8.4 7.4 7.1 7.7 9.8 10.6	2.5 2.7 2.6 2.4 2.2 2.0 2.0 2.1	9.1 9.1 9.2 8.9 8.3 8.0 8.3	7.2 6.6 6.3 6.3 5.7 5.0 ³ 5.6 6.7	6.0 ³ 7.5 7.9 7.9 7.0 ³ 6.9 7.3	11.4 11.4 10.5 8.6 7.3 7.1 8.9
1993 1994 1995 1996 1997 1998 1998	6.9 36.1 5.6 5.4 4.5 4.2 4.0	10.8 39.6 8.6 8.8 7.7 7.0 6.1	2.4 2.6 2.9 3.1 3.1 3.8 4.2	10.2 10.8 10.2 10.7 10.9 10.5 10.1	8.0 8.5 8.2 9.0 9.3 9.3 38.5 7.8	39.8 10.7 11.3 11.3 11.4 11.5 11.0	10.4 9.5 8.7 8.1 7.0 6.3 6.0 5.5
2001 2002 2003 2004 2005 2006 2007 2007 2008	4.7 5.8 6.0 5.5 5.1 4.6 4.6 9.3	6.5 7.0 6.9 6.4 6.0 5.5 5.2 5.3 7.3	4.5 4.9 4.6 4.2 3.8 3.6 3.6 3.7	7.9 8.0 8.6 9.0 9.0 8.9 8.1 7.5 9.2	7.9 8.6 9.3 10.3 311.2 10.3 8.7 7.6 7.8	9.2 8.7 8.5 8.1 7.8 6.9 6.2 6.8 7.9	5.1 5.2 5.0 4.9 5.5 5.4 5.7
20102011	9.6 8.9	7.1	4.8	9.4	7.2	8.6	7.9
2010:	9.8 9.6 9.5 9.6 9.0	7.4 7.2 7.0 6.7 6.7 6.5	4.7 4.8 4.7 4.7 4.4 4.3	9.6 9.5 9.5 9.3 9.3	7.6 7.3 7.1 7.0 6.8 6.6	8.6 8.7 8.3 8.4 8.3 8.2	8.0 7.9 7.8 7.9 7.8 7.9
II III IV	9.1 8.7	6.3	4.1	9.2	6.5	8.3	8.3
IV	0.7	Manuf	acturing hourly cor	npensation in U.S. (dollars (Index, 2002	=100) 4	
1985 1986 1987 1988 1989	51.4 53.8 55.6 57.5 59.3	64.6 64.6 69.3 78.1 85.0	32.7 48.2 57.8 66.8 65.7	39.9 54.0 64.7 67.6 66.7	32.8 46.3 58.4 62.2 61.1	44.8 61.2 75.9 81.2 85.0	33.2 40.8 50.5 58.6 57.6
1990 1991 1992 1993 1994 1995 1996 1997 1998	62.1 65.8 68.9 70.5 72.2 73.4 74.6 81.2 84.8	91.9 100.2 99.5 94.3 91.6 93.4 95.4 96.3 94.5	66.8 76.6 84.3 98.9 109.5 123.1 107.3 99.7 94.4	81.7 83.4 93.4 91.0 96.3 110.5 109.6 99.5 99.3 98.3	76.4 79.1 92.0 92.2 98.4 117.4 117.0 103.4 103.4 101.4	104.8 110.1 118.0 96.3 99.1 103.7 115.5 109.5 105.5	70.4 78.6 78.4 68.9 72.0 75.2 74.2 81.1 88.3 91.7
2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010	91.3 94.8 100.0 108.0 108.9 112.5 114.8 118.5 123.6 129.1	99.5 98.1 100.0 116.6 130.3 146.2 162.4 177.4 181.0 166.5	113.9 102.3 100.0 105.6 114.3 113.2 106.1 103.1 119.1 133.0	89.7 89.3 100.0 122.8 139.3 144.4 151.4 168.5 185.9 181.1	92.4 92.4 100.0 122.4 135.2 137.1 144.0 158.7 175.1 174.1	91.9 92.1 100.0 124.2 141.2 145.9 150.4 168.8 188.7 184.8	91.0 90.6 100.0 114.5 134.4 141.4 151.2 170.1 160.9 140.7

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 (1986, 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, 10 Countries, 1970–2010*, March 30, 2011, Appendix B, at http://www.bls.gov/fls/flscomparelf/notes.htm#country_notes.

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, 2010*, October 13, 2011.

TABLE B-110. Foreign exchange rates, 1992-2011

[Foreign currency units per U.S. dollar, except as noted; certified noon buying rates in New York]

Period	Australia (dollar) ¹	Canada (dollar)	China, P.R. (yuan)	EMU Members (euro) 1, 2	Germany (mark) ²	Japan (yen)	Mexico (peso)	South Korea (won)	Sweden (krona)	Switzer- land (franc)	United Kingdom (pound) ¹
March 1973	1.2716	0.9967	2.2401		2.8132	261.90	0.013	398.85	4.4294	3.2171	2.4724
1992 1993 1994 1995 1996 1997 1998	.7352 .6799 .7316 .7407 .7828 .7437 .6291 .6454	1.2085 1.2902 1.3664 1.3725 1.3638 1.3849 1.4836 1.4858	5.5206 5.7795 8.6397 8.3700 8.3389 8.3193 8.3008 8.2783	1.0653	1.5618 1.6545 1.6216 1.4321 1.5049 1.7348 1.7597	126.78 111.08 102.18 93.96 108.78 121.06 130.99 113.73	3.095 3.116 3.385 6.447 7.600 7.918 9.152 9.553	784.66 805.75 806.93 772.69 805.00 953.19 1,400.40 1,189.84	5.8258 7.7956 7.7161 7.1406 6.7082 7.6447 7.9522 8.2740	1.4064 1.4781 1.3667 1.1812 1.2361 1.4514 1.4506 1.5045	1.7663 1.5016 1.5319 1.5785 1.5607 1.6376 1.6573 1.6172
2000	.5815 .5169 .5437 .6524 .7365 .7627 .7535 .8391 .8537 .7927	1.4855 1.5487 1.5704 1.4008 1.3017 1.2115 1.1340 1.0734 1.0660 1.1412	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	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	9.1735 10.3425 9.7233 8.0787 7.3480 7.4710 7.3718 6.7550 6.5846 7.6539	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
2010 2011	.9200 1.0332	1.0298 .9887	6.7696 6.4630	1.3261 1.3931		87.78 79.70	12.624 12.427	1,155.74 1,106.94	7.2053 6.4878	1.0432 .8862	1.5452 1.6043
2010: I II III IV	.9041 .8842 .9062 .9879	1.0401 1.0273 1.0386 1.0129	6.8271 6.8237 6.7680 6.6570	1.3821 1.2740 1.2938 1.3586		90.66 92.08 85.74 82.54	12.759 12.553 12.789 12.389	1,142.84 1,164.80 1,181.06 1,132.56	7.1928 7.5737 7.2501 6.7843	1.0583 1.1073 1.0308 .9740	1.5575 1.4931 1.5521 1.5804
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

Trade-weighted value of the U.S. dollar

		Non	ninal			Real 7				
	G-10 index (March 1973=100) ³	(March (January		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			
1992 1993 1994 1995 1996 1997 1998	86.6 93.2 91.3 84.2 87.3 96.4 98.8	76.91 83.78 90.87 92.65 97.46 104.43 115.89 116.16	87.00 89.90 88.43 83.41 87.25 93.93 98.45 97.06	53.13 63.37 80.54 92.51 98.24 104.64 125.89 129.20	87.79 89.13 88.96 86.51 88.52 93.23 101.20 100.33	82 20 85.46 85.10 81.24 86.14 93.41 98.47 98.14	104.96 102.33 102.34 102.40 99.40 100.45 113.61 112.18			
2000 2001 2001 2002 2003 2004 2005 2006 2007 2007 2008 2009		119.55 126.06 126.82 119.26 113.76 110.84 108.70 103.58 99.90	101.76 107.87 106.18 93.15 85.51 83.86 82.60 77.96 74.42 77.69	129.81 135.92 140.41 143.57 143.38 138.87 135.40 130.23 126.80 135.91	104.18 110.17 110.32 103.65 99.01 97.34 96.22 91.63 87.78 91.39	104.80 112.23 110.62 97.60 90.62 90.37 90.30 86.14 83.15 86.24	112.31 116.82 119.26 120.84 119.41 115.73 113.02 107.44 102.21			
2010 2011		101.85 97.17	75.39 70.88	130.37 125.76	87.13 82.66	83.87 79.58	100.15 94.99			
2010: I		102.13 103.58 102.42 99.26	74.90 77.63 75.90 72.98	131.65 131.19 130.92 127.68	88.03 88.71 87.49 84.28	83.52 86.38 84.48 81.11	102.37 101.03 100.31 96.90			
2011: I		97.77 95.32 95.92 99.65	71.86 69.61 69.77 72.38	125.82 123.29 124.46 129.47	83.21 81.23 81.75 84.43	80.32 78.10 78.67 81.24	95.43 93.46 93.99 97.08			

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 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, 1992-2011

[Millions of special drawing rights (SDRs); end of period]

A	4000	0000	0007	0000	0000	0040	20)11
Area and country	1992	2002	2007	2008	2009	2010	October	November
World ¹	760,933	1,893,554	4,306,246	4,842,754	5,481,411	6,295,460	6,765,590	6,904,817
Advanced economies 1	557,729	1,160,395	1,587,985	1,674,763	1,954,426	2,196,883	2,334,558	2,404,358
United States	52,995	59,160	46,820	52,396	85,519	87,977	97,212	97,443
Japan	52,937	340,088	603,794	656,178	652,926	690,127	737,040	814,111
United Kingdom Canada	27,300 8,662	27,973 27,225	31,330 25,944	29,142 28,426	35,881 34,601	44,728 37,015	51,101 41,141	51,380 42,252
Euro area (incl. ECB) 1		195,771	148,621	154,221	192,559	207,103	210,652	212.785
Austria	9,703	7,480	7,079	6,101	5,491	6,542	7,676	7,547
Belgium	10,914	9,010	6,827	6,306	10,403	10,970	11,573	11,698
Cyprus Estonia	764 127	2,239 736	3,888 2,065	416 2,574	524 2,534	350 1.660	362 136	356 139
Finland	3,862	6.885	4,525	4.587	6.250	4.813	5,302	5.297
France	22,522	24,268	31,855	24,630	32,487	38,974	36,087	34,123
Germany	69,489	41,516	31,896	31,846	42,059	44,277	46,162	46,470
Greece	3,606 2,514	6,083 3,989	526 499	350 572	1,118 1,245	976 1,203	1,020 1,183	955 916
Ireland Italy	22,438	23,798	20.721	26.838	31.955	33,722	33.722	34,119
Luxembourg	66	114	93	220	469	488	591	570
Malta	927	1,625	2,396	239	340	348	301	292
Netherlands	17,492	7,993	7,198	8,140	12,088	12,683	13,837	13,711
Portugal Slovak Republic	14,474	8,889 6.519	1,226 11,450	1,281 11.631	1,996 477	2,802 503	2,044 570	1,997 569
Slovenia	520	5.143	624	567	620	605	599	535
Spain	33,640	25,992	7,582	8,376	11,930	12,749	15,363	18,837
Australia China, P.R.: (Hong Kong)	8,429	15,307	15,764	20,015	24,935	25,193	27,055	26,150
China, P.R.: (Hong Kong)	25,589	82,308	96,593	118,468	163,152	174,446	177,564	182,025
Czech Republic	8.090	17,342 19,924	21,878 20.663	23,812 26.347	26,268 47.464	27,227 47.803	25,969 56.395	26,189 52,731
Denmarklceland		326	1,634	2,284	2,435	3,703	5,380	5,888
Israel		17,714	18,047	27,601	38,663	46,043	48,490	48,437
Korea	12.463	89,272	165,908	130,607	172,201	189,293	195,274	197,575
New Zealand		3,650 23,579	10,914	7,175	9,947 31,166	10,859 34,284	13,885	12,667 29,772
Norway San Marino		135	38,500 410	33,079 459	504	292	31,831	29,772
Singapore		60.478	103,121	113.092	119,796	146,565	154,824	155.392
Sweden	16,667	12,807	17,281	16,967	27,481	27,781	28,129	28,316
Switzerland Taiwan Province of China	27,100	31,693	29,432	30,426	63,810	146,285	183,784	170,444
	60,333	119,381 729.317	171,532	189,864	222,586	248,527	248,490	250,526 4.496,743
Emerging and developing economies	196,119	729,317	2,714,485	3,164,230	3,523,429	4,094,846	4,427,324	4,490,743
By area: Developing Asia	63.596	368,405	1,355,391	1,654,908	1,973,767	2,370,440	2,583,566	2,630,147
China, P.R. (Mainland)	15,441	214,815	969.055	1,266,206	1,542,335	1,862,240	2,000,000	2,000,117
India	4,584	50,174	169,356	161,036	169,782	179,375	183,700	181,633
Europe	13,684	107,521	503,928	480,811	501,200	550,712	575,647	570,015
Russia Middle East and North Africa	45.316	32,840 107,687	295,872 480.435	267,908 602,353	266,503 596,194	288,925 659.340	301,728 697,196	299,188 715.737
Sub-Saharan Africa	8.421	27,004	92,324	102,270	101,816	102,731	109,444	111,301
Western Hemisphere	65,102	118,700	282,407	323,888	350,452	411,624	461,881	469,955
Brazil	16,457	27,593	113,585	125,239	151,448	186,434	221,403	225,736
Mexico	13,800	37,223	55,128	61,766	63,536	78,101	88,311	91,142
Memoranda:	40.004	404.000	700 404	000 000	000 000	040.705	4 040 004	4 007 007
Export earnings: Fuel Export earnings: Nonfuel	40,861 155.257	131,380 597,937	793,421 1,921,064	900,280 2,263,949	866,829 2,656,599	943,765 3,151,081	1,013,081 3,414,243	1,027,937 3,468,806
	100,207	721,231	1,341,004	2,203,349	2,000,099	3,131,001	3,414,243	3,400,000

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; 1.58025 in 2007; 1.54027 in 2008; 1.56769 in 2009; 1.54003 in 2010; 1.58590 in October 2011; and 1.55156 in November 2011.

TABLE B-112. Growth rates in real gross domestic product, 1993-2012 [Percent change]

				0 -							
Area and country	1993– 2002 annual average	2003	2004	2005	2006	2007	2008	2009	2010	2011 1	2012 1
World	3.3	3.6	4.9	4.6	5.3	5.4	2.8	7	5.2	3.8	3.3
Advanced economies	2.8	1.9	3.1	2.7	3.1	2.8	.1	-3.7	3.2	1.6	1.2
Of which: United States Euro area ² Germany France Italy, Spain Japan United Kingdom Canada	3.4 2.1 1.4 2.0 1.6 3.2 0.8 3.1 3.5	2.5 .7 4 .9 .0 3.1 1.4 2.8 1.9	3.5 2.2 .7 2.3 1.5 3.3 2.7 3.0 3.1	3.1 1.7 .8 1.9 .7 3.6 1.9 2.2 3.0	2.7 3.2 3.9 2.7 2.0 4.0 2.8 2.8	1.9 3.0 3.4 2.2 1.5 3.6 2.4 2.7 2.2	3 .4 .8 2 -1.3 .9 -1.2 1	-3.5 -4.3 -5.1 -2.6 -5.2 -3.7 -6.3 -4.9 -2.8	3.0 1.9 3.6 1.4 1.5 1 4.4 2.1 3.2	1.8 1.6 3.0 1.6 .4 .7 9 .9	1.8 5 .3 .2 -2.2 -1.7 1.7 .6 1.7
<i>Memorandum:</i> Newly industrialized Asian economies ³	5.4	3.2	5.9	4.8	5.8	5.9	1.8	7	8.4	4.2	3.3
Emerging and developing economies	4.1	6.2	7.5	7.3	8.2	8.9	6.0	2.8	7.3	6.2	5.4
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	3.2 -1.2 -0.9 7.1 9.8 5.8 2.7 2.9 2.7 3.3	4.8 7.7 7.3 8.1 10.0 6.9 2.1 1.1 1.4 7.3 4.9	7.3 8.1 7.2 8.5 10.1 7.6 6.0 5.7 4.0 5.9 7.1	5.8 6.7 6.4 9.5 11.3 9.0 4.6 3.2 3.2 5.4 6.2	6.4 8.9 8.2 10.3 12.7 9.5 5.6 4.0 5.2 6.0 6.4	5.5 8.9 8.5 11.5 14.2 10.0 5.8 6.1 3.2 6.7 7.1	3.1 5.3 5.2 7.7 9.6 6.2 4.3 5.2 1.2 4.6 5.6	-3.6 -6.4 -7.8 7.2 9.2 6.8 -1.7 -6 -6.2 2.6	4.5 4.6 4.0 9.5 10.4 9.9 6.1 7.5 5.4 4.3 5.3	5.1 4.5 4.1 7.9 9.2 7.4 4.6 2.9 4.1 3.1	1.1 3.7 3.3 7.3 8.2 7.0 3.6 3.0 3.5 3.5

¹ All figures are forecasts as published by the International Monetary Fund. For the United States, advance estimates by the Department of Commerce show that real GDP rose 1.7 percent in 2011.

Note: For details on data shown in this table, see World Economic Outlook, September 2011, and World Economic Outlook Update, January 2012, published by the International Monetary Fund.

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.

